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THE UNIVERSITY OF NEW MEXICO

2000-01
ANNUAL REPORTS

VOLUME I

ANNUAL REPORTS
2000-2001

VOLUME I

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Annual Report 2000 – 2001

The University of New Mexico

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UNM Board of Regents

Seated (L-R) Jack Fortner, Esq.; Larry D. Willard, President; and David A. Archuleta, Esq.
Standing (L-R) Eric Anaya; Sandra Begay - Campbell; Col. USAF (Ret.) Richard Toliver; Judith C. Herrera, Esq.

Message from the President

Thank you for joining me in this look back over the past year at the University of New Mexico. It was a year filled with activity, accomplishment and challenge, and this is our opportunity to reflect back on that year.

Kathy and Bill Gordon

In 2000-2001 we engaged in a University-wide strategic planning process that called on the energies and talents of hundreds of individuals – faculty, staff, students and members of our broader community. The plan, which will be completed in Fall 2001, will serve as our roadmap for the future and will guide our efforts to capitalize on the opportunities and to meet the challenges of the next several years. This process has encouraged us to examine closely our mission and our values, who we are and what we aspire to become. It has given us reason to be proud of our past and cause to think seriously about how we must change in the future.

While this was a year for looking ahead, it was also a year of significant accomplishment. For example, we launched a comprehensive set of programs designed to enrich the academic and social experiences of our undergraduate students. We began the implementation of Freshman Learning Communities where small cohorts of students study and learn together in a common set of courses under the guidance of a senior faculty scholar. We reorganized our advisement systems, we undertook the construction or renovation of student-centered facilities on campus, and we created new support systems to enhance student academic success.

It was a year in which our support of faculty, staff and students was our highest priority. Through the support of the New Mexico Legislature, faculty and staff received significant salary increases. A new health benefits plan for graduate assistants was implemented. Our "Staff as Students" program enabled more than 40 staff members to obtain UNM degrees. And, a Center for Scholarship in Teaching and Learning was established to assist faculty in their efforts to develop more effective teaching skills.

Finally, this was a year in which UNM dramatically expanded its role in the local community and throughout the state. Never before has the University been as active or as visible in meeting its public responsibility as it was in 2000-2001. From its active participation in economic development initiatives, to its involvement in K-12 educational improvement efforts, to its significant leadership role in health care delivery, UNM demonstrated its ability to help the state meet its most pressing social challenges. And, as UNM took on a more visible role in supporting the state's citizens, the support for UNM was returned in kind. This year, annual giving to the University rose to a record 35.3 million dollars, a 40% increase over just two years ago.

All told, it has been a gratifying and successful year. However, we cannot allow our past accomplishments to mask the continued challenges facing this University. Neither will we allow these challenges to dominate our thinking and diminish our pride in what the University has achieved. So we will savor our successes and continue to move forward. As always, we thank you for sharing our dreams and for supporting the University of New Mexico.

Sincerely,

William C. Gordon

William C. Gordon, President

Achievements

Crown Prince Establishes Chair
The Crown Prince of Spain, Felipe de Borbón, Prince of Asturias, visited UNM in October 2000 to announce a new endowed chair in Information Science and Technology that bears his name. He was also presented with the University Medal. The Prince of Asturias Endowed Chair in Information Science and Technology is funded by a $1.5 million endowment from Iberdrola, one of Spain's largest power companies.

Hispanic Student Initiative
The ENLACE program, a coalition that includes UNM, Albuquerque Technical-Vocational Institute and Albuquerque Public Schools, among others, received a four-year, $2.3 million award through a W.K. Kellogg Foundation initiative to help increase the number of Hispanic students earning high school and college degrees.

Regents Named
New Mexico Governor Gary E. Johnson named two new members, Eric Anaya and Sandra K. Begay-Campbell, to the UNM Board of Regents.

Hispanic Rankings
UNM is listed 12th in the nation on the Hispanic Outlook in Higher Education list of the 100 top colleges and universities for Hispanics.

Great Graduate Programs
In its latest guide to the nation's best graduate programs, U.S. News and World Report recognizes UNM's rural medicine (2nd), primary care (3rd), family medicine (6th) and clinical law (7th) programs, along with the School of Engineering (48th). UNM's Law School was also cited for its racially diverse student body.

ACE Funding for Minorities
The NASA Autonomous Control Engineering (ACE) Center received $5 million from NASA for a five-year continuation of its program to help minority students obtain postgraduate degrees. ACE also received $1.07 million from NASA's Cross-Enterprise Technology Development Program.

Teacher Academy
To help prepare and attract high-quality teachers in math, science and the use of technology, the College of Education designed its Mathematics and Science Teacher Academy. The project received a federal Title III grant with the assistance of Congresswoman Heather Wilson.

Regents' Medals Trio
UNM Regents' Meritorious Service Medals, which recognize extraordinary and distinguished service to UNM, were awarded to Assistant to the President Marilyn A. Burrows and Associate Vice President Emeritus for Research/Business and Government Relations Lee B. Zink. The Regents' Recognition Medal was presented to former Governor Bruce King.

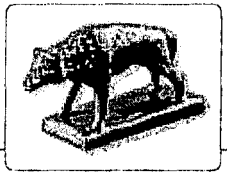
Top 100 List
For the fifth consecutive year, UNM was named to America's 100 Best College Buys annual report, designating the institution as one of the country's best valued college educations.

Tamarind at 40
The Tamarind Institute, UNM's internationally renowned institute of lithography, marked its 40th year with a retrospective exhibition of prints from the institute's archives.

Hibben Center
Groundbreaking for the Hibben Center for Archaeological Research took place in May, as a salute to Frank and Marilyn Hibben. Scheduled for completion in 2002, the building will house collections from Pottery Mound, a graduate research center and the Hibben Trust.

Honorary Degrees
Author and artist N. Scott Momaday received an honorary Doctorate of Letters degree and architect Antoine Predock received an honorary Doctorate of Fine Arts degree at UNM's Spring 2001 commencement.

Speakers' Series
The UNM 21st Century Speakers' Series featured *Our Childrens' Future* with family psychologist John Rosemond, child advocate Kati Haycock, Herman D'Hooge of the Intel Smart Toy Lab, National Public Radio correspondent Claudio Sanchez and motivational speaker Ann Forts.



"...a gratifying and successful year."

Faculty

Research Lecturer
Mohamed S. El-Genk, Regents' Professor in Chemical and Nuclear Engineering and the founding Director of the Institute for Space and Nuclear Power Studies, was selected as the 46th Annual Research Lecturer, the highest honor UNM bestows on faculty members.

Mohamed S. El-Genk

Distinguished Professors
Three faculty members were named Distinguished Professors, the most prestigious title given to UNM faculty. Anthropology Professor Louise Lamphere and James Hemphill Brown and Randy Thornhill, both of Biology, received the awards.

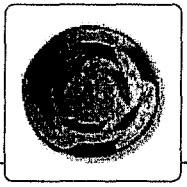
Engineering Fellow
Mechanical Engineering Professor and Chair Marc Ingber was elected as a Fellow in the American Society of Mechanical Engineers (ASME). It is the highest honor from the Society's governing body, awarded to just two percent of members.

Fulbright Scholars
Five faculty members were named to the highly competitive Fulbright International Education Exchange Program for 2000-01 and 2001-02. Elen A. Feinberg, Professor of Art and Art History; Peter J. Smith, Professor of Art Education; James L. Thorson, Professor of English; and Samuel Jefferson Truett, Assistant Professor of History, received the 2000-01 awards. Civil Engineering Professor and Regents' Lecturer Timothy J. Ross received a 2001-02 award.

Planning Prize
On behalf of the Design and Planning Assistance Center, the community outreach arm of the School of Architecture and Planning, Professor Richard Nordhaus received an AIA Western Mountain Region Award.

Bravos, Bravos
A trio of UNM representatives received Bravos awards from the Albuquerque Arts Alliance. Faculty member Eva Encinias-Sandoval was recognized for Excellence in Dance, Professor Emeritus Rudolfo Anaya was recognized for Excellence in Literary Arts and Tom Dodson, College of Fine Arts Dean, received the President's Award for Lifetime Excellence in the Arts.

Teaching Awards
Five faculty members and teaching assistants in the College of Arts and Sciences received 2000-01 Gunter Starkey Teaching Awards. Cited for their excellence in teaching were Professors Aparna Huzurbazar in Mathematics and Statistics, Sharon O. Warner in English, Warren Smith in Foreign Languages and Literatures and teaching assistants Mary Rooks in English and Elizabeth Malloy in Mathematics and Statistics.



"It was a year in which our support of faculty, staff and students was our highest priority."

Research

Keck Award
The W.M. Keck Foundation awarded the UNM Health Sciences Center a $1 million grant to support cancer research studies that will take advantage of new tools developed by the Human Genome Project.

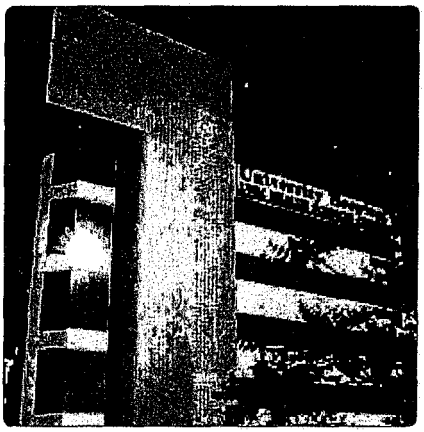
Distinguished Professor
Robert Glew, Professor in the Department of Biochemistry and Molecular Biology, was awarded the Paul W. Brindler Distinguished Visiting Professorship in Pathology from the University of

Texas at San Antonio in recognition of his health research in third world countries.

Vice Provost Appointed
Terry Yates was named UNM Vice Provost for Research. He is a tenured full professor in the Department of Biology with a joint appointment in the Department of Pathology at the UNM Medical School.

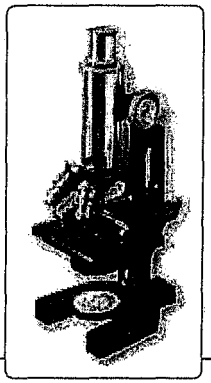
Healthcare Expert
Robert Rhyne, Associate Professor in the School of Medicine's Department of Family and Community Medicine, is consulting with Russian universities and communities on education and healthcare delivery policies under the sponsorship of the American International Health Alliance and the U.S. Agency for International Development (AID).

Improving Health Status
Arthur Kaufman, M.D., Chair of the Department of Family and Community Medicine, received a $900,000 Health Resources and Services Administration Community Access Grant to improve the health status of uninsured and under-



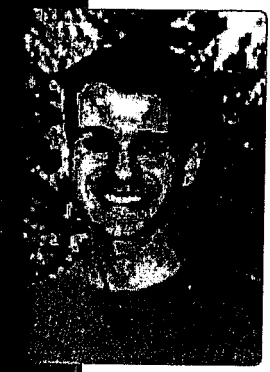
insured people in Bernalillo, Torrance, Sandoval and Valencia counties.

National First
J. David Pitcher, M.D., recently implanted the nation's first "growing" distal femurprosthesis at UNM Hospital. The implant can be adjusted through surgery to eliminate the need for amputation in many cases.



"...a year of significant accomplishment."

Students



Truman Scholar
Biochemistry major John Probasco was one of 80 students nationwide named a Truman Scholar. The prestigious scholarship helps fund students' senior years and up to three years of graduate study.

NSF Graduate Fellows
Psychology students Ira Driscoll and Glenn Scheyd each captured a highly coveted National Science Foundation Graduate Research Fellowship that pays for three years of graduate school.

Marshall Scholar
Jennifer Halbleib, a biochemistry major, was awarded the highly competitive Marshall Scholarship which provides American students the opportunity to continue their studies at a British University such as Oxford.

Radiologists Ace Exams
The five radiology residents at the School of Medicine passed their American Board of Radiology clinical written exams with the nation's highest scores. This is the third time in the past 12 years that UNM students have topped the written exam.

Clauve Winners
The recipients of the 2001 Clauve Outstanding Senior Award are Barbara Tapp, Shanti Frausto, Kanika Chawla, Irvin Harrison and Jennifer Ca-fen Liu.

Commencement Speaker
Irvin Harrison delivered the students' address at commencement. He graduated magna cum laude with a bachelor's degree in English. Of 2,491 students taking home degrees that morning, Harrison, a Navajo, was one of 119 Native American graduates.

Law Online
The first issue of the Tribal Law Journal is now online; it was created in a volunteer effort led by UNM law students.

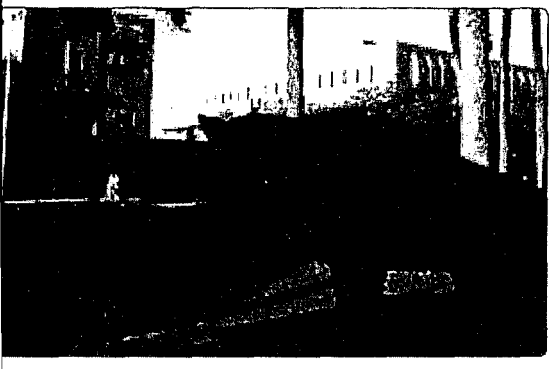
Life-Saving Vials
Student members of the American Pharmaceutical Association, in partnership with WalMart Pharmacies, sponsored the Vial of Life program across New Mexico. They distributed more than 26,000 vials.

Graduation Milestone
Academic Affairs' Graduation Project, unique in the nation, reached a milestone with more than 3,000 former UNM dropouts contacted. Of those students, more than 1,000 have returned and nearly 600 have graduated.

Great people doing great things.

Public Service Honor
Research Professor Arthur H. Guenther of the Center for High Technology Materials was awarded the New Mexico Distinguished Public Service Award by Governor Gary Johnson.

Deans Named
Joseph L. Cecchi was appointed Dean of the UNM School of Engineering (SOE). He had served as chair of the Chemical and Nuclear Engineering Department since 1994 and as SOE Interim Dean since November 2000. Reed Dasenbrock was named Dean of the College of Arts and Sciences. He was the Associate Dean of Arts and Sciences and director of the Arts and Sciences Research Park at New Mexico State University.



Engineering Honors
School of Engineering Professors David A. Bader, Hy D. Tran and Sang M. Han each received a National Science Foundation Faculty Early Career Development (CAREER) Award. The premier program recognizes faculty who combine research with inspired teaching and enthusiastic learning.

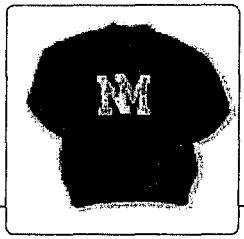
National Academy Fellow
Jesse Summers, Professor in the School of Medicine Department of Molecular Genetics and Microbiology, was elected to the National Academy of Sciences. Election to the Academy is one of the highest honors for a scientist.

Governor's Award Winners
Dr. Cheryl Willman, Director of the School of Medicine's Cancer Research and Treatment Facility, and Dr. Renee Ornelas, Associate Professor in the Department of Pediatrics, were selected as recipients of the 16th Annual Governor's Award for Outstanding New Mexico Women.

Psychiatric Citations
Dr. Mary Kaven, Assistant Professor in the School of Medicine's Department of Psychiatry, received a Presidential Citation from the American Psychological Association in recognition of her sustained and successful legislative lobbying efforts. She also was one of 10 people nationally to receive the Karl F. Heiser Award in recognition of effective advocacy related to mental health issues.

Also in psychiatry, Assistant Professor Dr. Steve Adelsheim received the Norbert and Charlotte Rieger Service Program Award for Excellence from the American Academy of Child and Adolescent Psychiatry.

Fine Arts Awards
Keith Lemmons, Professor of Music, was named a Presidential Teaching Fellow for 2000-01. Christopher Shultis, Professor of Music, was named Regents' Professor in the College of Fine Arts. Susan Dever, Assistant Professor of Media Arts, was named Outstanding Teacher of the Year. Anne Marie Ornelas, Fine Arts Undergraduate Advisor, was one of four UNM advisors recognized with Outstanding Advisor Awards.



College Centerfold

Anderson Schools of Management

- The Schools were named among the country's top 10 business schools for Hispanic students by Hispanic Business magazine.
- Faculty and staff members focused on economic development by participating in the Next Generation Economy Initiative workgroups. The Schools also formalized the creation of a Center for Economic Development.
- A multi-year gift from Ford Motor Company provided for the renovation of the Schools' Advisement and Placement Center and student organization offices, along with faculty research and course development support.
- Three outstanding alumni were inducted into the Hall of Fame: Robert S. Carr, Maria Griego-Raby and William F. Riordan.

Architecture and Planning

- The Resource Center for RAZA Planning will help provide community development assistance in Albuquerque's South Valley with a $400,000 grant from the Department of U.S. Housing and Urban Development through its Hispanic-Serving Institutions Assisting Communities Program.
- The Master of Landscape Architecture program was initiated under the direction of Associate Professor Alfred Simon, formerly of the University of Manitoba.
- World-renowned architects Antoine Predock and Bart Prince joined the Architecture faculty.

Continuing Education

- The Division's Welfare-to-Work initiative, CAREER Works, successfully served more than 3,500 clients this year.
- The Spanish Resource Center, housed at the National Hispanic Cultural Center, added more than 1,000 volumes to its library and implemented Internet course delivery.

Education

- The College launched a campaign to create its first endowed professorship and chair. The Chester C. Travelstead Professorship in Teacher Education honors the former dean and Vice President/Provost.
- The U.S. Dept. of Education selected the College's Career Development Program as one of the nation's top five exemplary programs in contextual teaching and learning in teacher education. It is a partnership with the Albuquerque Public Schools.
- The College passed its accreditation review from the National Council for Accreditation of Teacher Education. It also received a national award from the Association of Teacher Educators for the UNM/Santa Fe Public Schools Teacher Education and Mentoring Program.

Engineering

- The Minority Engineering, Mathematics and Science Program was awarded the 2000 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring. The award is administered and funded through the National Science Foundation.
- UNM was selected as the lead institution for the New Mexico One program, a Department of Energy fellowship program that links universities in an effort to increase diversity in nuclear engineering and nuclear science.
- Six alumni were honored at the Distinguished Engineering Alumni Awards Banquet, as follows: Nasir Ahmed, Kenneth Donald Hansen, Bijay Rajbajhbhandry, Randy Velarde, James Ernest Warne Jr. and K. Dane Wittrup.

Fine Arts

- The Arts of the Americas Institute, with a grant from the Educational Foundation of America, supported developing an online database of contemporary Native American artists and creating a Museum

Studies program with a Native American component. The Institute and the Arts Technology Center received grant funding from the McCune Foundation for operational expenses.

- Tamarind Institute received a grant from the Trust for Mutual Understanding to support artistic collaboration in the Yugoslav Republics and a grant from Amigos del Arte to support the participation of Chilean lithography professors in Tamarind's summer programs.

General Library

- Zimmerman Library will create an Information Commons that combines telecommunications and technology with traditional library resources. Ford Motor Company committed $400,000 to the project.

Law

- The Kresge Foundation awarded the School of Law a $750,000 challenge grant to expand and renovate its facilities. The School broke ground on the Frederick M. Hart Addition in April.
- Dean Robert Desiderio, with two law students, James LaFata and Maria Martinez-Siemel, wrote the background report for a town hall meeting on taxation in New Mexico, sponsored by New Mexico First.
- Former Governor Bruce King will donate his personal and political papers to the School's Library. They will be displayed in a newly renovated room bearing his name.

Medicine

- For the seventh consecutive year, the Rural Medicine program has been ranked as one of the top two in the nation by U.S. News and World Report.
- The School of Medicine celebrated its 40th anniversary in February, along with nearly 500 guests.
- The School will construct a state-of-the-art neuroimaging facility for brain research with a five-year, $9.6 million Institutional Development Award from the National Institutes of Health.

Nursing

- In order to meet an acute shortage, nursing education programs are being expanded with the allocation of $950,000 from the New Mexico Legislature. With these funds, CON will hire new faculty, have year-round classes and expand student capacity by about 30%.
- CON has launched two technology-based educational options designed to help advance educational and career opportunities for nurses. These internet courses are the first complete degrees available online from UNM.

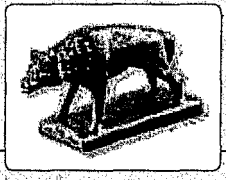
Pharmacy

- The New Mexico Poison and Drug Information Center was re-accredited as a regional poison center and handled 37,700 calls from New Mexicans in 2000.
- The first students enrolled in the College's web-based nuclear pharmacy education program, called Nuclear Education Online (NEO).
- Ninety students received Pharm.D. degrees. Thirteen of them completed their degrees through the College's non-traditional Pharm.D. program.

University College

- Four Freshman Learning Communities started in Fall 2000 to help raise retention rates for entering freshmen. The learning communities are linked courses that offer small classes and a cohort structure.
- A new division of undergraduate studies led by student advisors, the Student Success Center, assists students with most types of questions related to their academic experience.
- The new Center for the Advancement of Scholarship in Teaching and Learning serves as the central site for information on teaching-related projects and programs.

"UNM dramatically expanded its role in the local community and throughout the state."



Staff

Outstanding Staff Awards
The 2000 Gerald May Staff Recognition Awards, given for distinguished service and dedication to UNM, and the highest honor presented to UNM staff employees, went to five individuals picked from a field of more than 80 nominees. Winners were Administrative Assistant Frances Duran, Senior Student Advisor Andrew Gonzalez, Program Assistant Lisa McHale, Food Service Site Operator Genevieve Padilla and Remodeling Supervisor Jerry Pilkinton.

Staff Graduates
42 UNM staff members, including 18 Masters and three Ph.Ds, participated in the Staff as Students Graduation ceremony. Now in its fourth year, the Staff as Students program encourages UNM staff members to work on degree programs at the University. Nearly 250 staff members attended the two informational sessions held during the year.

The Staff as Students Managers award goes to the person, nominated by his or her staff, who encourages support and participation in the SAS program. Gowthami Arepally, M.D., from the Cancer Research and Treatment Center, received the SAS Managers award in May.

Service Awards
More than 900 faculty and staff were honored for their service to the University in May. Five-year service pins went to 383 people, 10-year pins went to 248 people, and 15-year awards were given to 141 people, with 20-year awards going to 79 people and 25-year awards going to 47 people.

Twenty UNM faculty and staff were honored for 30 years of service to the University: Karen Abraham, Alumni Relations; Jonathan Abrams, Internal Medicine; Julie Anne Bustamante, Arts and Sciences; Ignacio Cordova, Academic Affairs; Donald W. Duszynski, Biology; James Ellison, Mathematics and Statistics; F. Chris Garcia, Political Science; Mary Ellen Hanson, General Library; Joe Humphreys, General Library; William Macpherson, Law; Sandra Medina, Safety, Health and Environmental Affairs; S. Scott Obenshain, School of Medicine; Margaret Ortiz, Printing Services; Sharon Pecha, Center for Development and Disability; Jonathan Porter, History; Samuel Roll, Psychology; Mary Margaret Smith, Education; Jake Spidle, History; James Srubek, Education; Alexander Stone, Mathematics and Statistics.

Three staff members were honored for 35 years of service: Elliott Bailey, Physics and Astronomy; Thomas Escobedo, ATR Institute; and Gladis Maresma, Office of International Technical Cooperation.

Branch Campuses and Extended University

Extended University

- Extended University received a National Science Foundation grant with the New Mexico Northern Network to enhance math and science education efforts in 23 state school districts with professional development coursework and technology-integration activities.
- About 6,000 students enrolled in web-enhanced courses offered through the New Media and Extended Learning Group.

UNM-Gallup

- Branch enrollments at Gallup and Farmington have an 80% retention rate and consistently involve more than 50% Native American students. These students graduate ready to work in elementary education classrooms in rural areas.
- With the Anderson Schools of Management and Continuing Education, the campus started offering a BBA completion program that allows students to complete an accredited undergraduate business degree.

UNM Gallup

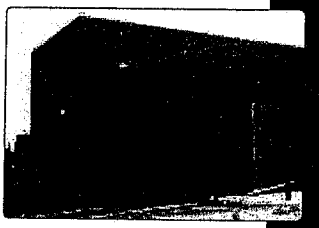
UNM-Los Alamos

- The new Student Services Building was officially dedicated in November 2000, though it had been open since July and hosted UNM-LA's first on-campus graduation ceremony.
- During the 2000-2001 academic year, UNM-Los Alamos introduced four new program offerings: Associates of Applied Science in Web Technologies, Technical Support and Hospitality Administration and Management, and an Associate of Arts in Early Childhood Multicultural Education. UNM-LA also offers certificates in each of these programs.

UNM Valencia

Taos Education Center

- Fall and spring semester enrollments at the Taos Education Center exceeded 1,000 students for the third consecutive year. Full-time student enrollment increased 24.8% over the same period, making this the fastest growing institution of higher education in the state.
- New program initiatives included career paths in allied health fields, developed in conjunction with area high schools and Holy Cross Hospital in Taos.



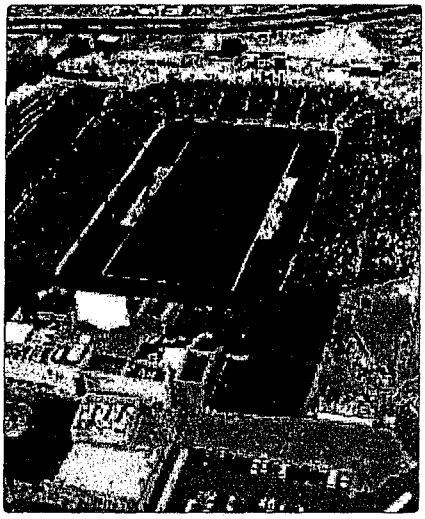
UNM Las Alamos

UNM Valencia

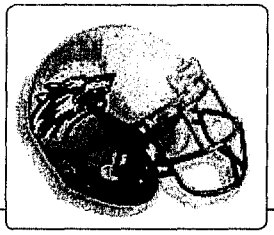
- UNM-Valencia's first Fitness and Wellness Education Center opened in the Fall of 2000 and was serving more than 500 students by Spring of 2000.
- Now serving more than 30 children each week, the college's first Childcare Center opened in the Spring of 2001, with the support of a $64,000 grant from NM Children, Youth and Families.
- The Su Parte Welfare Reform program, led by Program Manager Kevin Begley, placed 345 welfare clients in jobs in the community.

Athletics

Academic Arena
UNM's student-athletes compiled a school-record 2.91 grade-point-average in the Fall and Spring semester of 2000, the highest in school history. It is the ninth consecutive semester that UNM's intercollegiate sports have combined for a 2.80 GPA or higher.



Lobo football was 5-7 on the season, including 3-4 in the Mountain West. The Lobos finished fifth in league play after being chosen eighth in the preseason by the conference coaches. UNM faced six bowl teams in the 2000 season, including Fiesta Bowl champ Oregon State. The Lobo defense allowed 309.4 yards per game, the lowest total in 18 years.



Basketball Success
Men's basketball finished 21-13 overall and advanced to the finals of the Mountain West Conference Tournament for the fourth time in the past six seasons. The Lobos advanced to the quarterfinals of the NIT, beating Baylor and Pepperdine, before losing at Memphis. UNM became one of just eight teams to win a postseason game in each of the last six seasons. Women's basketball went 22-13 overall and advanced to the championship game of the Women's National Invitation Tournament for the first time in school history. The Lobos fell to Ohio State 62-61, in the championship game before a sold-out - 18,018 fans - University Arena.

Super Swings
Women's golf won the Mountain West Conference Tournament for the second straight year and finished 21st at the NCAA Championships. Jackie Booth was named MWC and LPGA Central Region Coach of the Year.

Up to Speed
The UNM men's track team placed fourth at the Mountain West Conference Championships, its best finish in 10 years. Freshman Ben Ortega captured the 10,000 meters at the Championships with a meet record time of 30:02.00. Sophomore Arline Harris won the 200 and 400 meters at the MWC while Monique Harris won her second straight MWC triple jump title with a meet-record leap of 41-7.

Alumni

- The Alumni Association honored Dennis Jett with the Zimmerman Award, Karen Glaser with the Rodey Award, Archie Westfall with the Fergusson Award and Mary Bess Whidden with the Faculty Teaching Award.

- The "Lobo Adventure" homecoming featured a record 17 reunions as well as a student parade, Southwest Fiesta and numerous other events. The Zia Awards were presented at the All-University Breakfast to Jose Abeyta, Jackie Baca, Maria Griego-Raby, Art Melendres, Tom Ryan and Lou Weller.

- Alumni Relations, along with Student Recruitment, coordinated nine UNM Star Scholar programs honoring the top 10 percent of high school juniors statewide and hosted LobOrientation picnics for all incoming freshmen.

- More than 722 alumni registered as mentors for the Career Network Program.

- Lobos for Legislation played an integral role in promoting the passage of the statewide General Obligation Bond for Education. The group also hosted neighborhood receptions for area constituents and their elected representatives and the Legislative Appreciation Reception in Santa Fe.

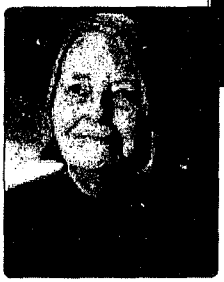
- The University honored 62 members of the Class of 1951 during Commencement activities.

- Alumni Relations supported 22 active chapters nationwide with speakers, green chile roasts, tailgate gatherings and other activities.

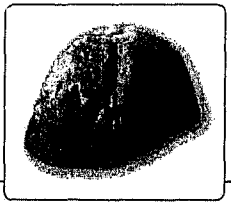
Dennis Jett

Karen Glaser

Archie Westfall

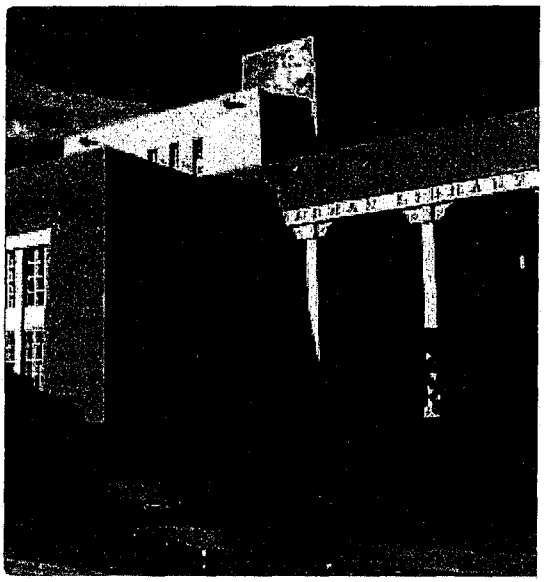


Mary Bess Whidden



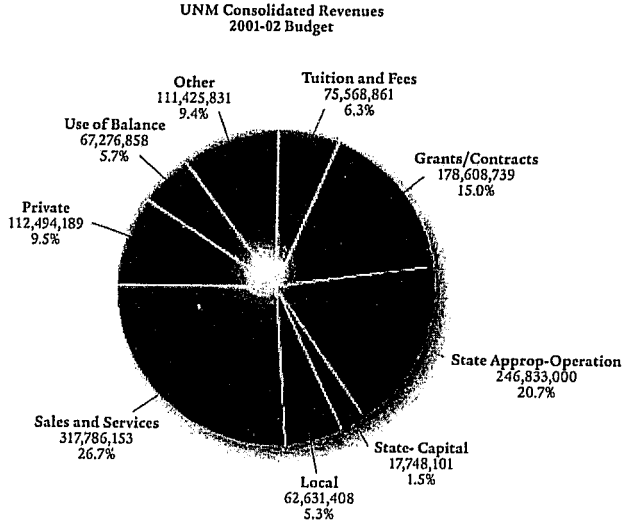
Friends and Philanthropy

- In fiscal year 2000 – 2001, $35.3 million in private support came to the UNM Foundation Inc. through the efforts of the UNM Development Office and college development officers.
- The $7.8 million received in gifts for either new or existing endowment funds is the largest single year amount in new endowments. The $3.67 million in gifts from 28 bequests included gifts of $500,000 from the Estate of Sadie Lane for science scholarships for women; $217,000 from the Estate of Margaret Erickson for KNME-TV classical programming; and $200,000 from the Carl Feak Estate for scholarships at both the Anderson Schools of Management and the College of Nursing.
- The UNM Foundation also received several large collections of books and letters, including the southwestern book and manuscript collection of well-known New Mexican attorney, the late William A. Keleher, for the Zimmerman Library and the letters and political papers of former New Mexico Governor Bruce King that will be housed in the School of Law Library.
- An annual giving society – the President's Club – was established to encourage unrestricted giving over and above the donor's current giving to UNM with gifts earmarked for the President's Fund for Academic Excellence. The Club numbered 30 charter members by the close of the fiscal year.
- The New Horizons Society, which acknowledges donors intending planned gifts to UNM, has grown to several hundred self-identified donors.
- The Foundation Presidential Scholarship Program funded 452 Presidential Scholars on campus with 43 endowed scholarship accounts providing 125 endowed scholarships. Nineteen former Scholarship recipients are now fully sponsoring PSPs of their own.

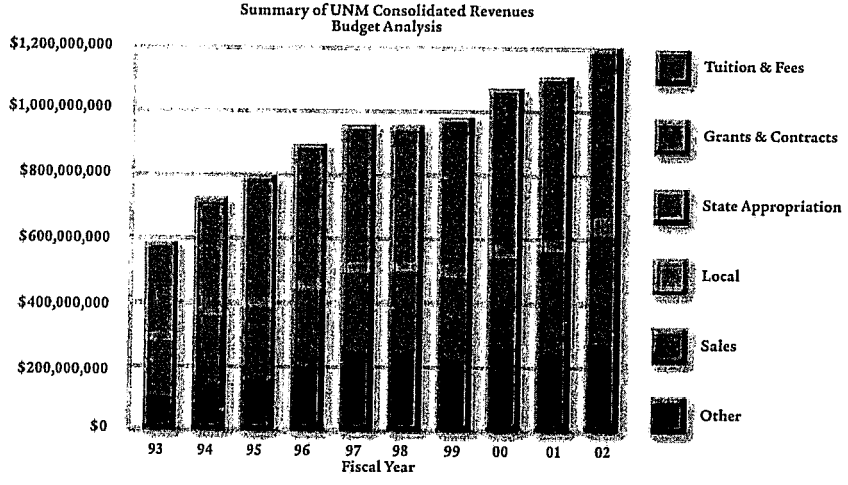


"...as UNM took on a more visible role in supporting the state's citizens, the support for UNM was returned in kind."

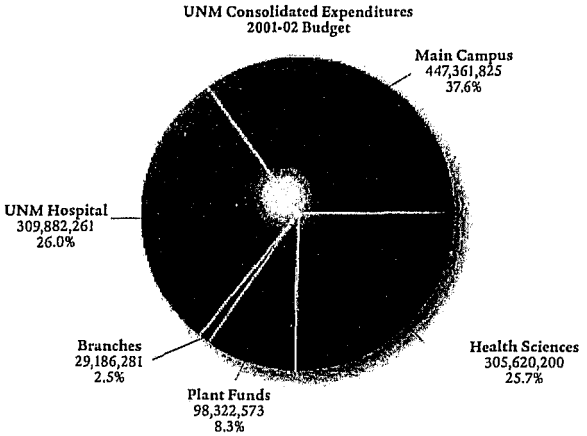
Financials



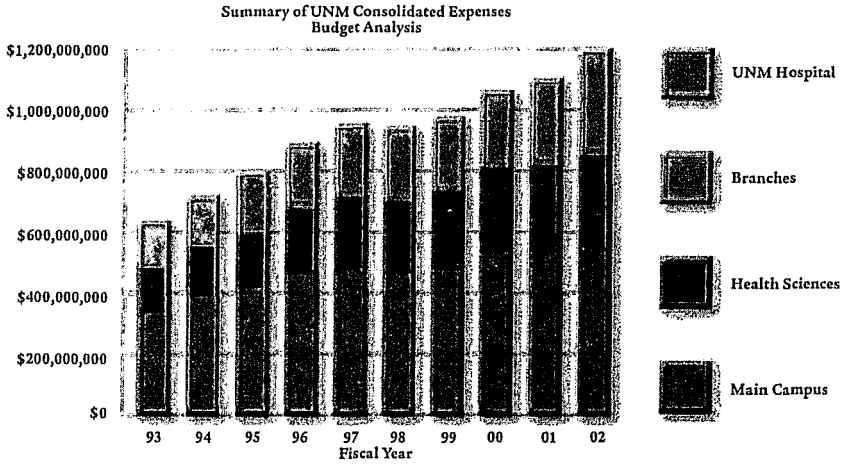
Total Revenues $1,190,373,140
An increase of 8.1% over 2000-2001



Financials cont.



Total Expenditures $1,190,373,140
An increase of 8.1% over 2000-2001



Contacting UNM:

Take a closer look:
The University of New Mexico at www.unm.edu

UNM Information

Admissions	(505) 277-2446
Alumni	(505) 277-5808
Athletics	(505) 925-5014
Financial Aid	(505) 277-2041
Housing	(505) 277-2606
Lobo Orientation	(505) 277-7823
Office for Advancement	(505) 277-1586
Public Affairs	(505) 277-5813
Recruitment Services	(505) 277-2260
Registration	(505) 277-2916
Scholarships	(505) 277-6090
University Secretary	(505) 277-4664
UNM Foundation	(505) 277-4503

Schools and Colleges

Anderson Schools of Management	(505) 277-6471
School of Architecture and Planning	(505) 277-2903
College of Arts and Sciences	(505) 277-3046
Division of Continuing Education	(505) 277-2527
College of Education	(505) 277-2231
School of Engineering	(505) 277-5521
College of Fine Arts	(505) 277-2111
General Library	(505) 277-4241
Graduate Studies	(505) 277-2711
Health Sciences Center	(505) 272-3322
School of Law	(505) 277-2146
School of Medicine	(505) 272-2321
College of Nursing	(505) 272-4221
College of Pharmacy	(505) 272-3241
School of Public Administration	(505) 277-3312
Undergraduate Studies	(505) 277-2631

UNM Branches

Gallup Campus	(505) 863-7500
Los Alamos Campus	(505) 277-8428
Santa Fe Graduate Programs	(505) 428-1234
Taos Education Center	(505) 758-7667
Valencia Campus	(505) 925-8500

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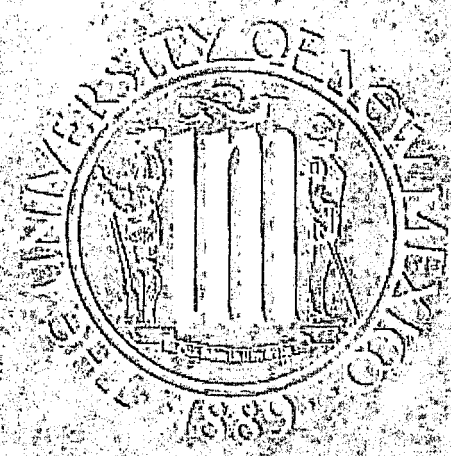

The University of New Mexico

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The Robert O. Anderson School and Graduate School of Management at The University of New Mexico

Period of Report: July 1, 2000 to June 30, 2001

Submitted by Howard L. Smith, Dean

The Anderson Schools of Management is divided into four distinct divisions – the Department of Accounting; the Department of Finance, International and Technology Management; the Department of Marketing, Information and Decision Sciences; and the Department of Organizational Studies. This structure provides an opportunity for The Anderson Schools to develop four distinct areas of excellence, proven by results reported here.

I. Significant Developments During the Academic Year

The Anderson Schools of Management

- The Schools revised its mission statement: *"The mission of The Anderson Schools of Management is to provide excellence in professional management education through scholarship that reflects developments in academic theory and professional practice. Our research, teaching, and service focus on improving New Mexican and professional communities. Our commitments include: Promote, recognize, and reward faculty scholarship; Support diverse research topics and methods; Promote, recognize, and reward faculty teaching; Prepare students to succeed in challenging global work environments and advanced academic study through collaborative student-faculty interaction and innovative pedagogy; Provide sound functional and cross-disciplinary education in both undergraduate and graduate programs; Maintain AACSB accreditation; Support service to professional, academic, and New Mexico businesses and organizations; and Support diversity of faculty, staff, and students."*
- The MBA Program was named one of the Top 10 Business Programs in the nation for Hispanic students by *Hispanic Business* magazine.
- Public Service Company of New Mexico, in association with the UNM Foundation, The Anderson Schools, and the School of Engineering. developed the agreement for a Chair in Microsystems, Technology and Commercialization. This significant gift designation will allow the Management of Technology Program to recruit a national leader in the field of Microsystems to this market for the Fall 2002.
- Beginning in January 2001. an agreement forged between UNM-Gallup, UNM Continuing Education and The Anderson Schools provides a BBA completion in Gallup, making an accredited business degree available for the first time in western New Mexico.
- The average starting salary for an Anderson BBA graduate is $38,541 and the average starting salary for an Anderson MBA graduate is $54,176 – both well above state averages and competitive with the starting salaries of business graduates nationwide.
- The Small Business Institute, serving more than 50 small business clients annually with student consulting teams, was designated a Top 10 college or university-based Small Business Institute in terms of clients served.
- The Management Development Center expanded its noncredit certificate programs to include "Leading and Coaching" and "Quality Management."
- More than 40% of students in the MBA Program are women, beating national averages by 10%; and more than 33% of the faculty are women, beating national averages by 20%.

- The Schools developed its most comprehensive alumni and friends communication tool through an interactive website found at www.mgt.unm.edu/do; the site includes an online magazine, accessible at www.mgt.unm.edu/ezine.
- The Schools innovated the Up-and-Comers Awards, a statewide recognition program for 40 outstanding leaders in professions and communities under the age of 40; the program included an on-campus lecture day in which a dozen of the honorees served as guest lecturers in classes campus-wide.
- The faculty, staff and students of The Schools continued to be involved in the Samaritan Counseling Center's Ethics in Business Awards; all nominee packages were developed by student teams from The Anderson Schools.
- The Schools increased its regional media presence by more than 60%.
- Faculty and staff of The Schools continued to serve in leadership capacities with the Next Generation Economy Initiative.
- The Schools continue to generate more credit hours per faculty member than any other division of the UNM community.

The Accounting Department

Nothing to report.

The Department of Finance, International and Technology Management

- Sulieman Kassicieh received the Foundation Board's Faculty Community Leadership award, presented at the 2001 Hall of Fame dinner.
- Raul de Gouvea represented The Schools on the Central New Mexico Trade Partnership Committee, organizing a New Mexico High Tech trade mission to Latin America.
- Gautam Vora was invited to the University of Paris IX, Dauphine in Summer 2000, where he interviewed students for ASM's exchange program and gave talks on The School's BBA and MBA programs.
- Suleiman Kassicieh and Steve Walsh served as the Program Chairs for 2000 Engineering Management Conference – IEEE; the pair also Chaired the MEMS Conference in Santa Fe, September 2000.

The Department of Marketing, Information and Decision Sciences

Nothing to report.

The Department of Organizational Studies

- The faculty strengthened the OB/HRM and Policy & Planning concentration curriculums to include new classes, including American Indian Business and Management, Washington Campus Program, Industrial Organization Economics, and Public Control of Business.
- Housing the international journal, *Business & Society*, with Professor Jeanne Logsdon as Editor.
- Students from MGT 413 Travel & Tourism II completed tourism marketing plans for El Pinto Restaurant, Route 66 Hostel, and the Peacecraft Fair Trade Store.
- The American Indian Business Association (AIBA) recruited new students from Native feeder schools and raised $25,000 to support their activities.
- The student chapter of the Society for Human Resource Management received a National Merit Award.
- Helen J. Muller was a finalist for the *Journal of Management Education* 2000 Best Paper of the Year award for her article, "It Takes a Community to Create an American Indian Business & Management Course" (April, 2000).
- John Young was appointed to the Board of Directors of the New Mexico Small Business Investment Corporation by Governor Gary Johnson.
- Eddie Dry coordinated the 10th UNM Universidad de Guanajuato (UG) Mexico Student Exchange.

II. Significant Plans and Recommendations for the Near Future

The Anderson Schools of Management

- Completion of the strategic planning process for The Schools, utilizing the input and resources of faculty, staff, and students, alongside the Foundation Board and National Advisory Board.
- The Schools will continue to focus on community outreach, particularly in the area of economic development.
- The Schools will coordinate strategic planning and priority-setting efforts within the initiatives identified through the strategic planning process of The University.
- Consideration will be given to re-establishing a PhD program at The Schools.

Departmentally, The Schools will also be reviewing goals and objectives to make them reflective of future needs. Adaptations will be made to reflect the priorities identified in the strategic planning processes of The Schools and The University.

III. Appointments to Faculty/Staff

The Anderson Schools of Management

- **Clint Pyeatt** joined the staff of the Management Development Center in the position of training coordinator, effective April 30, 2001; **Mary Melville** joined the MDC as program coordinator February 9, 2001.
- **Dominic Bernardi** was named senior program manager for the Western States School of Banking on April 9, 2001.
- In the Ford Career Planning and Center, **Terri Nunnery** joined as a placement coordinator on February 25, 2001, **Kristen Duke** joined as office assistant on April 23, 2001.
- **Sandy Folley**, also of the Career Planning and Placement Center, completed UNM's Career Ladder Program and received a position upgrade to Administrative Assistant II.
- **Kenneth Baker** was named Assistant Dean for 2000-2001.

The Accounting Department

- **Alistair Preston** assumed duties as chair of the department July 1, 2000.

The Department of Finance, International and Technology Management

- **Kaye Summerhays** was hired as administrative assistant in January 2001.

The Department of Marketing, Information and Decision Sciences

- **David Harris** and **Carlos Ulibarri** joined the faculty for 2000-2001 as Visiting Lecturers.
- **Alex Seazzu** joined the faculty in August 2000 as a Lecturer.
- **Mary Margaret Weber** joined the faculty in August 2000 as an Assistant Professor.

The Department of Organizational Studies

- **Jaye Francis** was appointed to the position of Administrative Assistant III in January 2001.
- **Rossana Alvarez-Diemer** and **John Luhman** were appointed Visiting Assistant Professorsfor 2000-2001.
- **Renee Gutierrez** was appointed to the position of Visiting Lecturer for 2000-2001.

IV. Separations of Faculty/Staff

The Anderson Schools of Management

- In the Career Planning and Placement Center, **Rachel Garrett** resigned from her post as placement coordinator on January 31, 2001; and **Jason Smith** left his post of office assistant on March 19, 2001.
- In the Management Development Center, **Lenka Tuckova** departed as the EMBA program coordinator in December 2000, and **Jennifer Baca** left her post as training coordinator in March 2001.

The Accounting Department

- **James Hamill** was on sabbatical leave for the academic year.

The Department of Finance, International and Technology Management

- **Jackie Teel** resigned as administrative assistant in November 2000.

The Department of Marketing, Information and Decision Sciences

- **Avraham Shama** was on sabbatical for Fall 2000.
- **H. Ravinder** was on leave without pay for 1999-2000; Professor Ravinder has also resigned at the end of the 2000-2001 academic year.

The Department of Organizational Studies

- **Crystal Rose**, Administrative Assistant III, resigned November 2000.
- **Anne Smith**, Assistant Professor, resigned to take a position at the University of Tennessee, Knoxville, June 2001.

V. Faculty Publications

The Anderson Schools of Management

All are reported in academic departments.

The Accounting Department

Philip Bougen

- "Organizational Crime, Auditors and Liberal Government." *International Journal of Sociology and the Law*, 28, 2000, p. 69-982.
- "Organizing and Regulating as Rhizomatic Lines: Bank Fraud and Auditing" (with J. Young). Organization, 7 (3), 2000, p. 403-426.
- Book Review of Henry Rand Hatfield by S.A. Zeff: in *British Accounting Review*, 33(1), p. 107-109.

James R. Hamill

- "Rev. Proc. 2000-37 Offers Long-Awaited Reverse Exchange Safe Harbor." *The Tax Adviser*, March 2001, p. 190-200.
- "When Checking the Box Can Lead to Corporate Tax Savings," (with Craig White). *TAXES – The Tax Magazine*, February 2001, p. 36-43.
- "CRT Investment Diversification and Risk-Taking Strategies," (with Jennifer Hall and Craig White). *The Tax Adviser*, January 2001, p. 38-47.
- "Full House of Section 1031 Exceptions Beat Two of a (Like) Kind." *Practical Tax Strategies*, September 2000, p. 132-140. Reprinted in *Tax Ideas*, 10/18/2000, 203.1 to 203.6.
- "Intrafamily Installment Sales of Nonqualified Stock Options," (with Roger Lusby III). *The Tax Adviser*, July 2000, p. 494-503.
- Book Review of Standards of Tax Practice in *Journal of the American Taxation Association*, Fall 2000, p. 108-110.

Tom Mouck

- "The Irony of 'the Golden Age' of Accounting Methodology." Chapter 13 in Volume I of *The History of Accounting: Critical Perspectives on Businesses and Management.*

Dennis F. Togo

- "Role Playing and Cooperative Learning in the AIS Course" (with Yuthas). *The Review of Business Information Systems*, Vol. 5, No. 2, Spring 2001, p. 63-69.
- "Impact of Overhead Cost Allocations on Management Behavior at National Laboratories" (with Crooks). *Proceedings of the 2001 Annual Meeting of the Institute of Nuclear Materials Management.*

Melissa Walters York

- "Theoretical Reflections on the Use of Students as Surrogate Subjects in Behavioral Experimentation" (with Anthony P. Curatola). *Advances in Accounting Behavioral Research*, 3, 2000, p. 243-263.

Craig T. White

- "The Taxation of Married Couples: An Issue Life Cycle Approach" (with Virginia Gerde). *Business & Society*, March 2001, p. 31-58.
- "CRT Investment Diversification and Risk-Taking Strategies" (with J. Hall and J. Hamill). *The Tax Adviser*, 2001.
- "When Checking the Box Can Lead to Corporate Tax Savings" (with J. Hamill). *TAXES – The Tax Magazine*, February 2001, p. 7-15.
- "Congress' Goal of Increasing Electronic Filing: An Assessment Based on the Technology Adoption Literature" (with S. Walsh). *Accounting Horizons*, December 2000, p. 403-425.
- "Taxpayers May Want to be on the Look Out for Interactions Between Section 1202 and Other Provisions." *The Tax Adviser*, Tax Clinic Section, December 2000, p. 846.

Joni J. Young

- "Organizing and Regulating as Rhizomatic Lines: Bank Fraud and Auditing" (with Phil Bougen). *Organizations*, 2000, p. 403-406.
- "Constructing the Global Corporation and Corporate Constructions of the Global" (with Alistair Preston). *Accounting, Organizations and Society*, 2000, p. 427-449.

The Department of Finance, International and Technology Management

Raul de Gouvea

- "Measuring Trade Exposure" (with S. Kassicieh and J. Hranaiova). *Revista de Administracao*, 2001.
- "E-Learning" (with S. Kassicieh). *Journal of Higher Education Policy and Management*, 2001.
- "Resources Advantage" (with S. Kassicieh). *Engineering Management Journal*, 2000.
- "Latin America.Com" (with S. Kassicieh). *Latin America Business Review*, 2000.
- "Brazil and Mexico: Partners in Sowing a Free trade Area of the America." *Thunderbird International Business Review*, 2001.

Sul Kassicieh

- "Strategic alliances as a source of early-stage seed capital in new technology-based firms" (with E. G. Carayannis and R. Radosevich). *Technovation*, Vol. 20, no. 11, 2000, p. 603-615.
- See above listings with de Gouvea.
- "A Model for Technology Assessment and Commercialization of Innovative Disruptive Technologies," (with Steven T. Walsh, Al Romig, John Cummings, Paul McWhorter, David Williams). In *Proceedings of the Engineering Management Society International Conference*, S. Kassicieh and S. Walsh, eds. August 2000, p. 341-344.
- "Commercialization of Innovative Disruptive Technologies: The Process of Discontinuous Innovations," (with Jill Hruby and Steven T. Walsh). In *Proceedings of the Engineering Management Society International Conference*, S. Kassicieh and S. Walsh, eds. August 2000, p. 335-340.

John Schatzberg

- "Advertising Agency Terminations and Reviews: Stock Returns and Firm Performance," (with G. Hozier). *Journal of Business Research*, November 2000, p. 169-176.

Steve Walsh

- "Congress' Goal of Electronic Increasing Electronic Filing: An Assessment Based on the Technology Adoption Literature" (with C. White). *Accounting Horizons*, Vol. 14, No. 4, December 2000.
- "Infrastructure for Emerging Markets Based on Discontinuous Innovations" (with J. Linton). *Engineering Management Journal*, Vol. 12, No. 2, 2000, p. 23 –31.
- "Entrepreneurship's Role in Commercialization of Disruptive Technologies" (with B. Kirchoff), (2000). p. 323-332, Band 13, Unternehmer und Unternehmensperspektive fur Klien-und Mittelunternehmen. Berlin/St. Gallen: Dunker & Humbolt.
- "MEMS, Microsystems, Micromachines: Commercializing An Emergent Disruptive Technology" (with J. Linton, R. Grace, S. Marshall, and J. Knutti). In *MEMS and MOEMS Technology and Applications*, P.Rai-Choudry, ed. SPIE – The International Society for Optical Engineering Development: Billingham, Washington, 2000, p. 479 –514.
- "Analysis, Ranking, and Selection of R&D Projects in a Portfolio" (with J. Linton and J. Morabito). *Proceedings of R&D Management Conference*, July 2000.
- "Strategies as Predictors of Success in New Technology Intensive Firms" (with B. Kirchhoff). ICSB Conference, 2000, ICSB121, p. 1- 17.

The Department of Marketing, Information and Decision Sciences

William I Bullers, Jr.

- "Advances in Management Staffing and the Financial Performance of Medical Groups" (with N. Piland and H. Smith). *Advances in Health Care Management, Vol. I*, J.D. Blair, M.D. Fottler, & G.T. Payne, eds. JAI, Amsterdam, 2000, p. 251-271.

Stephen D. Burd

- *Systems Analysis and Design in a Changing World* (with Satzinger and Jackson). Course Technology, Inc., 2000.
- "Web-Based Support of a Computer Programming Class." *Web-Based Learning and Teaching Technologies: Opportunities and Challenges*, A.K. Aggrawal, ed. Idea Group Publishing, 2000, p. 258-271.

George C. Hozier

- "Advertising Agency Terminations and Reviews: Stock Returns and Firm Performance" (with J. Schatzberg). *Journal of Business Research*, Vol. 49, No. 2, Oct. 2000, p. 169-176.

H. Ravinder

- "Decision Making in Standby Service Systems" (with C. Schultz). *Decision Sciences*, Vol. 31, No. 3, Summer 2000, p. 573-593.

Richard A. Reid

- "Operations Management Audit: Service Customer Assessment Technique for Managerially-Initiated Improvements" (with E.L. Koljonen). *Journal of Professional Services Marketing*, Vol. 21, No. 2, 2000, p. 125-148.
- "Co-Existence of Paradigms as a Manufacturing Management Strategy" (with E.L. Koljonen). *Proceedings of the Int'l Manufacturing Conference in China*, IMCC, Hong Kong, August 2000, p. 153-154.

Carl R. Schultz

- "Decision Making in Standby Service Systems" (with H. Ravinder). *Decision Sciences*, Vol. 31, No. 3, Summer 2000, p. 573-593.

Avraham Shama

- "For Dot.Coms, It's The Vision Thing." *Journal of Systems and Software*, December 2000.
- "Determinants of Entry Strategies of U.S. Companies to Russia, The Czech Republic, Hungary, Poland and Romania, and the Resulting Satisfaction with Economic Performance." *Thunderbird International Business Review*, Vol. 42, No. 6, November-December 2000, p. 651-676.
- "After the Meltdown: A Survey of International Companies Doing Business in Russia." *Business Horizons*, July-August 2000, p. 73-81.
- "Entry Strategies of U.S. Companies to Eastern Europe." *Proceedings, the VI ICCEES World Congress*, Institute for Russian and East European Studies, Tampere, Finland, August 2000.

Steven A. Yourstone

- "Managed Care and Medical Practice Guidelines" (with H. Smith, D. Lorber and B. Mann). *Advances in Health Care Management*, Vol. 1, p. 251-272.

The Department of Organizational Studies

Joseph Champoux

- *Organizational Behavior: Using Film to Visualize Principles and Practices*. Cincinnati, Ohio: South-Western College Publishing, 2001.
- *Management: Using Film to Visualize Principles and Practices*. Cincinnati, Ohio: South-Western College Publishing, 2001.

- *Instructor's Teaching Resources, Management/Organizational Behavior: Using Film to Visualize Principles and Practices.* Cincinnati, Ohio: South-Western College Publishing, 2001.
- *WebTutor™ for Organizational Behavior: Essential Tenets for A New Millennium.* Cincinnati, Ohio: South-Western College Publishing, 2001.
- "Leadership and Self-Renewing Organizations." In *The Nonprofit Management Handbook*, 3rd Edition, T.D. Connors, ed. New York: John Wiley & Sons, Inc., 2001.
- "Management Context of Not-for-Profit Organizations in the New Millennium: Diversity, Quality, Technology, Global Environment, and Ethics." In *The Nonprofit Management Handbook*, 3rd Edition, T.D. Connors, ed. New York: John Wiley & Sons, Inc., 2001.
- "Animated Films As a Teaching Resource." *Journal of Management Education*, 2001, 15, p. 78-99.
- "An Analysis of British Film Remakes: A View from Great Britain and the United States" (with Tamar Jeffers, University of Warwick; Abstract only). *Proceedings of the British Academy of Management*, September 12-15, 2000, The University of Edinburgh, Edinburgh, Scotland.

Jan B. Corzine

- "Behavioral Interviewing: An Examination of the Recent Literature." *Proceedings of the 7th Annual International Conference on Advances in Management.* Colorado Springs, Colorado, July 2000, 84.

Virginia Gerde

- "The Taxation of Married Couples: An Issue Life Cycle Approach" (with C.G. White). *Business & Society.* March 2001, 40(1), p. 31-58.
- "Auditor Independence, Accounting Firms and the Securities and Exchange Commission: Application of the Issue Life Cycle Model" (with C.G. White). *Proceedings of the International Association for Business and Society*, 11th Annual Meeting in Sedona, Arizona, March 2001.
- "Social Issues in the Drug Pricing Controversy." *Proceedings of the International Association for Business and Society*, 11th Annual Meeting in Sedona, Arizona, March 2001.

Jacqueline Hood

- "Staffing Plans in State Transportation Agencies" (with T. Alarid & D. Albright). *Transportation Research Record*, National Research Council, Washington, D.C., Paper No. 00-143, 2000, p. 12-20.

Jeanne Logsdon

- "Mexico's Environmental Performance under NAFTA: The First Five Years" (with Bryan Husted). *The Journal of Environment & Development*, 9(4), December 2000, p. 370-383.
- "Qualitative Research Traditions in the Business and Society Field: Past Perspectives and Future Directions" (with Virginia W. Gerde). In *Proceedings of the Eleventh Annual Meeting of the International Association for Business & Society*, K. Getz and D. Windsor, eds. Essex Junction, VT, p. 302-307.

Helen J. Muller

- "A Gender and Communication Exercise." In *Understanding Diversity: Exercises & Cases,* 2nd ed., C. Harvey and J. Allard, eds. New York: HarperCollins, 2001, p. 253-254.
- "Survival and Change at the San Juan Pueblo Agricultural Cooperative" (with T. Bitsie). In *Understanding Diversity: Exercises & Cases*, 2nd ed., C. Harvey and J. Allard, eds. New York: HarperCollins, 2001, p. 195-201.
- "Instructors' Notes for Survival & Change at the San Juan Pueblo Agricultural Cooperative case study" (with T. Bitsie). In *Instructor's Manual for Understanding Diversity: Exercises & Cases,* 2nd ed., C. Harvey and J. Allard, eds. New York: HarperCollins, 2001.
- "American Indian Enterprises and Social Responsibility: Dependence to Self-Governance." *Proceedings of the International Association for Business and Society*, 11th Annual Meeting in Sedona, Arizona, March 2001.
- "Mexican, Japanese, & U.S. Women at Work: Rethinking Power" (with A. Sumi). 4-page abstract published in *Proceedings of the International Gender, Work, and Organization Conference*, Keele University, Keele, England, June 2001.

Allen Parkman

- *Good Intentions Gone Awry: No-Fault Divorce and the American Family.* Lanham, MD: Roman & Littlefield, 2000.
- "Why Child Support Assurance Won't Work." In Child Support: The Next Frontier, J. Oldham, J. Thomas and M.S. Melli, eds. Ann Arbor, MI: University of Michigan Press, 2000, p. 190-208.
- " Reforming Divorce Reform." *Santa Clara Law Review*, 41(2), 2001, p. 379-435.

James Porter

- "Big Box Ecology or What Could Be Better Than Lots of Stuff Cheap." *New Perspectives*, Spring, 2001, p. 8-9.

Paula Silva

- "Understanding Evaluations at the Top: CEO Influence and the Anonymity of the CEO Evaluation" (with H.L. Tosi). *Institute of Behavioral & Applied Management Proceedings*, San Diego, CA, November 2000, p. 134-140.

Anne Smith

- "Top Management Team Heterogeneity: Personality, Power, and Proxies" (with Patricia Pitcher). *Organization Science*, January-February, 2001, p. 1-18.

John E. Young

- "An Assessment of Strategic Prevalence in Ancient China and Applications for Modern Entrepreneurial Strategy." *Proceedings 2nd Annual USASBE/SBIDA Joint National Conference*, February 7-10, 2001, Orlando, Florida.

VI. Outside Professional Activities of Faculty and Staff Members

The Anderson Schools of Management

Kate Livingston

- Provided leadership to the national association of Executive MBA programs.

Shawn Shepherd

- Regular contributing writer to *New Mexico Business Journal* and *New Mexico Business Weekly.*
- Named by Economic Development Department Secretary, John Garcia, to the Inc. 500 Conference committee.

The Accounting Department

Philip Bougen

- Ad hoc Reviewer: *Accounting Organizations and Society* and *Organization, Accounting in Emerging Economies.*

Michele Chwastiak

- Editorial Board for *Accounting Forum.*
- Ad hoc Reviewer: *Critical Perspectives on Accounting*; *Accounting, Auditing and Accountability Journal*; and *Accounting and the Public Interest.*
- Discussant for Public Interest Section Paper, American Accounting Association Annual Meeting, Philadelphia PA, August 2000.

James R. Hamill

- Course Development for AICPA; Accountants Education Group; BDO Seidman LLP; Ernst & Young LLP, and RSM McGladrey, Inc.
- Professional Teaching for Accounting & Consulting Group, LLP (Carlsbad, NM); AICPA National Tax Education; Arizona Federal Tax Institute Conference; Atkinson & Company (Albuquerque, NM); BDO Seidman LLP; CPAmerica, Farmington Chapter; NMSCPAs; Illinois Society of CPAs; Indiana Tax Institute; Lorman Education Services; Meyners & Company (Albuquerque, NM); New Mexico Society of CPAs ; Oklahoma Society of CPAs; Potter & Company (Monroe, NC); Rogoff Erickson Diamond & Walker LLP (Albuquerque, NM); RSM McGladrey, Inc.; South Dakota Society of CPAs; Texas Society of CPAs CPE Expo; and Washington Society of CPAs.
- Editorial Board Membership - Harcourt Brace Professional Publishing, *Executive's Tax and Management Report.*
- New Mexico Society of CPAs: Board of Directors; Chair, Project Team to respond to the AICPA/NASBA Statement on Standards for Continuing Professional Education; Professional Development Leadership Section Member, 2000-2001.

Tom Mouck

- Ad hoc Reviewer: *AAAJ*; *Accounting Forum*; and *Critical Perspectives on Accounting.*
- Member Editorial Advisory Board for *Accounting, Auditing and Accountability Journal*; *Accounting Forum*; and *Alternative Perspectives on Finance and Accounting.*

Leslie S. Oakes

- Provided educational instruction for small businesses and not-for-profits in conjunction with the New Mexico Community Development Loan fund.
- Facilitated the TRIBEs summer bridge program for Native American students.
- Presented at the academy colloquial on Nike, Academy of Management Conference in Toronto, "Attestation: Nike and the Role of Auditing in Decentering the Subject."

Alistair M. Preston

- Editorial Board of *Accounting, Organizations and Society.*
- Ad hoc Reviewer for *Critical Perspectives in Accounting.*

Dennis F. Togo

- Member, Federation of Schools of Accountancy Curriculum Content Committee.
- Sandia Audit Intern Program Committee.

Melissa Walters-York

- Member of the Association of Commerce & Industry, Albuquerque, NM.
- Paper discussant for the Public Interest Section on Corporate Social Responsibility at the August 2000 American Accounting Association meeting in Philadelphia, PA.

Craig G. White

- "Disruptive Technologies and the Tax Law" presented at the 2000 IEEE Engineering Management Society Conference, August 2000.
- "Independence in the Accounting Profession: An Issue Life Cycle Approach to the Ethical Challenges" presented with Virginia Gerde at the *Seventh Annual International Conference Promoting Business Ethics,* September 2000.
- "Independence in the Accounting Profession: An Issue Life Cycle Approach to the Ethical Challenges" presented with Virginia Gerde at the *International Association for Business and Society* annual meeting, March 2001.
- Resident Faculty – AICPA/ University of Illinois National Tax Education Program, July 2000.
- "Cost Modeling of Microelectromechanical Systems (MEMS) Production" presented at the Commercialization of MicroSystems Conference, September 2000.
- "When Checking the Box Can Lead to Corporate Tax Savings" Presented at the 2000 Annual New Mexico Tax Conference, December 2000.
- "The Interaction of Small Firms' Incentive to Innovate with the Tax Rules Encouraging Research and Development Activities" presented at the March 2001 meeting of the *Internal Management Association.*
- Invited participant at the "Twenty-Sixth New Mexico First Town Hall: New Mexico Taxes Taking Another Look," May 2001.
- Elected Secretary of the Albuquerque Chapter of the New Mexico Society of CPAs.
- Treasurer of Easter Seals New Mexico.

Joni J. Young

- Co-organizer of 2001 Accounting Historian's Conference to be held in Santa Fe, NM.
- Member of editorial boards of *Accounting History* and *Accounting Historian's Journal.*
- Member of Congress Advisory Panel of 9th World Congress of Accounting Historians.
- Ad hoc Reviewer for: *Accounting History*; *Accounting Historian's Journal*; *Accounting, Organizations and Society*; *Critical Perspectives on Accounting*; *Accounting, Auditing and Accountability Journal*; and *Accounting and the Public Interest.*
- Discussant for the public interest section at August 2000 American Accounting Association, Philadelphia, PA.

The Department of Finance, International and Technology Management

Leslie Boni

- Presented her research and participated in the Nasdaq-Notre Dame Market Microstructure Conference in September 2000.
- Served as discussant and participated in the Financial Management Association Annual Conference in October 2000.

Raul de Gouvea

- "Latin America.Com." Academy of International Business Annual IB Meeting, Phoenix, November 2000.
- "Digital Education." Association for Global Business, Orlando, FL, November 2000.

John Schatzberg

- "Price Discovery and Side-by-Side Trading: An Examination of CBOT's US and ZB Interest Rate Futures," (with C. Ulibarri). Western Economic Association International Conference, Vancouver, July 2000.
- "Microcomputer Purchase Behavior in Multi-Computer Households," (with K Baker, G. Hozier, R. Rogers, and L Shatzberg). Western Decision Sciences, Maui, April 2000.

Steve Walsh

- Appeared in a nationally-televised PBS presentation in 2000 on a commercial example of Microsystems innovation maturation; PBS-produced in South Carolina.
- Appeared once on KUNM's "University Showcase" and appeared twice on High Tech New Mexico Radio on KOB 770.
- Dynamic Silicon, 2001. "The Promise of Microsystems."
- Technology Information, Forecasting, Assessment Council (TIFAC), 2001."Technology Commercialization in India."
- India's National Physical Laboratory NPL, 2001. " The Process of Technology Transfer."
- Sky –Web, 2001. "E-commerce and Commercialization Bottlenecks and Promise."
- Indian Institute of Management – Ahmedabad, 2001. "Management of Technology, Competence and Technology Classifications for Management Decision Making."
- The Department of Science and Technology in India, 2000. "The Clinical Process of Technology Transfer."
- The University of Calcutta – India, 2000. "Disruptive Technologies and Discontinuous Innovation."
- CSRL National lab "Microsystems 2010" in 2000. "Microsystems in a New Millennia."

The Department of Marketing, Information and Decision Sciences

Gerald Albaum

- "Sources of Competitive Advantage in Exporting" (with D. Tse). Annual Meeting of the Academy of International Business, Phoenix, AZ, November 2000.

Ranjit Bose

- "Design of a Web-Based Knowledge Management Environment." INFORMS Annual National Conference, San Antonio, TX, November 2000.
- External business community relationships via MGT461 & 538 projects.

Stephen D. Burd

- Conference reviewer & session chair at AMCIS 2000 mini-track.

George C. Hozier

- Editorial Board for the *Journal of Services Marketing.*

Richard A. Reid

- Editorial Board of *Environmental Quality Management.*
- Chair of Los Alamos National Laboratory's Business Operations External Advisory Committee.

Laurie Schatzberg

- Treasurer/Secretary & Information Director, ACM SIGMIS.
- Associate Editor for *Database.*

Carl R. Schultz

- Manuscript reviewer for *Management Science.*

Avraham Shama

- Journal reviewer for *Thunderbird International Business Review.*

Mary Margaret Weber

- Track Chair for Southwest Case Research Association.
- Editorial review board for *Industrial Marketing Management.*

The Department of Organizational Studies

Joseph Champoux

- Served as a visiting professor at the University of Paris, France, in Spring 2001.

Jan Corzine

- Presented a paper at the 7th Annual Conference on Advances in Management in Colorado Springs, CO.

Eddie Dry

- "Conversion Study for the 1999 Advertising Program," Old West Country N.M. Tourism Region #2 Conference, July 2000.

Virginia Gerde

- Invited participant at the Public Affairs, Issues Management, and Political Strategy Conference in Bangor, Maine in June 2001.

Jeanne Logsdon

- Named editor for *Business & Society.*
- Incoming Chair, Social Issues in Management division of the Academy of Management.

Paula Silva

- Presented a paper at the 8th annual Institute of behavior and Applied Management in San Diego, CA in November 2000.

VII. Outside Sponsored Research

The Anderson Schools of Management

The Ford Motor Company – a three-year grant provides for more than $100,000 annually to support faculty research, case study development and course development across all disciplines.

The Accounting Department

- **Leslie Oakes** was awarded a research grant from ATRI to study the Highway 44 project and the economic implications of the innovations in pavement warranties.
- **Craig White** received two research grants: Sandia National Laboratory for $15,000 to research implications of cost models for Microsystems; and $30,000 from Coventor, Inc. to fund student work on gathering further Microsystems cost and capability data.

The Department of Finance, International and Technology Management

- **Steve Walsh** and **Suleiman Kassicieh** were awarded over $100,000 to provide student support, and infrastructure for the International conference on the commercialization of Microsystems.

The Department of Marketing, Information and Decision Sciences

None to report.

The Department of Organizational Studies

- **Jacqueline Hood** received a research Grant from the Federal Highway Administration for "Professional development and training of highway employees in rural and culturally diverse settings." Research Consultant, 1999-2003; received grant of $300,000 over 4 years
- **Helen J. Muller** received a grant from Ford Motor company for case study on Ford (Mexico) Hermosillo Automobile Stamping and Assembly plant; $18,000 with Carl Schultz.
- **Anne Smith**, as a team member of SSHRC (Canadian granting agency for social science research), received research grant (C$92,000) on April 30, 2001for "Mobilizing and Mastering Diversity in Leadership Constellations: People, Process and Performance." May, 2001 – May, 2004.

School of Architecture and Planning
Community and Regional Planning Program
Annual Report: July 1, 2000 - June 30, 2001
Submitted by: David S. Henkel, Jr., Director

Following is a summary documentary of key developments and events in the School of Architecture and Planning from July 1, 2000 – June 30, 2001. The Report addresses faculty, research, professional activities, public events, outreach, student life and administrative changes.

Significant Events

Visiting International Scholars

Francisco Rosado May: Dr. Francisco Rosado May, director of the Integrated Coastal Resource Management Program at the University of Quintana Roo, was a visiting professor for the academic year. Aside from conducting research in and giving guest lectures for the School of Architecture and Planning, he taught a course on Ecotourism in the spring semester.

Dr. David Wood, Professor at Curtin University in West Australia, spent several weeks at the beginning of the spring semester as a visiting research professor. Dr. Wood was particularly interested in comparing historic preservation and outdoor recreation planning in the United States with similar experiences in Australia. He also had several sessions interviewing tribal governments and U.S. federal agencies in northern New Mexico.

Annual Orientation Event

The annual daylong new student orientation event was held at the end of the first week of classes in late August. A lunchtime discussion was also attended by planning professionals, continuing graduate students, faculty, and alumni.

Eagle Nest: Planning and Zoning Consultation

During the fall semester, Associate Professor and Program Director David Henkel responded to requests from the community of Eagle Nest, in Taos County by attending a joint meeting of the village council and the planning and zoning commission. The village was interested in updating its zoning ordinances in response to a recent annexation of property that is largely devoted to seasonal recreation.

Mesa del Sol Forum

The New Mexico State Land Office, in the process of designing the development of Mesa del Sol in the southeastern area of the Albuquerque Metropolitan region, asked the Dean of the School and the Director of the Community and Regional Planning Program to assist in developing a public forum to consider issues related to the project. Mesa del Sol is intended to integrate residential, commercial, industrial, educational, and recreational land uses to serve the region and generate

revenues for educational institutions. During the fall semester, the program worked closely with the Commissioner of State Lands to organize and moderate a panel of specialists in land-use and commercial development. The outcome was a lively discussion among the participants and with the audience ranging from compelling models of development from other parts of the country which have pioneered Green Industry to reflective comments about potential environmental impacts of the project.

Navajo Nation Housing Task Force
During the winter and early spring, the Program Director worked with staff members of the President's office of the Navajo Nation to develop a multi-university consultation in response to the housing needs of the Navajo people in New Mexico, Arizona, and Utah. The initial meeting included representatives from Arizona State University, University of Utah, Northern Arizona University, and the University of New Mexico.

Practitioners' Forum
The CRP Program inaugurated a brown bag lunchtime series of presentations by professional planners in the Albuquerque and Santa Fe region. The events are co-sponsored by the program's alumni association.

Resource Center for Raza Planning (RCRP)
The RCRP continued to broaden its role as a research center within the School. The center provided strong support to the evolving capacities of the Río Grande CDC as it developed increasing ability to support alternative economic development strategies in the South Valley. Students and faculty associated with the center also developed detailed policy language which was included in the Southwest Area Plan for the Albuquerque metropolitan area.

Sunland Park: Economic Development Consultation
Visiting Associate Professor Chris Calott and Associate Professor David Henkel visited the village of Sunland Park in the extreme southeastern corner of Doña Ana County - a community which had asked for assistance in designing aspects of the community plan which would highlight the potential for economic and recreational activity in the area.

Truth or Consequences: Public Participation
An alumna of the School requested assistance in designing a public participation element for urban growth management for the City of Truth or Consequences. David Henkel visited with a local committee to discuss ways to draw upon the experiences and views of local residents in that process, and discussion led to considerations for sustaining citizen interest.

Significant Developments

Bachelor of Arts in Environmental Design

The CRP program revised the Bachelors of Arts and Environmental Design (BAED) to reflect an environmental studies curriculum based upon a liberal arts college model. The degree will provide undergraduate exposure to CRP and to Landscape Architecture. It is expected that a number of graduates will proceed on to the School's graduate programs.

CRP Endowment

During the academic year 2000 - 2001, the Community and Regional Planning Program initiated an endowment that will eventually be able to supply funding in support of student scholarships and other aspects of program development.

Charna Statten Scholarship

A student scholarship fund was initiated in memory of Charna Statten, a planner in north central New Mexico. This fund is intended to support students whose roots are in New Mexico and whose career goals include serving our communities.

Sponsored Project - HUD

A team headed by Associate Professor Teresa Córdova was awarded a $400,000, two-year research grant by the US Department of Housing and Urban Development under its HSIAC (Hispanic Serving Institutions Assisting Communities) program. The grant will be used to help the Río Grande Community Development Corporation develop an economic development incubator in Albuquerque's South Valley.

Personnel and Program

Faculty:

Bill Fleming, a visiting professor since 1991, was hired as Associate Professor of Planning. His long career in hydrology and watershed planning will provide a strong complement to other faculty in the natural resources emphasis of the degree program.

Curriculum:

Curriculum Planning and Innovation: In anticipation of the upcoming Planning Accreditation Board's site visit in February of 2002, the program reviewed curriculum offerings and formalized several courses which had been taught on a provisional basis. These have been approved by UNM faculty Senate procedures and are included in the 2001-- 2003 university catalog.

New Course Development: Three new curricular developments are of note: 1)Assistant Professor Mark Child's urban design theory course has attracted an enthusiastic audience the last three years and will form a cornerstone of the

proposed *Certificate Program in Town Design.* His course on infrastructure design is a new offering designed to complement Associate Professor Paul Lusk's seminar on physical planning. 2)These three courses are key elements in the evolving physical planning emphasis of the program. 3)Faculty and students of the program have been exploring the possibility of a field course in the summer of 2002 to take place in the Yucatan Peninsula in collaboration with the University of Quintana Roo. The field course is designed for students pursuing the dual degree, in Planning and Latin American studies in the future.

Community Outreach in Classroom Settings:

- In the summer of 2000, Associate Professors Teresa Córdova and David Henkel offered a studio focused on economic strategies for Albuquerque's South Valley. Students worked with the Mountain View neighborhood association and Río Grande Community Development Corp. to respond to community interests in the role of open space and agricultural production as potential planning elements to preserve local community and culture in future years.

- During the fall semester of 2000, Associate Professors Bill Fleming and José Rivera offered an advanced regional planning studio in collaboration with the community of La Cienega and the county in Santa Fe. Building on the previous year's experience, the studio surveyed the local population and designed a model for the Transfer of Development Rights as it might be applied to the area as a growth management strategy.

- The introductory planning communications studio coordinated by Adjunct Associate Professor Min Kantrowitz addressed issues of community identity and resources in Algodones. Professor David Henkel's course in natural resources field methods clout in with the Galisteo Watershed Restoration Project to train students in rapid monitoring techniques for riparian and grassland health. The resulting analysis was presented to the community.

- During the spring semester, Associate Professor Bill Fleming's foundations seminar in natural resources worked in cooperation with the Manzano land grant communities to analyze local natural systems.

- The advanced urban planning studio, coordinated by Associate Professor Paul Lusk, brought planning, landscape planning, and architecture students together to examine possible agricultural applications for a site in the South Valley, with a full report to the community at semester's end.

- Professors Chris Wilson, Mark Childs, Teresa Córdova, and Alf Simon collaborated to combine the energies of students from all three programs in designing a potentially revitalized plaza in the village of Doña Ana just

north of Las Cruces. This work was accomplished using a modularized rather than an integrated studio approach, suggesting yet another model for cooperation between the three professions.

Student Life:

Student Organizations: Two student organizations were chartered by the Graduate Students Association of the University of New Mexico this year. PILA (Planners in Latin America) and RCRP helped to provide a vehicle for standard activities including a lecture series.

Student Lounge: The student lounge in the School's Cyber-Cafe continues to be a focal point for conversation, meals, and computer access for casual use.

Student Awards:

The recipient of the 1999 Stamm Graduate Travel Fellowship, Jerry Marmon, made a presentation in the fall about his tropical watershed management field course in Belize over the summer. Highlights included the maps and slides accompanying his commentary and a roundtable discussion with the audience, including the Fellowship's benefactor, Mr. Allan Stamm.

During the School's convocation in May, several students were recognized for their contributions to scholarship and the community. The NMAPA award went to Sarah Ijadi (infill property and affordable housing) and Kathy Begeal (community food security). The award for service to the community was given to Arturo Archuleta for his work with RCRP on the Southwest Area Plan and other projects. Curt Weitkunat was acknowledged for his service to the CRP program in preparation for the upcoming accreditation review. Susanne Kissmann received the award for outstanding research and scholarship for her work on participatory planning and environmental regulation in Quintana Roo. Bernadette Miera was honored with two awards: the Frontier Scholarship for the student best exemplifying ongoing commitment to the profession and the community, and the award for community building within the program.

Graduating Students: Nineteen students were awarded the Master of Community and Regional Planning degree at the spring graduation. This event included those who had graduated between the summer of 2000 and the spring of 2001. Of the 19 graduating students 17 are currently employed in planning occupations. The students are listed below:

Summer 2000	Fall 2000	Spring 2001
Robin Elkin	Robert Griego	David Correia
Neil Gray	Susanne Kissmann	Sarah Ijadi
Theodore Hodoba	Thomas Menicucci	Sheheli Jahan
Katherine Juul	Angela Robbins	Ingrid Kelley
LorettaNaranjo López		James O'Donnell II
Michelle Negrette		Janie O'Rourke
Chris Rothenberger		Kent Swanson
Kizito Wijenje		

Recruitment

Outreach and recruitment efforts in AY 2000-01 consisted of several elements, including contact with alumni/ae, high school outreach, market analysis, and attendance at academic fairs.

- During the spring semester, Program Assistant Steve Lucero coordinated a visit by high school students from the Albuquerque area to the CRP program: they met with the program director and faculty, attended an undergraduate planning class, and engaged in an information session with several alumni of the program. They were accompanied by one of the high school college/career counselors who also was able to learn about the CRP program for future reference.
- The second project was a review and analysis of the web pages of seven graduate planning programs that most resembled ours at UNM. This first stage of our marketing and recruitment plan was designed to evaluate the most common and most accessible marketing tool now used, the web page. The analysis was a profile of each of these programs according to several variables, including size of program, demographic characteristics of the student body, cost, program design, financial aid, relationship to professional organizations, faculty profiles, etc. The market analysis will continue in the Fall of 2001 with an assessment of current student body, to determine the reasons for their selection of this program. This information will help us to shape our next recruitment efforts.
- During AY 2000-01, Program Director David Henkel, attended seven academic recruitment fairs in New Mexico, four on campus (graduate fair, select a major fair, and two general recruitment fairs) and three elsewhere in the state (two in Gallup and one in Santa Fé.). Of the seven, four were specifically devoted to recruiting undergraduates to the BAED program.
- During the spring semester, the program director discussed off-campus offerings with Melissa Hilleary, Program Manager of the Extended University, with particular emphasis on developing offerings at the Santa Fé and Los Alamos campuses. The current discussions revolve around graduate level offerings, although it will be important to divine a way to encourage undergraduate offerings as well in order that non-Albuquerque based students can take planning courses.

Faculty Research and Professional Work:

Chris Calott, Visiting Assistant Professor
AIA Design Award for Trumbull Affordable Housing Competition.
Project Coordinator and Lead Urban Design Architect for Magnifica and the Historic District Improvement Company.

Mark Childs, Assistant Professor
Never Say Goodbye: The Albuquerque Rephotography Project With Anthony Anella. Albuquerque Museum.
"The Art of Parking" in *Architectural Design Portable Handbook* Pp. 231-238, McGraw-Hill, 2001.
"Civic Ecosystems," *The Journal of Urban Design* (February 2001) Honorable Mention: Albuquerque International Sunport Burm Art Competition Central Avenue Arts District Workshop (March)
"The Architectural Role of Public Art", Harwood Arts Center (April)

Teresa Córdova, Associate Professor
Principal Investigator, HSIAC grant (2000-2002) U.S. Department of Housing and Urban Development. ($400,000.)

Bill Fleming, Associate Professor
"Transfer of development rights as an option for land preservation in a historic New Mexico community." Fleming et al. *Natural Resources Journal.* (2001)
"Water conservation incentives for New Mexico." Natural Resources Journal.
"Watershed planning and monitoring by local student stakeholders." *Proceedings of the National Volunteer Monitoring Conference.*
Consultancy: Riparian Health and Erosion Analysis, Chilton Ranch – Arivaca Arizona.

David Henkel, Associate Professor
"Community and Cultural Diversity," *Quivira Coalition Newsletter. (January)*
"Self-Help Planning in the Colonias." *Small Town* (Dec-Jan)
"A Colorado River Reader." (Book Review) *New Mexico Historical Review.*
"Bioregional Planning: Resource Management Beyond the New Millennium."
(Book Review) *Society and Natural Resources.*
"Land Use Planning and Flood Plain Management: Applications of Land Evaluation and Site Assessment (LESA) Techniques." Joint Meeting of the NM League of Zoning Officials and the NM Flood Plain Managers' Association. October 2000.

Claudia Isaac, Associate Professor

Sabbatical year: Spring/Fall 2001

"Planners' Complicity in Structural Racism." Hubert Humphrey School of Public Affairs, University of Minnesota, (January 23, 2001)

"Oral History as Expert Voice: Difference, Representation, and Rigor in Narrative Community Based Practices." Wayne State University (March 2001).

"Race and Gender in the City: Oral History as Expert Voice." Wayne State University (March 2001).

Ted Jojola, Professor

Sabbatical year (Fall 2000/Spring 2001)

Min Kantrowitz, Adjunct Associate Professor

"Communication with Your Client: A Decision Pyramid Approach to Design Excellence" in Andrew Pressman, *Handbook of Architecture*. Wiley (February 2001).

Sandia National Laboratory Planning Feedback System

Fort Stanton, New Mexico Planning Project

Ric Richardson, Associate Professor

"Guiding Development in the Rio Grande Valley. Lincoln Institute of Land Policy and the Consensus Building Institute. (April 2001)

"Strategic Plan for Neighborhood Investment and Development," with K. Hildebrand and C. Isaac. Albuquerque (April 2001.)

"Engagement: a Bridge for Healthy Behavior," in *Strategic Choices*. The University of New Mexico Health Sciences Center. (April 2001)

"Strategic Directions for Clinical Treatment of Hepititus-C". The Hepititus-C Consensus Retreat, the New Mexico State Department of Health, (March 2001)

"A Report on the Lincoln National Forest Fire Zone: Actions and Strategies," for the Southwest Strategy and the New Mexico Consensus Council. (February 2001.)

A Strategic Development Plan, for the University of New Mexico Department of Anthropology, (February 2001)

"The Outcomes and Recommendations of a Charette or Design of the Joint Computing and Engineering Laboratory", with Karpoff Associates, for Sandia National Laboratory (January 2001)

"Mediating Land Use Disputes." For the Lincoln Institute of Land Policy and Portland State University, Portland OR.. (May 2001)

"Collaborative Problem Solving." For a Legislative Skills Workshop for the National Meeting of the Council of State Legislatures – WEST (October 2001)

School of Architecture and Planning
Landscape Architecture Program
Annual Report: July 1, 2000 - June 30, 2001
Submitted by: Alf Simon, Director

Following is a summary documentary of key developments and events in the School of Architecture and Planning from July 1, 2000 – June 30, 2001. The Report addresses faculty, research, professional activities, public events, outreach, student life and administrative changes.

Program and Curriculum Development

The Landscape Architecture Program in the School of Architecture and Planning at the University of New Mexico began its first semester of formal operation in September 2000. It was also the first semester with the newly-appointed program Director, Associate Professor Alf Simon.

One of the first tasks was to review the program requirements and policies established as a part of the approval process for the new program, and make revisions as deemed necessary. The exit requirements for the MLA degree were also reviewed. Three entry points to the graduate program have been identified:

1. *Students entering without a design major.*
The program of study for this group now comprises a minimum of 76 hours of study, plus a thesis or project of 6 hours credit. This program normally requires a three-year period of study and includes five design studios. The first year is an intensive introduction to basic principles of design and the discipline of landscape architecture.

2. *Students entering the program with a major in landscape architecture, environmental design or architecture.*
The program of study for this group now comprises a minimum of 48 hours of study, plus a thesis or project of 6 hours credit. This program normally requires a two-year period of study and includes three design studios.

3. *Post-professional degree students.*
This option is open to applicants who are licensed landscape architects with a minimum of five years of experience, and who wish to earn a Master of Landscape Architecture degree. Exit requirements for this group are 30-32 hours of study, including a thesis. Specific course requirements for the degree are established on an individual basis.

Curriculum

As a part of the curriculum review process the curricula of several LA programs throughout the US and Canada were researched to determine the number of required credit hours in the program, the number of design studios, and course content for various

types of offerings. In light of this research, and given the stated areas of emphasis within the program, three categories of program change have been initiated:

1. Minor changes have been made regarding course names, cross listing of courses and catalogue course descriptions. These were addressed in a Form A.

2. Changes were made in naming the major areas of study, and in the distribution/classification of courses under these headings. These were addressed in a Form C.

3. Courses have been added to the curriculum to respond to deficiencies in history/theory, construction technology and design. These were addressed in a Form C. Of particular importance is the sequence of five studios that has been introduced into the program, replacing the two studios in the original curriculum.

Students

There were sixteen students registered in the program or taking courses to qualify for entry into the program. The student body is a strong and well-organized group. The student association, Society for Landscape Architecture Students (SOCLAS), applied for and received their charter for the 2000-01 academic year from UNM, and have been granted status as a student chapter of the American Society of Landscape Architects (ASLA). They also started several initiatives designed to enrich their educational experience, including: a series of lectures on plants of the Southwest, evening visits to offices of landscape architects in the region, a series of computer graphics workshops, and a digital image library for landscape architecture.

One student graduated during 2000-2001:
Peter Ziminski

Student Support

During the 2000-01 year, the LA Program was able to initiate student scholarships for the 2001-02 year. New scholarships for the 2000-01 year are:
The Frontier Scholarship $1000.00
Three 3% scholarships from UNM.

Recruitment and Promotion

Building a high quality applicant pool and enrollment in the program is a top priority. The goal in the next five years is to be able to admit 15 non-design major students [three-year program] and 15-20 BAED or other design major students [two-year program] each year. In order for this to happen it is necessary to recruit both in the undergraduate and high school environments. The main initiatives were:
• Several recruitment fairs were attended during the 2000-01 year.

- Promotional materials.
  - LA Program brochure was developed.
  - BAED brochure was developed.
- A student manual for LA graduate students was developed.
- The CRP and LA Programs have secured a JB Jackson endowment grant to carry out high school recruitment throughout the state of New Mexico.

Library Holdings

In 2000-01 the LA Program submitted approximately 300 titles to the Fine Arts Library. Most of these have been purchased.

Accreditation

In April, 2001 an evaluator from the National Landscape Architecture Accrediting Board, Professor Rob Thayer of UC, Davis, visited the Program for 2 1/2 days. The intent of the visit was to provide a report indicating the strengths and weaknesses of the program to date, with respect to the National accreditation standards. The resulting report was very positive, with every indication that the program is on the right track in its development.

Bachelor of Arts in Environmental Design

The Landscape Architecture Program has worked in cooperation with the Community and Regional Planning Program to restructure and redevelop the *Bachelor of Arts in Environmental Design* Program (BAED). Students entering this program will complete a curriculum comprising UNM core requirements, BAED core requirements, and 48 hours of courses in either a CRP or an LA option concentration. The BAED is also expected to generate a stream of well-prepared students for consideration and admission to the graduate LA Program.

Faculty and Staff

Faculty

Currently the LA Program has one full-time tenured faculty, Alf Simon (Director), appointed in August 2001; one 1.0 untenured faculty on a three-year contract (Chris Wilson), appointed fully to the Landscape Architecture Program in August 2001; and one .35 faculty appointment (Baker Morrow), who is also one of the leading professional practitioners in New Mexico.

Part-time instructors during the 2000-01 academic year were:

Dennis Wilkinson	LA 584 Irrigation Design
John Rupley	LA 585 Construction Documents
Alex Rattray	LA 561 LA History and Theory
Edith Katz	LA 501 LA Graduate Design Studio

Support Staff

Early in 2001 the Landscape Architecture Program was able to secure a half-time Administrative Assistant, Ms. Mary Louise Burch. This has helped considerably in managing the program. In addition, the Program Director had the opportunity to work with a graduate assistant throughout the year, primarily to develop promotion and recruitment materials.

Publications

Chris Wilson, "Dancing with a Camera." Essay in Miguel Gandert, Nuevo Mexico Profundo: The Rituals of Indo-Hispano New Mexico. Santa Fe: Museum of New Mexico Press/Hispanic Cultural Center, 2000.

Chris Wilson, "Vernacular Means." Essay in Andy Pressman, Architectural Design Portable Handbook. N.Y.: McGraw-Hill, 2001.

Baker Morrow, "Design Value and the Modern Machine," Essay in Andy Pressman, Architectural Design Portable Handbook. N.Y.: McGraw-Hill, 2001.

Outside Professional Activities

Chris Wilson

- Tompkins Fellowship Jury, Society of Architectural Historian Advisory Board/Planning Retreat for Landscape Studies Program, Bard Graduate Center, N.Y.

Baker Morrow

- As a senior partner in a landscape architectural practice, Mr. Morrow carried out numerous professional projects over the last year.
- Appointed the New Mexico member of the ASLA's National Licensure Review Panel.

Alf Simon

- Editorial Board Landscape / Paysage Journal.
- Jury of Fellows - Canadian Society of Landscape Architects.

Externally Sponsored Research

Chris Wilson

- Plazas of New Mexico: $26,800
- Center for Reg. Studies: $10,800
- J B Jackson Endowment: $9,000
- Individual contributions: $7,000
- Doña Ana Plaza Charette: $12,500

- Center for Reg. Studies: $10,000
- Individual donor: $2,500

Baker Morrow

- The New Mexico Regional Office (Santa Fe) of the National Park Service for a survey listing of the 12 most important historic landscape architectural sites in New Mexico: $2500.00

- The New Mexico Regional Office (Santa Fe) of the National Park Service for a Cultural Landscape Inventory for the Old Pecos Trail Headquarters of the National Park Service in Santa Fe: $12,500.00

Alf Simon

- Doña Ana Plaza revitalization (with Chris Wilson - see above))
- Santa Fe Railyards Park (funded by Friends of the Park $2,000.00)
- The Canal Landscape in Phoenix, AZ (on-going doctoral research. Funded by U.S. Bureau of Reclamation: $6,000.00)

School of Architecture and Planning
Architecture Program
Annual Report: July 1, 2000 – June 30, 2001
Submitted by: Andy Pressman, Director

Following is a summary documentary of key developments and events in the School of Architecture and Planning from July 1, 2000 – June 30, 2001. The Report addresses faculty, research, professional activities, public events, outreach, student life and administrative changes.

Significant Developments and Events.

Bart Prince: The Building and The Book (Exhibition)

An exhibition installed and designed by Adjunct Professor Bart Prince opened on 23 March with a gala reception. Professor Christopher Mead and Michele Penhall curated the show. The exhibition was made possible by a grant from the J.B. Jackson Endowment with materials donated by the J.C. Baldridge Lumber Company and by Arbor Construction. The event was well attended by students, faculty and the community.

Community Design Workshop

The focus of this three-day event was a development of Albuquerque's Central Arts District. It was produced in partnership with the Downtown Action Team, the McCune Charitable Foundation and the UNM School of Architecture and Planning. It was funded by a $25,000 grant from McCune. Visiting Associate Professor Christopher Calott served as the "Design Coordinator" and led a team of faculty and ten professional offices.

Crego Block Competition

The annual "202 Studio" Crego Block Competition was held on April 9, 2001 with the jury of Bart Prince, Architect and UNM Adjunct Professor, Antoine Predock, Architect and UNM Adjunct Professor, and Daryl Gorenflo, General Manager of CSR Crego Block. A total of 30 Tingley Beach Observation Tower designs created by the students in the 200 level design studio were assessed. First and second place winners from each of three class sections were named.

Commencement

Master of Architecture student Sarah Lindenfeld was honored by being selected by University President William Gordon to give the graduation speech at the University of New Mexico Commencement exercises in December.

John Gaw Meem Lecture Series

Several architects, historians, academics, and landscape architects participated in the School's endowed John Gaw Meem Lecture Series. These include:

Peter Cardew, Architect, Vancouver, BC, *Ordinary Buildings*

Elmo Baca, State Historic Preservation Officer of New Mexico, *The Stranger's Path Revisited*

Rick Lowe, Founder, Project Row Houses, Houston, *Social Sculpture in the Urban Environment*

Thom Mayne, Los Angeles, *A Coherency of Opposites*

Edward Mazria, Architect, Mazria, Riskin, Odems Architects, Santa Fe, *Funky to Phenomenal: an Evolutionary Journey*

Gary Hack, Dan Hartley, Howard Moch, Panel Members, *Building a Vision: Mesa del Sol High Tech Center.* Jointly sponsored with the New Mexico State Land Office,

Edie Cherry, Architect, Cherry See Architects, Albuquerque, *Architecture for People*

Buster Simpson, Public Artist, Seattle, *Making Place, Making Art and Honing an Edge to Civic Projects*

Chris Wilson, J.B. Jackson Professor, University of New Mexico; First Annual J.B. Jackson Lecture, *New Regional Initiatives for New Mexico* (also presented in Santa Fe)

Howard Davis, Professor, University of Oregon, *The Culture of Buildings: Why the Cathedral and the Bicycle Shed Need Each Other.* Jointly sponsored with the Trust for Public Land.

New Mexico Board of Examiners for Architects

Governor Johnson appointed Professor Steve Dent and part-time instructor Jonathan Siegel to the New Mexico State Board of Examiners (NMBE) for Architects. The Fall 2000 NMBE newsletter [Volume XL No. 1] was focused on the School of Architecture and Planning and the activities and concerns of the students. MArch student, Carlotta Garcia, was selected as the Student Observer to the Board.

American Institute of Architects (AIA)

The AIA Albuquerque and AIA New Mexico chapter offices moved into the School of Architecture and Planning (Suite 130) in February 2001. A job fair in April co-sponsored by the Architecture Program and the AIA was successful in assisting students with career planning and job placement.

AIA Awards

The American Institute of Architects national and chapter design awards were bestowed on the following students in the Architecture Program:

Award	Student
AIA Henry Adams Medal	Doug Patterson
AIA Certificate	Luciana Mello
AIA Albuquerque	Conrad Skinner
AIA Santa Fe	Hunter Tidmore
AIA New Mexico	Krystine Graziano
AIA National Scholarship	James Parker

AIA New Mexico design awards honored faculty work:

Award/Project	Faculty
Honor Award "Gateway Center"	Antoine Predock
Merit Award "Lot K"	Kramer Woodard
Merit Award "Wright Residence"	Christopher Calott
Merit Award "Hawthorne Mini Gym"	Cherry/See Architects
Merit Award "Tang Teaching Museum & Art Gallery"	Antoine Predock

Competitions

The Winter 2000/2001 issue of *Competitions* magazine devoted fifteen pages to the UNM School of Architecture and Planning. The feature includes plans and drawings of the four finalists (for the new Architecture & Planning building) along with juror comments.

New Faculty & Appointments

- Associate Professor Andy Pressman was selected as the Director of the Architecture Program. He replaces Associate Professor Steve Schreiber, who accepted the Directorship of the School of Architecture and Design at the University of South Florida in August.
- Professor Christopher Mead has been selected as Interim Dean of the College of Fine Arts.
- World-renowned architects Antoine Predock and Bart Prince have joined the architecture faculty as Adjunct Professors.
- Garrett Smith, a nationally recognized architect, joined the faculty as an Adjunct Associate Professor to lead the first annual summer program in Switzerland.
- Karen King was appointed Visiting Assistant Professor for the period August 2000 through June 2001.
- As the result of a national search, Associate Professor Kuppu Iyengar joined the Regular Architecture Program Faculty in Fall 2000.
- Visiting Assistant Professor Christopher Calott joined the faculty in Spring 2001.
- Visiting Assistant Professor Christopher Domin joined the faculty in Spring 2001.
- Anant Raje (India) and Michel Pillet (Professor Emeritus, France) joined the faculty as visiting distinguished critics in Spring 2001.
- Professor Edie Cherry retired in Spring 2001.

Curriculum

Curriculum Planning

The architecture faculty undertook an extensive review of the graduate and undergraduate curricula, resulting in significant changes to the pre-professional and professional programs. These revisions will address deficiencies noted by the accreditation board and will capitalize on specific faculty strengths. The new revised curriculum will allow students to complete a fourth graduate studio as an alternative to the project/thesis. The new Masters's Studio is pending approval by the UNM Faculty Senate and is expected to be implemented in Fall 2002.

A new Annual Summer Study Abroad Program has been established, with the first trip to Lugano, Switzerland organized by Adjunct Associate Professor Garrett Smith and Professor Emeritus Michel Pillet.

Evening and Weekend Degree Program

The School continues to offer one of the only evening and weekend professional Master of Architecture programs in the country. The program attracts many excellent students with daytime personal and career obligations.

New Courses Offered:

- Drawing New Mexico, Jean Pike, Summer 2000
- Web Design, Ifan Payne, Fall 2000
- CAD & Graphics, Geoff Adams, Spring 2001
- Drawing New York, Jean Pike, Spring Break 2001
- Beginning and Intermediate Autocad, Summer 2001

Student Life

Architecture student groups have become re-energized in 2000 – 2001. The program has two UNM chartered organizations:

- American Institute of Architecture Students (AIAS)
- Society of Women in Architecture (SWA)

Student Awards

Architecture students received the following awards, prizes and scholarships in 2000–2001:

Alpha Rho Chi Medal	Sarah Lindenfeld
BPLW Design Competition Award	Doug Patterson
Bazard Scholarship	Cinco Cronemeyer

Brown Scholarship	Audrey McEwen
Frontier Scholarship	Derrick Ballard
IEE Annual Award	Atsuko Sakai
IEE Annual Award	Manny Juarez
JB Jackson Scholarship	Melanie Shelor
Predock Scholarship	Kristen Shaw
Kevin Ryan Memorial Scholarship	Julie Stewart

Graduating Students for 2000 – 2001

Bachelor of Arts in Architecture

Bailey, Callie
Barboa, Daniel Anthony
Beebe, Donald William
Blount, Heath Fredric
Callison, Heather Anne
Cline, Richard J.
Dusenbery, Timothy Alan
Dvorak, Christina I.
Facio, Jennifer A.
Fuemmeler, Joseph G.
Garcia, Maria Bianca
Hazelbaker, Darci Anne
Hearn, John Brian
Hill, Rachel M.
Huval, Darren Jospeh
Kjobech, Kurtis C.
Lee, Chen-Tai
Lomax, Nancy M.
Magee, Jedediah K.
Murrah, Samuel A.
Pocus, Daren Robert
Poncelow, Matthew R.
Rayner, Robert
Zwickel, Reid Edward

Master of Arts in Architecture

Berhost, Scott
Blakely, Stuart
Brown, George
Caouette, Jill
Caruso, Daniel
Chavez, Daniel
Chikodi, Keshav
Davis, Lennard
Fleming, Jeffrey
Gallegos, Joseph
Gardner, Benjamin
Graziano, Krystine
Juarez, Manuel
Kadu, Sanjay
Keener, James
Knebel, Ann
Lindenfeld, Sarah
Mello, Luciana
Patterson, Douglas
Sakar, Atsuko
Stevens, Amy
Tidmore, Catherine
Vigil, Mark
Waits, Gregory
Wu, Lian
Young, Marisa

Bachelor of Arts in Environmental Design

Gardner, Cheryl M.
Putzig, Bonnie Jean
Thomas, Rebecca

Faculty Research and Creative Work

Assistant Professor Geoff Adams has two projects in process in his practice; the Anderson renovation of La Luz and the Rode Addition. Additionally, he participated in a low-income housing competition for the City of Albuquerque and a J.B. Jackson grant was awarded to his studio for student travel. Professor Adams was charged with building the web site for the School of Architecture and Planning.

Associate Professor Gabriella Gutierrez is currently working on two architectural design projects, one in schematic design phase - an addition to a single-family residence, and one under construction – an interior remodel.

Funded through a $25,000 grant from the McCune Charitable Foundation, Visiting Associate Professor Christopher Calott, AIA, led a team of faculty and ten professional offices in a public Design Workshop to create a Master Plan for the 4 block Central Arts District in downtown Albuquerque. He also won an *AIA New Mexico Design Award.*

Assistant Professor Mark Childs developed a proposal for a *Certificate Program in Town Design.* He received a Teaching Allocation Subcommittee grant to develop materials for a new class on Infrastructure Design. He also received a Research Allocation Committee grant for "New Mexico Civic Places Research."

Associate Professor Steve Dent serves on the UNM Faculty Senate Budget Committee. He contributed a chapter, "Environmentally Sensitive Design" to *Architectural Design Portable Handbook"* published in March 2001. Dent & Nordhaus, Architects completed a major remodeling of the sanctuary at Congregation B'nai Israel. Design and construction documents were also completed for a large single family home (3800 sf) in San Pedro Creek Estates.

Associate Professor Kuppu Iyengar received a grant from the Department of Energy office and Rebuild America "Central" to undertake research on architectural surety. The project involves conducting energy simulation on selected commercial buildings. He also serves on the School's Curriculum Committee, helping to develop the new Master's Studio, and is the ACSA Faculty Councilor.

Associate Professor Paul Lusk continued to work through his Regent's Lectureship award to complete the essential elements of the "Greenroom/Cool-Tower Project." This work is a prototype of an intentional design process to create beauty and new forms by pursuing the ecological performance of architecture.

During the past year, Professor Nordhaus has continued to actively pursue creative professional work with Steve Dent, on his own, and through the DPAC (*Design and Planning Assistance Center*). The *Design and Planning Assistance Center* won the *Award of Distinction* from the Western Mountain Region of the American Institute of Architects (AIA).

Associate Professor Andy Pressman was selected as the Director of the Architecture Program. He replaces Associate Professor Stephen Schreiber, who accepted the Directorship of the School of Architecture and Design at the University of South Florida in August. Pressman and Jonathan Siegel are working on a new gymnasium in Princeton, New Jersey. *Architectural Design Portable Handbook: A Guide to Excellent Practices* written and edited by Pressman has been published by McGraw-Hill, (2001) and has been reviewed nationally in *AIA Architect.*

Professor Anne Taylor, Director of the *Institute for Environmental Education,* received a grant from the Albuquerque Charitable Endowment Fund to create an architecture walking tour of the University of New Mexico campus for children.

J.B. Jackson Professor of Cultural Landscape Studies, Chris Wilson is developing an interdisciplinary *Certificate Program in Historic Preservation and Regionalism* that students will be able to complete in conjunction with a graduate degree or as post-graduate enhancement.

Professor Wilson has taught a unique research seminar with Adjunct Professor of Architecture and Planning, Stefanos Polyzoides, that was first offered last spring. The class is part of an on going research project that will result in a book about New Mexico's historic plazas.

Associate Professor Kramer Woodard's Lot K house located on a hilltop near the university campus, was featured in a four page article in *The New American House 3,* a book edited by James Grayson Trulove and Il Kim. He also received an *AIA Albuquerque Design Award* for this project.

UNIVERSITY OF NEW MEXICO ART MUSEUM

Annual Report
2000-2001

Peter Walch, Director

October 25, 2001

1. Significant Developments

In September 2000, the Museum received a two-year general-operating support grant of $112,500 from the Institute of Museum and Library Services (which we are using to fund, among other projects, the effort to acquire digital images of objects in our collections, images to be added to the computerized collections management system). Through the years, the Museum has received more of these awards (six) than all other museums in Albuquerque combined. The Museum is among approximately a dozen university museums of all disciplines to be so successful in this highly competitive process.

In October, the Museum received a check for $80,000 from the Stockman Family Foundation, with the promise of another in the same amount to come in October of 2001. This continues a decade-old support by that foundation of our conservation efforts, largely aimed at the collections in photography. This year, using additional support ($20,000) from an Educational Foundation of America grant (in which we were a partner with the Arts of the Americas Institute of the College of Fine Arts) and a matching pledge from UNM's Vice President for Business and Finance, we renovated and equipped 800 square feet of B-126 ("Far Storage") in the Center for the Arts as a permanent conservation laboratory. Two summer conservation research assistants worked in the new lab, under the supervision of the visiting conservator Christine Young. A search is nearing completion for a full-time photo/works on paper conservator (the position funded by the Stockman Family Foundation Grant), to work on our collections (and those of other local institutions) and to participate in the Museum Studies program.

Significant grants from the McCune Charitable Foundation ($10,000) and the Urban Enhancement Trust Fund of the City of Albuquerque ($12,000) have enabled us to undertake a special teaching unit (videotapes, slides, lesson plans, and a Family Activity Guide) on abstract art. Produced in partnership with Art in the School, Inc., and the UNM Department of Media Arts, this unit is based on a permanent collection exhibition in our Lower Gallery. In the fall, 40,000 bilingual guides will be distributed in the Albuquerque Public Schools, and during special Saturday hours (funded by the Urban Enhancement Trust Fund) docents will lead tours of the exhibition. This project extends our long-standing relationship with Art in the School, Inc., a relationship which has brought national awards to both Art in the School, Inc., and the UNM Art Museum.

In January, 2001, the National Endowment for the Humanities awarded us $365,408 toward an environmental control system upgrade of our exhibition and storage spaces; the University, through the Vice President for Business and Finance, has pledged the remaining funds necessary for this project. For more than a decade, we have attempted to bring our HVAC systems (especially, the humidity controls) up to standards. Now, this project– to be completed during the summer of 2002– will do wonders, both for our own collections (especially the humidity-sensitive photographs) and for our ability to borrow from other institutions. Special thanks to Lawrence Walsh of the UNM Development Office, who helped us craft the NEH Preservation and Access Grant. As with the IMLS-GOS grant, this one also affirms the national high standing of our collections and our programs.

At the Jonson Gallery, the new curator Robert "Chip" Ware has initiated a parallel effort to assess the environmental needs of that facility. As a result, the Jonson Gallery has been awarded a Conservation Assessment Program grant from the IMLS. In the fall of 2001, a two-person team (a preservation architect and a conservator) will give the Jonson Gallery facility a thorough inspection, to determine what is right and what needs corrective action.

Late in June 2001, we received the first copies of our *Highlights of the Collections* handbook, 160 pages with 140 full-color and 45 black-and-white illustrations. Significant funding ($40,000) was received from The FUNd at the Albuquerque Community Foundation. Finally, (this has been a five-year project, from the writing of the grant to the finished book) we have, in one handsome book, the story of the University of New Mexico Art Museum.

While these major projects were going on, we maintained our usual busy schedule of exhibitions and public programs. From "Dr. Freud's Century" (reviewed in *The Wall Street Journal*) to "Van Deren Coke: Scholar as Collector" (the current UNM Art Museum tribute to our founding director, his generous gifts, and his impact upon photography at UNM) and "Space Odysseys 2001" (the 51st annual summer exhibition at the Jonson) we've put up some wonderful shows.

In addition, we received a large amount of gifts from our many collector-patrons, most importantly, the photographs by the Soviet-era photographer and photo-editor Dmitri Baltermants. This gift of 122 works, from Paul and Theresa

Harbaugh, will be the basis of a fall 2001 exhibition (supported by the UNM Russian Studies Program) "Dmitri Baltermants: Photographer Before Glasnost." We received this and similar gifts because, nationaily, donors recognize that our collections, particularly in photography, are very important, that we are responsible stewards of our collections, and that we place these collections at the service of the international, and inter-disciplinary, scholarly community.

2. Plans and Recommendations

A proposal for the formal creation of a UNM Museum Consortium, comprising the directors of the five main research museums (UNM Art Museum, Museum of Southwestern Biology, Meteorite Museum, Harwood Museum, and the Maxwell Museum of Anthropology), has been placed before the Provost. If this Consortium (which has been meeting as an informal group this past year) is formally recognized, it will be an important step both for the museums involved and for their collective ability to reach out to various constituencies, for example, the Museum Studies Program.

The HVAC project (mentioned in Section 1) is important, in and of itself. It is also important as an implicit endorsement of a long-range plan for the museum: to improve and expand upon our current facility, rather than to plan on building a new facility at a different site. The need for a better, larger facility continues to grow, fueled in part by the necessary growth of our collections. However, we increasingly appreciate our current location: central to our campus audiences, to patrons of the adjacent performing arts facilities, and to visitors to the campus. The only practical way to remain and grow is to move into the Fine Arts Library spaces above us. In consort with the School of Architecture and Planning, we have entered into preliminary discussions about relocating the library (and expanding its collections, to include materials on landscape architecture). We need to continue these discussions. We need also to take an important preliminary step: to assist the Department of Media Arts to move from B-125 to their designated new (but unfinished) spaces in the Old Bookstore. We need that B-125 space to relocate functions displaced by the HVAC project. The Facility Planning staff is aware of these issues which need to be promoted consistently at all levels of UNM.

Last year, we made offers to fund three $10,000 internships if the Department of Art and Art History could find funding for three $5,000 fellowships, to bring new graduate students to UNM in the photo history and history of graphic arts fields. No fellowship money was found. For the third year in a row, no graduate student entered the photo history program. With the graduation of Sara Marion (UAM student employee and guest curator of the Hughie Lee-Smith exhibition), there are no graduate students in photo history at UNM. Great students still apply and are accepted into this once-pre-eminent program; they don't come, because other universities give them fellowships, and we won't. While our collections have other uses and audiences, one thing we have done (in consort with the Department of Art and Art History) through the years is to train some of the world's best, most prominent photo curators, Sarah Greenough at the National Gallery and Therese Mulligan at the George Eastman House. It's sad to see UNM allow this program to dissolve, for want of relatively few dollars.

Finally, the problem of adequate funding for the Jonson Gallery remains. The provost has made restoration of full-funding conditional upon resolution of the Museum Studies Program. In the meantime, Jonson Gallery is budgeted to operate at a $19,000 deficit in 2001-2002. Plans to restore and renovate the facility are in jeopardy. One can but hope for a speedy and favorable resolution to this now-six-year-old issue.

3. Staff Appointments

Ursula Mines	October 2, 2000
Robert "Chip" Ware	August 7, 2000

4. Staff Separations

David M. Gutierrez	September 15, 1998 -October 6, 2000

5. Achievements/Products
A. Exhibitions

University Art Museum

Upper Gallery

2000	
Jun. 6—Sept. 24	*Tamarind at 40* Curators: Kathleen Howe and Marge Devon
Oct. 17—Dec. 16	*Abelardo Morell and the Camera Eye* Curator: Lee Savary
2001	
Feb. 2—Jun. 3	*In Company: Robert Creeley's Collaborations* Curator: Lee Savary
Jun. 26—Sept. 16	*Van Deren Coke: Scholar as Collector* Curator: Kathleen Howe

West Gallery

2000	
Jun. 6—Sept. 24	*Tamarind at 40* Curators: Kathleen Howe and Marge Devon
Oct. 17—Dec. 17	*Jugendstil: Kayser Pewter From Kreis Neuss* Curator: Lee Savary
2001	
Feb. 6—Mar. 25	*Basia Irland. Inscriptions: Stars, Tides, and Ice* Curator: Kathleen Howe
Apr. 3—Jun. 3	*Thomas Barrow: Then and Now* Curator: Peter Walch

Van Deren Coke Galley

2000	
Jun. 6—Sept. 24	*Dr. Freud's Century* Curator: Peter Walch
Oct. 17—Dec. 17	*New Faces: Recent Photography Acquisitions* Curator: Kathleen Howe
2001	
Feb. 6—Jun. 3	*Stages of Influence: The Universal Theatre of Hughie Lee-Smith* Curator: Sara Marion
Jun. 26—Sept. 16	*Route 66: Panoramic Photographs by Gus Foster* Curator: Kathleen Howe

Study Gallery

2000	
Jun. 27—Oct. 15	*Lawn* Curators: Kathleen Howe and Peter Walch
Oct. 24—Dec. 17	*Constructing the Seen: Reconsidering the American Landscape* Curator: Scott Davis

2001
Jan. 23—Feb. 25 — *Sean Mellyn: Recent Paintings*
Curator: Peter Walch

Mar. 1—May 13 — *Sex & Violence In Classical Antiquity*
Curator: Peter Walch

Lower Gallery
2000
Jun. 27—Dec. 22 — *The Great Disappearing Art Exhibition*
Curator: Peter Walch

2001
Jan. 23—Mar. 11 — *Juan Sanchez: Printed Convictions*
Curator: Lee Savary

Mar. 20—Dec. 16 — *Abstraction*
Curator: Peter Walch

Jonson Gallery
2000
May 30—Sept. 8 — *Jonson Gallery's 50th Anniversary*
Curators: Peter Walch and Cindy Leyba

Sept 26—Nov. 17 — *New Graduate Student Exhibition* and *1950s Student Exhibition*
Curator: Robert Ware

2001
Jan. 30—Mar. 9 — *Dark Fields: Photograms by Leigh Anne Langwell*
Curator: Robert Ware

Jan. 30—Mar. 9 — *Photograms from the 20th Century*
Curator: Robert Ware

Mar 20—May 11 — *Seventh Annual Graduate Student Exhibition*
Curator: Robert Ware

May 25—Aug. 17 — *Space Odysseys 2001*
Curator: Robert Ware

May 25—Aug. 17 — *James Ware Pitts. Photographs Along Route 66*
Curator: Robert Ware

B. Print Seminar Room

During fall semester 2000 and spring semester 2001, the print study room supported classes offered through the Departments of Art and Art History, History, and Foreign Languages and Literatures. 1248 individual student and faculty visits were logged; faculty scheduled 74 class meetings in the print study room; and a graduate seminar in Art History met weekly in the print study room spring semester.

Non-UNM visitors to the print study room included a masters level library science class from Weber State University, Moriarty High School, and elementary school classes. Researchers from the Houston Museum of Fine Arts and the International Center for Photography in New York, as well as independent scholars from Germany and England used the collections.

C. Programs, Receptions, and Other Events

The total number of visitors to the UNM Art Museum including the Jonson Gallery was 44,374, an increase of 369 from FY 1999-2000. Total general attendance to the main Museum was 42,399, an increase of 1,481 (up 3.62%) from last year. The combined tours, public programs and special events attendance to the main Museum was 4,705, a decrease of 3,107 from last fiscal year. A portion of the decrease could be attributed to the two weeks the museum was closed for construction of a handicap-access ramp into the main gallery. There was an increase in the number of school tours at the museum, but the class sizes were much smaller than last year. There was also a slight drop in the number of programs and events held this year, and the turnout to those events was considerably lower. The number of UNM classes utilizing the museum was down by 633 from last fiscal year. (The number of UNM classes using the museum may not have been completely reported; classes were only counted if they were formally scheduled tours). Generally, program and reception attendance was down from last year, but the general attendance at the museum showed an increase of 3.62%, a substantial increase in general walkthrough traffic this year.

Attendance is divided into several categories: public and private school tours, UNM class tours, community organizations tours, and finally Tuesday Talks, Museum Events, and Opening Reception attendance.

EDUCATION & PUBLIC PROGRAMS	
73 Private and public school tours	1,462
12 University class tours	175
7 Community organizations tours	114
50 Tuesday Talks, Museum Events, Opening Receptions	2,954
TOTAL:	4,705

UNM ART MUSEUM (MAIN)

JULY 2000		Number in Attendance
5	TVI Class tour	21
6	Oklahoma Group Tour	46
9	Martineztown Community Center	5
11	School Tour- Manzano Dayschool	14
19	Art Center Tour	43
25	School Tour- Mountain View Elementary	10
25	TVI Class Tour	15
25	UNM Luncheon	15
AUGUST 2000		
2	School Tour- Le Petite Academy	16
24	UNM Eng. 101- Tour	23
29	Artists' Forum	35
SEPTEMBER 2000		
7	Tamarind Dinner	49
10	Tamarind Birthday Party- Reception	184
13	School Tour- Cleveland Middle School	24
13	Cultural Studies Colloquium	55
19	Print Room Class	10
19	Tuesday Talk- Kathleen Howe	41
20	Cultural Studies Colloquium	33
21	School Tour- Jefferson Middle School	12
22	Elder Hostel	25
22	NMSO Reception	62
26	Artists' Forum	29
27	Cultural Studies Colloquium	41

OCTOBER 2000

4	Cultural Studies Colloquium	51
11	Cultural Studies Colloquium	29
17	Tuesday Talk- Peter Pabisch, Keyser Pewter	15
18	Cultural Studies Colloquium	43
20	School Tour- Longfellow Elementary	28
20	Prince of Asturia Reception	263
20	School Tour- Sandia Prep	24
20	Opening Reception- Abelardo Morell	85
24	Artists' Forum	23
25	Cultural Studies Colloquium	26
28	UNM Photo Dept. Reception	30
31	Tuesday Talk- Scott Davis	46

NOVEMBER 2000

1	Cultural Studies Colloquium	52
2	Albuquerque Country Day School Tour	15
2	School Tour- Española Middle School	28
3	School Tours (2)- Gallup High School	49
3	School Tour- Monte Vista Elementary	35
8	Cultural Studies Colloquium	5
9	School Tour- Aztec Elementary	25
14	Print Room Class	12
14	Santa Fe Community College Tour	25
14	Tuesday Talk- Abelardo Morell	204
15	Cultural Studies Colloquium	74
16	Print Room Class	12
17	Annunciation School Tour	25
21	Ramah Elementary School Tour	18
21	Artists' Forum	25
29	Cultural Studies Colloquium	38

DECEMBER 2000

5	School Tours (2)- Peñasco Middle School	30
7	School Tours (3)- McKinley Middle School	64

JANUARY 2001

*CLOSED FOR HANDICAP RAMP CONSTRUCTION Jan. 1 through Jan. 15th

17	School Tour- Cesar Chavez Elementary	13
24	School Tours (3)- Rio Grande High School	37
25	Tamarind Class Tour	11
30	Tuesday Talk- Sean Mellyn	45
31	Cultural Studies Colloquium	34
31	School Tour- Truman Middle School	16

FEBRUARY 2001

2	School Tour- Native American High School Program	11
7	School Tour- Albuquerque High School Photo Class	10
7	Cultural Studies Colloquium	35
8	Cultural Studies Colloquium	47
9	Opening Reception- Robert Creeley	230
13	Tuesday Talk- Basia Irland	66
14	School Tours (2)- Eisenhower Middle School	28
14	Cultural Studies Colloquium	21
15	Print Room Class	8

FEB. 2001- continued

15	Cultural Studies Colloquium	90
16	School Tour- Navajo Elementary	10
20	Tuesday Talk- Panel Disc. Juan Sanchez	40
21	School Tour- Albuquerque Academy	11
21	Cultural Studies Colloquium	42
27	School Tours (2)- Jefferson Middle School	55
27	Tuesday Talk- Visiting Critics	54
28	Print Room Class	20
28	School Tour- Las Cruces High School	31

MARCH 2001

6	School Tours (2)- Rio Rancho High School Tour	48
6	School Tour- Belen Elementary	10
7	Cultural Studies Colloquium	31
8	School Tour- Socorro Elementary	14
9	School Tours (2)- Del Norte High School	40
20	Tuesday Talk- Sharon Patton (Hughie Lee-Smith)	55
21	School Tour- La Luz Elementary	25
21	Cultural Studies Colloquium	23
22	School Tours (2)- Pope Middle School	46
23	School Tour- Albuquerque Country Dayschool	10
28	UNM Print Room Class	12
28	Cultural Studies Colloquium	44
29	School Tour- Eldorado High School	20
30	School Tours (2)-Eisenhower Middle School	40

APRIL 2001

3	Tuesday Talk- Robert Creeley	195
4	Cultural Studies Colloquium	15
4	Print Room Class	8
5	School Tours (2)-Santa Fe Middle School	40
6	School Tours (3)- Gallup Middle School	48
6	Opening Reception- Tom Barrow	100
11	Cultural Studies Colloquium	38
11	UNM Class Tour	10
17	Tuesday Talk- Sara Marion (Hughie Lee-Smith)	55
18	Cultural Studies Colloquium	18
18	School Tour- Madison Middle School	18
20	School Tour- Las Vegas Middle School	24
24	School Tours (3)- Highland High School	80
24	School Tours (2)- Sandia Prep.	62
24	School Tour- Cleveland Middle School	27
25	Cultural Studies Colloquium	16

MAY 2001

1	Ruidoso Elementary Tour	31
2	Cultural Studies Colloquium	16
3	Print Room Class	10
4	School Tour- Lowell Elementart	20
5	Tom Barrow Luncheon Reception	22
9	FOA Dinner	39
15	School Tour- Annunciation	20
17	School Tour- La Mesa Elementary	9
18	School Tour- Kennedy Middle School	30

JUNE 2001

11	Art in the School Workshop	9
12	Art in the School Workshop	9
13	Art in the School Workshop	10
15	Art in the School Workshop	10
15	YMCA Tour	7
20	UNM Class Tour	20
22	School Tours- (2) Alavarado Elementary	25
29	TVI Class Tour	21

Jonson Gallery

EDUCATION & PUBLIC PROGRAMS	
Private and Public School Tours	79
UNM Class Tours	126
Gallery Talks/Museum Events/Opening Receptions	589
General Attendance	1181
Total:	1975

This figure represents a drop of 1112 from the previous year. The large attendance for the events surrounding the Cleavage exhibition in FY 1999-2000 accounts for this difference.

		Number in Attendance
July 2000		
5	Kindercare Class	13
September 2000		
5	Tuesday Talk- Chip Ware, Meet the New Curator	39
October 2000		
3	UNM Class,	21
3	Reception- New Grads	101
4	UNM Class	17
20	APS Class	27
November 2000		
2	UNM Class	20
7	Tuesday Talk- Jeanette Hart	6
December 2000		
5	Tuesday Talk- Cynthia Robinson, Courtliness	53
7	UNM Class	11
8	Panel Discussion	69
February 2001		
2	Reception- Dark Field)	85
6	Tuesday Talk- Adrianne Santina	22
March 2001		
6	Tuesday Talk- Leigh Anne Langwell	30
9	Adobe Acres Class	30
21	UNM Class	9
23	7th Annual Juried Graduate Exhibition Reception	132
April 2001		
2	UNM Class	12
12	UNM Class	36
May 2001		
1	TuesdayTalk- Shari Wasson, F.O.A. Studio Award	20
25	Reception- Space Odysseys & Photos Along Rt. 66	32
June 2001		
14	APS Class	9

D. Publications

UNM Art Museum

Catalogs:

Highlights of the Collections
Text by Peter Walch, essays by Peter Walch, Kathleen Howe, and others
160 pp. 185 color and b/w illustrations. June 2001.

Van Deren Coke: Scholar ar Collector
Text by Kathleen Howe, preface by Peter Walch
79 pp. 57 color and b/w illustrations. June 2001.

Water Library, Chapter One: Inscriptions—Stars, Tides, and Ice
Text by Basia Irland, introduction by Kathleen Howe, essay by Ryan Wyatt
37 pp. 39 color illustrations, 2 b/w illustrations. February 2001

Stages of Influence: The Universal Theatre of Hughie Lee-Smith
Text by Sara L. Marion, preface by Peter Walch
23 pp. 6 color illustrations, 12 b/w illustrations. February 2001

Jonson Gallery

No publications for 2000-2001

E. Museum Shop

The museum shop made an adjustment of $1890 to inventory at the end of fiscal year 2000-2001, compared with a $59 adjustment the previous year. Once the mistakes in the Booklog (the Shop's accounting software) accounting reports were found, the reports, the store ledgers, and the FRS all balanced accurately.

Our profit margin decreased from last year. We ran a $5785 deficit when the numbers from the Booklog ledger are used. Of this, $7250 was a museum acquisition charge. Without that expense, the store was $1464 in the black (a 75% decrease from last year). Using the FRS data, the store ran a $3557 deficit. When the museum acquisition charge is taken into consideration, the store was actually $3692 in the black (a 42% decrease from last year). A decline in *The Potters of Mata Ortiz* sales, a couple of expensive operating costs, relying on student employees throughout the summer, and a slower economy all contributed to the decrease.

For next fiscal year Mata Ortiz books can be actively sold by identifying markets and promoting the book. The *Highlights of the Collection*, and *Van Deren Coke* books can also be approached in a similar manner. Additionally, work-study employees will continue to be relied upon and reduced to fewer hours, if possible, when they exhaust their awards and must be converted to student employment.

F. Friends of Art

Activities:

Sponsored two APS student artist pony panels

Held Spring 2001 film series, Feb. 25–March 11, 2001

Strand: Under the Dark Cloth

Vincent: The Life and Death of Vincent Van Gogh

Diego Rivera: I Paint What I See

Held Annual Meeting and Dinner at the UNM Art Museum, Wednesday, May 9, 2001

Donation to the UNM Art Museum collection:

Vladimir Maiakovsky, *Dlia Golosa*, 1923, Illustrated book of poems, lithographs by El Lissitzky

Awards given:

Art History: Adrianne Santina

Art Studio: Shari Wasson, *Stigmata*, oil on wood, plaster

Best Friend: Mary Lance

Board 2000–2001

Rebecca Neri Zagal, President
Ellin Hewes, Vice President
Rab Freeman, Secretary
Malu Gawthrop Cooper, Treasurer
Cindy Foster
Lerke Foster
Sheila Garcia
Mary Gilstrap
Mary Lance
Katherine Pomonis
Marian Rodee

6.Outside Sponsored Research and Collections Development

UNM Art Museum

Funding agent: Stockman Family Foundation Trust
Title: Art Restoration and Conservation
Dates: July 1, 2000–June 30, 2001
Amount: $80,000
Project Director: Peter Walch

Funding Agent: James Gollin
Title: Photography Acquisitions
Dates: July 1, 2000–June 30, 2001
Amount: $4,000
Project Director: Peter Walch

Funding Agent: Albuquerque Community Foundation
Title: Water Library
Dates: July 1, 2000–June 30, 2001
Amount: $3,000
Project Directors: Kathleen Howe and Basia Irland

Funding Agent: Michael Mattis
Title: Photography Acquisitions
Dates: July 1, 2000–June 30, 2001
Amount: $100,000
Project Director: Peter Walch

Funding Agent: Buck Ewing
Title: Water Library exhibition
Dates: July 1, 2000–June 30, 2001
Amount: $750
Project Directors: Kathleen Howe and Basia Irland

Funding Agent: National Endowment for the Humanities
Title: Environmental Control System Upgrade for the UNM Art Museum
Dates: May 1, 2001–April 30, 2003
Amount: $365,408
Project Director: Peter Walch

Funding Agent: McCune Charitable Foundation
Title: Collaborative Teaching Unit on Twentieth Century Art
Dates: June 1, 2000–December 2001
Amount: $10,000
Project Director: Peter Walch

Funding Agent: City of Albuquerque Urban Enhancement Trust Fund
Title: Teaching Twentieth Century Abstract Art
Dates: April 27, 2001–June 30, 2002
Amount: $12,000
Project Director: Peter Walch

Funding Agent: Institute of Museum and Library Services
Title: General Operating Support
Dates: October 1, 2000–September 30, 2002
Amount: $112,500
Project Director: Peter Walch

Funding Agent: Institute of Museum and Library Services
Title: Conservation Assessment Program Grant
Dates: April 16, 2001–December 31, 2001
Amount: $6,370
Project Director: Robert Ware

7. Professional Activities

Tyler Anderson
Professional meetings and classes attended:
Art and Aesthetics of Tikal, Fall 2000
Professional activities:
Program developer and head archivist, Baltermants photo archive project
Temporary collections assistant, Albuquerque Museum, *Empire of the Sultans* exhibition
Lecture, "Appearance and Development of Triadic Architectural Complexes in the Maya Region, from the Pre-Classic through the Late Classic"

Linda Bahm
Member, Museum Cooperative Council of Albuquerque
Membership Chair, New Mexico Association of Museums
Member, UNM Research Administrators Network
UNM Representative, Harwood Museum Advisory Board
Professional meetings and classes attended:
New Mexico Loss Control Bureau Fine Arts Risk Management seminar, Sept. 18, 2000
New Mexico Association of Museums annual meeting, Albuquerque, September 21-23, 2000
Purchasing and Accounts Payable Policies and Procedures, UNM, February 23, 2001
Museums and the Web annual meeting, Seattle, Washington, March 15-17, 2001
American Legal Institute, Legal Issues of Museum Administration course (ALI-ABA), Washington, DC, March 22-24, 2001

Kelvin Beliele
Member, Modern Language Association
Member, UNM English Graduate Student Association
Member, UNM Graduate and Professional Student Association Council
Professional meetings and classes attended:
Seven Habits of Highly Effective People, August 16, 23, & 30, 2000
Graduate seminar: William Faulkner, August 21, 2000-December 8, 2000
American Romanticism (literature), August 21, 2000-December 8, 2000
Computer Literacy, December 14, 2000
Master's colloquium: T. S. Eliot and *The Waste Land*, January 16-May 4, 2001
Emotional Intelligence in the Workplace, May 7, 14 & 21, 2001
Myers-Briggs Type in the Workplace, May 7, 2001
Master of Arts degree (English language and literature), May 12, 2001
Travel Policies and Procedures Refresher, June 6, 2001
Victorian literary survey, June 4-July 27, 2001

Mark Cattanach
Member, New Mexico Association of Museums
Member, Mountain Plains Museum Association
Professional meetings and classes attended:
New Mexico Association of Museums annual meeting, Albuquerque, New Mexico, September 20-22, 2000

Michael Certo
Member, Board Member of Albuquerque Contemporary Art Center [AC^2]
Member, Albuquerque Arts Alliance
Member, Artists' Awards Committee for Magnifico Festival of the Arts
Professional activities:
Moderator, artists' forum program, UAM
Juror, *New Era Art* exhibition, Magnifico Art Space
Chief curator, Albuquerque Contemporary Art Center, Downtown Albuquerque
Curator, statewide film and video show, ARC Gallery, [AC]^2
Curator, annual juried graduate student exhibition, UNM Art Museum, UNM

Lectures:

Annual juried graduate student exhibition, Contemporary Art Society, UAM
"Collaboration in the arts," Media Arts Department, UNM

Kathryn A. Guscott

Professional meetings and classes attended:

History of Graphics II, January 16-May 4, 2001
Image Permanence workshop, Metropolitan Museum of Art, NYC, March 2001

Professional Activities

Toured conservation laboratories and interviewed conservators at various museums, including the Metropolitan Museum of Art, NYC, the Philadelphia Art Museum, Wintherthur, and the National Gallery of Art in Washington DC, March 2001
Preservation consultant to public and private collectors, July 2000 to June 2001
Guest preparator, "La Luz," National Hispanic Cultural Center of New Mexico, October 2000
Guest preparator, "Nuevo Mexico Profundo," National Hispanic Cultural Center, October 2000

Lectures:

History of Graphics II, spring 2001
Drawing III, spring 2001
Non-silver photo class, spring 2001

Kathleen Stewart Howe

Co-chair, Cultural Studies Committee
Adjunct Associate Professor, Department of Art and Art History
Member, Print Council of America
Member, American Association of Museums
Member, College Art Association
Member, Middle Eastern Studies Association
Member, Society for Photographic Education

Professional meetings and classes attended:

Middle Eastern Studies Association annual meeting, Orlando, Florida, November 2000
Symposium, Aga Khan Program for Islamic Architecture at Harvard University, Cambridge, Massachusetts, Dec. 2000

Teaching:

Art History 531 seminar in Latin American art, The Political Tradition in Graphic Arts, team taught with David Craven, Department of Art and Art History
Supervised independent study course for one graduate student through the Department of Art and Art History, Summer 2001
Served on five MA thesis committees (four Department of Art and Art History, one American Studies); one dissertation committee (Department of Art and Art History); and two Master of Fine Arts committees (studio art in the Department of Art and Art History)
Lectured in UNM classes: History of the Modern Middle East; Photo 1; History of Nineteenth-century Photography, Spring 2001
Gallery and print room talks for Albuquerque Country Day School 3rd graders, and Albuquerque Academy summer art experience

Professional Activities

Coordinator for the Cultural Studies Colloquium series

Lectures: "Decoding the American Lawn," University of New Mexico Art Museum, September 19, 2000
"Theorizing Contact Zones in Nineteenth-century Photography in the Middle East," Cultural Studies Colloquium, September 27, 2000
"Contact Printing the Ottoman Other," for the panel, Representations in the Late Ottoman World, Middle Eastern Studies Association Annual Meeting, Orlando, Florida, November 16-19, 2000
"Geopiety as a Force for Empire: Photography, Geography, and the British Experience in Nineteenth-century Palestine," for the symposium "Photography in the Islamic World" sponsored by the Aga Khan Program for Islamic Architecture at Harvard University and Harvard University Art Museums Cambridge, ,Massachusetts, Dec 8, 2000

Cindy Leyba
Professional meetings and classes attended:
Tapping Your Creativity, August, 2000
Fine Arts Risk Management Loss Control seminar, September, 2000
Mulberry I, UNM workshop, September, 2000
7 Habits of Highly Effective People, October, 2000

Ursula Mines
Member, Museum Store Association
Professional meetings and classes attended:
Purchasing and Accounts Payable Procedures, November 2000
Delegated Purchasing Program Training, November 2000
Management Basics, November 2000
Understanding the FRS Reports, January 2001
Financial/Retirement Planning Workshop, March 2001
Digital Photography, January 16-May 4, 2001
Biology 111, June 4- July 27, 2001

Lee Savary
Professional Meetings and Classes Attended:
Troubleshooting and Maintaining the Macintosh, CompuMaster, November 29, 2000
Awards:
The Albuquerque Arts Alliance "Bravos Award, Best Exhibition of 2000" for "La Luz: Contemporary Latino Art in the United States," National Hispanic Cultural Center of New Mexico
Professional Activities:
Exhibition designer and chief preparator, "El Papel del Papel - The Role of Paper," National Hispanic Cultural Center of New Mexico.
Exhibition designer, "Tourist Icons: Native American Kitsch, Camp, and Fine Art Along Route 66," the Museum of Indian Arts and Culture (Museum of New Mexico), Santa Fe.

Bonnie K. Verardo
Member, Public Art Program, City of Albuquerque, FUNd project
Member, New Mexico Association of Museums
Exhibiting Artist:
The Ray Graham Collection, Albuquerque Museum, Albuquerque, New Mexico August 27-October 1, 2000
Nina Bean Memorial Charity Art Exhibition/Sale, Fine Arts Gallery, State Fair, Albuquerque, New Mexico, May 11-13 2001
Professional activities:
History of Graphic Arts II, Spring Semester 2001 (audited)
Collections Management Specialist, National Hispanic Cultural Center of New Mexico, Visual Arts Department, independent contractor, November 1, 1999-July 31, 2001

Peter S. Walch
No Professional Activities Reported

Robert "Chip" Ware
Member, American Association of Museums and College Art Association
Member, Board of Directors, Stephen Thomas Museum and Archives, Buckhead, Georgia
Professional Meetings and Classes Attended:
UNM Bookholder Training, August, 2000
Fine Arts Risk Management Loss Control Seminar, September, 2000
Annual AAM Meeting, St. Louis, May, 2001

Appendices

A. Personnel

Permanent Staff:

Tyler R. Anderson, Office Assistant	January 8, 1999
Linda Bahm, Associate Director	December 9, 1985
Kelvin Beliele, Administrative Assistant	April 19, 1999
Mark Cattanach, Collection Manager	September 27, 1999
Michael Certo, Curator of Education and Public Programs	April 5, 1999
Kathryn A. Guscott, Conservation Preparator	July 3, 1995
David M. Gutierrez, Museum Shop Manager	September 15, 1998-October 6, 2000
Kathleen S. Howe, Print/Photo Curator	July 11, 1994
Cindy L. Leyba, Administrative Assistant, Jonson Gallery	September 29, 1998
Ursula Mines, Museum Shop Manager	October 2, 2000
Lee Savary, Exhibitions Curator	August 3, 1992
Bonnie K. Verardo, Curator I	November 1, 1995
Peter S. Walch, Director	July 1, 1985
Robert "Chip" Ware, Jonson Gallery Curator	August 7, 2000

Work Study, Student, and Temporary Employees:

Linda K. Brown	October 20, 1998
Erika Burrows	August 28, 2000
Lonnette Butler	June 5, 2000-May 18, 2001
Joanne Carrubba	June 5, 2000-May 18, 2001
Nanibah Chacon	March 8, 1999-August 31, 2000
Kimberly Cleveland	August 20, 1999-August 10, 2001
Leah Cluff	February 12, 2000
Annamarie Cordova	June 8, 2001
Scott B. Davis	July 7, 1998-December 15, 2000
Heather Feeney	August 23, 1999
Carol Gilge	September 2, 1997
Jessamine Greenfield	February 7, 2000
Eric Hall	October 16, 2000-May 18, 2001
Jenna Hinton	June 1, 1999
Homolka, Scott	June 18, 2001-August 10, 2001 (Conservation Research Assistant)
Lussier, Stephanie	June 18, 2001-August 10, 2001 (Conservation Research Assistant)
Shelley Madison	February 21, 2001-August 10, 2001
Darcy Manzo	August 21, 2000-December 15, 2000
Melissa Manzo	August 21, 2000-December 15, 2000
Sara Marion	August 16, 1999-May 18,2001
Rosanna Richardson	October 6, 2000-May 18, 2001
Cody Saxton	February 8, 2000
Portia Sharp	May 22, 2000-July 11, 2000
Julie Anne Sorensen	June 5, 2001
Kevin Spykerman	June 3, 2001
Rhadonna Stark	August 21, 2000-February 9, 2001
Alison Watral	June 8, 2001
Loisia Watson	August 21 2000-May 18, 2001

B. Committees

UNM Art Museum
Advisory Committee
2000-2001

Clinton Adams, Professor Emeritus, Art and Art History, Chair
Peter Walch, Director, UNM Art Museum, Secretary
Thomas A. Dodson, Dean, College of Fine Arts
Roger L. Schuntz, Dean, School of Architecture and Planning
Thomas F. Barrow, Professor, Art and Art History
Van Deren Coke, Professor Emeritus, Art and Art History
Joyce Szabo, Chair, Art and Art History
Nancy Uscher, Acting Associate Provost, Academic Affairs
Susan Mullins, University Auditor
Rebecca Neri Zagal, President, Friends of Art
Sheila Garcia, Community Representative

Jonson Gallery
Sub-Committee on Jonson Collections

Julie Weaks, University Budget Director
Susan Mullins, University Auditor
Joyce Szabo, Associate Professor, Department of Art and Art History

Ex-Officio Members

Peter Walch, Director, UNM Art Museum

Julie Weaks, Susan Mullins, and Joyce Szabo are the Standing Committee of the UNM Museum's Advisory Committee for the Jonson Collection.

Jonson Gallery Group

Penny Rembe
Gail Doyel
Martha Day

Volunteers: Jonson Gallery
David Mahan

Adjunct Curators: UNM Art Museum

Clinton Adams
Thomas F. Barrow
David Craven
Christopher Mead
O. J. Rothrock

C. New Acquisitions

UNM Art Museum:

Abolafia, Oscar
Portrait of Janis Joplin, c. 1967
Gelatin silver print
Museum purchase
2001.21.2

Abrams, Jane
Printer's Proof, 1984
Etching/aquatint
Gift of Peter Eller
2000.41

Baltermants, Dmitri
Grief, 1942
Gelatin silver print
Gift of Paul and Teresa Harbaugh
2000.40.1

Baltermants, Dmitri
Group of 124 photographs
20th century
Various mediums
Gift of Paul and Teresa Harbaugh
2000.38.1-124

Barrow, Thomas F.
Jerry Uelsmann at the Continental Divide, 1969
Gelatin silver print
Gift of Laurie A. and Thomas F. Barrow
2001.5

Bell, Larry
Untitled (from the series *Fractions)*, 2000
Mixed media
Gift of Larry Bell
2000.47

Brandt, Bill
Coal Searcher Coming Home to Jarrow, n.d.
20th century
Gelatin silver print
Gift of Judith Hochberg and Michael P. Mattis
2001.19

Brassai (Gyula Halasz)
Untitled (from the series *Paris by Night*), c. 1930s
Gelatin silver print
Gift of Judith Hochberg and Michael Mattis
2000.23

Brett, Dorothy
Taos Rainbow Drummer, 1942
Oil, wire, crayon on paper
Museum purchase
2001.11

Chalip, Yakiv
Traffic Officer, 1930s
Gelatin silver print
Gift of Paul and Teresa Harbaugh
2000.40.2

Classe, Arnaud
Untitled, (Mont Athos), 1994
Gelatin silver print
Gift of Burt and Jane Berman
2000.31.7

Clift, William
Interior, Lincoln County Courthouse, Lincoln, New Mexico, 1975
Gelatin silver print
Gift of Ann Lawrence Morse
2000.9

Durandelle
Le Nouvel Opera de Paris, n.d.
19th century
Albumen print
Gift of Judith Hochberg and Michael Mattis
2000.22.2-4

Gossage, John
The Stairs, 1984
Board, photograph with handwriting and collage
Gift of Lewis Baltz
2000.31.1

Gossage, John
Water Road, 1984
Board, photograph with handwriting and collage
Gift of Lewis Baltz
2000.31.2

Gossage, John
Nellie's Knook, 1984
Board, photograph with handwriting and collage
Gift of Lewis Baltz
2000.31.3

Gossage, John
Tar Pole, 1984
Board, photograph with handwriting and collage
Gift of Lewis Baltz
2000.31.4

Gossage, John
Boy, 1984
Board, photograph with handwriting and collage
Gift of Lewis Baltz
2000.31.5

Guttenberg, Karl Gottlieb
The Tea-Tax-Tempest or the Anglo-American Revolution, 1778
Engraving on laid paper
Museum purchase
2001.2

Haddock, Arthur
Stockton Slough, 1936
Oil on canvas board
Gift of the Mercer Trust from the John B. Elliott Collections
2001.10.1

Haddock, Arthur
Along the Virgin River, Mt. Carmel, Utah, 1976
Oil on board
Gift of the Mercer Trust from the John B. Elliott Collections
2001.10.2

Hanna, Forman
Group of 21 photographs, c. 1930
Gelatin silver prints
Gift of Joanne and Mark Lemelman
2000.33.1-21

Magritte, Rene
Untitled, n.d.
Posthumous screen print
20th century
Gift of Caroline Lee and Robert Ellis
2000.45

Maiakovsky, Vladimir
Dlia Golosa (For the Voice), 1923
Illustrated book of poems
(lithographs by El Lissitzky)
Friends of Art purchase
2001.20

Mangold, Robert
Untitled, n.d.
20th century
Aquatint (diptych)
Gift of Burt and Jane Berman
2000.31.3

Marville, Charles (published by Blanquart-Evrard)
Portail Principal de la Cathedrale d' Amiens, n.d.
19th century
Salt print
Gift of Judith Hochberg and Michael Mattis
2000.22.1

Motherwell, Robert
Untitled, 1945
Ink wash
Museum purchase
2001.1

ParkeHarrison, Robert
Rain Machine, 1993
Photograph on canvas
Gift of Dana Asbury and Richard Levy
2000.32

Pokorny, Cestmir
They Stop the Walk, 1965
Vintage gelatin silver print
Museum purchase
2001.21.1

Ross, Donald
Group of ten photographs, 1949-1980
Gelatin silver prints
Gift of the Ross Family
2000.27.1-10

Scholder, Fritz
Mystery Woman in Chimayo Coat, 1991
Acrylic on canvas
Gift of Burt and Jane Berman
2000.31.2

Scholder, Fritz
Dead Indian, 1970
Oil on canvas
Gift of Bruce Warren Davis
2000.39

Siskind, Aaron
San Miguel de Allende I, 1955
Gelatin silver print
Gift of Robert Richfield
2000.29

Sprunt, Vera
Auricula I, 2000
Screened photogravure on copper
Gift of Vera Sprunt
2000.26.1

Sprunt, Vera
Auricula II, 2000
Screened photogravure on copper
Gift of Vera Sprunt
2000.26.2

Sprunt, Vera
Auricula III, 2000
Screened photogravure on copper
Gift of Vera Sprunt
2000.26.3

Sprunt, Vera
Auricula IV, 2000
Screened photogravure on copper
Gift of Vera Sprunt
2000.26.4

Teynard, Felix
Untitled, 1851
Salted paper print from paper negative, calotype
Gift of Judith Hochberg and Michael P. Mattis
2001.6

Tuttle, Richard
Homesick as a Nail, 1997
Drypoint etching with silkscreen acetate overlay
Gift of Burt and Jane Berman
2000.31.1

Unknown
Untitled, c. 1910
Photocrome
Gift of Laurie and Thomas F. Barrow
2000.28.1

Unknown
Kyffhauser Monument, c. 1910
Photocrome
Gift of Laurie and Thomas F. Barrow
2000.28.2

Unknown
Untitled, c. 1910
Photocrome
Gift of Laurie and Thomas F. Barrow
2000.28.3

Unknown
Grisons Engadine, The Forno Glacier, Ama de Rosso, c. 1910
Photocrome
Gift of Laurie and Thomas F. Barrow
2000.28.4

Unknown
Great Britain and Ireland, Kenilworth Castle, c. 1910
Photocrome
Gift of Laurie and Thomas F. Barrow
2000.28.5

Various artists
The Art Formerly Known as Prints, 1999
Various media, group of 23 prints and portfolio box, Kansas City Art Institute
Gift of Laurie and Thomas F. Barrow
2000.24.2a-w

Various artists
Group of 31 miscellaneous photographs and one album of ten albumen prints
19th and 20th century
Various mediums
Gift of Joan and Van Deren Coke
2000.44.1 - .31

Various artists
Group of 42 miscellaneous photographs
20th century
Various mediums
Gift of Donald and Alice Lappé
2000.35.1 - .62

Various artists
Group of 61 miscellaneous photographs and one album of 50 studies of paintings
19th and 20th century
Various mediums
Gift of Daniel and Noemi Mattis
2000.35.1 - .62

Various artists
Group of 27 miscellaneous photographs by Leon Levinstein and Michael Smith
20th century
Gelatin silver prints
Gift of Geoffrey and Jacqueline West
2000.36.1-.27

Various artists
Group of 41 lithographs, 1999
The Tamarind Archive Collection
Museum Purchase
2000.48.1-41

Various artists
Group of 33 miscellaneous photographs
19th and 20th century
Various mediums
Museum purchase
2000.43.1-33

Various artists
Group of 4 miscellaneous photographs
19th and 20th century
Various mediums
Museum purchase
2001.16.1-4

Various artists
Group of eleven miscellaneous photographs,
1941-1965
Gelatin silver prints
Museum purchase
2001.18.1-11

Various artists
Group of five photographic items
Various mediums
Museum purchase
2001.7.1a-b and 2001.7.2-.4

Varjabedian, Craig
Penitente Niorada After Early Winter Storm, 1992
Gelatin silver print
Gift of Burt and Jane Berman
2000.31.4

Varjabedian, Craig
Three Crosses, 1993
Gelatin silver print
Gift of Burt and Jane Berman
2000.31.5

Varjabedian, Craig
Approaching Storm, 1994
Gelatin silver print
Gift of Burt and Jane Berman
2000.31.6

Vasa
Untitled, n.d.
20th century
Acrylic plexiglas
Gift of Laurie and Thomas F. Barrow
2000.24.1

Vorisek, Josef F.
Portrait of Josef Sudek, n.d.
20th century
Gelatin silver print
Museum purchase
2000.34

Whaley, Jo
Untitled (Quail and Gourd Nest), n.d.
20th century
Color print
Gift of Fay and Jonathan Abrams
2000.46

Witkin, Joel Peter
Poussin in Hell, 1999
Gelatin silver print
Gift of Joel Peter Witkin
2000.30

Witkin, Joel Peter
Corpus Medius, 2000
Gelatin silver print
Museum purchase
2000.25

Jonson Gallery

Jonson, Raymond
Oil No. 10, 1957
Oil on board
Gift of Frieda Koster Holley
2001.13.1

Leis, Marietta Patricia
Shard No. 31, 2000
Oil on canvas
Gift of Betty Hahn, 2001.4

Mallary, Robert
Landscape, 1957
Mixed mediums
Gift of Frieda Koster Holley
2001.13.2

Pitts, James Ware
Morada, Truchas, 1998
Palladium print
Gift of James Ware Pitt
2001.8.1

Pitts, James Ware
Cross near Chimayo, 1998
Palladium print
Gift of James Ware Pitt
2001.8.2

Pitts, James Ware
Abiquiu Morada, Twilight Mesa, 1989
Palladium print
Gift of James Ware Pitt
2001.8.3

D. Works Deaccessioned

UNM Art Museum

No works deaccessioned in fiscal year 2000-2001

Jonson Gallery
No works deaccessioned in fiscal year 2000-2001

E. Conservation

UNM Art Museum

Medium	Artist	Accession Number
Photograph assemblage	Hopper, Dennis	72.650
Oil on canvas	Krushenick, Nicholas	99.69.8

Jonson Gallery

No works conserved in fiscal year 2000-2001

F. Institutions to Which We Have Loaned Work

UNM Art Museum

Exhibits USA
Kansas City, Missouri
Traveling exhibition from March 1999 to October 2001

Georgia O'Keeffe Museum
Santa Fe, New Mexico

Harwood Museum
Taos, New Mexico

MAK: Austrian Museum of Applied Arts
Stubenring, Austria

Mary Brogan Museum of Art and Science
Tallahassee, Florida

McMichael Canadian Art Collection
Kleinburg, Ontario, Canada
Traveling exhibition from June 2001 to December 2001

Stedelijk Museum
Amsterdam, The Netherlands

University Art Gallery, New Mexico State University
Las Cruces, New Mexico
Traveling exhibition from November 1999 to June 2002

Walker Art Center
Minneapolis, Minnesota
Traveling exhibition from September 1999 to April 2001

Whitney Museum of American Art
New York, New York

Jonson Gallery

No works loaned in fiscal year 2000-2001

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COLLEGE OF ARTS AND SCIENCES

ANNUAL REPORT

July 1, 2000 – June 30, 2001

FRITZ ALLEN, INTERIM DEAN

COLLEGE OF ARTS AND SCIENCES

Annual Report – July 1, 2000 – June 30, 2001

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I. OVERVIEW

The 2000-01 academic year in the College of Arts and Sciences saw increases in student credit hours recorded at both the graduate and undergraduate level consistent with the trend of the past three years.

The ranks of the tenure-stream faculty in the College decreased significantly as twenty two new tenure-track faculty were hired and twenty nine resigned or retired. Funds were budgeted for the College in the Spring of 2001 to provide an average salary increase of 6.0% for faculty returning in 2001-02. Although all funds available to the College for 2001-02 exceed funds available in 2000-01, this increase is insufficient to support several aspects of the College's operations which remain seriously underfunded.

II. ADMINISTRATION

The College's administration in 2000-01 changed compared to 1999-2000. Interim Dean Fritz Allen appointed Wanda Martin as Associate Dean. Dean Martin joined existing Associate Deans Vera Norwood and Kenneth Frandsen on the college staff. Associate Deans of the College accepted individual responsibilities similar to those identified in annual reports covering the previous three years.

Associate Dean Wanda Martin assumed responsibility for the College's student advisement effort and for validation of curriculum changes and graduation requirements. She continued to serve as the College office's liaison with the College's Undergraduate Education Committee and with the College's Graduate Education Committee, and provide oversight of the various scholarly publications that the College supports. During 2001-02, she assumed responsibility for coordinating college-wide outcomes assessment.

Associate Dean Vera Norwood assumed responsibility for various aspects of College administration related to faculty, particularly oversight of the process by which files of individuals being considered for promotion and tenure are prepared, received and reviewed at the College level. She administered requests for sabbatical leaves, the allocation of College funds to support special faculty travel and the allocation of funds to support visiting lecturers and the expenses of professional publications. Also, she served as Area Coordinator for the College's participation in the University United Way Campaign.

Associate Dean Kenneth Frandsen left the college in the Fall of 2000 to assume the duties of Interim Graduate Dean. At this time, Dean Norwood took on issues relating to Affirmative Action and Equal Opportunity and oversight of search and recruitment efforts associated with the appointment of faculty in the College. Dean Martin took on the Summer session management and the liaison to the Evening and Weekend Degree Program.

III. RECENT MAJOR DEVELOPMENTS IN THE COLLEGE OF ARTS AND SCIENCES

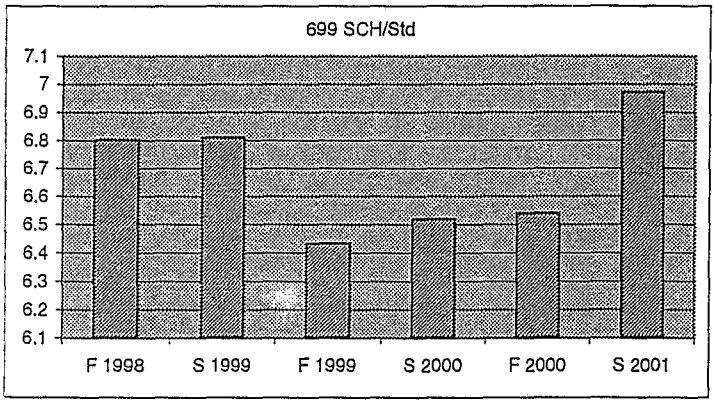
A number of important changes impacted the College of Arts and Sciences in the 2000-2001 academic year. Among these the most important and far-reaching is the search for a permanent Dean for the College. Interim Dean Fritz Allen served during this year but was not a candidate for the permanent position. The search process identified a field of five finalists as candidates. Dean Reed Dasenbrock was selected from this field and joined UNM at the beginning of the current academic year.

This year the college has only three new chairs in its departments. We have been offering workshops to the new chairs on aspects of hiring faculty, dealing with tenure and promotion issues and student grievance and discipline procedures. These sessions have been

well attended and are helping to integrate the new chairs into the cadre of seasoned departmental administrators.

This year the College pressed the chairs to make sure that the doctoral candidate students in their departments were signing up for dissertation. We believe this was responsible for the positive growth in graduate hours for the college. These hours are inexpensive for the students, reward the faculty for duties performed and are valuable in the formula. The particular data and a graph follow.

Semester	699 SCH	# Enrollees
F1998	3489	513
S1999	3357	493
F1999	3153	490
S2000	3220	494
F2000	3191	488
S2001	3360	482



The College also invited the Deans and curriculum administrators for programs centered in A&S areas to campus to meet with their counterparts. This was a first and will become an annual event. It will extend outside the boundaries of A&S and be a UNM initiative.

We have consolidated the debt of the college. We have paid what was owed to the various units. This total was quite substantial and the budget picture at the end of the year gives a true measure of the college fiscal situation. This picture is not especially attractive as the debts paid have greatly depleted the College's resources.

We took advantage of Dick Peck's retirement to initiated a fund raising campaign to create a college endowment. So far we have raised nearly $40,000 for this program. The hiring of two College development officers which is currently proceeding well will greatly impact this amount.

Dean Fischer appointed a committee to help in defining a plan for the optimum operation of the College in an environment with no growth resources. This group helped to define the values of the College and the aspects of departmental activity that should be rewarded. This group along with Interim Dean Allen worked with the A&S chairs to devise a methodology to evaluate the departments in the college on the basis of the quality of their teaching, their research and their contributions to the college mission. Approximately 8% of the raise funds were reserved and these monies were awarded on the basis of the outcome of the evaluation. Although it was somewhat controversial, the college viewed the process as an excellent first start and it will be refined this coming year.

IV. AFFIRMATIVE ACTION

The College continued its efforts to increase the cultural and gender diversity among its faculty during the 2000-2001 AY. Consistent with Regents' policy concerning diversification of search committee membership, all search committees included minority and female members.

Appointments resulting from searches conducted during AY 2000-01, added twenty-two new faculty. Of those appointed, nine are female, three are Hispanic, one is Native American,

one is African American and one is Asian American.

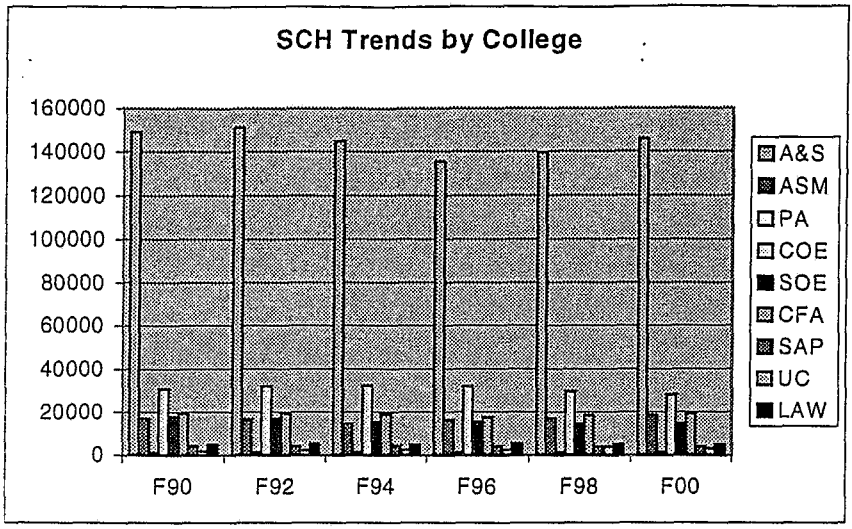
During AY 2000-01, the College continued efforts to ensure equity within the faculty salary structure for members of underrepresented groups and to provide support to those faculty for the purpose of career development at the individual level. The efforts to nurture and develop faculty already at UNM will continue during AY 2001-02.

V. RESEARCH AND SCHOLARLY ACTIVITY

The scholarly and creative achievements of Arts and Sciences faculty that resulted in published works during 2000 are thoroughly documented in the annual volume of Faculty Publications and Creative Works issued by the Office of the Associate Provost for Research. The level of activity both in grant expenditures and new grant awards decreased in AY 2000-01 compared to AY 1999-00 for both Arts and Sciences and UNM. This information is detailed in Table 10.

VI. TEACHING

Summary data on the various aspects of the College's teaching efforts are presented in Tables 5,6,7,8, and 9. This year again, the student credit hour generation of the college increased. This was also true to a small extent at the graduate level. The total student credit hours over the last decade for the various colleges are shown in the plot below.



The increase in SCH for the College is especially significant in view of the continued decline in faculty numbers over the last several years. Faculty productivity in terms of SCH generation is increasing.

VII. SPECIAL PROJECTS AND FUNCTIONS

Advisement and Record Center

Under the supervision of the Associate Dean for Student Academic Affairs, Wanda Martin, the College Advisement Center admits students to the College, advises them and monitors their academic performance (including placing students on probation or suspending them if necessary), and certifies them for graduation. During the report period, the Associate Dean was Wanda Martin. Seven advisors (one half-time) conducted 14,619 personal advisement sessions and handled an approximately equal number of telephone inquiries.

In March 2001, the Center modified its walk-in hours, opening from 9:00 am to 3:00 pm, Monday, Wednesday, Friday and 9:30 am to 3:30 pm on Tuesday and Thursday; often these

hours are utilized for processing, caseworking and phone contacts. In addition to seeing students on a walk-in basis, each advisor is responsible for a student caseload of 934. Advisors also assist with new admittees and transfer students on Saturdays and after hours. All Arts and Sciences athletes are required to make an appointment with an advisor in Arts and Sciences and report to athletic advisement to confirm that the appointment was kept.

In addition to routine matters, the Center handles all student petitions for waivers and the first steps in grievance procedures. Advisors are responsible for all pre-professional advisement.

The advisors continue to assist the Office of the Registrar with Project Progress: a computerized degree audit system. The Associate Dean and advisors met periodically with the Associate Registrar to clarify the rules and academic regulations in the College of Arts and Sciences to implement Progress for our College. The advisors continue to use computers to provide more consistent and efficient advising.

The advisors in Arts and Sciences continue to play a major role in Summer Freshman Orientation and are using trained group leaders to assist in advising students. Advisors meet with the undergraduate group leaders and observe their first sessions with incoming freshman to assure that needs are met within the given timeframe (two days, with limited time for academic advising). Freshman students are brought to Ortega Hall by group leaders on the afternoon of the first day for a presentation by A&S advisors. On the morning of registration, they return having already prepared a tentative schedule with the assistance of a group leader. Throughout the morning the students are brought to the Advisement Center where they meet individually with the advisors, who use the computer to check on availability of courses and assist the student in actually registering for classes using I-TEL UNM. In this way we ensure successful registration for the student's first university schedule.

The Advisement Center office staff helps in the record keeping in advisement by computerizing all the changes in College Curriculum which have been approved and which will be added to the next university catalog.

One or more advisors participated in the following extramural or campuswide advising activities this year:

Welcome Back Days
Senior Day
New Faculty Orientation
Evening and Weekend Orientation Advisement
High School Visitation Day
African American Student Day
American Indian Student Day
Pre-Dental Reception
Spring Orientation for Freshman
Transfer Day
Star Scholar Reception
American Indian Graduation Ceremony
Advisors Networking Group
Academic Retention Meeting
American Indian Retention Meeting
College Enrichment Program

This year the advisors made multiple trips to the following campuses for advisement.

Gallup
Santa Fe Community College
TVI-Albuquerque
TVI-Montoya
Los Alamos
Valencia
Taos

The advisement staff this year consisted of:

Wanda Martin, Associate Dean
Julie Fields, Receptionist
Julie Bustamante, Advisement Co-ordinator
Monique Denzler, Advisement Co-ordinator
Leonor Lucero, Advisor
Mary Lou Wilkerson, Advisor

Advisement staff (continued)

Linda Cicarella, Advisor
Jan Wallentine, Advisor
Randa Gamal, Advisor

College of Arts and Sciences Curriculum

The College Curriculum Committee consists of six Faculty Undergraduate and Graduate Advisors covering the range of disciplinary areas within the College (Humanities, Social Sciences, Natural Sciences and Mathematics). The subcommittee reviews proposals for curricular modification prior to consideration by the Associate Dean or the College faculty (see procedures below).

College of Arts and Sciences Graduate Committee

Charge – The A&S Graduate Committee is responsible for maintaining and enhancing the quality of graduate education in the College. This includes activities related to curriculum change impacting the College, participating as necessary in periodic reviews of instructional programs, reviewing academic advisement procedures as necessary, and considering changes in administrative or academic regulations which affect graduate programs.

Membership – Each of the 20 academic departments in the College designates one faculty representative (voting faculty as defined in the Faculty Handbook) to the A&S Graduate Committee (see Table 2). In addition, three representatives from this Committee (representing Humanities, Social Sciences and Sciences) serve jointly on the Faculty Senate Graduate Committee. The Committee is chaired by Tom Niemczyk (Chemistry).

Activities Related to A&S Graduate Committee – The A&S Subcommittee on Curriculum comprises six appointed members (three members from the A&S Undergraduate and

three from the A&S Graduate Committees). The Subcommittee acts on behalf of the College in curricular concerns as described above. The A&S Subcommittee on Students assists in handling appeals to the College in areas related to graduate student employment in the College. Other types of programmatic changes (e.g., Core Curriculum, College admission/graduation requirements) may be brought to the Committee for discussion/revision/recommendation on an as-needed basis. Members of the Graduate Committee are also called upon as necessary to assist to College selection committees related to graduate programs. Members serve as Departmental contacts when the College distributes information pertaining to graduate issues. The Committee assists in implementing administrative changes impacting graduate programs and graduate students.

College of Arts and Sciences Undergraduate Committee

Charge – The A&S Undergraduate Committee is responsible for maintaining and enhancing the quality of undergraduate education in the College. This includes activities related to curriculum change impacting the College, participating as necessary in periodic reviews of instructional programs, reviewing academic advisement procedures as necessary, and considering changes in administrative or academic regulations which affect undergraduate programs.

Membership – Each of the 20 academic departments in the College designates one faculty representative (voting faculty as defined in the Faculty Handbook) to the A&S Undergraduate Committee (see Table 2). The A&S Undergraduate Committee meets in conjunction with representatives from interdisciplinary degree-granting programs and staff academic advisors within the College. Visitors to the meetings are welcome, and may be called upon to speak to the group as necessary. The Subcommittee on Curriculum provides a brief

report at each meeting.

Activities Related to A&S Undergraduate Committee – The A&S Subcommittee on Curriculum comprises six appointed members (three members from the A&S Undergraduate and three from the A&S Graduate Committees). The Subcommittee acts on behalf of the College in curricular concerns. Forms A (minor changes to existing courses) are handled by the Associate Dean for Student Academic Affairs in consultation with the Subcommittee on Curriculum as necessary. Both the Subcommittee on Curriculum and the Associate Dean for Student Academic Affairs approve Forms B (new courses). Forms C (degree/program changes) are handled in the same fashion, but brought to the entire A&S faculty when necessary. Forms D (new graduate degrees) are brought before the entire A&S faculty after approval by the Subcommittee on Curriculum. Other types of programmatic changes (e.g., Core Curriculum, College admission/graduation requirements) may be brought to the Undergraduate Committee for discussion/revision/recommendation on an as-needed basis. Members of the Undergraduate Committee are also called upon as necessary to assist in College selection committees related to undergraduate programs. Members serve as Departmental contacts when the College distributes information pertaining to undergraduate issues. The Committee assists in implementing administrative changes impacting undergraduate programs (e.g., automated degree audits, transfer articulation, and distance learning).

The Arts and Sciences Undergraduate Committee reviews requests from departments both within and outside the College for curricular degree changes that may impact one or more Arts and Sciences departments. The Committee also met with Kathleen Sena, Associate Registrar and staff from the Office of the Registrar to discuss implementation of Project Progress.

College of Arts and Sciences Curriculum Sub-committee

The Curriculum Sub-committee composed of Charlie Steen (Chair), Steve Huestis, Cliff Dahm, Brad Hall, Ed Fuge, approved 114 Forms A, 10 Forms B, and 24 Forms C.

College Grant Initiatives

New Mexico Collaborative for Excellence in Teacher Preparation

UNM continues as a major partner in the New Mexico Collaborative for Excellence in Teacher Preparation (CETP). Funded by the National Science Foundation in 1997, CETP represents a major investment in the preparation of future K-12 teachers in New Mexico. Centered at New Mexico State University, the Collaborative fosters interactions among institutions of higher learning (UNM, NMSU, ENMU, WNMU, UNM-V, NMHU, NNMCC, Dine College) and their surrounding school districts. In addition, partners include LANL, SNL, UCAN Rural Systemic Initiative, NM-AMP, NM CHE, NM MESA, NM Department of Education, and the New Mexico Partnership for Math and Science Education. The UNM CETP effort is centered in the College of Arts and Sciences, and is involved in all key components of the statewide collaborative, including

- Reform of pre-service teacher curricula in the science and math areas, including Integration of classroom teaching with field experiences (involving Master Teachers from APS).
- Novice teacher support incorporating UNM faculty, Master Teachers, professional Development opportunities, and material resource/loan programs.
- Recruitment/retention of pre-service teachers through scholarships.

UNM/APS Teachers' Institute

The University of New Mexico was awarded an implementation grant for the Albuquerque Teachers' Institute ($380,000 over three years from the DeWitt Wallace-Reader's Digest Fund). During the report period an additional $200,000 was raised from private

foundations and $45,000 from the Federal Eisenhower Program through the Commission of Higher Education. The institute is being modeled after the highly successful Yale-New Haven Teachers' Institute in New Haven, Connecticul. In the Albuquerque Teachers' Institute, College of Arts and Sciences teachers have taken seminars led by nine Arts and Sciences faculty and one from Architecture and Planning. During the seminars, the teachers are colleagues, rather than students, and are paid for their participation. The objectives of the seminars are continuing education in key content areas for teachers and the development of new curriculum units to be used in the public schools and shared with other teachers. Arts and Sciences is assisting with formulating a self-sustaining financial support plan for the Institute through development and legislative efforts.

Pursue Program

The National Aeronautics and Space Administration (NASA) has funded the University of New Mexico (UNM) and its collaborating higher education institutions, i.e., Highland University of New Mexico (NMHU); Albuquerque Technical Vocational Institute (ATVI); and Southwestern Indian Polytechnic Institute (SIPI), to build upon their NASA research to enhance the quality of the Mathematics, Science, Engineering, and Technology (MSET) baccalaureate degree-producing capacity of the University of New Mexico and its collaborating higher education institutions by building upon previous NASA funding. The project focuses on integrating cutting-edge science and technology concepts and practices into relevant areas of the undergraduate curriculum, including into introductory-level courses and laboratories for majors and non-majors. The project also increases participation by faculty and students in projects that both foster collaborative inquiry, and that promote broad and significant improvements to undergraduate teaching and learning, especially of the techniques and methodologies associated

with the conduct of research.

Dean's List – College of Arts and Sciences Honor Roll

The criteria for inclusion on the Dean's List are a semester GPA of 3.75 or higher while enrolled for 12 or more credit hours with letter grades, and a cumulative GPA for UNM coursework of at least 3.25. In Fall 2000, 429 students achieved this honor; in Spring 2001 the number of students was 448. Students who met the criteria for inclusion on the Dean's List received a letter of appreciation and congratulations signed by Dean Allen.

Summer Session

The 2001 Summer Session allocation to the College was slightly less than that of 2000, as detailed in Table 12. Our support of unique summer programs – intensive language institutes, study abroad programs and field schools – continued.

Travel and Special College Funds

The College disbursed about $20,201.19 to faculty in the College for travel expenses to supplement the support provided by departments. It also distributed $7,612.62 to individual faculty to defray the costs of reprints of their scholarly work. In addition, the College provided $4,200.00 to departments to support honoraria for guest speakers. A summary of these distributions appears in Tables 13 and 14.

Research Semester

The A&S Research Semester Program permits faculty selected on a competitive basis to be relieved of formal teaching responsibilities for one semester in order to pursue research activities. Faculty proposals are evaluated according to the applicant's prior research record,

merits of the proposed research, and the applicant's teaching record. After the fall 2000 term, the program was modified to provide three junior awards each semester; one each in the Humanities, Social Sciences and Sciences. The modification represented the dean's commitment to providing more research resources for junior faculty as they near their tenure decision date. Awards in fall 2000 were made to Don Duszynski (Biology), Jill Morford (Linguistics), Richard Wood (Sociology). The spring 2001 awards went to Pamela Cheek (Foreign Languages and Literatures), Richard Cripps (Biology) and Randall Partin (Political Science).

Development Efforts

In 2000-01, the College of Arts and Sciences received gifts totaling $2,106,757 in 1,542 transactions, confirming that an annual base of support over $2,000,000 is reasonable for the College. The bulk of these contributions went directly to the various departments. Interim Dean Allen created an Endowment to support teaching and research activities in the college. The College took advantage of the retirement of President Richard Peck and his large number of friends and acquaintances to honor his retirement with a luncheon. The luncheon raised nearly $40,000 for the new endowment.

The Arts and Sciences Dean's Council is in the process of gearing up for major cultivations for the newly created Arts and Sciences Endowment which is needed to help support the efforts of our faculty and students in teaching and research. The Council now consists of

Connie Beimer
Diane Denish
Robert J. Eagan
Felice G. Gonzales
Robert M. Goodman
Allen Hartford
James Hinton
Eric D. (Rick) Johnson
Janeth Mattox
Doris Rhodes
Vangie Samora

VIII. DEPARTMENTAL REPORTS

Detailed reports on activities in the twenty departments comprising the College of Arts and Sciences are forwarded along with this College report.

TABLE 1

CHAIRPERSONS AND INTERDEPARTMENTAL PROGRAM DIRECTORS, 2000-2001

AMERICAN STUDIES
Gabriel Melendez

ANTHROPOLOGY
Marta Weigle

BIOLOGY
Kathryn Vogel

CHEMISTRY
Tom Niemczyk

COMMUNICATION & JOURNALISM
Brad Hall

EARTH & PLANETARY SCIENCES
Les McFadden

ECONOMICS
Richard Santos

ENGLISH
Scott Sanders

FOREIGN LANG & LITERATURES
Monica Cyrino

GEOGRAPHY
Paul Matthews

HISTORY
Richard Robbins

LINGUISTICS
Joan Bybee

MATHEMATICS & STATISTICS
Ronald Schrader

PHILOSOPHY
Russell Goodman

PHYSICS & ASTRONOMY
John McIver/Marc Price (Actg)

POLITICAL SCIENCE
Neil Mitchell

PSYCHOLOGY
Michael Dougher

SOCIOLOGY
Susan Tiano

SPANISH & PORTUGUESE
Anthony Cardenas

SPEECH & HEARING SCIENCES
Amy Wohlert

INTERDEPARTMENTAL PROGRAMS

ASIAN STUDIES (minor, major)
Ted Sturm

BIOCHEMISTRY (major)
William Anderson

COMPARATIVE LITERATURE
(minor, major)
Diana Robin/Pamela Cheek

CRIMINOLOGY
(minor, major)
Paul Steele, Lisa Broidy,
Bert Useem

ECONOMICS-PHILOSOPHY (major)
Russell Goodman

ENGLISH-PHILOSOPHY (major)
Barbara Hannan

EUROPEAN STUDIES (minor, major)
Stephen Bishop

LATIN AMERICAN STUDIES
(Ph.D) William Stanley

ITALIAN STUDIES (minor)
Rachele Duke

RELIGIOUS STUDIES (minor,
major) Andrew Burgess

MEDIEVAL STUDIES (minor)
Helen Damico

SCIENCE, TECH & SOCIETY
(minor) Ron Reichel

PEACE STUDIES (minor)
Ted Sturm

WOMEN STUDIES (minor)
Cheryl Learn

QUARTERNARY STUDIES (minor)
Les McFadden

SOCIAL WELFARE (minor)
Richard Coughlin

RUSSIAN STUDIES & EAST EUROPEAN
STUDIES (minor, major)
Natasha Kolchevska

AFRI-AMER STUDIES (minor,
major) Shiame Okunor

TABLE 2

STANDING & SPECIAL COMMITTEES
COLLEGE OF ARTS AND SCIENCES, 2000-01

A&S Graduate Committee

William Stanley, Latin Am St, (Chair)
Ruth Salvaggio, American Studies
Carol Nagengast, Anthropology
Randy Thornhill, Biology
Cary Morrow, Chemistry
John Oetzel, Communication & Journalism
Adrian Brearly, Earth & Planetary Sciences
John Geissman, Earth & Planetary Sciences
Stu Burness, Economics
Gail Houston, English
Brad Cullen, Geography
Patricia Risso, History
Melissa Axelrod, Linguistics
Alejandro Aceves, Mathematics & Statistics
Amy Schmitter, Philosophy
Christine Sierra, Political Science
Tim Goldsmith, Psychology
Richard Wood, Sociology
Kim Lopez, Spanish & Portuguese
Bopanna Ballachanda, Speech & Hearing Sciences

A&S Undergraduate Committee

Wanda Martin, A&S (Chair)
Vera Norwood, American Studies
James Boone, Anthropology
Steve Stricker, Biology
Mark Ondrias, Chemistry
Mike McDevitt, Communication & Journalism
Laura Crossey, Earth & Planetary Sciences
Steve Huestis, Earth & Planetary Sciences
Phil Ganderton, Economics
Mary Power, English
Deborah Jenson, Foreign Lang & Lit
Jerry Williams, Geography
Charlie Steen, History

TABLE 2 (continued)

Melissa Axelrod, Linguistics (Fall)
Garland Bills, Linguistics (Spring)
Jim Ellison, Mathematics & Statistics
John Taber, Philosophy
Ellen Grigsby, Political Science
Harold Delaney, Psychology
Robert Fiala, Sociology
Tey Diana Rebolledo, Spanish & Portuguese
Linda Bivins, Speech & Hearing Sciences

A&S Junior Faculty Promotion and Tenure Committee

Alejandro Aceves, Mathematics & Statistics (Chair)
Paul Amrhein, Psychology
Susanne Baackmann, FL&L
Beth Bailey, American Studies
Brad Cullen, Geography
Russell Goodman, Philosophy
Martin Kirk, Chemistry
Mary Ann Nelson, Biology
John Roberts, Sociology
Jane Selverstone, Earth & Planetary Sciences
William Stanley, Political Science
Hugh Witemeyer, English

A&S Senior Faculty Promotion and Tenure Committee

Barry Kues, Earth & Planetary Sciences (Chair)
Ed Bedrick, Mathematics & Statistics
Steve Gangestad, Psychology
Hillard Kaplan, Anthropology
David Ligon, Biology
Tony Marquez, English
Deborah McFarlane, Political Science
Marcus Price, Physics & Astronomy
Diana Robin, FL&L
Jan Schuetz, Communication & Journalism
Jane Slaughter, History
Bert Useem, Sociology

TABLE 2 (continued)

Melissa Axelrod, Linguistics (Fall)
Garland Bills, Linguistics (Spring)
Jim Ellison, Mathematics & Statistics
John Taber, Philosophy
Ellen Grigsby, Political Science
Harold Delaney, Psychology
Robert Fiala, Sociology
Tey Diana Rebolledo, Spanish & Portuguese
Linda Bivins, Speech & Hearing Sciences

A&S Junior Faculty Promotion and Tenure Committee

Alejandro Aceves, Mathematics & Statistics (Chair)
Paul Amrhein, Psychology
Susanne Baackmann, FL&L
Beth Bailey, American Studies
Brad Cullen, Geography
Russell Goodman, Philosophy
Martin Kirk, Chemistry
Mary Ann Nelson, Biology
John Roberts, Sociology
Jane Selverstone, Earth & Planetary Sciences
William Stanley, Political Science
Hugh Witemeyer, English

A&S Senior Faculty Promotion and Tenure Committee

Barry Kues, Earth & Planetary Sciences (Chair)
Ed Bedrick, Mathematics & Statistics
Steve Gangestad, Psychology
Hillard Kaplan, Anthropology
David Ligon, Biology
Tony Marquez, English
Deborah McFarlane, Political Science
Marcus Price, Physics & Astronomy
Diana Robin, FL&L
Jan Schuetz, Communication & Journalism
Jane Slaughter, History
Bert Useem, Sociology

TABLE 3

Changes in status of tenure-stream faculty in the College of Arts and Sciences: Decisions reached in AY 1999-00 to take effect in AY 2000-01.

Promotions to Full Professor

Aceves, Alejandro	Mathematics & Statistics	Promotion
Bussanich, John	Philosophy	Promotion
Duncan, Robert	Physics & Astronomy	Promotion
Guo, Hua	Chemistry	Promotion
Gutzler, David	Earth & Planetary Sciences	Promotion
Garrison, Gary	English	Promotion
Nagengast, Carole	Anthropology	Promotion
Risso, Pat	History	Promotion
Smith, Jane	Psychology	Promotion
Wills, Chip	Anthropology	Promotion

Promotions to Associate Professor and Award of Tenure

Atkeson, Lonna	Political Science	Tenure/Promo
Deutsch, Ivan	Physics & Astronomy	Tenure/Promo
Huzurbazar, Aparna	Mathematics & Statistics	Tenure/Promo
Johnson-Sheehan, Richard	English	Tenure/Promo
Kapitula, Todd	Mathematics & Statistics	Tenure/Promo
Kidd, Michael	Spanish & Portuguese	Tenure/Promo
Maloof, Judy	Spanish & Portuguese	Tenure/Promo
Milleret, Margo	Spanish & Portuguese	Tenure/Promo
Pereyra, Cristina	Mathematics & Statistics	Tenure/Promo
Powell, Joseph	Anthropology	Tenure/Promo
Brearly, Adrian	Earth & Planetary Sciences	Tenure Only
Sharp, Zachary	Earth & Planetary Sciences	Tenure Only

Positive Third-Year Reviews

Brozik, James	Chemistry	Mid-Probationary
Cripps, Richard	Chemistry	Mid-Probationary
Gauderman, Kimberly	History	Mid-Probationary
Gregory, Kirk	Geography	Mid-Probationary
Liedka, Ray	Sociology	Mid-Probationary

Third-Year Reviews (continued)

Lopez, Miguel	Spanish & Portuguese	Mid-Probationary
McDevitt, Michael	Communication & Journalism	Mid-Probationary
Nakamaya, Michael	Mathematics & Statistics	Mid-Probationary
Oakdale, Suzanne	Anthropology	Mid-Probationary
Poutkaradze, Vackhtang	Mathematics & Statistics	Mid-Probationary
Smith, Caroline	Linguistics	Mid-Probationary
Turner, Tom	Biology	Mid-Probationary
Wagner, Andreas	Biology	Mid-Probationary

2000-01 New Appointments

Balas, Glenda	Communication & Journalism
Brau, Lorna	Foreign Languages & Literatures
Butler, Christopher	Political Science
Cadavid, Luis	Biology
Cobb, Amanda	American Studies
Eddington, David	Spanish & Portuguese
Engen, John	Chemistry
Fields, Douglas	Physics & Astronomy
Jussawalla, Feroza	English
Kemp, Richard	Chemistry (.50)
Lopez, Nancy	Sociology
Martin, Gregory	English
McDermott, Virginia	Communication & Journalism
Miller, Geoffrey F.	Psychology
Mueller, Daniel	English
Neel, Amy	Speech & Hearing Sciences
Obermeier, Anita	English
Sandoval-Strausz, Andrew	History
Thompson, Ayanna	English
Wadsworth, Tim	Sociology
Warburton, Timothy	Mathematics & Statistics
Witherington, David	Psychology

Resignations/Retirements (effective 2000-01)

Bills, Garland	Linguistics (.50)
Bills, Garland	Spanish & Portuguese (.50)
Bukowski, Art	Mathematics & Statistics
Cameron, Laura	Mathematics & Statistics
Colbert, James	English
Etulain, Richard	History

Resignations/Retirements (continued)

Furno-Lamude, Diane (Deceased)	Communication & Journalism
Gibson, Archie	Mathematics & Statistics
Gonzales, Nancy	Mathematics & Statistics
Gwin, Minrose	English
Hampton, Philip	Chemistry
Jenkins-Smith, Hank	Communication & Journalism
Mares, E.A.	English
Merkx, Gil	Sociology
Nagel, Jennifer	Philosophy
Phelan, Shane	Political Science
Porter, Eric	American Studies
Remmer, Karen	Political Science
Salvaggio, Ruth	American Studies
Slavin, Gerald	Sociology
Stansbury, Kathy	Psychology
Sutherland, Rob	Psychology
Taylor, Frederick	Biology
Tennenbaum, Sergio	Philosophy
Waterman, Rick	Political Science
Waters, Claire	English
Whidden, Mary Bess	English
Wolfe, David	Physics & Astronomy
Wolfsy, Carla	Mathematics & Statistics
Zannes, Estelle	Communication & Journalism

TABLE 4

FTE BUDGETED FACULTY, 2000-01

Department	Regular Faculty	Residual Instruction	GAs/TAs
American Studies	5.50	.11	3.00
Anthropology	24.30	.11	7.25
Biology	33.09	.11	21.25
Chemistry	16.50	.87	16.00
Comm & Journalism	16.00	1.67	8.50
Earth & Planetary Sciences	16.67	.11	6.50
Economics	13.48	.09	6.25
English	31.25	3.13	29.50
For Lang & Lit	12.00	.09	7.75
Geography	7.00	.09	1.50
History	23.67	.09	11.00
Linguistics	8.90	.09	2.00
Mathematics & Statistics	36.16	1.79	21.00
Philosophy	8.00	.09	3.50
Physics & Astronomy	28.19	1.44	12.00
Political Science	16.83	.09	5.50
Psychology	19.34	.11	12.25
Sociology	15.04	.11	7.00
Spanish & Portuguese	15.17	.11	18.00
Speech & Hearing Sciences	5.00	.09	1.00
Total	352.09	10.00	200.75

Data Source: College of Arts and Sciences Instructional Budget, 2000-01

TABLE 5

NUMBER OF STUDENTS ENROLLED COLLEGE OF ARTS AND SCIENCES

Year	Semester I	% Inc. Over Previous Year	Semester II	% Inc. Over Previous Year
1991-92	4,434	4.2	4,598	4.6
1992-93	4,720	6.4	4,813	4.6
1993-94	5,048	6.9	5.041	4.7
1994-95	4,564	-9.5	4,643	-7.8
1995-96	4,195	-8.08	4,166	-10.2
1996-97	4,056	-3.31	4,181	3.6
1997-98	4,129	1.79	4,132	-1.17
1998-99	4,112	-0.41	4,218	2.08
1999-00	4,019	-2.26	3,957	-6.18
2000-01	3,853	-4.13	3,967	0.25

Data Source: Arts and Sciences Registered Students Listing – 21 day report

TABLE 6

DEGREES AWARDED
COLLEGE OF ARTS AND SCIENCES

	Bachelor's Degrees		Advanced Degrees					
Year Inc.	No. Degree	% Inc. Over Prev. Yr.	Masters' (a) No.	% Inc.	Doctor's No.	% Inc.	Total No.	%
1992	856	2.3	226	42.1	74	1.4	300	29.3
1993	905	5.7	205	-9.3	75	1.4	280	-6.7
1994	1020	12.7	236	15.1	82	9.3	318	13.6
1995	1133	11.1	229	-2.5	85	3.7	314	-1.3
1996	1005	-11.2	275	20.1	96	10.6	371	18.2
1997	1193	18.7	224	-18.5	72	-25.0	296	-20.2
1998	1065	-10.7	222	-0.9	84	16.7	306	3.4
1999	1076	1.0	193	-13.1	96	14.3	289	-5.8
2000	1055	-2.4	206	6.7	88	-8.3	294	1.7
2001	979	-7.2	178	-13.6	69	-21.6	247	-16.0
10 Year Change	142	17.0	-48	-21.0	-5	-6.8	-53	-17.7

(a) These figures do not include Master of Arts in Teaching and Master of Education in Science degrees.

Data Sources: Bachelors taken from A&S final graduation lists. Advanced degrees taken from Graduate Studies final graduation lists.

TABLE 7

MAJORS AWARDED BY DEPARTMENT*

Department	Bachelor's			Master's			Doctoral		
	1999	2000	2001	1999	2000	2001	1999	2000	2001
Af Am	-	1	-	-	-	-	-	-	-
Am St	11	7	15	0	4	4	1	7	4
Anthro	35	52	50	13	17	18	10	9	8
Astroph	2	1	7	-	-	-	-	-	-
Biochem	6	19	20	-	-	-	-	-	-
Biology	196	187	221	15	7	6	13	6	4
Chem	23	20	17	9	9	9	10	3	2
C&J	63	69	63	15	6	11	2	7	6
Comp Lit	0	1	1	5	1	4	-	-	-
Crim	87	86	64	-	-	-	-	-	-
Econ	1	39	22	0	6	3	0	2	3
Econ-Phil	1	1	0	-	-	-	-	-	-
English	115	98	98	13	18	10	13	7	13
Engl-Phil	5	1	2	-	-	-	-	-	-
Geog	15	12	10	6	9	7	-	-	-
E&PS	16	15	13	6	4	6	5	2	2
Hist	61	69	57	5	13	6	7	11	5
Jour/Mas Com	77	62	62	-	-	11	-	-	2
Ling	2	5	0	5	5	4	-	2	-
LAS	13	11	13	20	13	13	5	0	-
Math & St	20	16	24	14	13	10	8	1	1
FL&L	17	21	22	5	4	8	3	0	1
Phil	11	5	10	6	4	2	1	3	-
Physics	4	11	7	11	9	7	6	7	3
Pol Sci	81	66	59	2	2	-	1	7	-
Psych	167	226	183	8	8	12	5	9	7
Rel St	5	4	4	-	-	-	-	-	-
Russian St	-	-	1	-	-	-	-	-	-
Sign Lng Int	5	8	6	-	-	-	-	-	-
Socio	53	56	39	5	8	3	1	-	-
Sp & Port	48	59	65	12	11	6	5	5	7
SHS	29	26	14	31	29	29	-	-	-
Women St	-	-	3	-	-	-	-	-	-
Other Prg	-	21	26	-	-	-	-	-	-
Total (3)	1199	1275	1187	212	206	178	104	88	69

TABLE 7 (continued)

1
Includes both Spanish and Romance Language Ph.D.s.

2
Bachelor's degrees granted with double majors are counted once in each department, so this total will not agree with Table 6.

*Includes summer, fall and spring graduates.

Data Sources: Bachelors from A&S final graduation list. Advanced degrees from current student data warehouse.

TABLE 8

ACADEMIC PROBATIONS, SUSPENSIONS AND RELEASES

	1996-97		1997-98		1998-99		1999-00		2000-01	
	No.	%	No.	%	No.	%	No.	%	No.	%
Semester I										
On Probation	141	9.30	150	6.38	149	.66	113	-24.16	88	-22.12
Suspended	40	-28.50	37	-7.50	42	13.50	54	28.57	41	-24.07
Released	29	-43.10	40	37.90	56	40.00	50	-10.71	37	-26.00
Semester II.										
On Probation	98	-11.7	103	5.10	110	6.79	75	-31.81	85	+13.33
Suspended	69	35.2	66	-4.34	78	18.10	61	-21.79	43	-29.50
Released	37	-31.4	57	54.05	62	8.77	46	-25.80	34	-26.08

Number of Students Enrolled in Arts and Sciences

Semester I, 2000-01	3853
Semester II, 2000-01	3967

TABLE 9

DEGREES GRANTED WITH HONORS*

Honors in General Studies

Summa Cum Laude	15
Magna Cum Laude	26
Cum Laude	11

Departmental Honors

Anthropology	10
Astrophysics	3
Biochemistry	7
Biology	12
Earth & Planetary Sci	3
English	2
History	6
Professional Writing	1
Psychology	6
Spanish	3

Initiated into Phi Beta Kappa	85
Initiated into Phi Kappa Phi	73

* Requirements completed Summer 2000; Semester I, 2000-01; Semester II, 2000-01

TABLE 10

NEW RESEARCH AND TRAINING GRANTS, 2000-01
(Tenure Track and Research Faculty)

Department	Dollars	Number of Faculty	Number of Grants
Anthropology	$ 706,985	12	17
Arts & Sciences	20,000	1	1
Biology	8,483,302	38	104
Center for Advanced St	359,316	2	3
Chemistry	1,318,751	16	23
Comm & Journ	10,000	1	1
Contract Archeology	631,097	2	26
Earth & Planetary Sci	1,364,521	12	28
Economics	256,912	2	4
English	189,688	4	8
History	14,223	2	2
Linguistics	273,725	4	5
Math & Stats	828,893	10	13
Maxwell Museum	63,682	5	6
Meteoritics	636,534	3	7
Physics & Astronomy	6,697,885	22	53
Political Science	513,289	5	10
Psychology	3,702,134	11	19
Sociology	1,313,051	4	21
Speech & Hearing	161,177	1	2
Total	$27,545,165	157	353

TABLE 11

BUDGETED GAs/TAs, RESEARCH AND PROJECT ASSISTANTS, 2000-01

Departments	GAs & TAs	RAs & PAs
African-American Studies	0	0
American Studies	25	0
Anthropology	38	5
Arts & Sciences	0	0
Biology	53	47
CASAA	0	21
CFAR	0	20
Chemistry	42	47
CHTM	0	1
Comm/Journalism	41	2
Earth & Planetary Sci	23	31
Economics	24	9
English	60	6
Foreign Lang & Lit	24	0
Geography	4	6
History	25	2
Institute of Meteoritics	0	2
Institute for Public Pol	0	0
Institute for Soc Research	0	13
Linguistics	15	5
Mathematics & Statistics	50	10
NM Hist Review	0	6
Philosophy	9	1
Physics & Astronomy	45	45
Political Science	12	1
Psychology	45	17
Sociology	29	0
Spanish & Portuguese	47	0
Speech & Hearing Sci	9	1
Women Studies	11	0
Community Medicine	0	1
CHNE	0	1
HPCERC	0	0
EDAC	0	6
TOTAL	631	306

TABLE 12

SUMMER SESSION DATA, 2000 AND 2001

Department	Final 2000 Figures Allocation	%	Final 2001 Figures Allocation	%
American Studies	$ 11,132	1.20	$ 7,106	0.88
Anthropology	58,905	6.34	74,771	9.21
Biology	34,775	3.74	26.025	3.20
Chemistry	63,926	6.88	49,246	6.06
Comm/Journalism	40,365	4.34	49,428	6.09
Earth & Pl Science	28,993	3.12	24,495	3.02
Economics	29,075	3.13	24,625	3.03
English	78,749	8.47	89,848	11.06
Foreign Lang & Lit	11,770	1.27	29,655	3.65
Geography	9,585	1.03	8,570	1.06
History	32,310	3.48	23,975	2.95
Linguistics	17,734	1.91	14,465	1.78
Mathematics & Stats	108,045	11.62	119,343	14.70
German	31,000	3.33	31,000	3.82
French	18,000	1.94	29,655	3.65
Philosophy	18,770	2.02	17,540	2.16
Physics & Astronomy	24,273	2.61	20,285	2.50
Political Science	24,170	2.60	24,525	3.02
Psychology	42,725	4.60	24,900	3.07
Sociology	36,485	3.92	33,729	4.15
Spanish & Portuguese	40,940	4.40	44,393	5.47
Speech & Hearing Sci	30,676	3.30	15,650	1.93
Women Studies	9,770	1.05	11,655	1.44
Afr-Am Studies	17,600	1.89	22,655	2.79
International Programs	42,900	4.61	17,172	2.11
Nat Science	7,000	0.75	7,000	0.86
TOTAL	$929,673	100.00	$812,056	100.00

TABLE 13

A&S TRAVEL DISBURSEMENTS, 2000-01

Department	General/Departmental Allocations	Special Request Allocations
American Studies	$ 3,195.00	$ 0
Anthropology	10,650.00	1,420.00
Biology	15,975.00	1,881.51
Chemistry	10,650.00	0
Comm & Journalism	8,520.00	1,180.50
Earth & Planetary Sci	5,325.00	0
Economics	9,585.00	400.00
English	19,170.00	596.00
Foreign Lang & Lit	5,325.00	3,112.50
Geography	2,000.00	0
History	12,780.00	158.00
Linguistics	5,325.00	2,121.50
Mathematics & Stats	14,900.00	1,275.00
Philosophy	5,325.00	2,472.00
Physics & Astronomy	15,440.00	1,705.00
Political Science	13,845.00	0
Psychology	11,610.00	800.00
Sociology	9,585.00	677.00
Spanish & Portuguese	7,455.00	2,002.19
Speech & Hearing Sci	2,130.00	400.00
Women Studies	1,750.00	0
TOTAL	$190,540.00	$ 20,201.19

TABLE 14

A&S DISBURSEMENTS OF SPECIAL COLLEGE FUNDS
2000-2001

Department	Reprint Funds	Speakers' Honoraria
Arts & Sciences	$ 0.00	0.00
American Studies	464.34	300.00
Anthropology	362.50	0.00
Biology	0.00	0.00
Chemistry	0.00	0.00
Communication & Journalism	0.00	0.00
Earth & Planetary Sciences	300.00	0.00
Economics	198.00	0.00
English	1,039.48	700.00
Foreign Lang & Lit	580.70	300.00
Geography	0.00	0.00
German	285.17	0.00
History	759.57	150.00
Latin Amer Inst & Sales	0.00	0.00
Linguistics	0.00	0.00
Mathematics & Statistics	75.00	500.00
Philosophy	268.50	950.00
Physics & Astronomy	300.00	0.00
Political Science	644.58	0.00
Psychology	765.00	0.00
Sigma Xi	0.00	400.00
Sociology	221.65	300.00
Spanish & Portuguese	1,348.13	0.00
Speech & Hearing Sci	0.00	600.00
Women Studies	0.00	0.00
TOTAL	$ 7,612.62	$ 4,200.00

Assistant Professor Eric Porter

In his second year at UNM, Professor Eric Porter continued the work of building African-American intellectual history and public discourse into the American Studies curriculum at the graduate and undergraduate level. Two of his four courses this academic year (Pro-Seminar in American Culture, 500 and Racial Formation, 553) qualify as graduate seminars and have helped the department meet a continuing need for seminars in the program. Professor Porter also developed and taught African American Film, 357/557 in the spring semester. Student interest in Professor Porter's courses has resulted in acceptable enrollment numbers across the board.

Professor Porter's book manuscript *Thinking through Music* passed a second round of revisions at the University of California Press, with the book set to appear in print in the fall of 2001. This year Professor Porter completed "Its About That Time: The Response to Miles Davis' Electric Turn," a chapter-length article accepted for publication in a forthcoming anthology from the Missouri Historical Society Press. Professor Porter presented his work on Miles Davis at the annual meeting of the Organization of American Historians. Prof. Porter continues to research a second book project on black popular science with funding from a RAC grant. In his second year in the department Prof. Porter was active in graduate admissions, curriculum development and faculty searches. He continues to serve as Rocky Mountain regional representative to the American Studies Association and was a member of the planning committee that organized a regional meeting of the Rocky Mountain American Studies Association in Reno, NV in May, 2001.

Associate Professor Beth Bailey

Professor Bailey is Regents' Lecturer in American Studies. Professor Bailey continues to add teaching strength to the Popular Culture and Gender concentrations in American Studies. In the fall of 2000 she added Am. St. 341/541 "Gender and Film" to the cadre of courses she routinely offers in the department. Also in the fall, she co-taught Am. St. 500, the "Pro-Seminar in American Culture." She chaired two dissertation committees and was a member of three more Ph.D. committees in American Studies. This year she directed an MA thesis and was a member of three other MA committees. She serves on several other committees-on-studies, inside and outside of the department.

In addition to a brief article and two book reviews published in 2000, Professor Bailey saw her article "Strangers in a Strange Land" reprinted in the 3rd edition of *True Stories from the American Past*, a volume edited by William Graebner. Professor Bailey has a book (co-authored with David Farber) titled, *The Columbia Companion to America in the 1960s*, at press at Columbia University; two chapter-length articles forthcoming in edited volumes and she has four ongoing research projects at various stages of completion. Professor Bailey chaired a session at the meeting of the American Historical Association, which met in Chicago in January 2000. In October 2000 Professor Bailey was asked to be the commentator for the "Rethinking the Sexual Revolution Session" a panel presentation made at the annual meeting of the American Studies Association in Detroit MI. Professor Bailey is active in professional organizations in History and American Studies. In the past year she was asked to be a manuscript referee for the *American Quarterly*, for Peter Lang Publishers and for Columbia University Press.

Professor Vera Norwood

Professor Norwood's duties over the 2000-2001 academic year have been split between her appointment in American Studies and her post as Associate Dean in the College of Arts and Sciences. In the fall of 2000, Professor Norwood undertook a major revision of Am. St. 485 (the Senior Seminar) the department's capstone course for undergraduate majors and minors. As a result of her assessment and recommendations, the department made important policy and curricular modifications that have enhanced the learning experience of American Studies undergraduates. The effects of this work became apparent in the spring when Professor Norwood taught the course and implemented the changes. By all measures, including high student evaluations for the spring semester, the capstone course is now a more productive and enjoyable class.

Professor Norwood maintains an active program of research and publication in her field of endeavor. She had two critical book reviews published in 2000. She was invited to submit an article to the *Pacific Historical Review*, and was asked to write the forward for a monograph on American women nature writers to be published by University of New England Press. She was also asked by UNM history professor Virginia Scharff to contribute a chapter on environmental history and gender for a volume to be published by the University of Kansas Press. In March she chaired a session at the annual meeting of the American Society of Environmental History held in Tacoma, Washington. In the spring of 2001, Professor Norwood was awarded a major RAC research grant to carry to out research on the stewardship of native plants in the United States. The award signals the RAC committee's confidence and commitment to Professor Norwood's endeavor in a new area of scholarship.

Professor Norwood continues to be active in all aspects of the graduate and undergraduate curriculum. As Undergraduate Advisor, Professor Norwood has been particularly effective in improving our undergraduate curricula and in increasing the number of majors and minors in the department. She remains a key member of the Arts and Science faculty and continues to assist with the development of major initiatives and programs for the College. The activities highlighted here show her to be a productive member of the faculty.

Professor Ruth Salvaggio

Until her departure, Professor Ruth Salvaggio continued to center her teaching and research on Gender and Cultural Studies. Professor Salvaggio chaired (9) Ph. D. dissertation committees and co-chaired (2) in American Studies. She is a committee member on several more committees inside and outside American Studies. Professor Salvaggio placed the chapter, 'Kizer's Politics: Poetry and Feminism," in *Carolyn Kizer: Perspectives on Her Life and Work*, a collection published by CavanKerry Press. The previously published article "Octavia Butler and the Black Science Fiction Heroine," was reprinted in an issue on contemporary authors published by Gale Press. Professor Salvaggio served as the department's Graduate Advisor for the 2000-2001 academic year.

Professor Jane Young

Professor Young is Regents' Lecturer in American Studies. Her ongoing teaching and research areas continue to be Gender Studies, Ethnoastronomy, American Food ways and Rituals/Festivals in the Southwest. In the fall of 2000, Prof. Young offered Am. St. 511.001 "American Material Culture: The Meaning and Life of Things," and Am. St. 285 "Work in America." In the spring of 2001 Professor Young was on sabbatical leave. She

chairs a large number of dissertations, fifteen alone in American Studies and she is a member on 8 more dissertation committees. Professor Young brought four dissertations to successful completion in the past academic year.

Professor Young has three chapter-length articles accepted or soon to be published as collaborations with experts in her field of research. Professor Young continues the work of co-editing *Songs From the Sky: Indigenous Astronomical and Cosmological Traditions of the World,* which is slated for publication at the University of Maryland's Center for Archaeoastronomy in 2001. *The Multicultural Southwest: A Contemporary Reader* co-edited with Gabriel Meléndez, Patrick Pynes and Patricia Moore is forthcoming from the University of Arizona Press. Professor Young was active this year as a consultant to an NEH/NSF funded project to create a portable planetarium show about Native American Sky Traditions and has been a consulting editor for *Archaeoastronomy,* the journal of the Center for Archaeoastronomy. This year she served as a manuscript referee for University of Kentucky Press.

Professor Young continues to be an active and contributing faculty member. In the past year she took on the additional work of serving as a member on two ad hoc faculty search committees. In the summer of 2000 she was a member of the committee for a visiting Native Americanist position in American Studies. In the fall and spring she was a member of the search committee for a Native American museum studies specialist in the Department of Art and Art History. Professor Young serves as a consultant to several region-wide groups. She is on the Zuni Tribal Museum Committee, the Park Service Advisory Committee for the Petroglyph National Monument and the Advisory Board of the White Mesa Institute at the College of Eastern Utah.

Chair, A. Gabriel Meléndez

Professor Gabriel Meléndez's ongoing teaching and research areas continue to be in Cultural Autobiography/Biography, Chicano/Latino Film Studies, Hispanic Southwest and Border Culture. In the fall, at the faculty's recommendation and with the approval of the Dean of Arts and Sciences, Professor Meléndez became Chair of American Studies, a post he occupied as Interim Chair in the year prior. *The Mulitcultural Southwest: A Contemporary Reader,* co-edited with Patricia Moore, Patrick Pynes and M. Jane Young, a major curriculum project designed for Am. St. 186 "Introduction to Southwest Studies" went to press in 2001. Professor Meléndez chairs (3) dissertation committees, co-chairs a third doctoral committee and is a committee member on (5) other dissertation committees. In the fall of 2000, he developed and taught a new course Am. St. 364/564 "Chicano/a Visual and Narrative Style".

Professor Meléndez's chapter-length article "Nuevo México by Any Other Name," appeared in a scholarly volume published by UNM Press last year. A second chapter-length article has been accepted and is slated to appear in print this year. *The Multicultural Southwest*, a co-edited anthology is scheduled to appear in the fall of 2001 from the University of Arizona Press. In addition, he has two other book projects in progress. The more advanced of these projects is a compilation, translation and annotation of a 1911 biography on Colorado State Senator, Casimiro Barela. The manuscript is under review at the University of New Mexico Press. In March 2000, Professor Meléndez was an invited panelist at a workshop in support of the Padre Martínez Project sponsored by the Center for Regional Studies at UNM. In the spring of 2001 Professor Meléndez was awarded a research grant from the Center for Regional

Studies to recover the William G. Ritch collection housed at the Center for Southwest Research, Zimmerman Library.

This year Professor Meléndez served on several university-wide committees including the Provost's Strategic Planning Committee on Graduate and Professional Education. He was a member of the search committee for the Interim Dean of Arts and Sciences and for the Director of UNM Press. Professor Meléndez serves on several humanities advisory boards. He is a general editor of the "Pasó Por Aquí" Series on Hispanic New Mexico Letters (UNM Press) and is a board member of the *Recovering the U.S. Hispanic Literary Heritage Project* at the University of Houston. He is on the summer faculty of the Bread Loaf School of English, Middlebury College and teaches at Bread Loaf's New Mexico campus.

B. Strength of the Curriculum

The curriculum of the Department of American Studies at the undergraduate and graduate level is academically sound and diverse. The scope of the Department's curriculum is readily seen in the following overview:

	Fall, 2000	Spring, 2001	Summer, 2001	Total
Undergraduate courses offered:	26	31	2	59
Graduate courses offered	10	10	0	20
Individual Problems[1]	18	17	14	50
Student Credit Hours:	1,759	1,726	212	3,697

[1] Includes Undergraduate Problems, Individual Graduate Problems, Theses and Dissertation Hours.

American Studies continues to enhance the visibility of its regular course offerings through cross-listing and other intra-department scheduling arrangements with other academic units on campus. In the 2000-2001 academic year American Studies maintained cooperative course scheduling arrangements with African-American Studies, Chicano Studies, Engineering, English, Native American Studies, Political Science and Women Studies.

In the spring of 2001, the Office of the Registrar reported that American Studies had 39 officially declared undergraduate majors. The number of graduate students in the program stood at 61. In May, American Studies graduated four doctoral students from the program. Their names and dissertation titles follow: Robert Anderson, "Voices of Steel: New Left and Worker Resistance to Steel Industry Restructuring, Western Pennsylvania, 1979-1986;" Cynthia Chavez , "Negotiated Representations: Pueblo Artists and Culture;" Tami Harbolt, "The Cultural Construction of the Shelter Pet;" Claude Stephenson, "A Comparative Analysis of Matachines Music and its History and Dispersion in the American Southwest". In addition, five American Studies students completed their degree requirements for the Master's and nine students graduated with the BA in American Studies.

American Studies continues to see growth in the number of undergraduate majors and minors, and, importantly, in an era of declining numbers of students seeking graduate admission, American Studies continues to attract a sizable pool of qualified applicants for the MA and PhD degrees. This year the department received 39 applications from students seeking admission to our graduate degree program. After faculty review, 11 students were admitted to graduate study.

C. Future Plans

A high priority in American Studies for the 2001-2002 academic year will be to recruit and hire candidates for two faculty positions once these searches are approved by the Office of the Dean of Arts and Sciences. These searches are slated to begin in the early fall. The department hopes to vet a group of finalists and conduct on-campus interviews in the early spring of 2002. American Studies also hopes to increase and diversify the applicant pool of graduate students seeking admission to graduate study. The department will determine the size of next fall's entering class based on new faculty hires and other relevant criteria. Among other priorities for next year, American Studies will pay special attention to increasing its undergraduate majors and minors. American Studies plans to contribute directly to the implementation of the Provost's strategic planning process, in particular, the department will seek to bring greater definition to a) interdisciplinary studies, b) international study programs and c) Southwest Studies programs at UNM, three areas identified as central to the UNM Strategic Plan.

II. College Evaluation Effort

In the spring of 2001 American Studies took part in the Dean's initiative to assess the quality of teaching and research of the academic units in the College of Arts and Sciences. The full College Evaluation Effort report for American Studies is included herein in Appendix 1. In the three categories measured by this evaluation (Teaching Measures, Research Measures, Efficiency Measures) American Studies scored 25.1% in Teaching, 28.2% in Research and 9.0% in Efficiency (30 pt. scale). The department's Overall Merit Score was at the 72nd percentile, a score which placed it at the top of the small departments, ---those with under 10 faculty— in the College.

III. Appointments, Departures, etc.

Ruth Salvaggio (PhD), resigned from the faculty, effective May 31, 2001

Eric Porter (PhD), resigned from the faculty effective May 31, 2001

Anne Cacoullos (PhD) was appointed Part Visiting Professor of American Studies, effective August 1, 2001-December 31, 2001.

Amanda J. Cobb (PhD) appointed Assistant Professor of American Studies, effective August 1, 2001.

APPENDIX 1

COLLEGE EVALUATION EFFORT
American Studies Department
April 11, 2001

I. Assessment of Teaching Quality

A. Internal teaching assessment:

American Studies is primarily a graduate teaching unit. Because it is a small interdisciplinary department consisting of 6 FTE, faculty members routinely contribute to on-going curriculum needs and new teaching initiatives in the graduate program. The three primary teaching duties of regular faculty are: 1) the staffing of 300/500-level courses, 2) teaching graduate seminars and 3) MA and Ph.D. advisement and mentoring. Regular faculty members are expected to direct undergraduate honors theses, MA theses and to direct or serve on multiple Ph.D. dissertation committees inside and outside the department. Regular members of the faculty routinely direct undergraduate and graduate problem courses. This assessment of teaching efficacy measures the three areas listed above. It also is based on a 3-year average of section means from global ICES question # 2 ("Rate the instructor") for each level of instruction. This is the first year in which a merit review committee will generate measures for the faculty based on a merit policy adopted in the department. (A copy of the merit policy is attached). Data for this year, however, is not available for computation here, although data will be used in a subsequent year. For this report, the following three-part criteria is applied to data taken from global ICES #2 and the UNM Annual Biographical Supplements for the last three calendar years:

B. ICES means for individual faculty provide the base-line assessment of teaching;

C. the base-line number is compared to the "Three-year average of section means" for the department (see ICES report);

D. five-tenths of a percent (0.5) is added to the base number for "high" graduate student advisement (loads above department averages); (0.5) is subtracted for "low" graduate student advisement (loads below department averages).

Using the Arts and Sciences' scale (3 = excellent, 2 = good, 1 = needs improvement) individual faculty scores are assigned as follows: "excellent" is given for a total .5 above the department mean; "good" is given for ICES scores .2 above or below the department means; "needs improvement" is given for ICES scores .5 below the department means.

This instrument yields a ranking of

Excellent teachers: 2
Good teachers: 5
Needs Improvement: 0

For a department mean of 2.2

B. Fraction good to excellent teachers: 100%

C. ICES*

1. Average of Section Means for Global Item # 2 "Rate the Instructor" over a three-year period (Fall 1998-Fall 2000)

Fall 1998

100-200	5.23
300-400	5.10
500-600	5.44

Spring 1999

100-200	5.34
300-400	4.96
500-600	5.56

Fall 1999

100-200	5.15
300-400	5.44
500-600	5.48

Spring 2000

100-200	5.11
300-400	5.22
500-600	5.66

Summer 2000

100-200	5.70
300-400	5.30
500-600	6.00

Fall 2000

100-200	5.43
300-400	4.98
500-600	5.30

2. Three-Year Average of Section Means by Class Level

100-200	5.3
300-400	5.1
500-600	5.5

3. Average of Section Means for All Classes Levels

100-600	5.3

* ICES student evaluations are used by 100% of the faculty. ICES reports have been returned for all regular members of the faculty.

II. Research Quality Assessment

A. Internal research assessment:

In the last three years, American Studies faculty have engaged in research and scholarship which has lead to the publications of monographs, refereed articles, chapters in collected works, edited volumes and other writings. Productivity in all areas of research is high. In the past three years members of the department have published 3 books, 2 edited collections, 9 journal articles, 7 chapter-length articles, and have had 7 articles reprinted. Data from the merit review committee on publications is not available for computation here. Following the standard practice in other humanities departments in the college,
the highest publication/research values are awarded in American Studies as follows:

E=Single-authored books placed with a publisher of strong reputation;
E=Edited books with major publishers;
G=Articles in refereed journals;
G=Chapter-length articles in collected volumes;
NI=Reprints of articles;
NI=Book reviews;
NI=Short articles;

Using the criteria above, the chair assigns the Arts and Sciences indicators (3 = (E)xcellent, 2 = (G)ood, 1 = (N)eeds (I)mprovement) to each faculty member in the department. "Excellent" is assigned to faculty who have published a book or an edited volume in addition to having 2 or more (G) items in publication. "Good" is assigned to faculty who have published some combination of (G) and (NI). "Needs Improvement" is assigned to faculty with only (NI) items or with no record of publication.

This instrument yields a ranking of

Excellent researchers: 3
Good researchers: 3
*Needs Improvement: 1

for a department means of 2.2

* This is a faculty member in the first year of a tenure-stream contract.

B. Fraction good to excellent research faculty: 85%

C. SCH production at student research level/full time faculty.

Total SCH in Am. St. 497, 499, 597, 599, 699 for academic year 1999-2000: 480

Total SCH per number of faculty: 480/7 = 68.6

Efficiency Assessment (Fall 1999/Fall 2000)

1. Undergraduate Majors	44	43
2. Graduates Majors	67	63
3. SCH to Non-Majors	1,474	1,312
4. Total SCH	1,974	1,759
5. SCH by FT Faculty	730	927
6. Instructional Budget/SCH	$ 109	$ 112

III. Options

A. Commitment to Interdisciplinary Graduate Studies:

American Studies has one of the highest graduate student populations of any graduate unit in Arts and Sciences. The graduate student-faculty ratio is 9:1. Two of our faculty carry disproportionate dissertation advisement loads (one currently directs 11 dissertation students, another directs 14). Each year American Studies admits roughly an equal mix of MA and Ph.D. students. The size of incoming classes in the last three years has been 12-15 graduate students. Students admitted to our program may elect to take up to 15 hours of graduate course work in other UNM graduate departments. Programs suffering from low graduate applicant pools readily appreciate the infusion of American Studies graduate students in low-enrolling programs. This interdisciplinary option produces significant "shadow SCH enrollments" which do not appear on department OIR

reports --rather they are tallied in other graduate units. If computed, SCH for American Studies graduate students enrolled in graduate courses outside the department could easily double the numbers reported by OIR*.

B. Commitment to Diversity

American Studies plays a key role in the recruitment, retention and professional placement of qualified graduate students who have been underrepresented historically in graduate education and in the academy. The department has managed to forge diversity without sacrificing excellence in graduate training. Currently four Hispanics, one Native American and seven women form the 2000-2001 group of graduate students. We have offered admission in 2001-2002 to five Hispanic students, one Asian American and eight women.

Diversity in our department is also reflected in the breadth of interdisciplinary topics being researched by its faculty and graduate students. The department's location in Arts and Sciences makes it the nexus of cross-disciplinary graduate education in the humanities, social sciences and fine arts. Indeed, some of our graduates have done cross-disciplinary research in less tread areas of interdisciplinary study and have linked their interests to the Anderson Business School, the College of Education, Water Resources Management and Health Sciences. Students majoring in interdisciplinary undergraduate units such as General Honors, Women Studies, Native American Studies, African American Studies, Chicano/a Studies, American Studies, at UNM and elsewhere, look to our department to further their graduate training.

As a small academic unit the department sets policy and direction and acts as a committee-of-the-whole. I estimate the worth of items A and B as having been consistently in the "Excellent" range for the department as a whole in the last three years.

*Graduate SCH generated by regular members: 204 (fall, 2000), 219 (fall, 1999)

DEPARTMENT OF ANTHROPOLOGY

COLLEGE OF ARTS & SCIENCES

UNIVERSITY OF NEW MEXICO

ANNUAL REPORT

July 1, 2000 - June 30, 2001

MARTA WEIGLE

CHAIR

Significant Developments during the Academic Year, 2000-2001

Two significant inaugurals highlight the 2000-2001 academic year: the opening celebration of the Alfonso Ortiz Center for Intercultural Studies on October 7, 2000, and the groundbreaking ceremony for the Hibben Center for Archaeological Research on May 24, 2001. The former included a variety of performers and the first Alfonso Ortiz Memorial Lecture, "Extending the Legacy," delivered by Fred E. Hoxie, former director of the D'Arcy McNickle Center for the History of the American Indian at the Newberry Library in Chicago and now Professor of History at the University of Illinois.

Hiring matters remain of grave concern. The Department was not allowed to search for any of its three requested (out of five then vacant) positions. Professor Schwerin's retirement meant six vacant positions. A new hiring plan was approved by the faculty on March 23, 2001, and subsequently submitted to the Dean. Two positions were requested: (1) a Native American scholar at the assistant or associate level appropriate to any subfield and (2) a human biologist at the assistant or associate level in Biological Anthropology. The first priority position reconfirms the

Department's commitment to a crucial focus of research and teaching on Native America, particularly the Southwest, and the perspectives of scholars whose cultural heritage as well as scholarly work embraces one or more Native American societies, either past or present. It honors the legacy of the late Professor Alfonso Ortiz.

Department integration continues to be facilitated by the work of the three Academic Committees:

The *Graduate Committee* headed by Graduate Director Carole Nagengast devoted considerable time to nominating candidates for extra-departmental awards, primarily through OGS, and selecting recipients for departmental awards. Extensive deliberations led to new policies and procedures for equitable duties and salaries for all Department teaching/graduate/research assistants and associates. Since the National Research Council will begin gathering data for its ten-year ranking of departments (2005) in 2002, the Graduate Director began exploring the terms of this critical evaluation and gathering data. (The Department, which had been the highest ranked of any University graduate program in 1985, when it and the University of Texas-Austin were ranked tenth in the country, has suffered from being among the sixteen UNM departments left off the 1995 list due to the higher administration's failure to return data requested by the NRC.)

The *Undergraduate Committee* headed by Undergraduate Director James L. Boone continued to focus on the introductory department and subfield courses, especially Anth 101, which received greater specificity. A proposal was submitted to the Core Curriculum Committee for the inclusion of introductory Archaeology and Human Evolutionary Ecology courses in addition to the Biological Anthropology and Ethnology ones in the revised core curriculum.

The *Instructional Resources Committee*, ably chaired by Professor Robert Leonard, continued to coordinate, oversee, and plan all matters related to the instructional use of computers, media (audio-visual, CD-ROM, renewable and permanent laboratory supplies, etc.), and space.

The *Advisory Council*, the Department's standing administrative committee, continued to consider personnel, policy, budget, and procedural matters. Department Administrator Susan Pinter and a remarkable staff assure the smooth and successful workings of the Department and have made possible substantial fiscal and physical advancements.

At noon on Saturday, May 12, 2001, the Department of Anthropology convened its third annual convocation in the Anthropology Lecture Hall with the subsequent

reception held in Maxwell Museum of Anthropology. Thanks to tremendous work on the part of the staff and good faculty support, this was again a most successful and memorable occasion.

The 2001 Summer Field School in Archaeological Research was headed by Research Associate Professor Bruce Huckell and headquartered in Albuquerque. Its excavations were conducted at the Boca Negra Wash, a Paleoindian site of Folsom hunters in the Middle Rio Grande Valley. The 34th Annual Bioarcheological Field School, the sixth under the aegis of UNM, was led by Professor Jane Buikstra at the Center for American Archeology, Kampsville, Illinois, in the lower Illinois River Valley.

Distinguished Professor Jane Buikstra was named the third Leslie Spier Distinguished Professor of Anthropology, an honor first held by the late James Spuhler and then by Lewis R. Binford, who retired in June 1991. In Spring 2001 University Regents Professor Louise Lamphere was recognized with the University's highest honor; she is now Distinguished Professor of Anthropology. Graduate student Julie Griffin received an Office of Graduate Studies Graduate Dean's Dissertation Fellowship.

Significant Plans and Recommendations for the Near Future

The Department remains focused on hiring needs, especially an Alfonso Ortiz Native American position; better diversity among faculty and students; the integration and articulation of the four subfields; the development of undergraduate instruction, especially at the introductory level; facilitating laboratory instruction; and the summer field schools. Strong support for the Ortiz Center continues, and the AnthroMax collaboration of Department and Maxwell Museum of Anthropology remains active. Preparations for the opening of the Hibben Center for Archaeological Research in Spring 2002 are of paramount concern. Planning for the Department's seventy-fifth anniversary in 2003 is just underway.

Appointments

▪Faculty

None.

▪Staff

Carol Chavez was hired as Administrative Assistant II on March 1, 2001.

Erika Gerety was promoted to Coordinator, Graduation, effective December 4, 2000.

Separations

▪Faculty

Professor Karl Schwerin retired on June 30, 2001, after thirty-seven years at the University.

▪Staff

Stephanie Beck resigned as Academic Advisor effective December 22, 2000.

Sabbatical and Other Leaves

Professor Patricia Crown was on leave without pay during the Fall 2000 semester and sabbatical leave during the Spring 2001 semester. Associate Professor Les Field was on sabbatical leave during the Fall 2000 semester. Professors Jeffery Froehlich and Jane Lancaster were on sabbatical leave during the Spring 2001 semester. Professor Wirt Wills was on leave without pay for the 2000-01 academic year, teaching at the University of Virginia. Professor Hillard Kaplan was on leave without pay during the Spring 2000 semester.

Publications

There were neither Department nor staff publications during this time, but the faculty continued its good productivity. In the 2000 reporting period, nineteen different tenure-stream faculty members (among the twenty-six of twenty-eight returning biographical supplements) produced one monograph, three edited volumes, and fifty-one book chapters/journal articles.

The 2000 monograph and edited volumes are as follows:

Lawrence G. Straus, M. Otte, and P. Haesaerts, *La Station de l'Hermitage à Huccorgne: Un Habitat à la Frontière Septentrionale du Monde Gravettien*, Etudes et Recherches Archéologiques de l'Université de Liège 94

Garth Bawden with R. Reycraft, eds., *Environmental Disaster and the Archaeology of Human Response*, Anthropological Papers of the Maxwell Museum of Anthropology, No. 7, University of New Mexico Press

Patricia Crown, ed., *Women and Man in the Prehispanic Southwest: Labor, Power and Prestige*, School of American Research Press

Outside Professional Activities

During the 2000 reporting period, among the twenty-six (of twenty-eight) reporting tenure-stream faculty members, seventeen gave one or more meeting papers and/or posters, three participated in one or more international symposia, and eight gave one or more invited lectures. Professor Jane Buikstra co-organized the international Middle Woodland Conference. Professor Jeffery Froehlich organized a symposium on "Speciation Mechanisms in Sulawesi Monkeys" for the Congress of International Primatology. Associate Professor Ann Ramenofsky co-organized a symposium on "Making Time Work: Problem Solving in Temporal Resolution" for the Society for American Archaeology. No staff members were professionally active outside the University.

Other reported faculty professional activities (excluding editorial boards and reviewing) off-campus include:

Bawden: Vice President for Programs, G. L. Bruno (Charitable) Foundation, Fresno, California; Board of Directors, The Ahau Foundation

Buikstra: Member, Board of Directors, Ethics Committee, Committee to Review Application Standards, American Board of Forensic Anthropologists; member, Reorganization Committee, Paleopathology Association; President of Board of Directors, Center for American Archeology; member, Advisory Committee, Wiener Laboratory of the American School of Classical Studies, Athens; member, chair of Human Sciences Committee and member of Integrated Review Committee, National Museum of Natural History; Advisory Board, Bioanthropology Foundation, Peru; member, Class Membership Committee, National Academy of Sciences

Crown: Member, Nominations Committee for the Excellence in Ceramic Research Award, Society for American Archaeology; chair-elect, Archaeology Division, American Anthropological Association; chair, Nominations Committee for the Gordon H. Willey Award, American Anthropological Association; chair, Nominations Committee for the A. V. Kidder Award,

American Anthropological Association

Froehlich: Adjunct Curator of Paleontology, New Mexico Museum of Natural History and Science; member, Primate Specialist Group, I.U.C.N.; member, Conservation Committee, American Society of Primatology

Hill: Advisor, Ache tribe of Paraguay; advisor, Fundacion Moises Bertoni, Paraguay

Kaplan: Panelist, Scientific Review Committee, National Institute on Aging

Lamphere: President, American Anthropological Association

Lancaster: Member, Board of Directors, Publications Committee, Human Behavior and Evolution Society

Leonard: Member, Book Award Committee, Society for American Archaeology

Nagengast: Chair, Public Policy Committee, American Anthropological Association; Board of Directors, Amnesty International; Board of Trustees, Lisa Gilad Initiative

Powell: NAGPRA consultant, Kennewick Research Team, U. S. Department of the Interior

Ramenofsky: Member, Cultural Properties Review Board, Office of Cultural Affairs, State of New Mexico

Rodríguez: Consultant, Taos Valley Acequia Association; member, Advisory Board, "A Qualitative Study of the Influence of Religious and Cultural Traditions of Hispanic Communities in Northern New Mexico and Southern Colorado on Decisions about Medical Genetics Services and Related Ethical Concerns," Regis University; jurist, William P. Clements Prize for Best Non-Fiction Book on Southwestern America, Clements Center for Southwest Studies, Southern Methodist University

Salvador: Vice President, then President, Council on Museum Anthropology

Stone: Member, Primate Evolution Biomaterials Resource Planning Committee, National Science Foundation

Straus: President, Committee on Human Evolution and Paleoecology, Chair, Working Group on the Archeology of the Pleistocene-Holocene Transition, member, Working Group on Isoptope Stages 3 & 2, International Union for Quaternary Research (INQUA); elected member, Commission on the Upper Paleolithic of Europe, member, Commission on History of Prehistory, International Union of Prehistoric Sciences (UISPP)

Weigle: Member, Task Force on Documentation and Preservation, Southwest Humanities Center, NEH Planning, Arizona State University

Outside Sponsored Research

Total active awards for Anthropology, 2000-2001 (12): $598,358

Crown, Patricia, and Valerie King, National Science Foundation: Doctoral Dissertation Improvement, "Production, Distribution and Consumption of Utilitarian Ceramics in the Chuska and Chaco Regions of New Mexico," $10,174

Froehlich, Jeffery, and Lisa Jones-Engel, Chicago Zoo Society: Doctoral Dissertation Improvement, "Evidence of Exposure to Endemic Human Pathogens among Wild and Pet Macaques," $5,000

Kaplan, Hillard, National Institute on Aging: "Evolutionary Approaches to the Biodemography of Aging," $89,283

Lancaster, Jane, and Tanya Mueller, National Science Foundation: Doctoral Dissertation Improvement, "Effects of Variables on Timetable of Reproduction Maturation in Female Baboons," $11,340

Ramenofsky, Ann, and Anastasia Steffen, National Park Foundation: Doctoral Dissertation Improvement, "Dome Fire Effects Study: Archaeological Investigation of Fire and Obsidian," $75,000

Ramenofsky, Ann, and David Vaughan, Wenner-Gren Foundation: Doctoral Dissertation Improvement, "Mining, Colonialism and Interaction on the Western Spanish Borderlands," $19,590

Rapaport, Lisa, National Institute of Mental Health: "Development of Golden Lion Tamarin Foraging Behavior," $175,116

Singer, Beverly, Chamiza Foundation: "Ortiz Center Pueblo Interpretive Programs," $5,000

Stone, Anne, National Science Foundation: "Y-Chromosome Diversity in the Genus Pan," $172,913

Straus, Lawrence, National Science Foundation: "Tardiglacial Human Adaptations in the Cantabrian Cordillera, Spain," $11,700

Wills, Wirt, National Geographic Society: "Agricultural Ecology of a Colonial Grant," $11,242

Wills, Wirt, and Gerry Raymond, National Science Foundation: Doctoral Dissertation Improvement, "Role of Cerros de Trincheras," $12,000

Attachments

▪Public Lectures

Journal of Anthropological Research Distinguished Lecture Series:

Richard G. Klein (Stanford University), "The Origin of Modern Humans," October 19, 2000

Michael Herzfeld (Harvard University), "Performing Comparisons: Ethnology, Globetrotting, and the Spaces of Social Knowledge," March 1, 2001

Thirteenth Annual Snead-Wertheim Endowed Lectureship:

James L. Boone, "The Transition from Late Antiquity to the Medieval World in the Iberian Peninsula: An Archaeological Perspective," April 25, 2001

Frieda D. Butler Memorial Lecture (Master's student):

Leslie Lopez, "Having a Voice: Verbal Expression and Cultural Citizenship through Community Radio in Mexico," December 7, 2000

Ruth E. Kennedy Memorial Lecture (Doctoral student):

Laura A. McNamara, "Isolated in a World of Threats: Secrecy, Science and Nuclear Deterrence at the Los Alamos National Laboratory," April 11, 2001

▪Conferences

Fifth Annual Graduate Student Spring Symposium, sponsored by the Anthropology Graduate Student Union, March 23-24, 2001:

Keynote Address (due to scheduling conflicts, delivered March 2, 2001): M. Anne Katzenberg, "Observations on Our Preoccupation with Diet"
Papers: Wesley Allen-Arave, Michelle Cristiani, Cecile Monterrosa, Deborah Weagel, Bettina Behrens, Christine S. VanPool, Todd L. VanPool, Karen Stocker, Megan Clemans, Barbara Finch, Keri Holley, Keely Baca, Paul James, Jack Baker, Alan Vince, Gordon F. M. Rakita, Nancy L. Nelson, Louise Lamphere, Caroline Todd, Abigail Adams, William G. Wagner, Cathleen E. Willging, Tad McIlwraith, Sarah Soliz, Patrick Staib, Robert Walker, Christy Doherty, Laura McNamara
Posters: Briggs Buchanan, Robert Walker, Marcus Hamilton, Bettina Behrens

▪Bachelor of Arts Degrees Conferred

Fifty-four B.A. degrees were awarded in 2000-2001. (The seven graduating with honors are indicated by an asterisk.)

Catherine Angeles, *Tim Baltimore-Shelp, *Sarah Bartsch, Clinton Blume, Jared Bousliman, Rachel Breed, Sue Byers, Anthony Castriota, Kelli Clare, Sarah Clark, Natasha Cochran, Hector Collazo, Peter Cordova, Anton Daughters, Lenni Davey, Lisa Dirks, Tonya Emsweller, Michelle Evans, Cheves Fleming, Yanina Hernandez, Rachel Hicks, Adrianna Holbert, April Horvath, Mary Jaffe, *Mollie Johnson, Eowin Juckette, Kevin Klaus, Mona Lester, Lisa Markworth, Mandy McAdoo, Martha McFarland, Lovie Millican, *Jeremy Moss, Daniel Moya, Patrick Nash, Sarah Natzke, *Brian Null, Jonathan Nunnery, Michelle Padilla, Lara Rasmussen, Andrew Renaurt, Sean Reynolds, Jamie Roberts, Juan Rojas-Routon, Heather Sanchez, Apryl Sandoval, Mary Schildt, Caroyl Scott, *Mary Vigil, Edward Washer, *Dulce Wassil, Shane Wero, Elizabeth Wireman, Kirsten Williams

▪Bachelor of Science Degrees Conferred

Seventeen B.S. degrees were awarded in 2000-2001. (The four graduating with honors are indicated by an asterisk.)

*Julie Angel, Annette Chavez, Natasha Cochran, *Jessica Furr, Erin Gonzales, Jan Harper, Candie Headrick, Lisa Markworth, Scott McGrew, Roy Bradford Nelson, *Nicholas Pino, *Alisha Ray, Sean Reynolds, Leigh Sauer, Megan Stowe, John-Taylor Montoya, Ethan White

▪Master of Arts Degrees Conferred

Nine M.A. degrees were awarded in 2000-2001. (The one graduating with distinction is indicated by an asterisk.)

Mary Jill Ahlberg, Jennifer Boyd, Karin Fjortoft, Joseph Lally, Christopher Larkin, *Armand Mijares, John Rissetto, Sarah Soliz, Jean Thulemeyer

▪Master of Science Degrees Conferred

Fourteen M.S. degrees were awarded in 2000-2001. (The two graduating with distinction are indicated by an asterisk.)

Jada Benn, Michelle Cristiani, Daniel DeFazio, *Anna East, Janet Fildes, *Darbi Gill, Anja Grossmann, Sophie Kohn, Hsiu-man Lin, Mario Milloñes, Stephan Naji, Wendy Potter, Valerie Prilop, Claire Stott

■Doctor of Philosophy Degrees Conferred

Thirteen Ph.D. degrees were awarded in 2000-2001. (The six graduating with distinction are indicated by an asterisk.)

Nancy Burke [Summer 2001], "Creating Islands in the Desert: Space, Place, and Ritual in Albuquerque, New Mexico" (Louise Lamphere, Chair)

Diane Crumley, "Female Reproductive Competition and Maternal Fat Utilization in Provisioned Vervet Monkeys (*Ceropithicus aethiops sabaeus*)" (Jane Lancaster, Chair)

*Steve Dominguez, "Assessing the Hydrologic Functions of Prehistoric Grid Gardens in North Central New Mexico" (Wirt Wills and Richard Chapman, Co-Chairs)

Julie Griffin [Summer 2001], "Pregnancy and Parenting among Albuquerque Teens: A School-Based Ethnography" (Louise Lamphere, Chair)

*Michael Gurven, "To Give and Give Not: The Evolutionary Ecology of Hunter-Gatherer Food Transfers" (Kim Hill and Hillard Kaplan, Co-Chairs)

William Hudspeth, "The Evolutionary Ecology of Behavioral Response to Risk among Prehistoric Agriculturalists of the Lower Rio Chama, New Mexico" (Robert Leonard, Chair)

*Sarah Johnson, "Life History and the Social Environment: Rank, Risk-Taking and Resource Acquisition among Chacma Baboons (*Papio hamadryas ursinus*)" (Hillard Kaplan and Jane Lancaster, Co-Chairs)

Phillippe LeTourneau, "Folsom Toolstone Procurement in the Southwest and Southern Plains" (Ann Ramenofsky, Chair)

Garnett McMillan, "Ache Residential Grouping and Social Foraging" (Kim Hill, Chair)

*Laura A. McNamara, "Ways of Knowing about Weapons: The Cold War's End at the Los Alamos National Laboratory" (Marta Weigle, Chair)

*Rebecca Miller, "Lithic Resource Management during the Belgian Early Upper Paleolithic: Effects of Variable Raw Material Context on Lithic Economy" (Lawrence Straus, Chair)

Marsha Ogilvie, "A Biological Reconstruction of Mobility Patterns at the Foraging to Farming Transition in the American Southwest" (Jane Buikstra, Chair)

*Anne Weaver, "The Cerebellum and Cognitive Evolution in Plio-Pleistocene Hominids" (Joseph Powell and Erik Trinkaus, Co-Chairs)

▪Letters of Academic Title

Affiliated Faculty

Richard C. Chapman, Part-time Associate Professor of Anthropology; Director, Office of Contract Archeology (Archaeology subfield and faculty voting rights; no presumption of tenure)

Brian L. Foster, Professor of Anthropology; Provost and Vice President for Academic Affairs (no voting rights; tenured)

Patrick F. Hogan, Part-time Assistant Professor of Anthropology; Associate Director, Office of Contract Archeology (no voting rights; no presumption of tenure)

Bruce B. Huckell, Research Associate Professor of Anthropology; Senior Research Coordinator, Maxwell Museum of Anthropology (Archaeology subfield and faculty voting rights; no presumption of tenure)

Beverly R. Singer, Adjunct Assistant Professor of Anthropology; Director, Alfonso Ortiz Center for Intercultural Studies (no voting rights; no presumption of tenure)

David E. Stuart, Part-time Professor of Anthropology; Associate Provost for Academic Affairs (no voting rights; no presumption of tenure)

Adjunct Faculty

Adjunct Professor: Ines Arenas de Hurtado

Adjunct Associate Professors: Christopher Boehm, Douglas K. Charles, Paula K. Ivey, Grace E. Kissling, David A. Phillips, Jr., Vernon Lee Scarborough

Adjunct Assistant Professors: Steven N. Byers, Robert Dello-Russo, Steven Dominguez, Michael Gurven, Charles E. Hilton, Philippe LeTourneau, Maria Masucci, Christopher Musello, Nancy L. Nelson, Marsha Ogilvie, Ariane Pinson, Sharon T. Pochron, Willow Roberts Powers, Lisa Gail Rapaport, Richard M. Reycraft, Michael Robertson, Lynne Sebastian, Atsushi Sumi, William Troy Tucker, David C. Waynforth

Adjunct Research Associate: Lisa W. Huckell

JOURNAL OF ANTHROPOLOGICAL RESEARCH
ANNUAL REPORT FOR 2000/2001

In calendar year 2000 JAR received and reviewed 60 manuscripts. Each manuscript, besides being read by the editor, is normally reviewed by three to five specialists, (37 new manuscripts have been received from January 1 through August, 2001)

JAR has a total of 1,186 subscribers - 1,015 Institutions and 171 individuals

Subscribers are in all 50 states, Washington DC, Puerto Rico, and Guam, plus over 40 foreign countries

JAR printed 607pp (Volume 56, nos. 1-4): 20 articles, plus 3 short pieces and 63 book reviews.

Volume 57, nos. 1,2, and 3 are already published for 2001, and no. 4, a special issue on learning and craft production, guest edited by Jill Minar and Patricia Crown, is currently ready to be sent to the printer.

The JAR Distinguished Lecturers for 2000/2001 were Dr. Michael Herzfeld (Harvard) and Dr. Richard Klein (Stanford).

Editorial Board Members:

Philip K. Bock, Jane E. Buikstra, Louise Lamphere, Carole Nagengast, Robert Santley

Associate Editors:

John Comaroff (University of Chicago), Raymond DeMallie, (Indiana University), Jane Hill (University of Arizona), Mary Moran (Colgate University), Jeremy A Sabloff (University of Pennsylvania), Bruce Smith (Smithsonian, National Museum of Natural History), Marc J. Swartz (University of California, San Diego), Stephen A Tyler (Rice University), Michael Herzfeld (Harvard).

Book Review Editors:

Ethnology and Linguistic Anthropology: Philip K. Bock
Archaeology and Paleoanthropology: Lawrence G. Straus
Physical and Biological Anthropology: Joseph Powell

Copy Editor: Patricia L. Nietfeld

Employees:
Business Manager: Margaret Colclough
Manuscript Specialist: Mary Kay Day
Book Review Student Assistant: Hannah Dodd

Web Page - upgraded in 2000 and 2001 by Ms. Dodd

The University of New Mexico Press represented JAR at the meetings of the Society of American Archaeologists and the American Anthropological Association. Dr. Straus represented JAR at two meetings in Europe and at the Society for American Archaeologists meeting.

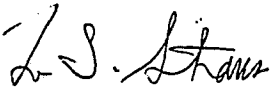
Professional out-sourcing of composition, printing, binding, and distribution continues to be highly satisfactory, efficient, and economical.

Professional Composition: Anthropological Consulting and Editing, Albuquerque, New Mexico
Printing and Binding: Thomson-Shore of Dexter, MI
Distribution: Unit Packaging of Ann Arbor, MI

During the year I have received compliments from numerous colleagues about JAR's quality and timeliness.

In 2001 JAR ran a full page ad in Current Anthropology.

Subscription rates remain unchanged for 2001.



Lawrence G. Straus

The University of New Mexico

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Albuquerque, NM 87131-1086
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FAX (505) 277-0874

Program Report for the Alfonso Ortiz Center for Intercultural Studies
Submitted by Beverly Singer, Director Beverly Singer
July 11, 2001

Specific Goals and Objectives Reached for the Alfonso Ortiz Center for Intercultural Studies
July 1, 2000 to June 30, 2001

* Primary goal and responsibilities have been to meet the NEH Challenge Grant Award of $500,000 with a 3:1 match of $1.4 million to establish the Ortiz Center Endowment.
* Develop capital improvements plan for the Maxwell Museum to create the Ortiz Center Open Study Storage exhibit area. Including research about building renovations, installation of storage cases, lighting, and climate control system.
* Program Staff includes director (Beverly Singer), part-time program coordinator (Tamara Grybko), quarter-time administrative assistant (Carla Sarracino). In addition, one volunteer graduate student (MJ Walker).
* Program Developments included a Film Series and Public Forums. Co-curated community-inspired exhibition projects underway.
* Fund Development for Ortiz Center Endowment with strong community outreach and involvement in fundraising events including the Maxwell Museum's Gala.

Timeline and Objectives reached:

* Strategic planning and implementation of fundraising and development of programming for Spring 2001 with assistance from Lee Draper Consulting.

* Public outreach and media dissemination of information about the Ortiz Center including a national radio interview on Native America Calling featuring Ortiz Center director. Participation of Mari Lyn Salvador at national meetings including the annual American Anthropological Association of Anthropology.

* The Maxwell Museum Association pledges $60,000 to the Ortiz Center Endowment.

* Submission of required documentation for NEH Challenge grant match in the amount of $131,999.70 in August.

Spring 2001

* The Albuquerque Community Foundation, the Chamiza Foundation, and Albuquerque Interfaith and The New Mexico Organizing Project, and The UNM Center for Regional Studies contribute $14,000 to program development.

* Individual contributions, including UNM faculty contribute $8,000 to Endowment.

* Beverly Singer and Mari Lyn Salvador meet with Owen Lopez, Executive Director of the McCune Foundation in Santa Fe, to discuss leadership gift for the Ortiz Center. Site visit meeting scheduled on June 5 at UNM with Owen Lopez and Hank Beukema from the McCune Foundation in Pittsburg, Pennslyvania.

* Sponsored initial public programs including: (January-May) "Institute for Public Life," a series of eight community seminars about the history, politics, and culture of New Mexico facilitated by UNM anthropology professor, Sylvia Rodriguez; (March-April) "Dine'/Navajo Film Series," featured three films about contemporary Navajo culture and lifeways that brought the filmmakers to UNM and Albuquerque; (April) "Attachments to Place: Reflections on Water and Land in a Changing New Mexico," a roundtable dialogue about ancient water irrigation systems that brought together community scholars Josie Lujan, archivist and historian from Chimayo, NM, Manuel Trujillo, rancher, former state representatvive and mayordomo of the Acequia Porvenir from Chama, NM, and UNM professors Jose Rivera and Sylvia Rodriquez, both researchers of acequia culture and traditions. Mari Lyn Salvador received an NEH Extending the Reach grant of $25,000 for this program.

* Collaboration with community artist, Paul Smyth and Albuquerque youth concerning AIDS prevention project titled, "Waking Up on Central." Co-developed project and proposal submitted to The Rockefeller Foundation Partnerships Affirming Community Transformation.

Summer 2001

* McCune Foundation in Santa Fe pledges $150,000 over three years. Receive notice to submit formal proposal to the McCune Foundation in Pittsburg, PA for $100,000 to match NEH Challenge Grant for Ortiz Center Endowment.

* Beginning outreach to American Indian tribes with casinos for contributions. The Yavapai-Apache Nation contributes $1,500 to begin establishing community scholars program.

* Preparation of preliminary architectural design and exhibit area for Open Study Collections in the Maxwell; working with Andrew Merrill of Hilferty and Jetty Museum Exhibit Consultants and in cooperation with the UNM Facilities Planning Office.

* Major proposal development for Maxwell Museum renovations for Open Study Collections to approach private patron of the arts and former corporate head. Mari Lyn Salvador scheduled for a meeting with patron in Los Angeles in mid-July.

* Planning begins to host clusters of Southwest Indian cultural interpreters to review Maxwell Museum collections.

Fall 2001

* Prepare additional grant proposals to MacArthur Foundation and the Andrew W. Mellon Foundation. These proposals directly concern program development costs for study collections and for additional assistance with artifact preparation areas and new media web design project for Ortiz Center computer stations.

* Related Anthropology 101 course developed by professor Les Field concerned with "Attachments to Place: Reflections on Water and Land in a Changing New Mexico." Focus on a single theme is part of the innovation to teaching anthropology that was successfully tested in a previous course offered that focused on "Food and Humanity" that encouraged students to use the Maxwell Museum collections in new and exciting exhibitions at the museum.

* Host Annual National Advisory Board meeting in the Fall to review progress and continue to refine the Center's goals and objectives. Invite three new members to the board to bring the Board to twelve from its current nine members.

* Ortiz Center director will be teaching a topics course in American Indian literature for the Native American Studies Department as part of the continuing outreach and collaboration within the university community.

MAXWELL MUSEUM OF ANTHROPOLOGY

ANNUAL REPORT
[July 1st 2000-June 30th 2001]

Garth Bawden
Director

A. GENERAL

In terms of major initiatives the past year has experienced one of its most active years in recent times. We have continued our drive toward fully realizing the research potential of the Maxwell Museum by consolidating all such activities within a new Category 1 Research Center - the Maxwell Center for Anthropological Research - established in April 2000. In addition groundbreaking for the Hibben Center for Archaeological Research, a new archaeological storage and research center adjacent to the existing museum, occurred in May 200. Dr Frank Hibben has donated $4,000,000 to the cost of this building which augments his past gifts to the Maxwell (important research collections and archives, a moderate research endowment, and the gift of his home for future museum educational activities) in developing the resources to support greatly enhanced use of the museum collections and to encourage archaeological research projects. Concurrently, years of efforts to incorporate the Chaco Museum Collection Division of the National Park Service into the project as a curatorial and research partner paid off with a Department of Interior award for $3,000,000 to fund additional storage and research space in the new building.

The organizational restructure and programmatic re-vitalization of the newly acquired Office of Contract Archaeology (merged with the Maxwell Museum in February 1999) continued with growing success. The department has made great strides towards the twin goals set forth by the Dean of the College of Arts and Sciences at the outset of the new arrangement - financial viability and improved educational quality. Also, re-organization of the Maxwell's Laboratory of Human Osteology, necessitated by the illness of its previous Curator, Joseph Powell, resulted in greater integration of the program with the mission of its partner the State Office of the Medical Investigator (OMI), an infusion of financial support from OMI, and expansion of forensic and educational activity.

Finally, the Maxwell has continued to develop its wider responsibilities. On the adult level, the recently established Alfonso Ortiz Center for Intercultural Studies (a program jointly managed with the Anthropology Department) initiated its first programs during this year with an ethnic film series and the grant of $25,000 to further examination of New Mexico water management issues including public forums and workshops. This center will stimulate the development of partnerships between community cultural specialists and university professionals to create practical applications for anthropology in the greater community, an initiative that has been recognized by the American Anthropology Association as a top priorify for anthropology in this century. On the less formal level we have developed some new programs that relate to the research mission. Thus we conducted two field schools in archaeology in conjunction with local public schools (the Menaul School and the Albuquerque Academy), both supervised by personnel of the Maxwell's Office of Contract Archaeology, and developed cultural information material in conjunction with the Museum Store to integrate this important division into the educational mission. The following sections describe the major initiatives in somewhat greater detail and summarize the rest of the museum's progress during the past year.

B. MAXWELL CENTER FOR ANTHROPOLOGICAL RESEARCH

The Maxwell Center for Anthropological Research is a Category I Research Center established in the College of Arts and Sciences in April 2001. The Center was developed in conjunction with the UNM Vice President for Research and the Dean of the College of Arts and Sciences to consolidate the pertinent activities of those divisions and programs of the Maxwell Museum of Anthropology that are currently engaged in field and laboratory research in the various branches of Anthropology including the previously-autonomous UNM Office for Contract Archaeology, administered by the Maxwell Museum since 1999.

The mission of the Maxwell Center for Anthropological Research is to coordinate and to promote archaeological, ethnological, and biological anthropology research activities at the Maxwell Museum of Anthropology, including collections and field research undertaken by museum staff members, affiliated scholars of the center, and students. The Center will accomplish this mission by awarding research affiliations to scholars within and outside of the University of New Mexico, by entering into partnerships with other UNM departments in order to investigate research questions of mutual interest, by supporting visiting scholars engaged in research beneficial to the Center's educational mission at UNM, by organizing professional symposia, by publishing the results of research by affiliated professional personnel and students, and by continuing to seek out and acquire collections that improve the Maxwell Museum's ability to support research activities.

Structurally the Center is a research division of the College of Arts and Sciences, established within the Maxwell Museum of Anthropology, the department where its regular university personnel hold their principal appointments. The Center is headed by the Museum Director answerable to the Dean of the College and assisted by a Research Policy Board representing the various branches of anthropology at the University of New Mexico. A broader Maxwell Center for Anthropological Research Liaison Committee includes representatives from those departments, area study institutes, and multi-disciplinary programs whose interests converge with those of the Maxwell Museum of Anthropology and its Research Center. The purpose of the Liaison Committee is to explore areas in which collaborative research partnerships might be developed and to monitor the overall progress of this area of the Center's activity. Finally, a general Maxwell Center for Anthropological Research-Consortium will include all affiliates and staff in a largely electronically based communication network which encourages integration among a membership whose diverse interest might otherwise tend to keep them peripheral to the organization.

We believe that the active interaction of faculty, research staff, students and affiliated scholars in a research center possessing institutional access to one of the most comprehensive collections of human cultural and osteological material in the US will significantly enhance the nationally renowned anthropology program at the University of New Mexico. Moreover the Center will ensure more effective utilization of the resources of the Maxwell Museum of Anthropology on behalf of its educational mission.

C. HIBBEN CENTER

In mid 1999 Dr. Frank Hibben, Professor Emeritus and founding Director of the Maxwell Museum of Anthropology, pledged a sum of $4, 000,000 to construct a center for the storage of the Maxwell Museum's archaeological storage and for the teaching of archaeology to UNM anthropology students. Following approval by the Regents architectural planning was completed by January 2001 and construction commenced in May. The center will hold all storage, archival, and photographic facilities required for an archaeological facility together with teaching laboratories, graduate student space, and a large auditorium for class teaching and public programs. It will be connected to the existing museum by a sub-surface passageway. In addition, the Hibben Trust, the agency created to manage the benefactor's planned endowment bequest, will have its executive office in the new building. The Center will transform our ability to care for our extensive and growing archaeological collections and to make them accessible for research and teaching.

A second important component of this project is associated partnership with the National Park Service (NPS). Since 1949 the Maxwell Museum of Anthropology has maintained a relationship with the NPS, specifically its Chaco Park Division, to curate archaeological collections and related documentation excavated at the extensive Anasazi and earlier cultural sites in the Chaco Park region, originally owned by the University of New Mexico. The Museum and Chaco Park curatorial division jointly manage these collections on behalf of research and education for university students and faculty and scholars from this region and beyond. In early 2001 the Department of the Interior of which the NPS is part granted the Chaco Park Division $3,000,000 to further this long collaboration in the new Hibben building, allowing its completion and the construction of storage facilities for the Chaco collections and work space for its curatorial staff. The consolidation of this partnership will provide for enhanced educational opportunities for all levels of UNM faculty and students and mark the first time such a joint project has been developed in this country.

D. OFFICE OF CONTRACT ARCHAEOLOGY

The efforts, commenced in early 1999 when the UNM Office of Contract Archaeology (OCA) was incorporated into the Maxwell Museum of Anthropology, to integrate this complex agency into the structure and educational mission of the Maxwell Museum of Anthropology, continued through the 2000-2001 academic year with significant success. In furthering the academic component of OCA the Maxwell Museum has moved in two complementary directions. On one hand we have continued to expand the traditional OCA employment and training opportunities for UNM students. On the other hand we have developed two major initiatives with long-term implications in the public educational area. First, the Museum created a partnership with the Albuquerque Academy to conduct an archaeological field excavation at a Bernalillo archaic residential site as part of the Academy's summer 2000 curriculum. Over 20 middle and high school students took this course, which was supervised by the OCA director,

using OCA and museum laboratory facilities and teaching galleries. A second annual field school at the same site is planned for summer 2001 (thus in the next reporting year) and we hope to make this a regular annual part of our formal public education mission. Second, the museum developed a winter program with The Menaul School as part of its E-Term offering. This program, that studied the historical remains of the school dating from the late 19th century, attracted over 30 students who worked under their own teachers and Maxwell OCA instructors on all phases of excavation, documentation and analysis. In addition planning is now under way in concert with the Department of Anthropology to create an internship in Public Archaeology to train an appropriate graduate student in the practice and legal aspects of the sub-discipline. Thus there have been significant moves to integrate OCA more fully into both public and university educational missions of UNM.

On the organizational and business levels the OCA administrative and financial organizational structure is now fully integrated with the central Maxwell Museum administration. The museum accountant oversees financial procedures while the Museum Director oversees the overall development of the department. At the departmental level the previous director retired in December 2000. Dr. Richard Chapman, previously assistant director has been promoted to Assistant Director of the Maxwell Museum for the Office of Contract Archaeology and reports directly to the Maxwell Museum Director, while the other previous assistant director, Dr. Patrick Hogan has been reclassified to Senior Research Scientist in charge of contract projects. This reorganization has resulted in major financial savings, steady improvement in the department's ability to gain grants, heightened staff morale, and greatly improved administrative efficiency.

E. LABORATORY OF HUMAN OSTEOLOGY

In December Dr. Joseph Powell, Curator of Biological Anthropology, was forced to take indefinite leave of absence from his museum duties because of the need to treat a brain tumor. Deliberations between the Museum Director and the Dean of the College of Arts and Sciences, resulted in the museum obtaining permission to hire a temporary (one year renewable) full-time Research Assistant Professor to assume the directorship of the museum's Laboratory of Human Osteology and to direct the Forensic Anthropology program, operated in conjunction with the state Office of the Medical Investigator (OMI). In July 2000 Dr. Debra Komar a forensic anthropologist with field experience in Bosnia and Kosovo arrived at UNM to take over the laboratory directorship. She also occasionally teaches as an adjunct in the Anthropology Department, furthering the close collaboration the teaching department that marks the history of this museum division. Very positive negotiations between the Maxwell Museum director and the Office of Contract Archaeology during the period immediately prior to Dr. Komar's arrival resulted in the OMI contributing to the cost of the program, supporting the cost of sending forensic anthropology students to professional meetings, and including them in the formal case reviews and teaching sessions of the OMI in the UNM Medical School. In return the new laboratory director is committed to train OMI forensic fellows and to expand the laboratory's case recovery and identification coverage. Thus in several ways the potential of the museum's Laboratory of Human Osteology to serve as the official Anthropology wing of the OMI, to conduct forensic research, and to instruct UNM students in classroom and applied forensic

anthropology has been significantly increased by these moves, turning initial adversity into opportunity.

In June of 2001 Dr. Powell was transferred fulltime to the Anthropology Department, and Dr. Komar was rehired for her second one-year term. It is imperative that this position be made permanent in order to institutionalized the great educational benefits that have accrued in the past two one and a half years (see below).

F. OTHER DEVELOPMENTS

1. Hires: The Maxwell has had great success in filling its senior curatorial ranks with two important hires early in the reporting year. In July 2000 Dr. Michael Lewis, an archaeologist with over 2 decades of field and museum experience assumed his position as archaeological curator. He has conducted extensive field research in the Arctic and Southwest and is eminently qualified to manage the Maxwell's collections during a period of planning preparatory to their move to the new Hibben Center. Also in July 2000, Dr. Debra Komar, began her tenure as Research Assistant Professor in charge of the Maxwell's Laboratory of Human Osteology and its Forensic Anthropology program. She holds the PhD degree from the University of Toronto and, prior to coming to UNM, has worked in the former Yugoslavia on war victim identification as well as on medico-legal cases in Canada.

2. The Museum created and implemented a comprehensive web site that covers all aspects of its activities and incorporates the secondary sites for the Human Osteology Laboratory, the Maxwell Center for Anthropological Research and the Office of Contract Archaeology. This project took much of the year to complete and links with the UNM main web site and the UNM Research Divisional web site.

3. Together with his counterparts in the Museum of Southwest Biology, the UNM Art Museum, and the Museum of Meteoritics, the Maxwell Museum of Anthropology director proposed a Museum Consortium to work with the university authorities on issues of major interest to the museum community. This Consortium was implemented by the UNM Provost late in the reporting year and helps establish the UNM museums collectively as a valuable component of the university educational mission.

4. Collections Organization and Data Base: We are in the process of creating a new computer database for the museum's collections. This project, partially funded by the US Army Corps of Engineers and the Maxwell Museum Association, will replace our ARGUS program with a more effective, more cost efficient system that is more easily maintained at UNM. The work is especially important given the upcoming transfer of the archaeology collections to the new Hibben Center and the need to have a complete inventory catalogue to use in this move

G. CHIEF FUTURE PLANS

1. Complete plans for moving the archaeology collections into the Hibben Center in the last part of the next reporting year upon completion of construction. This involves completion of the database project, creating a complete inventory of all collections to be moved, assessing and allowing for impact on the existing building and establishing a staging area for the affected collections in the existing space.

2. Develop the new Maxwell Center for Anthropological Research. This process is already in its preliminary stage. It involves identifying broad areas of research that reflect the strengths of the Maxwell Museum research divisions and associated personnel, the appointment of research associates whose connection with the Center both enhances its activity and their own ability to conduct research, and the establishment of links with other institutions that are potential research partners.

3. Resolve the staffing situation for the Maxwell Museum of Anthropology Human Osteology Laboratory. The position held by Dr. Komar must be made permanent as a major research, teaching, and public service component of the UNM educational mission.

4. Further develop plans for the construction of public access storage and workspace in the museum's North Gallery as proposed in the preliminary plans of the Ortiz Center. This facility will allow better public access to the collections and provide space for community interns and partners to work with museum personnel on the collections as originally conceived in the Ortiz Center proposal.

H. INSTRUCTION AND SPONSORED RESEARCH

Instruction

1. Anthropology 324/524 South American Archaeology (Bawden)

2. Anthropology 328/528 Near Eastern Archaeology (Bawden)

3. Anthropology 351. Human Osteology (Komar)

4. Anthropology 570. Lithic Analysis (Huckell)

5. Anthropology 450/570. Paleoindians (Huckell)

6. Anthropology 375/575. UNM Southwestern Field School (Huckell)

7. Anthropology 530 Anthropology of Art (Salvador)

8. Anthropology 585 Museum Methods

Sponsored Research and Education

Archaeology

1. Geo-archaeological investigation and field research at the Rio Rancho Folsom Site. Funding from the National Geographic Society 2000: $12.000 (Huckell)

2. Archaeological survey to evaluate Paleoindian settlement of the Albuquerque Volcanoes. New Mexico Office of Cultural Affairs 2001: $11,437 Huckell)

3. Investigate the adoption/integration/impact of maize agriculture at MeEuen Cave, east-central Arizona. National Science Foundation 2001: $18,814 (Huckell)

4. Excavations at the Galeana Site, Nuevo Casas Grandes, Chihuaha, Mexico. Hibben Research Endowment, Maxwell Center for Anthropological Research 2000-1: $3,000 (Leonard)

5. Investigation of the Late Moche Site of Galindo, National Science Foundation 2001: $11,700 (Bawden).

6. Summer Survey at Galindo, Peru. Hibben Research Endowment, Maxwell Center for Anthropological Research 2001: $3,000 (Lockard)

7. Conservation and Storage of Feather Cave and other BLM collections at the Maxwell Museum of Anthropology, Bureau of Land Management 2001-2003: $75,000 (Bawden, Lewis)

Office of Contract Archaeology

1. PATHNET Fibre Optic line. Burns and McDonnell: $74,230

2. US 380 Excavations along Chupadera Arroyo. NM State Highway and Transportation Dept: $88,547

3. NM 22 Excavation analysis and reporting. Museum of New Mexico, Office of Archaeological Studies: $47,692

4. NM 165 Survey of Las Huertas Canyon. Blue Earth Ecological Consultants Inc.: $10,877

5. Conchas Dam Residents facility historical maintenance plan. US Army Corps of Engineers (USACE): $25,487
6. NM 344 Survey near San Pedro. Blue Earth Ecological Consultants Inc.: 2,500

7. FEMA Los Alamos/White Rock temporary housing survey. (USACE): $18,000

8. John Martin Reservoir Survey. (USACE): $53,878

9. Bartolome Sanchez Land Grant survey. Bartolome Sanchez Land Grant Association: 4,084

10. Alamogordo canalization project testing fieldwork. (USACE): $28,937

11. BMDO Missile booster stage recovery surveys. (USACE): $15,535

12. White Sands Missile Range Fence line survey. White Sands: $3,768

13. US 550 Camel Tracks Survey. NM State Highway and Transportation Dept: $9726

14. 5LA1211 Excavation of Trinidad Lake State Park, Colorado. (USACE): $75,166

15. Jemez River Survey. (USACE): $30,414

16. Laguna Excavation. USWEST: $26,266

17. FWDA. (USACE): $5,000

18. Happy Valley Survey. New Mexico National Guard: $41,807

19. Cuba Site redocumentation. FNF Construction Inc.: $2,342

20. Viveash Fire. Foster Wheeler Inc.: $2,771

21. Bear Canyon Dam Survey. New Mexico Game and Fish Dept: $4,964

22. Abiqu Camp Ground Survey. (USACE): $25,334

23. NM117. Museum of New Mexico, Office of Archaeological Studies: $17,308

Ethnology

1. Attachments to Place: Reflections on Land and Water in a Changing New Mexico, National Endowment for the Humanities 2001: $ 25,000 (Salvador)

2. Challenge Grant to Establish the Alfonso Ortiz Center for Intercultural Studies in the Maxwell Museum of Anthropology and the Department of Anthropology. National Endowment for the Humanities 1999-2002: $750,000. (Bawden, Salvador, Weigle).

Human Osteology

1. Social Science and Humanities Research Council of Canada Post Doctoral Fellowship 2000-2001: $40,000 (Komar).

Other Sponsored Programs

1. Upgrade of museum's computerized archaeological catalogue: Army Corps of Engineers 1999-2002: $30,000

2. Education Division APS K-12 Classroom Teaching Program. APS and Donation: $3,250

3. Public Programs Division continuing Monthly Ethnic Arts and Crafts Demonstration series. City of Albuquerque's Urban Enhancement Trust Fund: $8,000

Educational Programs

Exhibits

1. State Fair Exhibit. September 2000

2. Andean Textiles and Rituals as Cultural Communication Exhibit. September 2000

3. Trading Images: Shopping and Swapping along Route 66. June 2001

4. Images From The Streets. April 2001

Public Education

1. Over 400 classes in the Albuquerque Public School System.

2. Elderhostel teaching program in Maxwell Galleries. (restructured program)

3. Archaeology Fair in collaboration with the Park Service

4. Children's summer Day Camp in Maxwell Galleries

Public Programs

1. Continuing Ethnology Brown Bag Luncheon Series.

2. Continuing Human Origins *Ancestors* Lecture Series.

3. Continuing Ethnic Luncheon Program.

4. Continuing *Night Music at the Maxwell* Series.

5. Continuing Monthly Ethnic Arts and Crafts Demonstration Series.

6. Continuing Southwestern Lecture Series.

7. International Tour to Peru.

Human Osteology

1. **Forensic and Office of Medical Investigator Collaboration**
   a. 75 forensic cases, 49 produced reports.

   b. Review of 650 forensic anthropology cases.

   c. Provided DNA analysis of unidentified persons for the FBI.

2. **Education**
   a. 5 forensic skills seminars were held throughout the year.

   b. Numerous tours of the Osteology Lab.

3. **Body Donation**
   a. 9 Body donors were received and processed this year.

   b. Prepared proposal for new maceration/research facility.

   c. New Body Donation brochure written.

4. **Collections**
   a. 220 individuals in documented collection.

   b. Repatriated 16 boxes to the Gila

   c. Proposal for the lab to accept all unidentified and unclaimed individuals was reviewed and approved.

I. PERSONNEL APPOINTMENTS AND SEPARATIONS

Appointments

Michael Lewis	Curator III	7/17/00
Debra Komar	Research Assistant Professor	8/01/00
Alisha Ray	Osteology Assistant	6/11/01

Separations

Katherine Liden	Public Program Coordinator	3/05/01

J. PERSONNEL PROFESSIONAL ACTIVITIES AND PUBLICATIONS

Individual

G. Bawden (Director and Professor)
1. 2. 2000. Member of Visiting/Program Assessment Committee, Museum of Natural history, University of Kansas, American Association for the Advancement of Science.

2. 2000. Presented Invited Paper: *The End of the Moche - Collapse or Transition.* 50th Meeting of the International Congress of Americanists. Warsaw, Poland.

3. 2001. Book: *Environmental Disaster and the Archaeology of Human Response.* Anthropological Papers of the Maxwell Museum of Anthropology, No. 7. (ed. with Richard Reycraft).

4. 2001-2003. Elected General Editor and Chair for Volume Publication Committee, Society for American Archaeology.

5. 2001. Invited Lecture: *Curers, Shamans, and Sacrifice: Sacred Gift Giving in the Andes.* Anthropology Lecture Series. University of New Mexico.

6. 2001. Led Study Tour to the Andean Region for Maxwell Museum of Anthropology Association.

7. 2001. Appointed Director of the new Category 1 Research Center, The Maxwell Center for Anthropological Research, College of Arts and Sciences, University of New Mexico.

R. Chapman (Associate Director for OCA, Maxwell Museum)
1. 2000 Summary and Reflections. *In Archaeological Investigations on Rusty Nail Ridge, Fort Wingate Depot Activity, New Mexico.* Office of Contract Archaeology, UNM.

2. 2000 *Cultural Resources Survey of Bartolome Sanchez Land Grant Association Gravel Pit Expansion, Rio Arriba County, New Mexico.* Office of Contract Archaeology, UNM.

3. Chair of the UNM Board of Archaeologists.

4. Participant in New Mexico State Highway and Transportation Dept sponsored "Environmental Summit".

5. Presented Paper, *In Search of Theory*, at the 2000 Pecos Conference.

T. Cyman (Education Curator)
1. Collaborated with the Park Service and the City of Albuquerque Open Space Division to organize a Project Archaeology Workshop. Received facilitator certification.

W. Doleman (Senior Archaeologist, Office of Contract Archaeology)
1. Treasurer, New Mexico Archaeological Council.

2. Served on State Land Office's Archaeological Advisory Committee.

J. Elyea (Senior Archaeologist, Office of Contract Archaeology)
1. Federal Emergency Management Administration Survey and Monitoring Final Report.

P. Esquibel (Museum Administrator)
1. Treasurer, Museum Cooperative Council.

P. Gerow (Senior Archaeologist, Office of Contract Archaeology)
1. *Investigations at LA 3549 and LA3552, Two Early Pueblo Sites Along I-40 Near Laguna, New Mexico.* Office of Contract Archaeology, UNM.

2. *Investigations at LA 110299, a Late Dinetah Phase Occupation along U.S. 350, North of Cedar Hill, New Mexico.* Office of Contract Archaeology, UNM.

3. *Fort Craig: The United States Fort on the Camino Real.* US Dept of the Interior, BLM, Government Printing Office, Denver.

4. *Livestock Management in the American Southwest: Ecology, Society, and Economics.* Elsivir Press, The Netherlands.

5. Presented paper, *Across the Caja del Rio Plateau: Hunters and Farmers on the Northern Rio Grande,* at the 2000 Pecos Conference.

6. ID person for the Maxwell Museum's Identification Day.

P. Hogan (Senior Research Scientist, Office of Contract Archaeology)
1. *The Cultural-Temporal Affinity of the Tancosa Site (LA 50460).* Pp.133-138.

2. *Investigations at LA 110299, a Late Dinetah Phase Occupation alson US 550.*

3. Attended meetings with Petroglyph National Park to explore cooperative agreement with OCA/Maxwell Museum/

4. OCA partnership with New Mexico Army National Guard in co-sponsoring Native American Consultation Workshop.

5. Attended SAA annual meeting.

6. Participant in Fruitland Conference synthetic report workshop.

B. Huckell (Senior Research Coordinator and Research Associate Professor)
1. *Current Research in the Pleistocene* 17:45-47.

2. Review: *Projectile Technology, Lithic Technology* 26:82-85.

3. Review: *Folsom Lithic Technology, Explorations in Structure and Variation. Journal of Anthropological Research* 57: 251-252.

4. *Folsom Settlement and Paleoenvironment at the Rio Rancho Site, New Mexico.* Paper presented at the 66th Annual Meeting of the Society for American Archaeology, New Orleans.

5. Presented paper on the NGS-sponsored work at testing of the Rio Rancho Folsom Site at the 2000 Pecos Conference.

6. Presented a public talk to the Taos Archaeological Society on Folsom archaeology in the Middle Rio Grande.

D. Komar (Human Osteology Lab Director and Research Assistant Professor)
1. Presented workshop on ageing and biological affinity at the Gross Conference for Medical Residence.

2. Assisted in Trial Consultancy.

3. Delivered lecture to Maxwell docents on her experiences in Bosnia.

4. Mentored local high school student.

5. Presented as part of the OMI Seminar series her work in Bosnia and Kosovo.

6. Appointed to the State's Board of Medical Examiners.

7. Interviewed by the Discovery Channel as part of a documentary on decomposition.

8. Delivered paper, *Differential Decay Rates in Single and Multiple Graves in Bosnia,* at the Aerocam Academy of Forensic Sciences annual meeting.
9. Attended conference on Weapons of Mass Disaster.

10. Was awarded a Social Science and Humanities Research Council of Canada Postdoctoral Fellowship, $40,000.

M. Lewis (Curator of Archaeology)
1. Attended Alaska Anthropological Association meeting in Fairbanks, Alaska

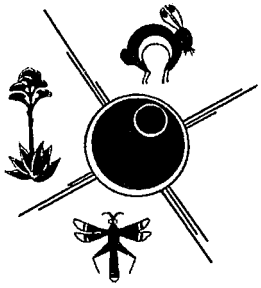
J. Schutt (Senior Archaeologist, Office of Contract Archaeology)
1. *An Archeological Survey Along New Mexico 165 in the Las Huertas Canyon, Sandoval and Bernalillo, New Mexico.* Report No. 185-684

2. *Archeological Investigations on Rusty Nail Ridge, Fort Wingate Depot Activity, New Mexico.* Report No. 185-569

3. President of the Archaeological and Historical Research Institute

4. Provided tours of the petroglyphs along New Mexico Highway 60.

ANNUAL REPORT
of the
DEPARTMENT of BIOLOGY



FY 2000–01
Annual Report
by:

Kathryn G. Vogel, Chair
Department of Biology
The University of New Mexico

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THE UNIVERSITY OF NEW MEXICO
DEPARTMENT OF BIOLOGY

FY 2000–2001

EXECUTIVE SUMMARY

STUDENTS

Undergraduate Program

The Department of Biology continues to have the greatest number of undergraduate majors of all departments in the College of Arts and Sciences. This number is holding steady at approximately 1,100 for the third year in a row (Table 1). As shown in Table 2, the number of Student Credit Hours generated in Biology has been remarkably steady for more than 20 years. This year the Biology department generated 21,358 total SCH. In comparison with other departments, Biology ranks third in total SCH generated—lower than Mathematics and English, and about the same as Psychology. Table 3 shows that the SCH are distributed quite equally between Fall and Spring semesters with graduate hours accounting for about 8% of the total.

Table 1: Number of Students With a Declared Major in Biology

	Fall 1998	Fall 1999	Fall 2000
Undergraduate:			
A&S	815	805	788
University College	266	304	287
Second Major	21	11	46
Graduate:	106	100	107
Total:	1,208	1,220	1,228

Table 2: Total Student Credit Hours (SCH)

YEAR	SCH	YEAR	SCH
1979–80	20,596	1995–96	23,360
1989–90	17,527	1997–98	21,627
1991–92	20,944	1999–00	21,882
1993–94	22,135	2000–01	21,358

Table 3: **Student Credit Hours by Semester And Undergraduate (UG) Vs. Graduate Student (G)**

1998-99				2000-01			
Semester	UG	G	Total	Semester	UG	G	Total
Summer 98	594	97	691	Summer 00	527	98	625
Fall 98	10,026	783	10,809	Fall 00	9,831	858	10,689
Spring 99	9,007	809	9,816	Spring 01	9,201	753	9,954
	19,627	1,689	21,316		19,627	1,689	21,268
	92.17%	7.97%			92%	8%	

We are tracking the number of students enrolled in our core majors curriculum in order to better plan for the needs of these students in upper-level courses. For the first time in several years, there was somewhat of a decrease in the student population in the beginning courses (Biol. 121 and 122) in 2000/01 (Table 4). This might indicate that the number of students planning to major in Biology will diminish in a few years. Alternatively, this drop might indicate that we are having some success in directing students away from the beginning core course (which has a rather high rate of failure/non-completion) and into the more appropriate beginning courses for non-majors. Indeed, there was an increase in the number of students enrolled in our beginning course for non-majors (Biol. 110) and the course for those heading for training in health care fields (Biol. 123). In either case, this is a positive development for the department. Table 4 further shows that there has been no drop in the number of students enrolled in the 200-level core courses for majors (Biol. 219 and 221). This is consistent with the fact that the number of majors in Biology is holding steady and allows us to predict that the number of upper-level students will remain similar to what it has been for the last few years.

Table 4A: **Number of Students Registered in Undergraduate Core Courses For Biology Majors**

COURSES	1997-98	1998-99	1999-00	2001-01
121 & 122	1,428	1,520	1,646	1,382
219 & 221	855	799	866	860

Table 4B: **Number of Students Registered in Undergraduate Core Courses For Biology Non-Majors**

COURSES	1998-99	1999-00	2000-01
110 & 123	256	324	391

The number of undergraduate degrees awarded in Biology remained above 200 for the third year in a row (Table 5). An important observation is that although our total SCH have not changed very much in the last 20 years, the number of majors has increased substantially. This fact is driving our belief that we must change our priorities. We must offer more high-quality courses at the upper division level. If resources continue to remain constant, then we must somehow diminish the proportion of those resources expended on the large going to large beginning classes.

Faculty in the department remain very concerned about our ability to provide the highest quality of educational experience for such a large number of majors while also maintaining the highest level of faculty scholarship. Several senior faculty members began to address this issue in the context of trying to develop a stronger core of class work for graduate students. A faculty retreat held in April specifically focused on undergraduate education with a mandate to explore specific plans for change early in the Fall semester.

Table 5: **Degrees Awarded in Biology** (unofficial count obtained at May graduation)

	1979-80	1994-95	1998-99	1999-00	2000-01
B.S.	88	156	220	230	201
B.A.	—	17	19	24	23
M.S.	n.d.	10	9	9	6
Ph.D.	n.d.	17	17	8	6

Graduate Program

According to Fall 2000 enrollment data, there were 107 graduate students in the Dept. of Biology. The names of 115 students active during 2000-01 are listed in the Appendix. During the year there were 7 M.S. and 10 Ph.D. awarded.

There are 21 new graduate students beginning their studies in Fall 2001 (and one starting in the Spring 2002). In Fall 2000, the number was 24. Although the number of applicants for graduate study is lower now than it was 5–10 years ago (as is true throughout the nation), we are still getting

a satisfactory number of applicants and feel very good because of the high quality of these applicants. Overall, the graduate program remains strong. A major effort by the Graduate Policy Committee led to the proposal and eventual institution of a graduate core course in the area of Ecology and Evolutionary Biology. This class will start during the Fall 2001 semester.

FACULTY

Personnel

During the Fall 2000 semester, we had 32 tenure-track faculty in the department; four of these were on leave (one sabbatical, one research semester, one medical leave, one at NSF). Two lecturers were hired during the summer, bringing the number of instructors in the department to five. In the Spring semester, we had 31 tenure-track faculty, with two people on sabbatical, one research semester and one on leave. In addition, one Visiting Assistant Professor and approximately 10 part-time instructors helped us carry out our teaching mission.

Hired in Fall 2000
Blair O. Wolf, Assistant Professor
Lee Couch, Lecturer II
James Swan, Lecturer II

Recruited in 2000–01
Luis Cadavid, will begin Fall 2001
Cristina Takacs, will begin Fall 2002

Mid-Probationary Review
Richard M. Cripps, Assistant Professor
Thomas F. Turner, Assistant Professor
Andreas Wagner, Assistant Professor

Promoted to Distinguished Professor
James H. Brown, Professor
Randy Thornhill, Professor

Appointed Regents' Lecturer
Mary Anne Nelson, 2000–03

On Leave During 2000–01
Donald W. Duszynski, sabbatical Spring 2001
Manuel C. Molles, Jr., sabbatical 2000–01
Fritz Taylor, medical leave, Fall 2000
Terry Yates, on leave to NSF, Washington, D.C. 2000–01

Research Semester
Richard M. Cripps, Spring 2001
Don Duszynski, Fall 2000

Retired During 2000-01
Fritz Taylor, Associate Professor

Deceased
Howard Dittmer, Professor Emeritus, August 2001

Scholarly Publications

The tenure-track faculty continue to be a vigorous and successful group of scientists. The remarkable aspect of this faculty is that everybody is contributing and active; the department is not carried by only a few superstars. As reported in year 2000 biographical data, faculty members published 96 articles in 2000, for an average of 3.1 publications (range, 0–9) per faculty member (96/31). Ninety percent of the faculty published at least one article in 2000 (28/31). In addition to publications, the faculty were invited to deliver seminars elsewhere or contributed abstracts for presentation at a high rate. During 2000 the faculty made 189 presentations (range 1–21) for a mean of 6.1 per faculty member. A faculty with this level of research activity will certainly feel acute stress at also being expected to maintain the high level of teaching that is needed.

Sponsored Research

The total research funds brought to UNM by the Dept. of Biology in 2000 was $8,506,593. This figure does not include funding for several very large educational programs that are run by Biology Dept. faculty. A quick count of all grants held by tenure track faculty in 2000 tallied 115, for a mean of 3.7 grants/faculty member (115/31). Of greater significance is the fact that 90% of the tenure-track faculty held at least one funded grant in 2000 (28/31). [It is worth pointing out that the three faculty member who worked without grant funding in 2000 are not the same as the three faculty members who did not have publications come out in 2000.]

MAJOR DEPARTMENTAL EDUCATION INITIATIVES

1. NSF-funded grant for training graduate students and post-docs: "Biocomplexity: The Scale of Biodiversity"; James H. Brown, Bruce T. Milne; $2,099,031; 1995–2000. (Note: a new Biocomplexity Training Grant has been funded from 2001–2006.)

2. NSF-funded grant for training graduate students in hydrology and geochemistry; awarded in collaboration with Dept. of Earth and Planetary Sciences at UNM, and University of Alabama: "IGERT: Freshwater Graduate Studies Link Fundamental Science with Applications Through Integration of Ecology, Hydrology and Geochemistry in Regions with Contrasting Climates"; Clifford N. Dahm; UNM subcontract of $1,242,500; 1999–2003.

3. NIH-funded grant for minority undergraduate research: "Initiative for Minority Student Development at UNM," the former MBRS, now known as IMSD; Donald O. Natvig, co-program director; $2,285,329; 2000–2004.

4. NIH-funded grant for minority undergraduate research: "Undergraduate Biomedical Research Training—Minority Access to Research Careers" (MARC); Kathryn G. Vogel, Program Director; $233,000/year; 2000–2005.

5. NSF-funded undergraduate research training at Sevilleta Field Station: "Research Experiences for Undergraduates Site Program with the Sevilleta LTER: Ecosystem Productivity, Biodiversity and Systematics"; James R. Gosz, Robert R. Parmenter; $120,000/year; 1999–2001.

MUSEUM OF SOUTHWESTERN BIOLOGY

A plan to designate the Museum of Southwestern Biology (MSB) as a distinct division of the Dept. of Biology was written two years ago and passed provisionally with the understanding that it would be revisited and acted upon permanently in two years. Both Timothy K. Lowrey, Director of MSB, and Kathryn G. Vogel, Chairman, feel that the plan is working well. The faculty voted in April to make the arrangement permanent. An additional conversation is underway concerning incorporation of the New Mexico Natural Heritage Project as a division of the MSB. This will be considered by the full faculty in the Fall.

Phase I of the project to remodel the Old Bookstore building into the new Museum of Southwestern Biology is nearly complete. Most of the divisions have moved their collections and staff into the new building. Some major difficulties with shelving that did not meet specifications has delayed transport of the Division of Fishes collection.

Funds are still not secured to complete build out of the museum space. The third floor remains unfinished and the LTER Network Office is still renting space in the South Campus complex. A plan to obtain $7 million from the state legislature in order to complete the museum and to also remodel vacated space in Castetter Hall was placed in the #2 position on UNM's list of main campus facility priorities. The CHE deleted this item from their final list, but added $4 million to another UNM request for renewal of core facilities. The understanding was that this money would largely be to work on the biology project; however, this did not happen. Governor Gary Johnson was upset with the legislature for not enacting his tax cut and school vouchers plans and thus all capital requests were vetoed. Very discouraging, but here we are . . . a half-built museum, a partially empty basement, and no funds to make either space truly usable.

STAFF

After a year in their new quarters both the Accounting and the Graduate Student Program/Main Office groups agree that the move was a success. Remodel of the main office was completed by John Cox, Shop Supervisor, during the fall and the Physical Plant folks never asked any questions. We're learning! Sharon Kubler retired in February after serving as Department Administrator for

nearly 15 years, a very big loss. Marla Wonn stepped into the Dept. Administrator position in April and together we continue the quest to understand the budget, the deals, and our amazingly complex Overhead (IDC, F&A) budget.

COLLEGE EVALUATION—BIOLOGY IS NUMBER 1!

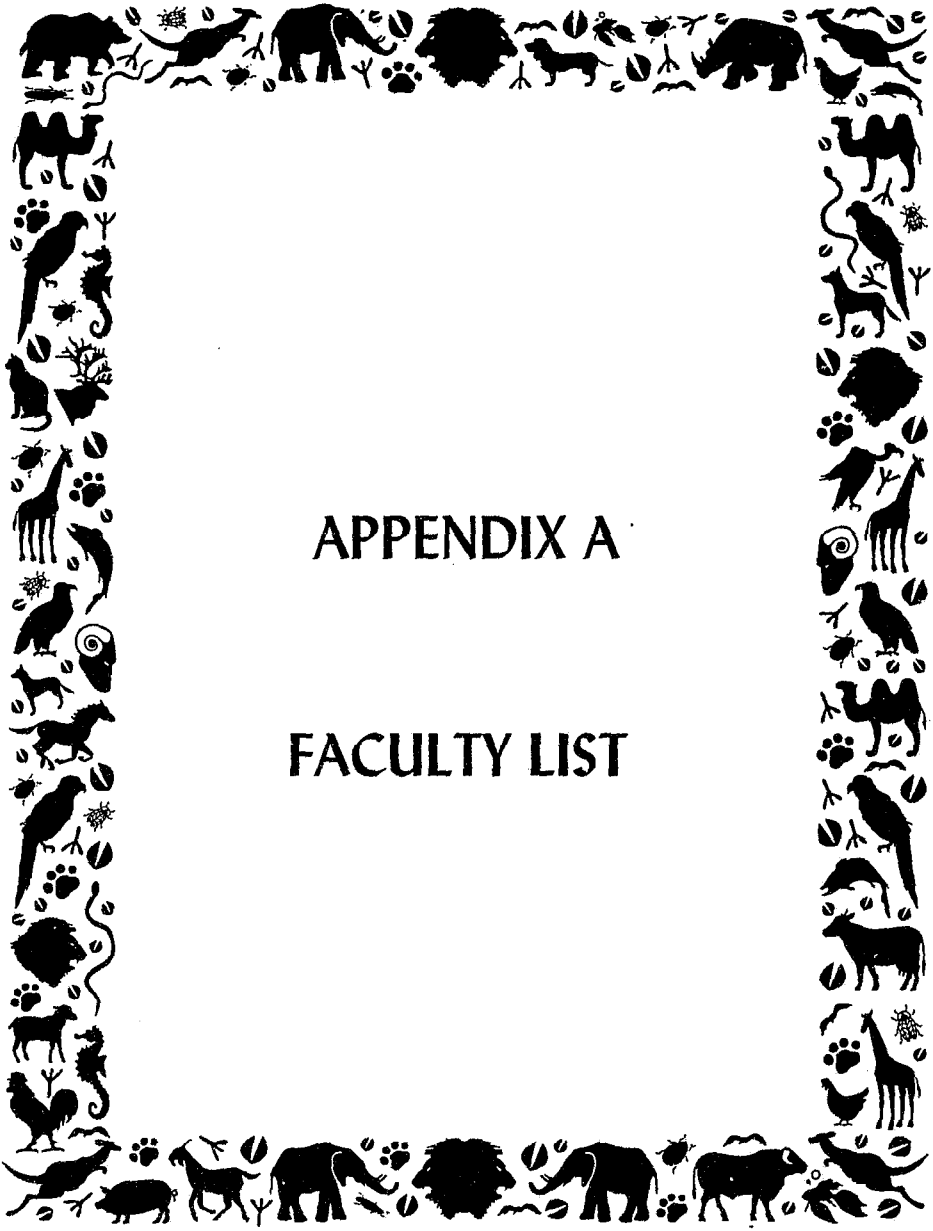
The College of Arts and Sciences, under Interim Dean Fritz Allen, undertook an evaluation that produced a ranking of all departments. The areas of evaluation included teaching quality, research quality, and efficiency. The Department of Biology is pleased to have been ranked as #1 in this evaluation. By linking this evaluation to the allocation of raise money in the college, there was an increased increment to the Biology Department. The raise that every faculty member received this spring included an extra $564 that was due to this evaluation process. Not surprisingly, a number of departments were unhappy with the evaluation process and its result. K.G. Vogel was on the committee that designed the evaluation process and she continues to believe this was a fair and accurate assessment of our department. We have excellent teaching, extraordinary research productivity, and we teach a very large number of students with few PTI faculty and a rather small instructional budget. Good job, Biology!

CONCERNS

There are two large and interlocking concerns facing the Dept. of Biology. The first is the low number of tenure-track faculty. Right now (Fall 2001) we have only 30 tenure-track faculty on contract. A few years ago we had 37 tenure track faculty. This number was reduced by a large number of retirements several years ago. However, in spite of continuous hiring, we have not been able to get the number back up. It is clear that members of our faculty are prime targets for being hired away by institutions that offer higher salaries, lower teaching loads and another larger set-up package. Several retirements also aro looming. Our excellence is precarious.

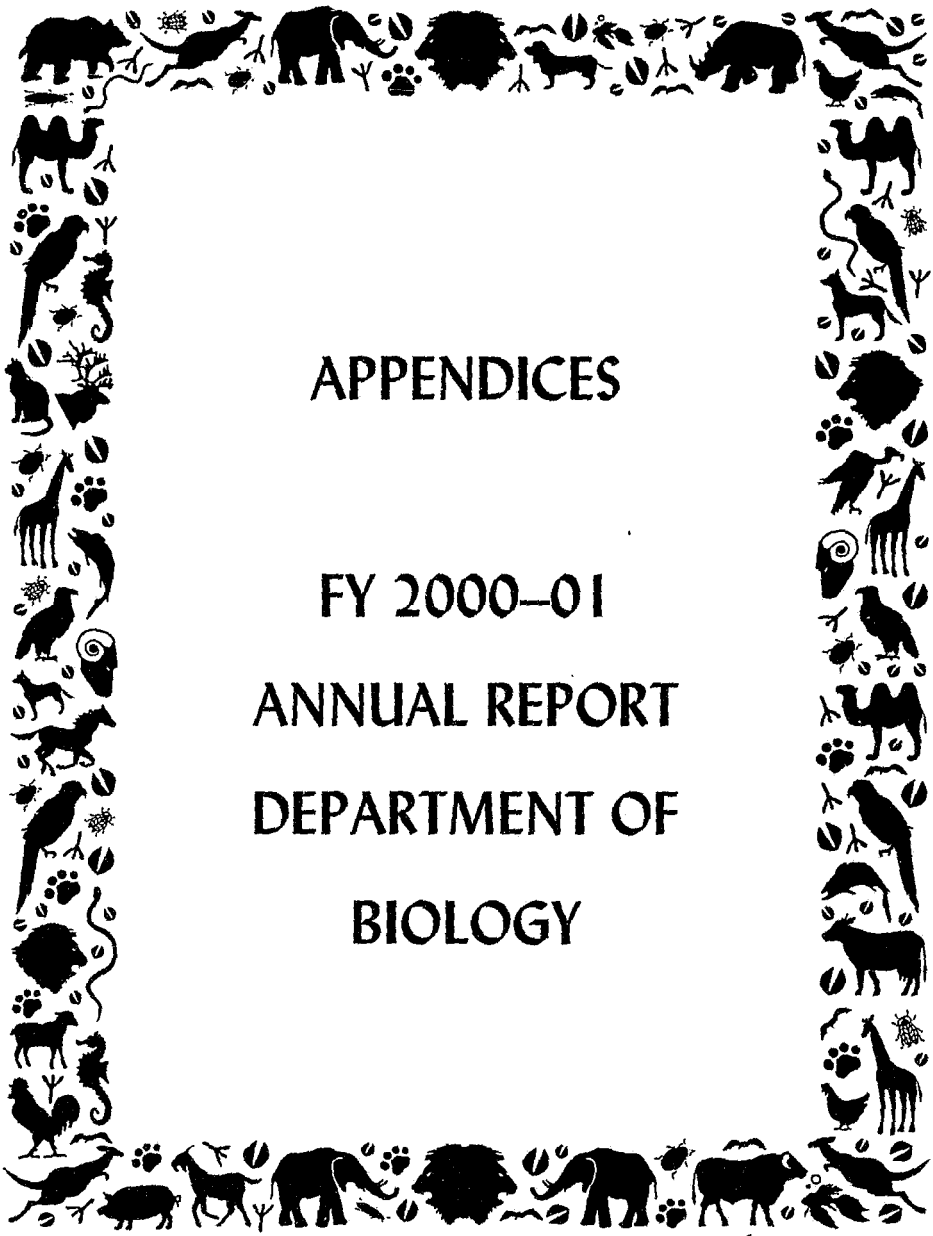
The second concern is the need to complete the museum and remodel our building. We do not have additional lab space for the new faculty hires that we hope to make. Our teaching laboratories are in terrible condition, but still are fully scheduled. Unless the resources are found to undertake this remodel very quickly, so that new faculty can be hired, there is a real possibility of additional losses and a diminished physical and intellectual environment.

Kathryn G. Vogel, Ph.D.
Professor and Chairman
September 11, 2001



APPENDIX A

FACULTY LIST



APPENDICES

FY 2000–01 ANNUAL REPORT DEPARTMENT OF BIOLOGY

Faculty list -

Fall 2000

Scott Altenbach

Larry Barton

James Brown

Eric Charnov

Richard Cripps

Cliff Dahm

Donald Duszynski

David Faguy

James Gosz

Astrid Kodric-Brown

Larry Li

David Ligon

Sam Loker

Tim Lowrey

Diane Marshall

Bruce Milne

Rob Miller

Manuel Molles (sabb)

Don Natvig

Mary Anne Nelson

Will Pockman

Howard Snell

Steve Stricker

Fritz Taylor (on leave)

Randy Thornhill

Eric Toolson

Tom Turner

Kathryn Vogel

Andreas Wagner

Maggie Werner-Washburne

Blair Wolf

Terry Yates (on leave)

Lecturers

Lyle Berger

Lee Couch

Bruce Hofkin

Sandy Ligon

Jim Swan

Visiting Assistant Professor

Ken Sylvester (428, 429)

Part-time Instructors

Amy Marion (121, 110)

Patty Wilber (122)

Lisa Ellis (407/507)

Ellie Trotter (402/502)

Ursula Shepherd (402 honors' program)

Cliff Crawford(402/502)

Mary Stuever (402/502)

Jerry Dragoo (402/502)

Robt Harrison(402/502)

Richard Fagerlund (402/502)

Michael Bogan (489)

Jorge Salazar-Bravo (489)

William Kuipers (402/502)

Faculty list -

Spring 2001

Scott Altenbach

Larry Barton

James Brown

Eric Charnov

Richard Cripps

Cliff Dahm

Donald Duszynski (sabb)

David Faguy

James Gosz

Astrid Kodric-Brown

Larry Li

David Ligon

Sam Loker

Tim Lowrey

Diane Marshall

Bruce Milne

Rob Miller

Manuel Molles (sabb)

Don Natvig

Mary Anne Nelson

Will Pockman

Howard Snell

Steve Stricker

Randy Thornhill

Eric Toolson

Tom Turner

Kathryn Vogel

Andreas Wagner

Maggie Werner-Washburne

Blair Wolf

Terry Yates (on leave)

Lecturers

Lyle Berger

Lee Couch

Bruce Hofkin

Sandy Ligon

Jim Swan

Visiting Assistant Professor

Ken Sylvester (221, 449)

Part-time Instructors

Anna Sher (360)

Wade Wilson (239L)

Shawn Wright (221)

Ellie Trotter (402/502)

Deborah Potter (402/502)

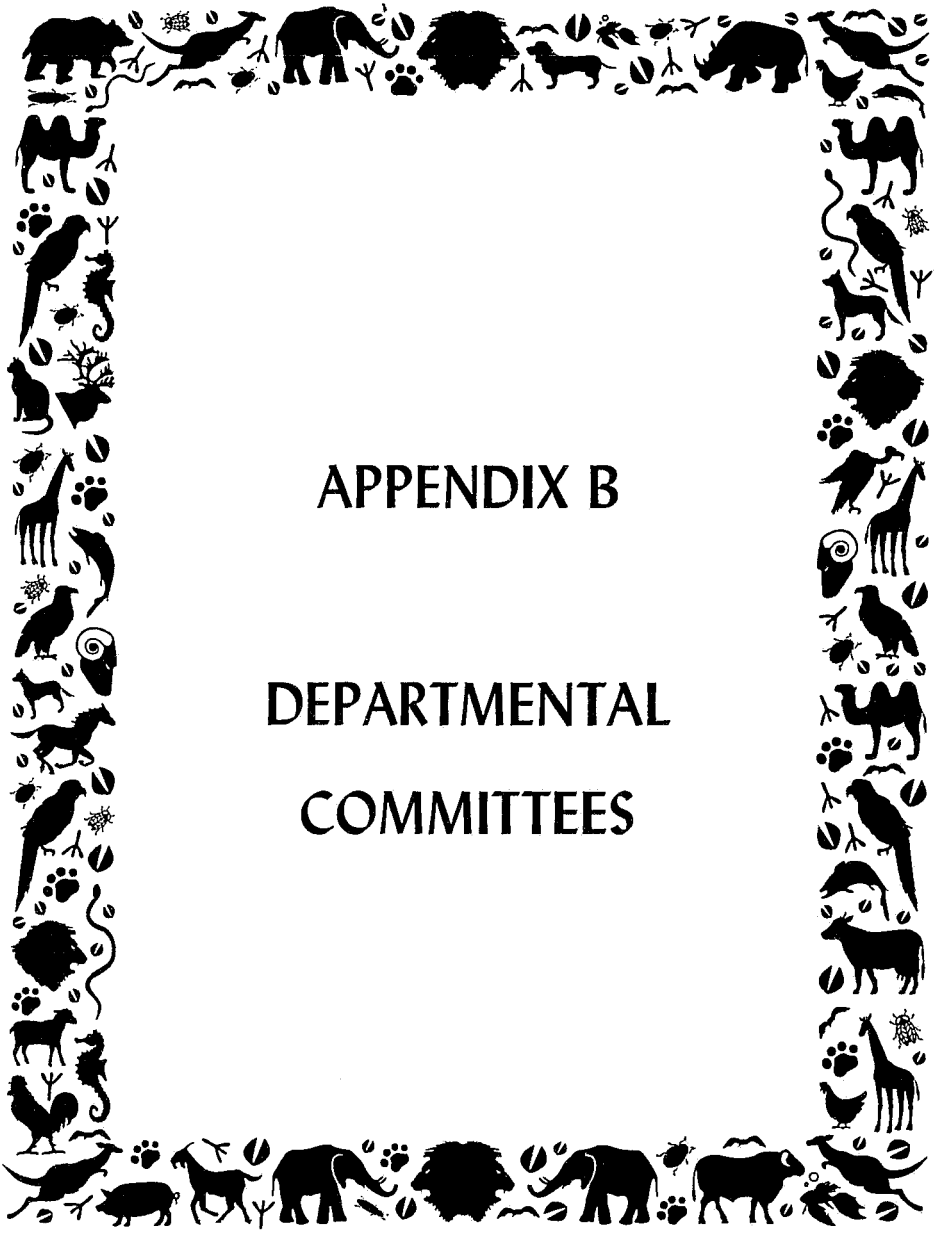
Cliff Crawford(402/502)

David Lightfoot (475/575)

Jerry Dragoo (402/502)

Bob Parmenter (475/574)

William Kuipers (402/502)



APPENDIX B

DEPARTMENTAL COMMITTEES

Departmental Committees - 2000/2001

Chairman
Kathryn Vogel

Assoc. Chair
Scott Altenbach

Director, Museum of SW Biology,
Tim Lowrey

Executive Committee
Richard Cripps
Cliff Dahm
Sam Loker
Steve Stricker
Tom Turner

Undergraduate Policy
Mary Anne Nelson, Chr
Scott Altenbach
Drew Kerkhoff, BGSA
Bruce Milne
Will Pockman
Jim Swan
Carol Brandt

Graduate Student Selection
Jim Brown, Chair
David Faguy
Kelly Howe, BGSA
Bruce Milne
Don Natvig
Larry Li

Graduate Policy
Randy Thornhill, Chair
Ric Charnov
Cliff Dahm
Diane Marshall
Rob Miller (Fall)
Jen Parody, BGSA
Tom Turner
Maggie Werner-Washburne

Graduate Advisor
Ric Charnov

Space/Buildings
David Ligon, Chair
John Cox
Vivian Kent
Sam Loker
Tim Lowrey
Don Natvig
Tim Parker, BGSA

Computer Facilities
Nancy Davis, Chair
Maureen Leonard, BGSA
Larry Li
Will Pockman
George Rosenberg
Andreas Wagner
Paul Watson

Web Oversight
Nancy Davis
Rob Miller
Ann Rice
Paul Watson

Comparative Immunobiology Search Committee
Sam Loker, Chair
Astrid Kodric-Brown
Richard Cripps
Rob Miller
Xao-min Zhao, BGSA

Microbial Ecology Search Committee
Cliff Dahm, Chair
David Faguy
Jim Gosz
Andreas Wagner
Maggie Werner-Washburne
Diana Northup, BGSA

Seminars
Eric Toolson
Karen Gaines, BGSA

Museum SW Biol. Executive Comm.
Tim Lowrey, Chair
Curators
Don Natvig

Greenhouse
Diane Marshall, Chair
Tim Lowrey
William Pockman
Jerusha Reynolds, BGSA
Jane Mygatt
Joy Avritt

Research Day
Astrid Kodric-Brown, Chair
Christina Fridrick, BGSA
Larry Li
Toni Smythe, BGSA
Ken Sylvester
Blair Wolf

Promotion/Tenure
Diane Marshall
David Ligon

Graduation
Scott Altenbach
Blair Wolf

Co-President, Biology Graduate Students Association
Maureen Leonard
Kate Thibault

Undergraduate Academic Advising
Carol Brandt, Advising Coordinator
Steve Stricker
Lee Couch
Bruce Hofkin
Jim Swan
Ken Sylvester

Scholarship Committee
Steve Stricker, Chair
Larry Barton
Jim Gosz

Ad hoc Field programs and Vehicles
Bob Parmenter
Will Pockman

Museum SW Biol. Executive Comm.
Tim Lowrey, Chair
Curators
Don Natvig

A&S undergrad rep.
Mary Ann Nelson

A&S graduate rep.-
Randy Thornhill

Honors Program
Advisor - Bruce Milne

Molecular Biology facility - Rob Miller

Microscopy facility - Steve Stricker

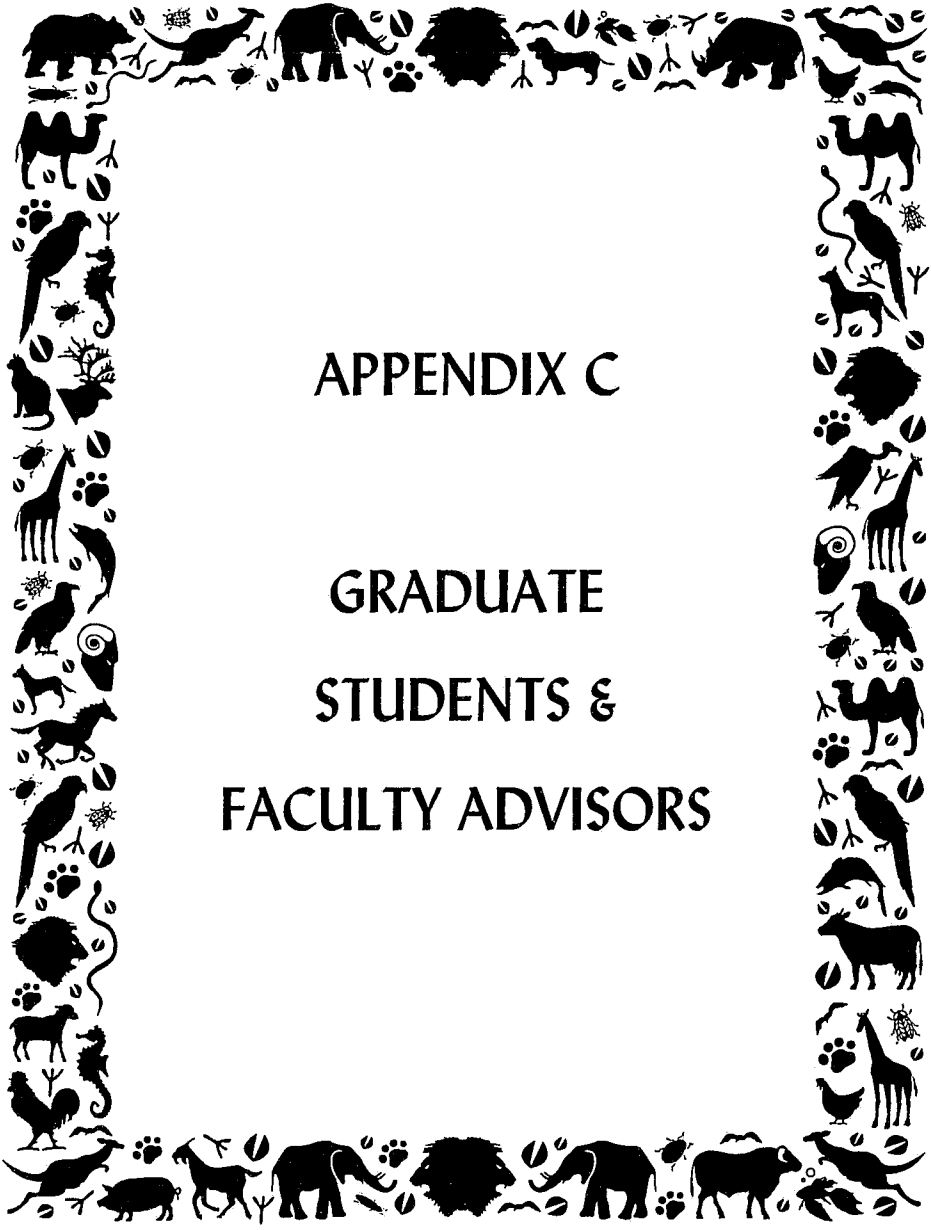
Faculty Senate - Richard Cripps

LTER - Jim Gosz, Director

Genome Alliance - Margaret Werner-Washburne, Director

UNM Biosafety Committee
David Faguy

proposed 8/30/00



APPENDIX C

GRADUATE STUDENTS & FACULTY ADVISORS

GRADUATE STUDENTS & FACULTY ADVISORS 2000 - 2001

STUDENT	ADVISOR
Allen, A.	Milne
Alo, D.	Turner
Altamirano, M.	Snell
Ancell, C.	Dahm
Andrews, P.	Thornhill
Asmundsson, I.	Duszynski
Baker, P.	Cripps
Ballantyne, F.	Brown
Barber, K.	Loker
Barlow, P.	Lowrey
Bishop, Y.	Barton
Boykin, L.	Lowrey
Burt, S.M.	Yates
Buxbaum, C.	Gosz/Dahm
Chen, Y.	Yates
Chung-MacCoubrey	Brown/Bogan
Cline, K.	Thornhill
Conant, G.	Wagner
Cryan, P.	Altenbach
Davidson, A.	Gosz
Decker, E.	Milne
DeJong, R.	Loker
Ditto, A.	Natvig/Smith
Dudley, R.	Turner
Dunnum, J.	Yates
Earsom, S.	Snell
Edwards, M.	Turner
Eichhorst, K.	Mlles/Crawford
Ennis, M.	Gosz
Enquist, C.	Molles
Ernest, M.	Brown
Evangelisti, A.	Wagner
Fincher, C.	Thornhill
Flores-Ramirez, S.	Miller
Follstad, J.	Dahm
Franklin, M.	Thornhill
Frazier, C.	Lowrey
Fridrick, C.	Barton
Friggins, M.	Yates
Fuller, M.	Li
Gaines, K.	Brown
Galbraith, J.	Natvig
Garcia, A.	Yates
Geluso, K.	Brown

STUDENT	ADVISOR
Giermakowski, J.	Snell
Goodwin, M.	Li/Gosz
Guzman, L.	Molles
Hall, P.	Marshall
Harding, L.	Yates
Heilman, A.	Johnson, G.
Hertel, L.	Loker
Hill, J.	Ligon
Howard, K.	Kodric-Brown
Howe, K.	Nelson
Hraber, P.	Milne/Brown
Hurlbert, A.	Yates/Brown
Keil, P.	Thornhill
Kelly, K.	Cripps
Kerkhoff, A.	Milne
Kim, H.	Nelson
LaRue, W.	K-B/Charnov
Leonard, M.	Kodric-Brown
Leonard, P.	Loker
Linderoth-Hummel, O.	Molles
Lynch, A.	Duszynski
McClellan, Y.	Gosz
McDonnell, D.	Dahm
McPhee, M.	Hofmann
Miska, K.	Miller
Morin, M.	Miller
Morita, C.	Marshall
Moses, M.	Brown/Milne
Northup, D.	Dahm
Nowak, T.	Loker
Oliva, J. P.	Marshall
Parker, G.	Barton
Parker, T.	Ligon
Parody, J.	Brown
Passell, H.	Carroll
Perry, T.	Yates
Phillips, R. B.	Snell
Platania, S.	Snell
Platero, H.	Nelson
Plunkett, R.	Barton
Powell, A.	Natvig
Putze, M.	Brown
Racz, G.	Yates
Reynolds, J.	Lowrey

GRADUATE STUDENTS & FACULTY ADVISORS 2000 - 2001

STUDENT	ADVISOR
Rosenfield, J.	Kodric-Brown
Ryan, M.	Duszynski
Schultz, A.	Snell
Sherwin, R.	Altenbach
Shore, G.	Gosz
Shoup, S.	Lewis, P&L
Sias, D.	Snell
Smith, B.	Ligon
Smythe, T.	Stricker
Strietelmeier,E.	Barton
Suzan, G.	Yates
Tech, C.	K-Brown
Thibault, K.	Yates
Tibbets, T.	Molles/Lowrey
Tinnin, D.	Yates
Tull, D.	K-Brown
Valdez, E.	Altnbach/Bogan
Walker, H.	Brown
Walker, K.	Carroll
Walsh, R.	Vogel
Wang, X.	Li
Watson, M.	Altenbach
Weise, C.	Yates/Bogan
Whalen, D.	Gosz
White, E.	Brown
Yanoff, S.	Lowrey
Zhao, X.	Duszynski

STUDENT	ADVISOR

APPENDIX D

ANNUAL REPORT:

MOLECULAR BIOLOGY FACILITY

MOLECULAR BIOLOGY FACILITY

Department of Biology
Fiscal Year 2000-2001
Director's Report
Robert D. Miller

The Molecular Biology Facility (MBF) at the UNM Department of Biology provides three principal areas of support. First, it is a common equipment facility for faculty and students who routinely use the tools of molecular biology in their research. Second, it is a support facility for faculty and students who do not have laboratory space of their own suitable for conducting research that uses the techniques of molecular biology. Third, the MBF provides support for several classes with teaching equipment, student training, and outreach to non-UNM organizations. All three roles are equally important and interdependent. The MBF is also utilized by faculty and students for both research and training from other College of Arts & Sciences Departments including Anthropology and Earth & Planetary Sciences and by investigators from the School of Medicine. Based on the data contained in this report, the MBF is arguably among the most heavily utilized units within the Biology Department outside of the main office.

The MBF's role in education and training in the Department and the community also continues to grow. Four courses taught within Biology (Biol. 220, 444, 446, and 478) used the facility.

The MBF also hosted visits from Albuquerque area high school science classes and teachers and MBF personnel visited local high schools. The most critical role in training which the MBF plays however remains direct, hands-on research experience for graduate students and undergraduates working on independent projects with faculty mentors.

Highlights for the 2000-2001 fiscal year include:

1. Based on data from the Office of Research Services, there are currently 28 active grants which utilize or depend on the MBF at UNM, totaling more than 6.21 million dollars.

2. Based on a search of the SciSearch database maintained at the Los Alamos National Laboratory, there were 10 peer reviewed manuscripts published between July 1, 2000 and June 30, 2001 and 6 in press, which reported research that was generated using the MBF.

3. The agreement between the Departments of Biology and Anthropology, first established in 1998, was reaffirmed. This agreement makes the MBF equally available to all Anthropology and Biology faculty, staff and students.

MOLECULAR BIOLOGY FACILITY AT THE UNM DEPARTMENT OF BIOLOGY

STAFF

Director: Robert D. Miller

Research Scientist/Manager: George H. Rosenberg

Teaching Assistants:

Xiaomin Zhao (Biology Fall 2000)

Jamie Smith (Anthropology Spring 2000)

Melissa Morin (Biology Summer 2001)

Other:

Wade Wilson (Research Technician)

Marta Strzyzewski (Work Study, Fall 2000)

Jody Chavez (Work Study, Spring 2000)

MAJOR EQUIPMENT ACQUISITIONS

Macintosh G4 Computer

MJ Reseach Tetrad Engine Thermal Cycler

USERS:

Faculty (19):

Barton, Cripps, Dahm, Duszynski, Faguy, Hofkin, Johnson, Loker, Lowrey, Miller, R., Natvig, Nelson, Stone (Anthropology), Stricker, Turner, Vogel, Wagner, Werner-Washburne, Yates

Adjunct or Part-time Faculty (5):

Coen Adema, Jerry Dragoo, Felica Smith, Ana Perez, Wendy Fuge, Vickie Peck

Postdoctoral Fellows (11)

Siming Zhang, Jess Morgan, Michelle Baker, Greg Saenz, Bill Dvorachek, Pat Dolan, John Wares, Anna Colina, Juanita Martinez, Jorge Salazar-Bravo

Biology Graduate Students (32):

Richard Plunkett, Kathleen Kelly, Christina Fridrick, Phill Baker, Dianna Northup, Andi Hunter, Xiaomin Zhao, Ingrid Asmundseon, Armand Dichosa, Steven Long, Thomas Nowak, Pascale Leonard, Randy DeJong, Paula Hall, Laura Boykin, Kate Mishka, Melissa Morin, Suzanne Shoup, Amy Powell, Hyojeong Kim, Kelly Howe, Harriet Platero, Amy Ditto, Toni Symthe, Megan McPhee, Dominque Alo, Gavin Conant, Allison Errett-Gold, Anthony Aragon

Anthropology Graduate Students (5):

Cecil Lewis, Jamie Smith, Jada Benn, Alicia Wilber, Hsiuman Lin

Undergraduates (26)

Erin Gonzales, Jamie Reif, Thiennga Nguyen, Ankita Nanavaty, Marco Molina, Mula Akbar, Stryder Meadows, Marc Toso, April Wright, Amanda Woodards, Marta, Strzyzewski, Jody Chavez, Janice Salazar, Amber Arave, Jose Weber, Lauta Pletsch-Rivera, Diego Martinez, Cory Hillyer , Katie Grushalla, Christine Lovato, Katie Siegfried, Michael Perrine, Joanna Bernacik, Amanda Archuleta, Angelina Sanchez

Visiting Scientists Using the Facility (3)

Jim Gayle (UNM School of Medicine, Dept. of Cell Biology and Physiology)
Mary E. Shaw (NM Highlands University)

Research Staff (5)

Daniell Burke, Tyanna Lovato, Lynn Hertel, Wade Wilson, Jose Weber

INSTRUCTION AND TRAINING

Formal Courses which used the MBF

Biol 220, Cell Biology Problems
Biol 446/546, Molecular Methods (Natvig and Cripps)
Biol 444, Genomic Analyses
Biol 478, Plant Physiology (Gordon Johnson)

Visitors:

1. Jennifer Jacobs, Ph.D. student in Nuclear Engineering UNM, working with Dr. Faguy and is a Sandia Intern with Sandia scientist Bob Turman
2. Dr. Mary E. Shaw, Sandra Diaz DeLeon, Levi Maes, and Jules Rir-sima-ah, NM Highlands University.
3. Monica Manginella from Sandia working with Dr Werner-Washburne

Public Outreach

1. Demonstration for Highland High School, Teacher Oni Leach and 18 students, at MBF on 4/13/00.
2. Wade Wilson, Jamie Smith and G. Rosenberg visited Highland High School to judge their Molecular Biology projects. Arranged by Oni Leach, 4/27/01.

Other Undergraduate Training Programs

1. NASA PURSUE Program (Gordon Johnson)
2. NGP at UNM (Mary Anne Nelson)
3. IMSD
4. MARC

SPONSORED PROJECTS WHICH USE THE MBF

Principal Investigator(s): Adema, Coenraad
Title: Function and Diversity of Molluscan FREPs
Sponsor: National Science Foundation
Amount: $215,161
Project Period: 8/1/99-7/31/01

Principal Investigator(s): Adema, Coenraad
Title: REU Supplement: Function and Diversity of Molluscan FREPs
Sponsor: National Science Foundation
Amount: $4,063
Project Period: 3/21/00-7/31/01

Principal Investigator(s): Cripps, Richard
Title: Genetic Analysis of Muscle Remodeling in Drosophilh Melanogaster
Sponsor: Muscular Dystrophy Association
Amount: $110,084
Project Period: 1/1/99-12/31/00

Principal Investigator(s): Cripps, Richard
Kelly, Kathleen
Title: Regulation and Function of the Act 57B Gene in Drosphila
Sponsor: American Heart Association
Amount: $36,000
Project Period: 7/1/00-6/30/02

Principal Investigator(s): Cripps, Richard
Title: Molecular Genetic Analysis of Myogenesis in Drosophila
Sponsor: American Heart Association
Amount: $60,000
Project Period: 7/1/99-6/30/01

Principal Investigator(s): Dahm, Clifford
Crossey, Laura (Earth & Planetary Sciences)
Northup, Diana
Title: Geomicrobioligical Interactions in Cave Deep Subsurface Environments: A Novel Extreme Environment
Sponsor: National Science Foundation
Amount: $313,450

Project Period: 10/1/98-9/30/01

Principal Investigator(s): Duszynski, Donald
Title: The Coccidia of the World
Sponsor: National Science Foundation
Amount: $690,738
Project Period: 8/1/95-8/31/00

Principal Investigator(s): Loker, Eric
Title: Evolution of Schistosoma mansoni and its Snail Hosts
Sponsor: National Institute of Allergy & Infectious Disease
Amount: $488,969
Project Period: 4/1/99-3/31/01

Principal Investigator(s): Loker, Eric
Title: Evolution of Schistosoma mansoni and its snail hosts
Sponsor: National Institute of Allergy & Infectious Disease
Amount: $244,600
Project Period: 2/15/00-1/31/01

Principal Investigator(s): Miller, Robert
Title: Immunoglobulin Genetics in Non-eutherian Mammals
Sponsor: National Science Foundation
Amount: $360,000
Project Period: 5/1/00-4/30/01

Principal Investigator(s): Miller, Robert
Title: Immunological Development in a Marsupial -- Faculty Early Career Development (CAREER) Program
Sponsor: National Science Foundation
Amount: $322,585
Project Period: 10/1/96-9/30/00

Principal Investigator(s): Miller, Robert
Title: Research Opportunity Award (ROA) Supplement
Sponsor: National Science Foundation
Amount: $15,647
Project Period: 10/1/96-9/30/00

Principal Investigator(s): Miller, Robert
Title: REU Supplement to CAREER Award.
Sponsor: National Science Foundation
Amount: $5,000
Project Period: 12/31/97-9/30/00

Principal Investigator(s): Miller, Robert
Title: REU Supplement: Immunoglobulin Genetics in Non-eutherian Mammals
Sponsor: National Science Foundation
Amount: $5,000
Project Period: 5/19/00-4/30/01

Principal Investigator(s): Natvig, Donald
Title: Reproductive Genetics of Neurospora tetrasperma
Sponsor: National Science Foundation
Amount: $183,838
Project Period: 6/1/97-11/30/00

Principal Investigator(s): Natvig, Donald
Title: REU Supplement: Reproductive Genetics of Neurospora tetrasperma
Sponsor: National Science Foundation
Amount: $5,000
Project Period: 8/27/99-5/31/00

Principal Investigator(s): Nelson, Mary Anne
Title: REU support: Developmental Regulation of Signal Transduction: Bcylp in Stationary-Phase Yeast
Sponsor: National Science Foundation
Amount: $8,750
Project Period: 6/1/98-8/31/00

Principal Investigator(s): Nelson, Mary Anne
Title: The Neurospora Genome Project at UNM: Expressed Sequence Analyses
Sponsor: National Science Foundation
Amount: $338,124
Project Period: 2/1/99-1/31/01

Principal Investigator(s): Nelson, Mary Anne
Title: REU Supplement: Neurospora Genome Project at UNM: Expressed Sequence Analyses

Sponsor: National Science Foundation
Amount: $24,600
Project Period: 2/1/99-1/30/01

Principal Investigator(s): Nelson, Mary Anne
Title: Developmental Regulation of Signal Transduction: Bcy1p in Stationary-Phase Yeast
Sponsor: National Science Foundation
Amount: $260,786
Project Period: 9/1/96-2/28/01

Principal Investigator(s): Thornhill, Randy, Gangestad, Steven (Psychology)
Title: The Scent of Symmetry
Sponsor: Olfactory Research Fund, Ltd.
Amount: $42,808
Project Period: 5/1/98-10/30/00

Principal Investigator(s): Turner, Thomas
Title: Consesrvation Genetics of Gila and Apache Trout
Sponsor: USDA-Forest Service
Amount: $100,000
Project Period: 9/30/00-9/30/02

Principal Investigator(s): Vogel, Kathryn
Title: Proteogylcan Structure, Metabolism and Role in Tendon
Sponsor: National Inst. of Arthrit./Musculoskel./Skin Dis.
Amount: $741,127
Project Period: 1/1/95-12/31/00

Principal Investigator(s): Werner-Washburne, Margaret
Title: The Role of Snz and Sno Proteins in the Yeast Saccharomyces Cerevisiae
Sponsor: National Science Foundation
Amount: $110,000
Project Period: 9/1/98-8/31/01

Principal Investigator(s): Werner-Washburne, Margaret
Title: Study of Gene Expression in Non-Developing Yeast Cells
Sponsor: Sandia National Laboratories
Amount: $13,000
Project Period: 5/3/00-9/30/00

Principal Investigator(s): Yates, Terry
Koster, Frederick (Medicine)
Title: Hantavirus Infections: Ecology, Immunity and Treatment
Sponsor: National Institute of Allergy & Infectious Disease
Amount: $1,399,643
Project Period: 8/15/96-7/31/00

Principal Investigator(s): Yates, Terry
Title: Hantavirus Infections - Ecology, Immunity and Treatment
Sponsor: National Institute of Allergy & Infectious Disease
Amount: $93,419
Project Period: 8/1/99-7/31/00

Principal Investigator(s): Stone, Anne
Title: The Evolutionary History of the Genus Pan: A Molecular Investigation Using the Y Chromosome
Sponsor:mNational Science Foundation
Amount: $15,242
Project Period: 3/15/99-8/31/00

PEER REVIEWED PUBLICATIONS WHICH UTILIZED THE FACILITY

1. Baker ML, Rosenberg GH, Zuccolotto P, Harrison GA, Deane EM, Miller RD. 2001 Further characterization of T cell receptor chains of marsupials. DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY 25:495-507

2. Barber KE, Mkoji GM, Loker ES. 2000 PCR-RFLP analysis of the ITS2 region to identify *Schistosoma haematobium* and *S-bovis* from Kenya. AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE 62:-440

3. Bean LE, Dvorachek WH, Braun EL, Errett A, Saenz GS, Giles MD, Werner-Washburne M, Nelson MA, Natvig DO. 2001 Analysis of the pdx-1 (snz-1/sno-1) region of the *Neurospora crassa* genome: Correlation of pyridoxine-requiring phenotypes with mutations in two structural genes. GENETICS 157:1067-1075

4. Belov K, Harrison GA, Miller RD, Cooper DW. 2001 Characterisation of the kappa light chain of the brushtail possum (*Trichosurus vulpecula*). VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY 78:317-324

5. Benn J, Smith J, Stone A. 2001 Y-chromosome STR analysis in *Pan troglodytes.* AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY S32:38-38

6. Powell AJ, Jacobson DJ, Natvig DO. 2001 Allelic diversity at the het-c locus in *Neurospora tetrasperma* confirms outcrossing in nature and reveals an evolutionary dilemma for pseudohomothallic ascomycetes. JOURNAL OF MOLECULAR EVOLUTION 52:94-102

7. Leonard PM, Adema CM, Zhang SM, Loker ES. 2001 Structure of two FREP genes that combine IgSF and fibrinogen domains, with comments on diversity of the FREP gene family in the snail *Biomphalaria glabrata.* GENE 269:155-165

8. Zhao XM, Duszynski DW, Loker ES. 2001 A simple method of DNA extraction for Eimeria species. JOURNAL OF MICROBIOLOGICAL METHODS 44:131-137

9. Zhao X, Duszynski DW. 2001 Molecular phylogenies suggest the oocyst residuum can be used to distinguish two independent lineages of Eimeria spp in rodents. PARASITOLOGY RESEARCH 87:638-643

10. Zhao XM, Duszynski DW. 2001 Phylogenetic relationships among rodent Eimeria species determined by plastid ORF470 and nuclear 18S rDNA sequences. INTERNATIONAL JOURNAL FOR PARASITOLOGY 31:715-719

Papers in press

1. Belov, K., Harrison, G. A., Miller, R. D., and Cooper, D. W. Molecular cloning of four lambda light chain cDNAs from the Australian brushtail possum (*Trichosurus vulpecula*). European Journal of Immunogenetics, in press.

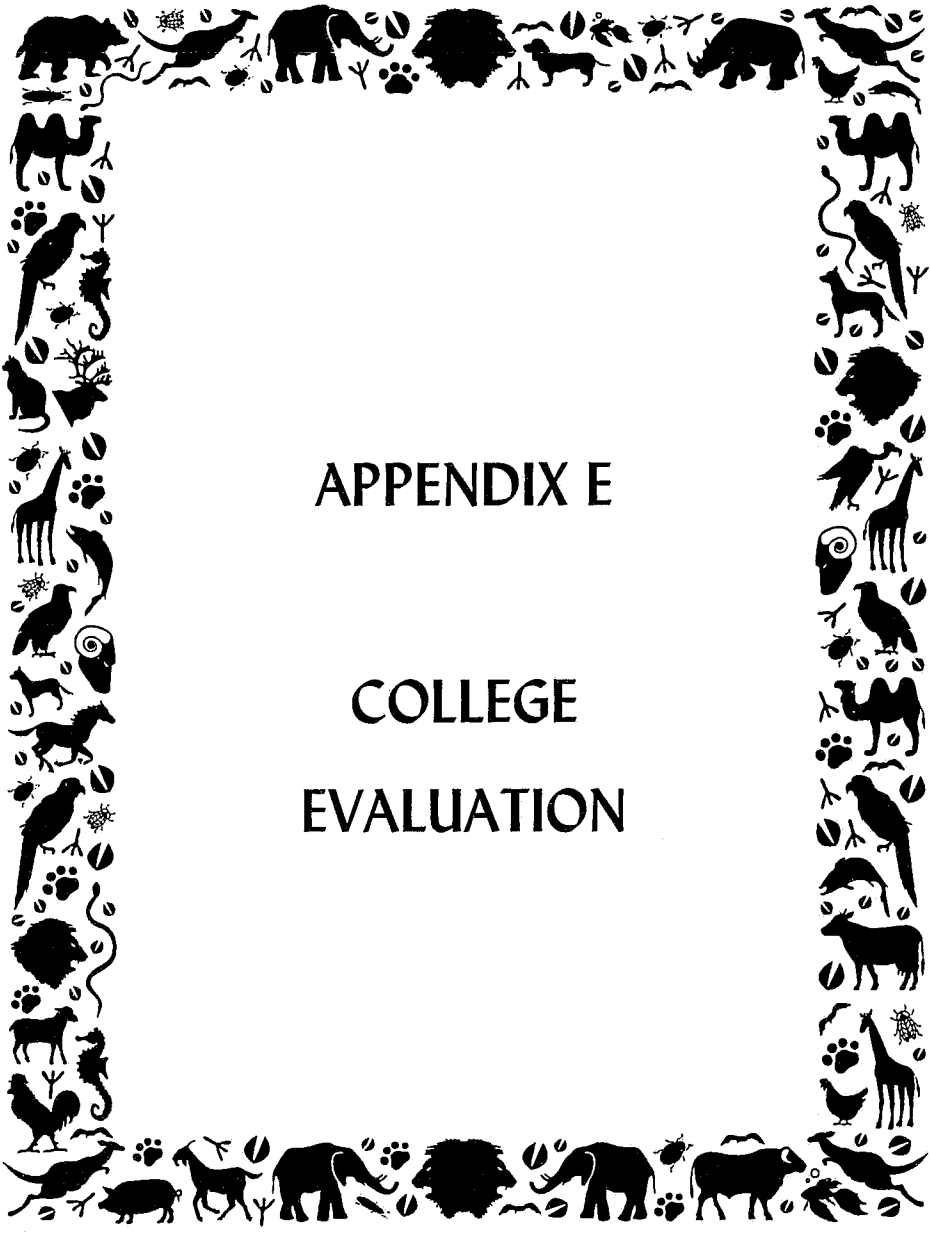
2. DeJong, R.J., Morgan, J.A.T., Paraense, W.L., Pointier, J-P., Amarista, M., Ayeh-Kumi. P.F.K., Babiker, A., Barbosa, C.S., Bremond, P., Canese, A.P., de Souza, C.P., Dominguez, C., File, S., Gutierrez, A., Incani, R.N., Kawano, T., Kazibwe, F., Kpikpi, J., Lwambo, N.J.S., Mimpfoundi, R., Poda, J-N., Sene, M., Velasquez, L.E., Yong, M., Adema, C.M., Hofkin, B.V., Mkoji, G.M. and Loker, E.S. Evolutionary relationships and biogeography of Biomphalaria (Gastropoda: Planorbidae) with implications regarding its role as host of the human bloodfluke, *Schistosoma mansoni.* Molecular Biology and Evolution, in press.

3. Maldonado, A., Loker, E.S., Morgan, J.A.T., Rey, L. and Lanfredi, R.M. Description of the adult worms of a new Brazilian isolate of *Echinostoma paraensei*, (Platyhelminthes: Digenea) from its natural vertebrate host Nectomys squamipes by light and scanning electron microscopy and molecular analysis. Parasitology Research, in press.

4. Morgan, J.A.T., DeJong, R.J., Mkoji, G.M. and Loker, E.S. *Schistosoma mansoni* and Biomphalaria: past history and future trends. In Flukes and snails, edited by Rollinson, D., a special supplement to Parasitology, in press.

5. Wilson, K., Li, Y., Whan, V., Lehnert, S., Byrne, K., Moore S., Pongsomboon, S., Tassanakajon, A., Rosenberg, G., Ballment, E., Fayasi, Z., Swan, J., Kenway, M., Benzie, J. Genetic mapping of the black tiger shrimp *Pennaeus monodon* with Amplified Fragment Length Polymorphisms. Aquaculture, in press.

6. Zhao, X., Duszynski, D.W. and Loker, E.S. Phylogenetic position of Eimeria antrozoi, a bat coccidium (Apicomplexa, Eimeriidae), and its relationship to morphologically similar Eimeria spp. From bats and rodents based on nuclear 18S and plastid 23S rRNA gene sequences. Journal of Parasitology, in press.



APPENDIX E

COLLEGE EVALUATION

College Evaluation - 2000
Department of Biology
April 11, 2001

I. Teaching Quality Assessment

A. Internal teaching Assessment

A committee of three tenured faculty members (Nelson, Brown, Dahm) examined the data reporting forms for all TT faculty and for three Lecturers. They also assessed ICES evaluations, looking for exceptionally high or low scores. Both classroom teaching and the mentoring of graduate students and undergraduate students was included in the consideration. If a faculty member was on sabbatical or some other type of leave and did not teach in the classroom during either semester of 2000, he/she was still rated based on mentoring of graduate students. A new faculty member who did not teach during the fall semester was not rated for teaching. Each faculty member was awarded a score based on the following scale.

1 = low productivity = Needs improvement
2 = good, solid contributions = Good
3 = very high productivity = Excellent
4 = exceptionally meritorius (used only rarely) = Excellent

For the purpose of this report, ratings of 3 or 4 are both calculated as "3".

Mean Scores:
A.1 - for TT faculty, 74/30 = 2.47
A.2 - for FT faculty, including Lecturers, 83/33 = 2.52

B. Fraction TT faculty good + excellent in teaching: 30/30 = 100%

C. Mean ICES evaluations for Department, Fall 2000

course level	# students	1	2	3
100-200	1120	4.91	4.81	4.71
300-400	424	5.39	5.35	5.28
500-600	63	5.41	5.60	5.32

Percent of TT faculty who taught in classroom and did ICES evaluations: 100%

II. Research Quality Assessment

The same committee of three tenured faculty members examined the data reporting forms to assess research productivity during 2000. The data examined included publications (books, refereed articles, chapters, reports), grants (submitted, funded for the first time in 2000, funded on continuation from previous years), and invited seminars/contributed presentations. The assessment included consideration of number of publications and grants, as well as the reputation of the journal. A score from 1 through 4 was assigned, as described above. For the purpose of this calculation, ratings of 3 or 4 are both calculated as "3".

A. Internal Research Assessment

For TT faculty, 81/31 = 2.61

B. Fraction good + excellent research faculty = 30/31 = 97%

C. SCH production for student research:

	Spring '00	Fall '00		
Biol 400, 499	140	110		
Biol 551, 599, 699	398	449		
Total:	538	559	=	1,097

III. Efficiency Assessment

	Fall '99	Fall '00
1. Number of undergrad majors	1,107	1,075
2. Graduate students	99	107
3. SCH to non-majors	6,372	6,144
4. Total SCH	10,735	10,689

5. SCH delivered by FT faculty

	Fall '99	Spring '00	Fall '00	Spring '01
FT, tenure track	3692	4406	5655	5675
FT, Non tenure track	2710	3391	2318	3031
Total	6402	7797	7973	8706
Percent of Total SCH	60%		75%	

6. Instructional budget/SCH

6.1 - Inst. Res. numbers for 1999/00 - $2,943,741 / [10,735 x 2] = 137
6.2 - Inst. Res. numbers for 2000/01 - $3,200,030 / [10,689 x 2] = 150
6.3 - Include 1-19344 for 2000/01 - $3,338,239 / [10,689 x 2] = 156

7. SCH per FT faculty

	Fall '99	Fall '00
Full time faculty		
Tenure track	31	31
non tenure track	3	5
SCH	10,735	10,689
SCH per FT faculty	315	297

IV. Options

The Dept. of Biology has chosen to focus its "Options" on three areas in which we believe there is remarkable strength. These are A) the productivity and visibility of our research faculty, B) the funding brought to UNM through the efforts of faculty in our department, and C) the depth of research activity and support for both graduate and undergraduate students. In each case, only the simplest quantifiable aspect of this strength is reported - omitting the narrative discussion of significance.

A. Research Productivity and Visibility

1. Publication
   a. Number of articles published by tenure track faculty in 2000: 96
   b. Number of publications per TT faculty: 96/31 = 3.1 (range, 1-9)
   c. Percent of TT faculty who published in 2000: 28/31 = 90%

2. Invited seminars and presentations outside UNM
   a. Number of invited seminars, contributed abstracts, and public presentations by TT faculty in 2000: 189 (range, 1-21)
   b. Number of presentation per TT faculty: 189/31 = 6.1

B. Research Funding
   1. Total Research Funds to Dept. of Biology in 2000: $8,506,593*
   2. Number of grants held by tenure track faculty during 2000: 115
   3. Number of grants per TT faculty: 115/31 = 3.7
   4. Percent of TT faculty who had grant funding in 2000: 28/31 = 90%

* Does <u>not</u> include annual funding for educational programs listed below.

Note of interest: The three TT faculty members who did not have papers come out in 2000 are <u>not</u> the same as the three faculty who worked without grant funding in 2000.

C. Major Departmental Education Initiatives
(name of Dept. of Biology Faculty as PI, Co-PI, or program director)

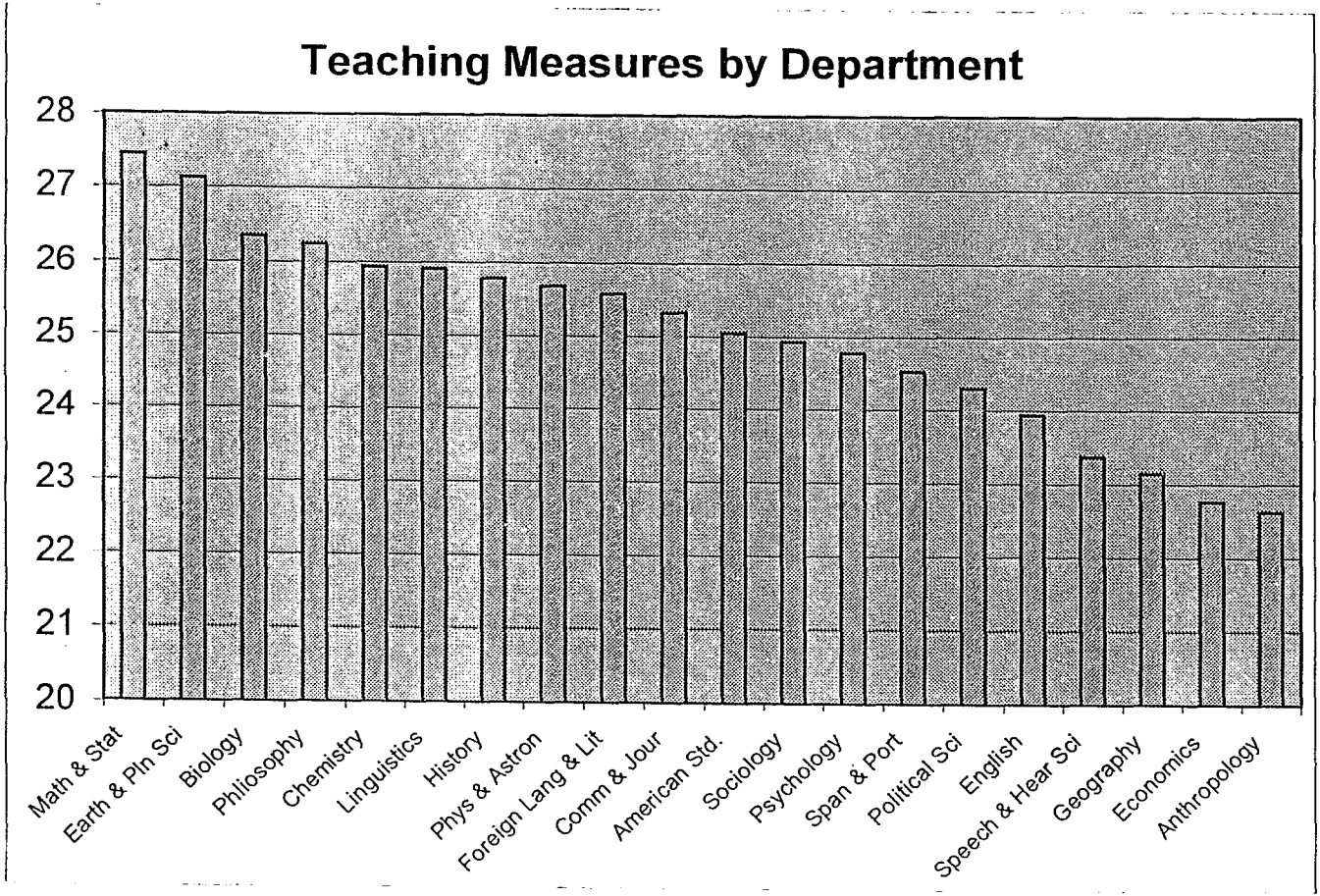
1. NSF-funded grant for training graduate students and post-docs. "Biocomplexity: The scale of biodiversity" (Jim Brown, Bruce Milne). $2,099,031; 1995-2000 (Note: new Biocomplexity Training Grant has been funded from 2001-2006)

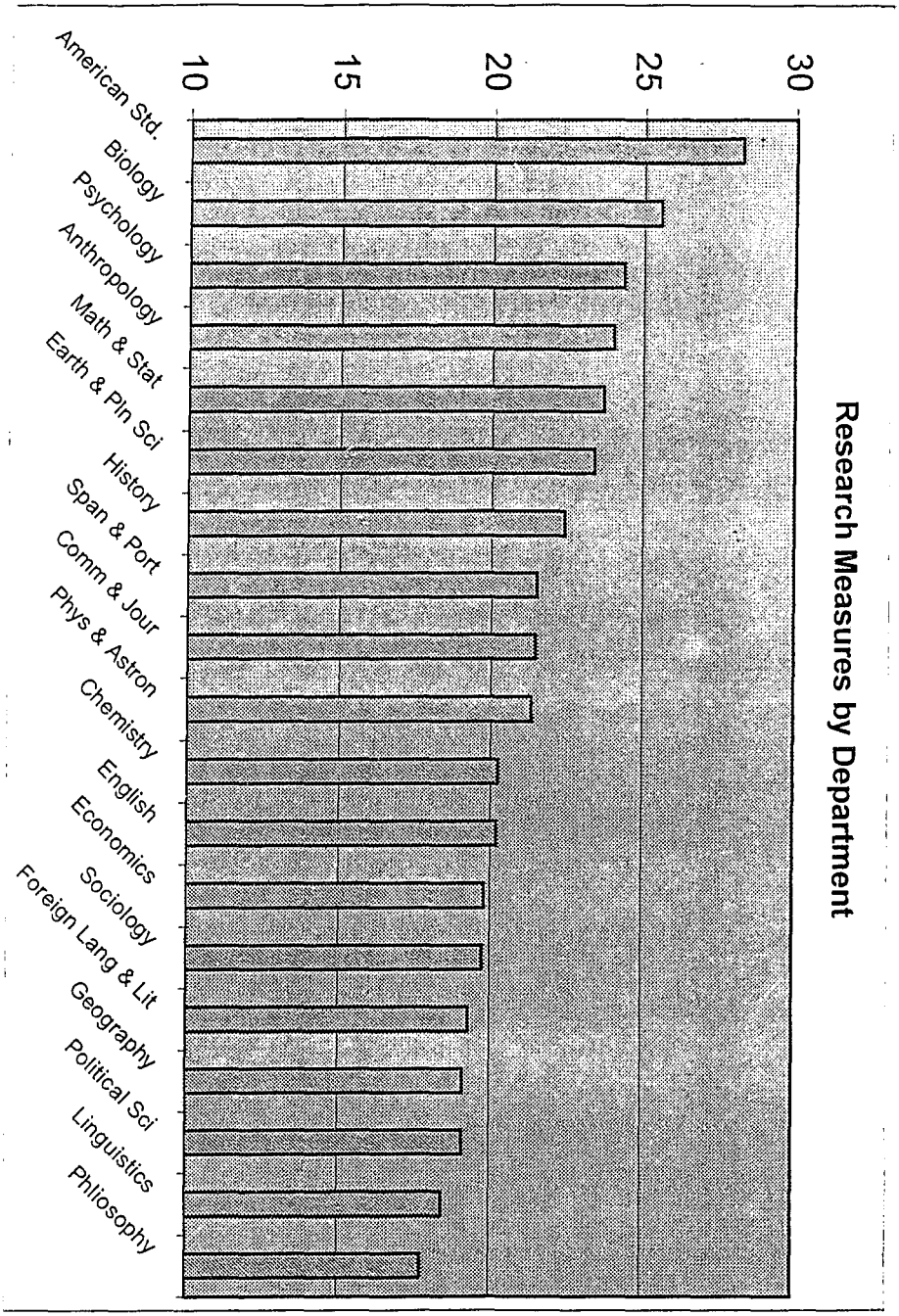
2. NSF-funded grant for training graduate students in hydrology and geochemistry; awarded in collaboration with Dept. of Earth and Planetary Sciences at UNM, and Univ. of Alabama. "IGERT: Freshwater Graduate Studies Link Fundamental Science with Applications Through Integration of Ecology, Hydrology and Geochemistry in Regions with Contrasting Climates" (Cliff Dahm), UNM subcontract of $1,242,500, 1999 - 2003.

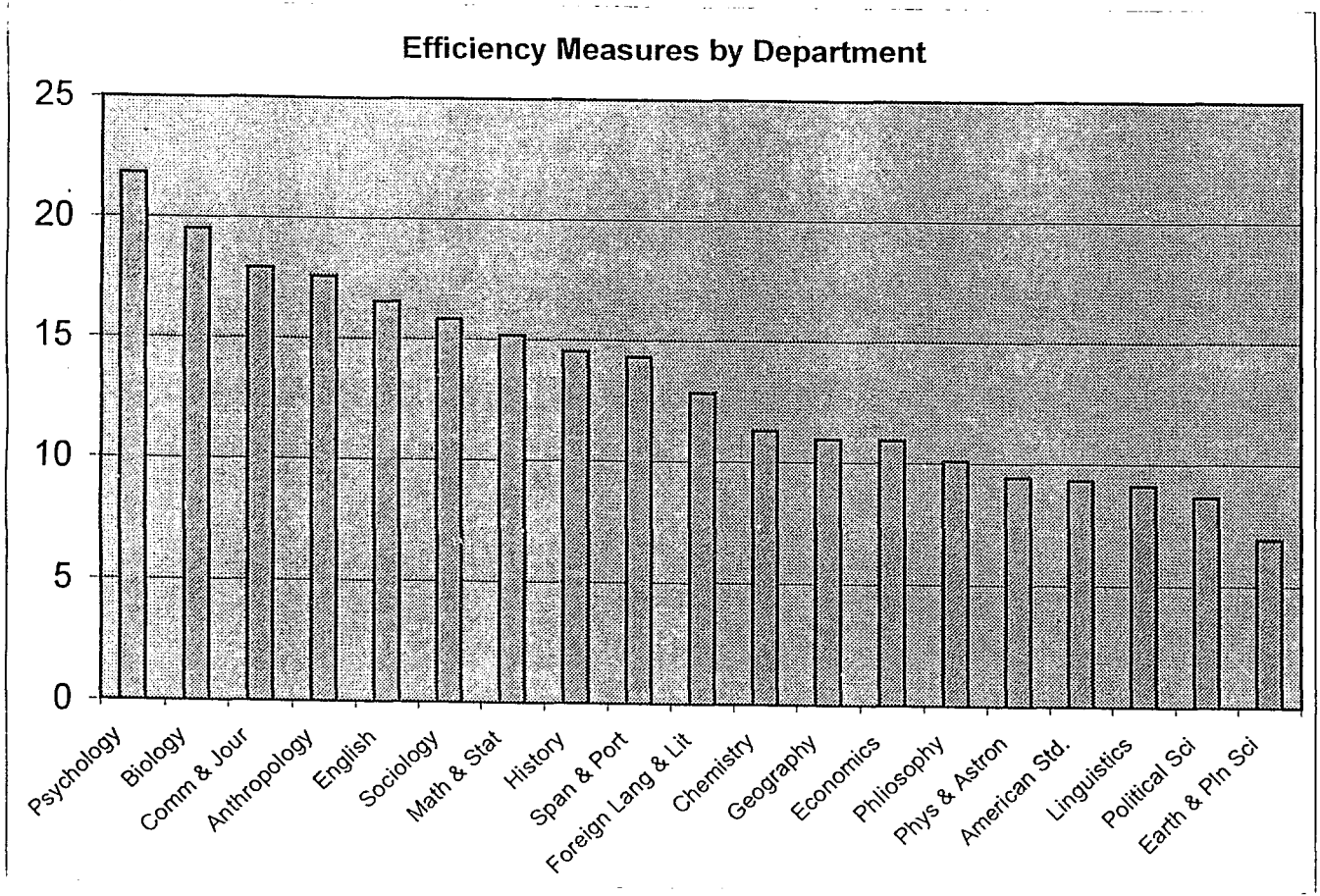
3. NIH-funded grant for minority undergraduate research. "Initiative for Minority Student Development at UNM", the former MBRS, now known as IMSD. (Don Natvig, Co-program director) $2,285,329, 2000 - 2004

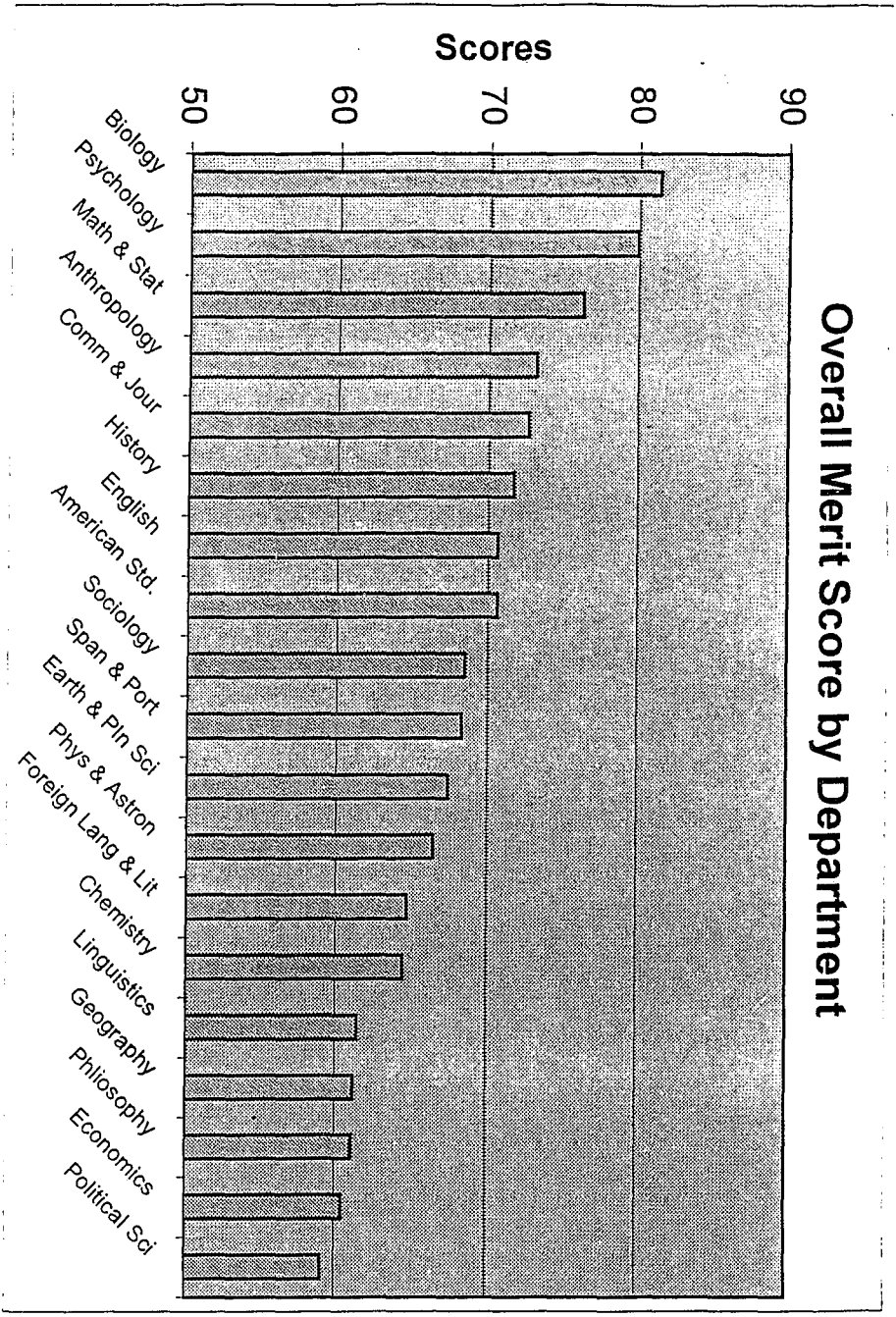
4. NIH-funded grant for minority undergraduate research "Undergraduate Biomedical Research Training -Minority Access to Research Careers" MARC (Kathryn Vogel, Program Director) $233,000/year, 2000 - 2005.

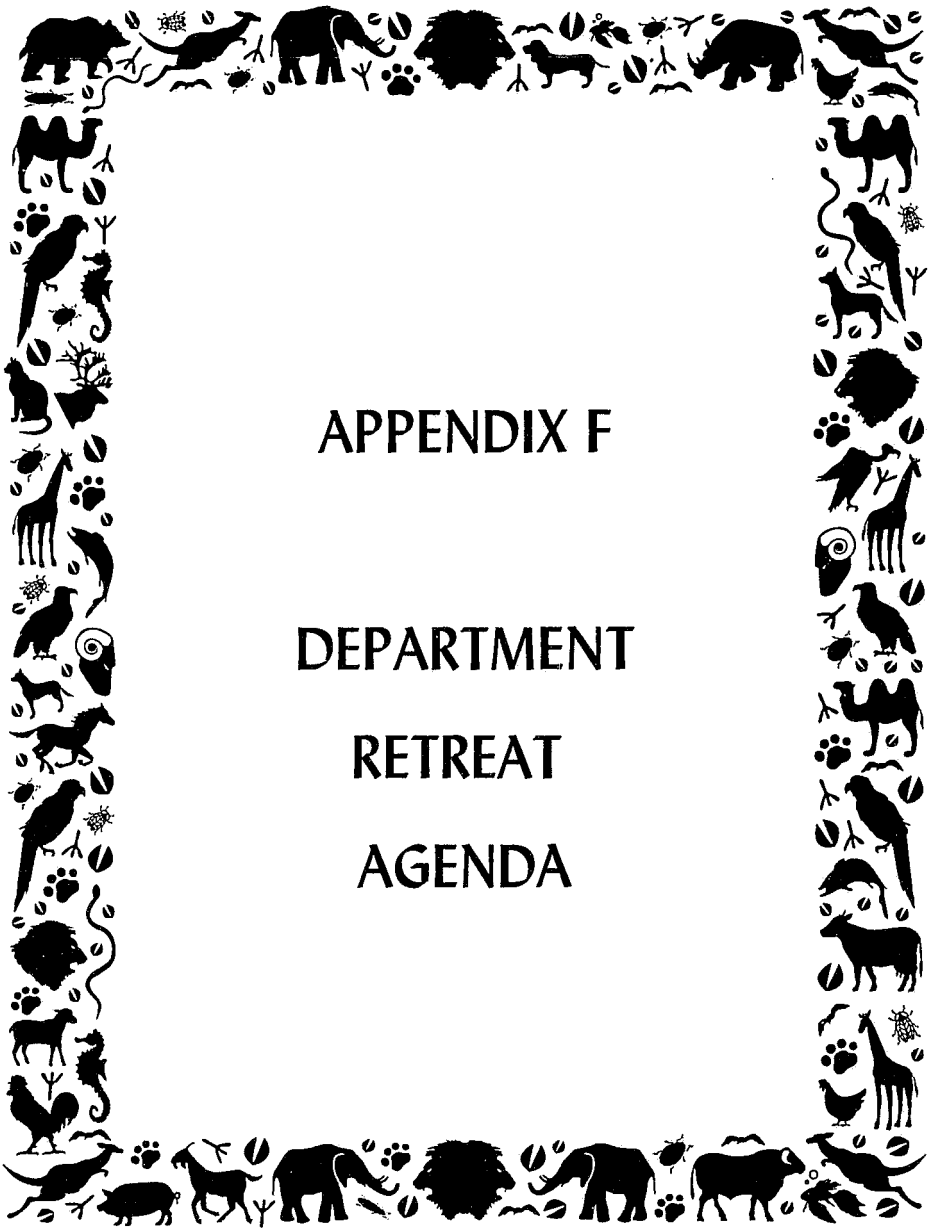
5. NSF-funded undergraduate research training at Sevilleta field station. "Research Experiences for Undergraduates Site Program with the Sevilleta LTER: Ecosystem Productivity, Biodiversity and Systematics" (Jim Gosz, Bob Parmenter) $120,000/year. 1999-2001.


Teaching Measures by Department
28
27
26
25
24
23
22
21
20
Math & Stat
Earth & Pln Sci
Biology
Phliosophy
Chemistry
Linguistics
History
Phys & Astron
Foreign Lang & Lit
Comm & Jour
American Std.
Sociology
Psychology
Span & Port
Political Sci
English
Speech & Hear Sci
Geography
Economics
Anthropology


Research Measures by Department
30
25
20
15
10
American Std.
Biology
Psychology
Anthropology
Math & Stat
Earth & Pln Sci
History
Span & Port
Comm & Jour
Phys & Astron
Chemistry
English
Economics
Sociology
Foreign Lang & Lit
Geography
Political Sci
Linguistics
Philosophy


Efficiency Measures by Department
25
20
15
10
5
0
Psychology
Biology
Comm & Jour
Anthropology
English
Sociology
Math & Stat
History
Span & Port
Foreign Lang & Lit
Chemistry
Geography
Economics
Phliosophy
Phys & Astron
American Std.
Linguistics
Political Sci
Earth & Pln Sci


Overall Merit Score by Department
Scores
50
60
70
80
90
Biology
Psychology
Math & Stat
Anthropology
Comm & Jour
History
English
American Std.
Sociology
Span & Port
Earth & Pln Sci
Phys & Astron
Foreign Lang & Lit
Chemistry
Linguistics
Geography
Philosophy
Economics
Political Sci



APPENDIX F

DEPARTMENT RETREAT AGENDA

Department of Biology Meeting - January 16, 2001
3:30 PM, Room 100

Agenda

1. Introduction, Kathryn Vogel, Chairman

2. Hiring/Retirement Report
   a. VPR, A&S Dean
   b. faculty
   c. staff

3. Building
   a. Since fall'99 we've endured plumbing replacement, back-up electrical installation, ceiling tiles replaced, office remodel, cleaned ceiling mixing boxes, parking lot disruptions, electrical changes to building. What next??!!?
   b. Remodel after museum move. Need to complete museum, move, remodel and enclose ~25,000 sq. ft. in Castetter - cost estimated to be $7 million

4. Budget
   a. I&G
   b. IDC
   c. efforts to correct "overages" and collect "you owe me's"
      comments: Theresa Kelley, Head Accountant

5. Museum, Tim Lowrey, Director, Museum of SW Biology
   a. construction and move
   b. departmental agreement with MSB

6. Teaching
   a. Enrollment - still high, and this is good; historical perspective
   b. Teachng assignments -

7. Development
   a. Ask your legislators to support FULL FUNDING OF UNM CORE RENEWAL request, as recommended by CHE.
   b. event for donors to Biology; alumni day

8. Issues to deal with this Spring
   a. Curriculum plans, TA teaching assignments, 121-122 lab considerations
   b. post-tenure review document

Instructional and General (I & G)

Salaries - ~$3 million
faculty, dept.office staff, TAs, vet, ARF, micro tech, etc.

Materials and Services - $202.000
instruction, museum core, copiers, building supplies office supplies, animal facility, molec. biol. facility

Overhead (OH) - Indirect Costs (IDC) - Facilities and Administration (F&A)

IDC earned in 1999 calendar year is distributed for Academic Year 2000/2001
Grants Expenditures 1999 ~$8 million
IDC earned = $1.28 million (note: this is ~16%; at 47% rate would be ~$3.7 million)

IDC Distribution			
Office of VPR	56%		56%
A&S College	44%		
A&S		60%	26.4%
Department		30%	13.2%
PI		10%	4.4%
			100%

actual to A&S College for distribution - $458,000 (this is 35%; 44% would be $572,000)

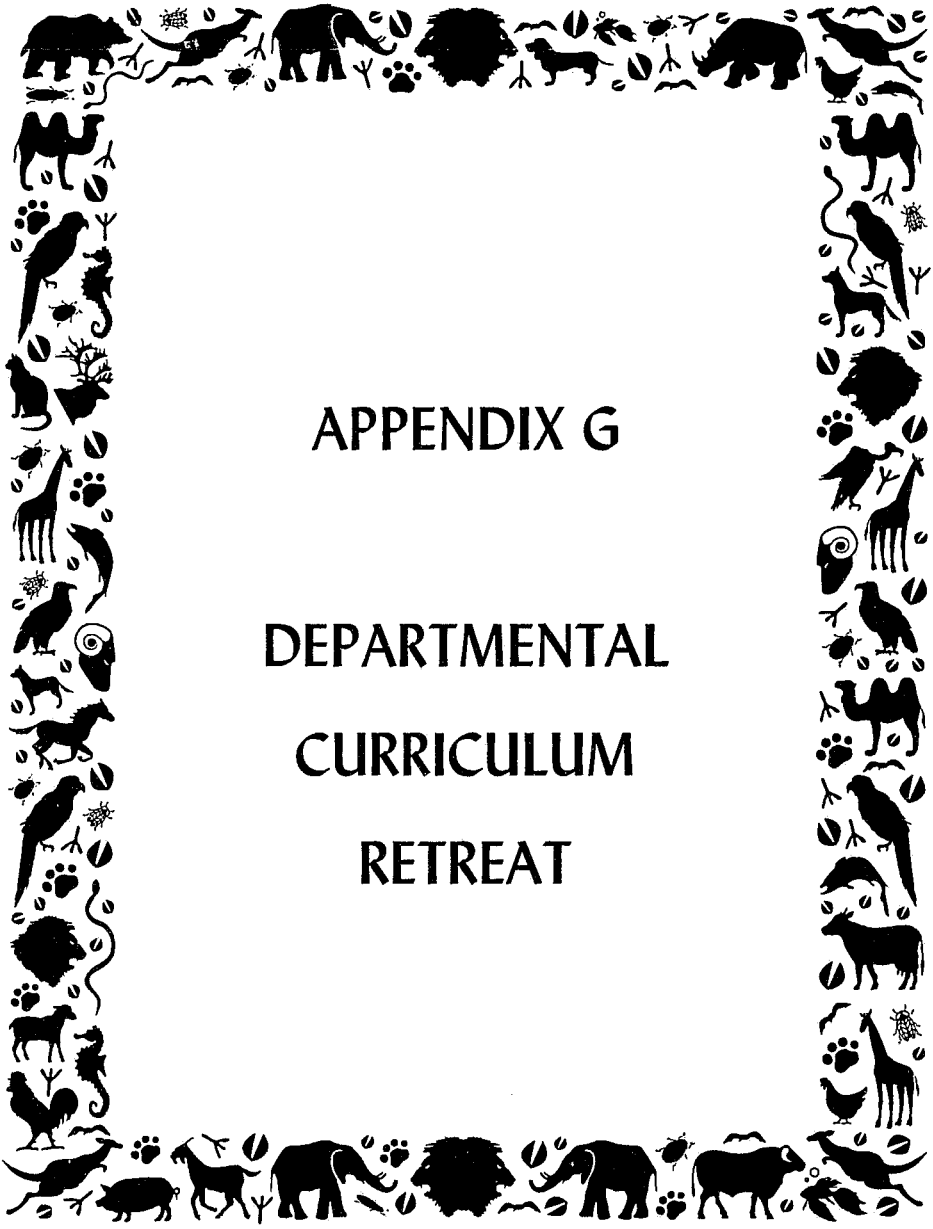
actual to Department - $152,000 (includes PI share from non tenure-track PIs)
[Last year - Total generated = $1.19 million; actual to department = $107,500.]

How is IDC allocated? (00/01)

Set-up for new faculty (dept share) - $57,400
Salaries and FB - $75,000
GRAC, seminar program, emergency repairs, hiring interviews - $13,000
"cost-share" agreements - ~$41,000

Total - $186,000

[Nasir's calculation - 89% of IDC generated in 1998 by Biology was returned to Biology in 1999 in form of cost share, equipment, start-up costs, LTER field station support, etc.]



APPENDIX G

DEPARTMENTAL CURRICULUM RETREAT

Curriculum Retreat - April 25, 2001
Department of Biology

A. Can we agree on this?

1. Do we as a faculty share broad agreement that we want to commit to undertaking a fundamental re-evalutaion of our curriculum?

2. Do we agree that this effort must reflect OUR best thinking about what constitutes excellence in modern biology education?

3. Do we understand that it will be necessary to balance our philosophical preferences with pragmatism?

B. Suggested Goals and Philosophy to guide development of a revised curriculum.

1. A greater emphasis on quality in our undergraduate majors.

2. Increase the exposure of our majors to more "hands on/real life" experiences with biology (labs, field trips, research)

3. Shift more departmental resources and effort to upper-division courses.

4. Create a more representative core of four courses.

5. Require some kind of taxonomically-oriented organismal course.

6. Require a paper be written as part of all 400-level courses.

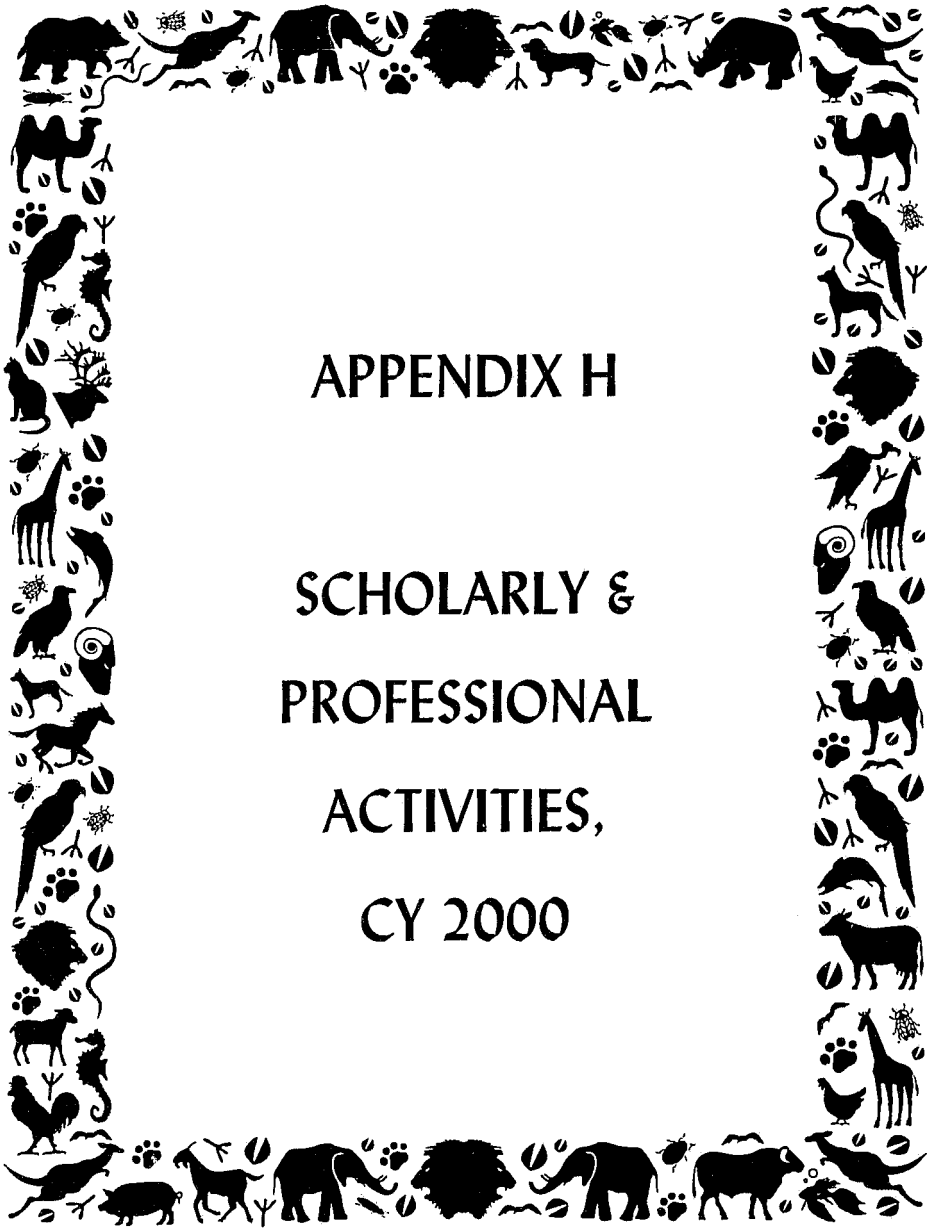
7. Re-think the purpose of 400-level courses and whether there needs to be a single "capstone course".

8. Enhance the quantitative skills of biology majors. Enhance the computer skills of biology majors.

9. Find a way to insure that students with proper motivation are able to do well in improved, more difficult core courses populated with better students.

10. Work backwards. If XYZ is what students are to learn in an upper-level course, what is the background they will need to acquire in lower-level courses?

11. Be creative! Find a way for a Biology major at UNM to be different from other majors, and distinct from a biology major at other universities.



APPENDIX H

SCHOLARLY & PROFESSIONAL ACTIVITIES, CY 2000

UNM DEPARTMENT OF BIOLOGY

FACULTY SCHOLARLY ACTIVITIES & PUBLICATIONS

CY 2000

I. TEACHING.

A. Graduate Education.

1. Masters degrees awarded.

DUSZYNSKI, D.W.

DECKER, KIMBERLY S.H., "The Endoparasites of Dipodomys and Perognathus Species on the Sevilleta National Wildlife Refuge," Spring.

GOSZ, J.R.

GARCIA, JOSLYN M., "Prehistoric and Historic Ecosystem Management of the Sevilleta Wildlife Refuge," Spring.

MARSHALL, D.L.

MORITA, CARLA A., "The Effect of Non-random Mating on Progeny Fitness in Wild Radish," Fall.

WERNER-WASHBURNE, M.

ERRETT-GOLDEN, ALLISON, "The Late-acting *bcy1* Mutant of *Saccharomyces cerevisiae*: Implications for Protein Kinase A Signaling in Stationary Phase," Summer.

2. Doctors degrees awarded.

BROWN, J.H.

ERNEST, S.K. MORGAN, "Emergent Properties of Desert Ecosystems," Spring.

DAHM, C.N.

FELLOWS, CHRISTINE E., "Ecosystem Metabolism and Nitrate Retention in Headwater Streams," Spring.

NELSON, M.A.

DOLAN, PATRICIA L., "From Genome to Proteome: High-Throughput Analysis of Expressed Genes in *Neurospora crassa*," Summer.

YATES, T.L.

SALAZAR-BRAVO, JORGE, "Phylogeny and Evolution of the Neotropical Rodent Genus *Calomys*: Inferences from Mitochondrial DNA Sequence Data," Spring.

BURT, MICHAEL SCOTT, "Patterns and Processes of Morphological Variation in the Pocket Gopher *Thomomys bottae*," Summer.

3. ***Bona fide* graduate courses and number of students enrolled. Indicate new courses (for you) with an asterisk.**

BARTON, L.L.

Spring: Biol. 460, Microbial Physiology, 44 students

BROWN, J.H.

Fall: Biol. 511, Community Ecology, 12 students
Biol. 502, ST/Biological Complexity Seminar,13 students
Spring: Biol. 502, ST/Biological Complexity Seminar, 15 students

CHARNOV, E.L.

Spring: Biol. 565, Sociobiology and Evolutionary Ecology, 6 students
Fall: Biol. 502, ST/Evolution and Ecology, 7 students

CRIPPS, R.M.

Fall: *Biol. 402/502-04, STTranscription, 8 graduate students
Biol. 446/546, Laboratory Methods in Molecular Biology, 8 graduate students
Biol. 402/502-19, ST/ Gene Expression, 4 graduate students
Biol. 501, New Graduate Student Orientation, ~25 graduate-level students
Biol. 551, Graduate Problems, 3 students

DAHM, C.N.

Spring: Biol. 495, Limnology, 10 students–3 graduate students
Biol. 496L, Limnology Lab, 3 students–1 graduate student
Fall: Biol. 514, Ecosystem Studies, 12 students–all graduate students

DUSZYNSKI, D.W.

Spring: Biol. 502, ST/Tropical Ecology, 1 student
Biol. 551, Problems, 2 students
Biol. 699, Dissertation, 2 students
Fall: Biol. 551, Problems, 1 student
Biol. 599, Master's Thesis, 1 student
Biol. 699, Dissertation, 2 student

FAGUY, D.M.

Fall: * Biol. 502-05, ST/ Microbial Diversity and Evolution, 2 students
* Biol. 502-330, ST/Microbial Diversity and Evolution Lab, 2 students

GOSZ, J.R.

Fall: Biol. 514, Ecosystem Studies, 12 students
Biol. 551, Problems, 2 students

Spring: *Biol. 575, Desert Field Biology, 2 students
Biol. 651, Advanced Field Biology, 1 student

KODRIC-BROWN, A.

Fall: Biol. 521, Behavioral Ecology, 6 students
Biol. 502 , ST/Human Adornments,7 students

LI, B.-L.

Spring: *Biol. 512, Population Biology, 6 students
Biol. 551-013, Problems, 3 students
Fall: Biol. 502-014, ST/Ecological Modeling, 3 students
Biol. 551-012, Problems, 1 student
*Biol. 699-012, Dissertation, 1 student

LIGON, J.D.

Fall: Biol. 502, ST/Avian Social Systems, 4 students

LOKER, E.S.

Spring: on sabbatical
Fall: teaching release
Biol. 502, ST/Parasites and Hosts (1 hr), 7 students

LOWREY, T.K.

Fall: Biol. 402/502, ST/Systematics Seminar, 4 students

MARSHALL, D.L.

Fall: * Biol. 502, ST/Topics in Plant Ecology—Biology of Weedy and Invasive Plants, 2 registered students, but 10-12 people regularly attended class.

MILLER, R.D.

Fall: Biol. 502, ST/Immunogenetics, 2 students
Spring: Biol. 502, ST/Immunogenetics, 4 students

NATVIG, D.O.

Spring: Biol. 502, ST/Advanced Fungal Genetics, 2 students
Biol. 522, Molecular Biology and Evolution, 6 students
Fall: Biol. 546, Laboratory Methods in Molecular Biology, 7 students

NELSON, M.A.

Spring: Biol. 402/502, ST/Comparative Genomics, 6 students
Fall: Biol. 402/502, ST/Genomic Analysis, 5 students

SNELL, H.L.

Fall: Biol. 513, Behavioral and Physiological Ecology, 9 students.

STRICKER, S.A.

Spring: Biol. 547, Advanced Techniques in Light Microscopy, 6 students

THORNHILL, R.

Spring: Biol. 502, ST/Sexual Selection, 16 students

TOOLSON, E.C.

Spring: Biol. 502, ST/Ecology Seminar, 2 students (note: each student has to write a 1-2 page summary, analysis, and critique of each seminar attended, which I grade)
Fall: Biol. 513, Physiological and Behavioral Ecology, 9 students

TURNER, T.F.

Spring: Biol. 502, ST/Stable Isotopes in Ecology, 2 students
Fall: Biol. 502, ST/Ecology Seminar, 1 student
Biol. 587L, Ichthyology, 1 student

WAGNER, A.

Spring: Biol. 537, Evolutionary Genetics, 5 students
Biol. 402, ST/Comparative Genomics, 4 students

WERNER-WASHBURNE, M.

Spring: * Biol./Biomed. 644, Mechanisms of Gene Expression, 8 students
Fall: * Biol. 544, Genomes and Genomic Analysis, 12 students

YATES, T.L.

I taught my normal Biol. 402/502 Special Topics course in systematics and ecology each semester. This was done remotely using teleconferencing. There are usually five or six students enrolled, with an additional 10 or so attending.

4. **Your service on graduate student committees, not as chair, *in semester oral exam was given.***

BARTON, L.L.

Mark Dimsha, Civil Engineering
Ezra Deppermar, Dept. of Chemistry

CHARNOV, E.L.

S. Morgan Ernest

CRIPPS, R.M.

Alison Errett-Golden

DAHM, C.N.

Steven Earsom, Spring (Howard Snell, advisor)
Elizabeth Streitelmeier, Fall, Ph.D. comprehensive exam
Bill McDonald, Summer (Mike Campana, advisor)
Kathy Smith, Fall (Bill Fleming, advisor)

DUSZYNSKI, D.W.

Lynn Hertel, Ph.D. comprehensive exam, Spring

FAGUY, D.M.

Elizabeth Streitelmeier, comprehensive exam, Fall

MARSHALL, D.L.

Kim Eichhorst, comprehensive exams, Fall

MILLER, R.D.

Pat Dolan (M.A. Nelson), thesis defense committee, Summer
Lynn Hertel (E.S. Loker), Spring
Kelly Howe (M.A. Nelson); Randy DeJong (E.S. Loker), Fall

External Reader for Ph.D. Thesis, School of Biological Sciences, University of Sydney. Thesis title: Characterisation of immune system components of the bandicoot, *Isoodon macrourus.* Student: Paula Cisternas. Advisor: Associate Professor Patricia Armanti.

External Reader for Ph.D. Thesis, School of Science, University of Western Sydney, Nepean. Thesis title: T cell development in the tammar wallaby (*Macropus eugenii).* Student: Peter Zuccolotto. Advisor: Associate Professor Elizabeth Deane.

MOLLES, M.C. JR.

Member of doctoral dissertation committee (tribunal). Jose Diez, University of the Basque Country, Bilbao, Spain, February.

Kristen Cockerill, Department of American Studies, Ph.D. Defense, Spring

Plus others, but records not available to me here in Spain.

NATVIG, D.O.

Patricia Dolan, doctoral final exam.

Elizabeth Streitelmeier, doctoral comprehensive exam

NELSON, M.A.

Allison Errett-Golden, Comprehensive exam, Spring
Peter Hraber, Comprehensive exam, Spring (co-Chair)
Judith Galbraith, Comprehensive exam, Spring

Allison Errett-Golden, Master's defense, Summer

POCKMAN, W.T.

Laura Boykin, oral exam, April

TOOLSON, E.C.

S. Morgan Ernest

TURNER, T.F.

Gabor Racz, oral and written comprehensive exam, Spring
Laura Boykin, oral and written comprehensive exam, Spring
Randy DeJong, oral and written comprehensive exam, Fall

WERNER-WASHBURNE, M.

Kelly Howe, M.S., Fall
Pat Dolan, Ph.D., Fall

5. **Professional accomplishments and awards of your graduate students, *exclusive* of those on which you were a co-author or participant (e.g., foreign travel, papers presented, papers published, awards and grants received, etc.).**

ALTENBACH, J.S.

PAUL CRYAN:
Cryan, P., M.A. Bogan and J.S. Altenbach. 2000. Effect of elevation on distribution of female bats in the Black Hills, South Dakota. *Journal of Mammalogy* 81(3):719-725.

RICK SHERWIN:
$2,500 grant from Bat Conservation International, followup evaluation of gated mines in New Mexico and Utah.

BROWN, J.H.

ETHAN WHITE:
Doctoral candidate received an NSF Graduate Research Fellowship for 2000. He recently had a paper accepted at *The Wildlife Society Bulletin* titled "Effects of recording media on echolocation data from broad band bat detectors" (in press).

DENNIS L. CHAO:
Doctoral candidate, published: Chao, D.L. Doom as an Interface for Process Management, in press. Also awarded Graduate Research Training grant in Ecological Complexity for Spring/Fall 2000. Two articles were written about his work: Hwang, F. Commando Line Interface. *Wired*, February 2000, p. 52, and Brockmeier, J.A SysAdmin's Dream. *Linux Magazine*, January 2000, p. 76.

FORD BALLANTYNE:
Doctoral candidate, awarded the Graduate Research Training grant in Ecological Complexity for Fall 2000.

MORGAN S.K. ERNEST:
Published: Ernest, S.K.M., J.H. Brown and R.R. Parmenter. 2000. Rodents, plants, and precipitation: Spatial and temporal dynamics of consumers and resources. *Oikos* 88:470-482.

Accepted: Charnov, E.L., J.P. Haskell and S.K.M Ernest. Density-dependence, dimensionless life-histories and the energy-equivalence rule. *Evolutionary Ecology Research.*

Attended: Joint Meeting of the British Ecological Society and the Ecological Society of America, April; American Society of Mammalogists Meeting, June.

Presentations: American Society of Mammalogists, June.

JENNIFER M. PARODY:
Doctoral candidate, published: Parody, J.M., EJ. Cuthbert and E.H. Decker. In press. The effect of 50 years of landscape change on species richness and community compositions. *Global Ecology and Biogeography.*

Paper Presentation: Parody, J.M. and B.T. Milne Using renormalization to detect habitat selection across scales. Society for Conservation Biology, Missoula, MT, June.

Grant: Parody, J.M. Habitat selection in Bell's Vireo: A multi-scale assessment of southwest populations. NM Dept. of Game and Fish, $4,000, (third and last year of funding).

ANDREW KERKHOFF:
Doctoral candidate, published: Kerkhoff, A.J., B.T. Milne and D.S. Maehr. 2000. Toward a panther-centered view of the forests of South Florida. *Conservation Ecology* 4(1):1; online URL:http://www.consecol.org/vol4/iss1/art1

Attended: Annual Meeting of the U.S. chapter for the International Association for Landscape Ecology, Ft. Lauderdale, FL, April 15-18.

Presented poster: Ecological Optimality in a Landscape.

Awarded: NSF Doctoral Dissertation Improvement Grant, April 2000.

Awarded: Graduate Research Training grant in Ecological Complexity for Fall 2000.

PETER HRABER:
Papers published or accepted for publication: Qutob, D., P.T. Hraber, B.W.S. Sobral and M. Gijzen. 2000. Comparative analysis of expressed sequences in *Phytophthora sojae. Plant Physiology* 123:243-254.

Waugh, M., P.T. Hraber, J.W. Weller, G. Chen, D. Kiphart, Y. Wu and B.W.S Sobral. 2000. The *Phytophthora* genome initiative database: Informatics and analysis for collaborative pathogenomic research. *Nucleic Acids Research* 28(1):87-90.

Hraber, P.T. and B.W.S. Sobral. 2000. The *Phytophthora* genome initiative: A database and analysis system for collaborative pathogenomic research. Agricultural and Microbial Genomes I, San Diego, CA. (poster)

Hraber, P.T. and J.W. Weller. 2000. EST data mining to infer gene diversity and redundancy. International Plant and Animal Genome Conference VIII, San Diego, CA. (poster)

Stewart, J., H.J. Mangalam, P.T. Hraber and J.W. Weller. 2000. GENEX: An integrated gene expression information system. International Plant and Animal Genome Conference VIII, San Diego, CA. (invited talk)

Mentoring: Allison Styer, undergraduate student, Carnegie–Mellon University, "PEXFinder: Computational screening of ESTs for signal peptides and secreted proteins."

MICHAEL FULLER:
Doctoral candidate, attended: the Ecological Society of America Meeting in Spokane, WA, and presented paper titled: "A Set of Dynamic Diversity Indices" by Michael Fuller and Bai-Lian Li.

Involved in organizing a new grad student award for the Theoretical Section of the Ecological Society of America, wherein he persuaded a book publisher to donate $250 worth of books.

Awarded: Graduate Research Training grant in Ecological Complexity for Fall 2000.

ANN CARSON:
Awarded Graduate Research Training grant in Ecological Complexity for Fall 2000.

CRIPPS, R.M.

CHRISTINA FRIDRICK: Grove Research Scholar

KATHLEEN KELLY: "Regulation and function of the Actin57B gene in *Drosophila*"; K. Kelly, PI, R. Cripps, sponsor; pre-doctoral research fellowship, awarded to American Heart Association, Desert/Mountain Affiliate; 7/1/99–6/30/02,$18,000/year for two years.

DAHM, C.N.

CHRISTINE FELLOWS: was offered an NRC postdoc with the USGS and a research postdoctoral position with Stuart Bunn at Griffiths University in Brisbane, Australia. She accepted the postdoctoral position and began in August 2000.

DUSZYNSKI, D.W.

INGRID ASMUNDSSON:

Foreign Travel: Guatemala, June–July 2000 to collect parasites from amphibians and reptiles on an NSF-sponsored Biotic Survey & Inventory (BS&I) grant to Dr. Jon Campbell, University of Texas, Arlington, TX.

Publications:
Hollick, J.B., G.I. Patterson, I.M. Asmundsson and V.L. Chandler. 2000. Paramutation alters regulatory control of the maize pl locus. *Genetics* 154:1827-1838.

Funding received:
GRAC Research Award, $250
RPT Research Award, $1,000
Grove Scholarship Research Award, $800
The Explorer's Club, Research Award, $1,200

ANDREW LYNCH:
Papers/posters presented:
Lynch, A.J. and S.J. Taft. A survey of mites and their raptor hosts. University of Wisconsin Stevens Point (UWSP) Research Day, Stevens Point, WI, April 24.

Funding received:
UWSP Student Research Fund, $500, February 2000–2001

Awards:
UWSP Leadership Award
UWSP Biology Undergraduate Research Award, $125
B.S. with Highest Honors, UWSP

MEGAN RYAN:
Funding received:
Rocky Mountain Research Station, "Parasites and Fire," May, $500
GRAC Research Award, $400
SRAC Research Award, $200
RPT Research Award, $870

XIAOMIN ZHAO:
Funding received:
GRAC Research Award, $250
SRAC Research Award, $400
RPT Research Award, $800
Grove Research Scholarship, $800

KODRIC-BROWN, A.

DAVID GRAY:
Gray, D.A. and W.H. Cade. 2000. Senescence in field crickets (Orthoptera; Gryllidae): Examining the effects of sex and a sex-biased parasitoid. *Canadian Journal of Zoology* 78:140-143.

Gray, D.A. and W.H. Cade. 2000. Sexual selection and speciation in field crickets. *Proceeding of the National Academy of Sciences* 97:14449-14454.

Kiflawi, M. and D.A. Gray. 2000. Size-dependent response to conspecific mating calls by male crickets. *Proceeding of the Royal Society of London*, B 267:2157-2161.

MOSHE KIFLAWI:
Kiflawi, M. and D.A. Gray. 2000. Size-dependent response to conspecific mating calls by male crickets. *Proceeding of the Royal Society of London*, B 267:2157-2161.

Kiflawi, M. 2000. Developmental instability and within-population variation in sex expression by andromonoecious *Euphorbia xanti*. *Oikos* 89:107-114.

Kiflawi, M. 2000. Adaptive gamete allocation when fertilization is external and sperm competition is absent: Optimization models and evaluation utilizing coral reef fish. *Evolutionary Ecological Research* 2:1045-1066.

Kiflawi M., B.J. Enquist and M.A. Jordan. 2000. Position within the geographic range, relative local abundance and developmental instability. *Ecography* 23:539-546.

JONATHAN ROSENFIELD:
Attended and presented talk at E.E.E.E meeting in Athens, GA.

Attended and presented talk at D.E.C. meeting in Death Valley, CA.

Grant: "Hybridization and Introgression Between Pecos Pupfish and Sheepshead Minnow"; J. Rosenfield, PI; Share With Wildlife –NM Game and Fish; July 1, 2000–June 30, 2001, $3,069.

LI, B.–L.

HOWARD PASSELL: Two journal papers published in 2000.

LIGON, J.D.

TIMOTHY PARKER:
Paper presented at annual meeting of the NM Ornithological Society, March.
Paper presented at annual meeting of the Animal Behavior Society, August.

Funding received:
$356 from the UNM Office of Graduate Studies/Research, Planning and Travel for travel to Animal Behavior Society annual meeting, August.

$240 from UNM Graduate and Professional Student Association/Student Research Allocation Committee for travel to Animal Behavior Society annual meeting, August.

$100 UNM Biology Graduate Student Association/Graduate Research Allocation Committee for travel to Animal Behavior Society annual meeting, August.

$179.16 from UNM Graduate and Professional Student Association/Student Research Allocation Committee for research materials, Spring.

JENNIFER HILL:
Paper presented at annual meeting of the NM Ornithological Society, March.
Paper presented at annual meeting of the Animal Behavior Society, August.

LOKER, E.S.

RANDY DEJONG:
Recipient of American Society of Tropical Medicine and Hygiene travel grant award.

LOWREY, T.K.

LAURA BOYKIN (Ph.D. student):
Summer 2000 Workshop on Molecular Evolution, Woods Hole, MA (invited participant).

Graduate Research Assistant, Los Alamos Laboratory with the Theoretical Biology and Biophysics.

UNM Departmental Seminar: "Ecology and Evolution of Orcuttieae (Poaceae): An Endangered Vernal Pool Grass."

BOYKIN, L., T. Lowrey, M. McKinney and T. Columbus. "Evolutionary Relationships of Orcuttieae Revealed: A Transition from Land to Water?" Annual Research Day poster, Department of Biology, UNM, April.

"Reconstructing the Evolution of Influenza B viruses Using Maximum Likelihood Methods." BOYKIN, L., H. Lu, C. Macken, P. Mukundan and A. Naik. Los Alamos Student poster session.

Macken, C., L. BOYKIN, J. Goodman, H. Lu and J.J. Stewart. 2000. The value of the influenza sequence database in vaccine formulation and global surveillance. In *Options for the Control of Influenza IV.* Herosonissos, Crete, Greece.

California Native Plant Society Scholarship, 2001, $800.
P.E.O. Sisterhood Fellowship, 2000–01, $14,000.
Research and Travel Grant, UNM, 2000, $500.
Graduate Research Award, UNM, 2000, $150.
Grove Research Fellowship, UNM, 2000, $800.
Harry Wayne Springfield Summer Fellowship, UNM, 2000, $2,000.
Karling Award, Botanical Society of America, 1999, $5,000.

Reviewer for *American Journal of Botany*, 2001.
Biology Representative, Graduate Professional Student Association, UNM, 1999–2000.

CHRISTOPHER FRAZIER (Ph.D. student):
Attended the Ecology Society of America meetings in Snowbird, UT, August 8-16.

Frazier, C.K. 2000. Pollination and reproductive ecology of three lowland tropical pitcher plants (Nepenthes) and their hybrids. Presentation at the International Carnivorous Plant World Conference in San Francisco, CA, June 16-18.

Frazier, C.K. and T.K. Lowrey. 2000. Pollination and reproductive ecology of three lowland tropical pitcher plants (Nepenthes). Poster at the Annual Research Day, Department of Biology, UNM, April 7.

Frazier, C.K. and K.W. Allred. 2000. The botanical brandegees and their eponyms. *The New Mexico Botanist* 16:1-3.

MARSHALL, D.L.

OLIVA, JON-PAUL, M. Kelrick and S. Ochs. 2000. The influence of avalanche disturbance on community composition of a subalpine Picea–Abies forest in central Colorado. Presented at the Guild of Rocky Mountain Population Biologists annual meeting, Mt. Crested Butte, CO, September 2000.

MILLER, R.D.

KATE MISKA: Grove Fellowship

SERGIO FLORES RAMIREZ: Grant awarded from the Mexican Fund for Higher Education (FOMES) and Mexico's Bureau of Public Education (SEP) for $70,000 (US).

MOLLES, M.C. JR.

Several, but records not available to me here in Spain.

NATVIG, D.O.

AMY J. POWELL (Ph.D. student): received the David D. Perkins award at the *Neursopora* 2000 Conference, Asilomar, CA, March.

SNELL, H.L.

MARCO ALTAMIRANO:
Papers presented at the XXIV Jornadas de Biología en la Pontificia Universidad de Ecuador, Quito, Ecuador, November 23-25.:

- Influencias potenciales de factores bioticas y abioticas sobre los patrones de actividad en las culebras en Galápagos.
- El rol de factores ecologicos en la evolución de dimorfismo sexual en tamaño en *Philodryas hoodensis*.
- Invasiones y desplazamiento ecológico en los gecos de isla Santa Cruz.
- El efecto de actividades humanos sobre la herpetofauna de noroccidente del Ecuador: Una prueba de la hipótesis de alteración intermedia.

Foreign Travel:
Marco spent 2000 in the Galápagos Islands working in the field towards his Ph.D.

Training Workshop:
"Criterios de amenaza para la elaboración de listas y libro rojos de fauna de Ecuador," organized by the UICN, Ecociencia and the Environmental Ministry, Quito, Educador, October 30–3 November 3.

J. TOMAS GIERMAKOWSKI:
Grants Received:
Tomas received support from the UNM's LAI, SRAC and GRAC for his research activities in 2000.

Special Courses Taught:
"ArcView GIS as a Tool for Conservation Biology." A three-week course in Spanish presented to the staff of the Charles Darwin Research Station and the Galápagos National Park Service. Puerto Ayora, Isla Santa Cruz, Galápagos, Ecuador, July.

Foreign Travel:
Tomas spent the summer of 2000 doing field work in the Galápagos towards his Ph.D.

STRICKER, S.A.

TONI SMYTHE:
Best Graduate Student Poster, Annual Research Day, Department of Biology, UNM.

THORNHILL, R.

CORY FINCHER:
Paper presented: Natural Section on Rattling Behavior of the Western Diamondback Rattlesnake. Animal Behavior Society Annual Meeting, Bowling Green University, Bowling Green, OH, October.

MELISSA FRANKLIN:
Paper presented: Facial Attractiveness Judgments by Women Across the Menstrual Cycle. Human Behavior and Evolution Society, Amherst College, Amherst, MA, June.

TURNER, T.F.

ROBERT DUDLEY:
Altenbach, C.S., R.K. Dudley and S.P. Platania. 2000. A new device for collecting drifting fish eggs. *Transactions of the American Fisheries Society* 129:296-300.

Dudley, R.K. and W.J. Matter. 2000. Effects of small green sunfish (*Lepomis cyanellus*) on recruitment of Gila chub (*Gila intermedia*) in Sabino Creek, Arizona. *Southwestern Naturalist* 45:24-29.

Peer reviewer for *Journal of Arid Environments*.

Assisted in the production, review, and editing of the Rio Grande silvery minnow Recovery Plan, Region 2, U.S. Fish and Wildlife Service, Albuquerque, NM.

Served as an expert witness in U.S. District Court, New Mexico, case CIV 99-1320 JP/KBM-ACE: Rio Grande silvery minnow, et al., plaintiffs vs. Eluid L. Martinez, et al., federal defendants, Middle Rio Grande Conservancy District, defendant-intervenor, State of New Mexico, et al., defendant-intervenor, and City of Albuquerque, defendant-intervenor.

MEGAN V. MCPHEE:
Passed comprehensive exams with distinction.

Grant: "Comparative Dynamics Between the Native Rio Grande Sucker and the Introduced White Sucker"; M.V. McPhee, PI; N.M. Department of Game and Fish; $2,700, July 1, 2000–June 30, 2001.

Alvin R. and Caroline G. Grove Research Scholarship Recipient, starting Spring 2000.

MELANIE EDWARDS:
Awarded IGERT fellowship.

Applied for NSF Graduate Fellowship (November 2000).

WERNER–WASHBURNE, M.

PAMELA PADILLA: Ph.D. 1999, NSF Minority Post Doctoral Fellowship.

Bean, L.E., W.H. Dvorachek, Jr., E.L. Braun, A. ERRETT, G.S. Saenz, M.D. Giles, M. Werner–Washburne, M.A. Nelson and D.O. Natvig. 2001. Analysis of the *pdx-1* (*snz-1/sno-1*) region of the *Neurospora crassa* genome: Correlation of pyridoxine-requiring phenotypes with mutations in two structural genes. *Genetics*, in press.

Contributed abstracts to professional meetings:
COLINA, A., A. ERRETT, A. Sanchez, E. Fuge and M. Werner–Washburne. Yeast signaling pathways involved in stationary-phase survival. Yeast Genetics Meeting, Seattle, WA, July 25-30.

YATES, T.L.

Note: Only publications listed are for my three postdocs, Dragoo, Salazar–Bravo and Ruedas.

LARISA E. HARDING:
Prints in the dust: Differential habitat utilization, movement patterns, and behavior of American Black Bears. Seventh Western Black Bear workshop, Coos Bay, OR, May 2-4.
Utah bats: Natural history and control. Utah Animal Control Association Annual Meeting, St. George, UT, January 20.

YI-JU (RONI) CHEN:
Morphological variation of *Hipposideros armiger terasensis* among sexes and age groups. North American Bat Symposium, Miami, FL, October.

Attended the Asian Bat Symposium, Taichung, Taiwan.

ANDRES GARCIA AGUAYO:
Valenzuela, D., G. Ceballos and A. Garcia. 2000. Feline scabies outbreak in coatis at the Chamela–Cuixmala biosphere reserve, Mexico. *Journal of Wildlife Diseases*.

Latitudinal patterns of diversity in the Neotropics, the case of the Mexican dry forest herpetofaunas. Joint Meeting of the British Ecological Society and the Ecological Society of America, Miami, FL.

KATHERINE THIBAULT:
Adams, R.A. and K.M. Thibault. 2000. Ontogeny and evolution of the Chiropteran hindlimb: Assessing phylogenetic trends. Pp. 316-332 in *Ontogeny, Functional Ecology, and Evolution of Bats*, R.A. Adams and S.C. Pederson, eds. Cambridge: Cambridge University Press.

Strategies of roost use: Implications for the biogeography and assemblage structure of temperate bats. Bat Research News. North American Bat Symposium, Miami, FL, October.

Groves Research Fellowship, UNM.
NSF Predoctoral Fellowship (2nd year).

DAVID TINNIN:
Vincent, M.J., E. Quiroz, F. Garcia, A.J. Sanchez, T.G. Ksiazek, P.T. Kitsutani, L.A. Ruedas, D.S. Tinnin, L. Caceres, A. Garcia, P.E. Rollin, J.N. Mills, C.J. Peters and S.T. Nichol. 2000. Hantavirus pulmonary syndrome in Panama: Identification of novel hantaviruses and their likely reservoirs. *Virology* 277:14-19.

GABOR RACZ:
Papp, T., A. Gubanyi and G. Racz. 2000. Establishing the use of microsatellite analysis in locally endangered populations of root vole (*Microtus oeconomus*). *Acta Zoologica Academiae Scientiarum Hungaricae* 46:259-264.

JONATHAN L. DUNNUM:
Dunnum. J.L. 2000. Estimating plant primary productivity and invertebrate density on small mammal trapping webs. Annual Hantavirus Symposium, Fort Collins, CO.

JERRY DRAGOO:
Flynn, J.J., A. Nedbal, J.W. Dragoo and R.L. Honeycutt. 2000. Whence the Red Panda? *Molecular Phylogenetics and Evolution* 17:190-199.

B. **Undergraduate Education. *Bona fide* undergraduate courses taught each semester and number of students enrolled. Indicate new course (for you) with an asterisk.**

ALTENBACH, J.S.

Spring: Biol. 386, General Vertebrate Zoology, 32 students
Biol. 435, Animal Physiology, 28 students

BARTON, L.L.

Fall:	Biol. 351/352, General Microbiology/Gen. Microbiol. Lab, 93 students

BROWN, J.H.

Spring:	Biol. 494, Biogeography, 28 students

CHARNOV, E.L.

Spring:	Biol. 465, Sociobiology and Evolutionary Ecology, 9 students
Fall:	Biol. 402, ST/Evolution and Ecology, 3 students

CRIPPS, R.M.

Spring:	Biol. 221, Introduction to Genetics, 90 students
	Biol. 402, ST/ Gene Expression, 2 students
	Biol. 499, Undergraduate Problems, 4 students (each of these students worked in my laboratory under my supervision for >10 hours per week during the semester)
	Biol. 400, Senior Honors Thesis, 2 students
Summer:	Biol. 400, Senior Honors Thesis, 1 student
Fall:	Biol. 402, ST/Transcription, 2 students
	Biol. 446, Laboratory Methods in Molecular Biology, 5 students
	Biol. 402, ST/ Gene Expression, 2 students
	Biol. 499, Undergraduate Problems. 4 students (each of these students worked in my laboratory under my supervision for >10 hours per week during the semester)

DAHM, C.N.

Spring:	Biol. 495, Limnology, 10 students–7 undergraduate students
	Biol. 496L, Limnology Lab, 3 students–2 undergraduate students

DUSZYNSKI, D.W.

Spring:	Biol. 461L, Introduction to Tropical Biology, 14 students
	Biol. 482L, Parasitology, 7 students
	Biol. 499, Undergraduate Problems, 4 students
Fall:	No "official" teaching, Senior Research Semester Award from the College of Arts & Sciences
	Biol. 499, Undergraduate Problems, 1 student

FAGUY, D.M.

Spring:	*Biol. 351, General Microbiology, 72 students
Fall:	*Biol. 402-05, ST/Microbial Diversity and Evolution, 15 students
	*Biol. 402-330, ST/Microbial Diversity and Evolution Lab, 4 students

GOSZ, J.R.

Spring:	Biol. 475, Desert Field Biology, 14 students
Fall:	Biol. 403, Ecosystem Ecology, 24 students

Biol. 400, Senior Honors Thesis, Brian Sanchez

KODRIC-BROWN, A.

Spring:	Biol. 402, ST/Human Adornment, 1 student (2 cr)
	Biol. 455, Animal Behavior, 16 students
	Biol. 499, Undergraduate Problems, 1 student (1 cr)
Fall:	Biol. 499, Undergraduate Problems, 1 student (1 cr)

LI, B.-L.

Fall:	Biol. 402, Ecological Modeling, 3 students

LIGON, J.D.

Spring:	Biol. 486, Ornithology, 19 students
Fall:	Biol. 379, Conservation, 42 students
	Biol. 402, ST/Avian Social Systems, 6 students

LOWREY, T.K.

Spring:	Biol. 461L, Introduction to Tropical Biology, 12 students
Fall:	Biol. 463, Flora of New Mexico, 20 students

MARSHALL, D.L.

Fall:	Biol. 360, General Botany, 21 students
	*Biol. 402, ST/Topics in Plant Ecology—Biology of Weedy and Invasive Plants, 4 students

MILLER, R.D.

Spring:	Biol. 450, General Virology, 48 students
	Biomed. 472, General Virology, 3 students (co-listing with Biol. 450)
Fall:	Biol. 456, Immunology, 81 students

MOLLES, M.C. JR.

Spring:	Biol. 122, Principles of Biology, 403 students.

NATVIG, D.O.

Spring:	Biol. 402, ST/Advanced Fungal Genetics, 2 students
Fall:	Biol. 446, Laboratory Methods in Molecular Biology, 8 students

NELSON, M.A.

Spring:	*A&S 199, Genetics and Society, 14 students
	Biol. 402/502, ST/Comparative Genomics, 6 students
Fall:	Biol. 221, Introductory Genetics, two sections with ~80 students each (I taught half of each section).
	Biol. 402/502, ST/Genomic Analysis, 5 students

POCKMAN, W.T.

Fall:	*Biol. 121-001, Principles of Biology, 455 students
	*Biol. 500, New Graduate Student Seminar, 23 students

SNELL, H.L.

Spring:	Biol. 379, Conservation Biology, 40 students

STRICKER, S.A.

Fall:	Biol. 416L, Histology, 35 students
	*Biol. 402, ST/Fertilization Biology, 5 students
	Biol. 499, Undergraduate Problems, 2 students

THORNHILL, R.

Spring:	Biol. 365, The Evolution of Human Sexuality, 100 students
	Biol. 402, ST/Sexual Selection, 4 students
	Biol. 499, Undergraduate Problems, 5 students
Fall:	Biol. 300, Evolution, 65 students
	Biol. 499, Undergraduate Problems, 8 students

TOOLSON, E.C.

Spring:	Biol. 122, Principles of Biology, 400+ students
	Biol. 402, ST/Ecology Seminar, 9 students (note: each student has to write a 1–2 page summary, analysis, and critique of each seminar attended, which I grade)
	Biol. 499, Undergraduate Problems, 2 students (Leah Damiani, Kari Donohue)
Summer:	Biol. 499, Undergraduate Problems, one student (Kim Krause)
Fall:	Biol. 499, Undergraduate Problems, one student (Kim Krause)

TURNER, T.F.

Spring:	Biol. 386L, General Vertebrate Zoology, 33 students
	Biol. 402, ST/Stable Isotopes in Ecology Seminar, 7 students
Fall:	Biol. 402, ST/Ecology Seminar, 9 students
	Biol. 487L, Ichthyology and Laboratory, 13 students

VOGEL, K.G.

Fall:	Biol. 219, Principles of Cell Biology, Section 01, 228 students, Section 02, 59 students (co-taught with B. Hofkin).
	Biol. 400, Honors, 2 students

WAGNER, A.

Spring:	Biol. 437, Evolutionary Genetics, 16 students
	Biol. 402, Comparative Genomics, 3 students
Fall:	Biol. 221, Introductory Genetics, 160 students
	Biol. 402, ST/Genomic Analysis, 1 student

WERNER-WASHBURNE, M.

Fall: * Biol. 444, Genomes and Genomic Analysis, 5 students

C. Teaching Awards.

None.

D. Curriculum Development/Production of Teaching Materials.

BARTON, L.L.

Developed a scheme in the form of a Proposal for Interactive Viewing of Microbial Structures.

CHARNOV, E.L.

Fall: Worked on a revision of the graduate and undergraduate core curriculum.

DAHM, C.N.

I am coordinating the UNM component of the distance learning classes in the new NSF IGERT-supported interinstitutional (Center for Freshwater Studies at the University of Alabama) and interdisciplinary Ph.D. program. The first class (Climate Dynamics) was taught by Dr. Dave Gutzler of EPS in the Fall of 2000. We are presently developing the Freshwater Ecosystems and Geomicrobiology classes for 2001.

FAGUY, D.M.

Designed and began implementation of new computer/microscopy teaching facility, funded by Department of Defense grant.

Began revamping microbiology curriculum to take advantage of new facility.

LOKER, E.S.

Development of new course to be entitled "Biology of Infectious Organisms," to be taught Spring 2002, and submission of related paperwork to Undergraduate Curriculum Committee.

NELSON, M.A.

Developed new course for the Freshman Seminar Series: A&S 199, Genetics and Society.

POCKMAN, W.T.

Web site in support of Biol. 121, plus Biol. 121 lecture writing.

STRICKER, S.A.

New course development: Biol. 402/502, ST/Fertilization Biology.

TOOLSON, E.C.

Computer simulations for Biol. 122 (Principles of Biology) and Biol. 435 (Animal Physiology).

Web pages for Biol. 122 (Principles of Biology) and Biol. 435 (Animal Physiology).

Much of my intellectual effort this past year has been dedicated to expanding the breadth and depth of the computer simulations I've been writing for Biol. 122 and 435. As a result, they are much more than just a standard manual for a physiology lab course. The production of each of these simulations, in addition to requiring me to learn advanced programming techniques, has also forced me to delve deeply into the primary literature of a number of disparate fields, including neurophysiology, muscle physiology, perceptual psychology, metabolic networks, and even quantum physics. They are MUCH more difficult and time-consuming to produce than typical lab manual exercises, in which students are merely given instructions about how to conduct an experiment and given some questions to answer based on their data. Each of these simulations took literally weeks of intense effort, easily as demanding in terms of time and mental energy, as writing a manuscript for publication.

Many of these simulations are unique in that they allow students to conduct some of THE classic experiments in physiology, while others (e.g., the Stochastic Resonance and Visual Illusion simulations) actually let them conduct their own "research." Especially in the case of the Visual Illusion simulations, students are able to perform experiments that extend their knowledge beyond what is currently available in the Perceptual Psychology primary literature. Most of the simulations stress data analysis and hypothesis testing, and Scott Altenbach, and now Blair Wolf, have used many of these simulations when they teach Biol. 435.

Feedback says the students both enjoy and benefit from working with the simulations, and I've recently been contacted by faculty in UNM's medical school and from several schools across the country (University of Chicago and the University of Pennsylvania among others) for permission to use some of these simulations in their courses. In this regard, the neurophysiology simulations have seemed particularly interesting to neurobiology programs, even though there are commercial neurophysiology programs available. My point being that they are certainly garnering a certain amount of favorable publicity for the department.

These simulations are more than just a contribution to the teaching mission, instead blurring the distinction between classical teaching efforts and more classically defined scholarly work. The simulations represent a combination of the sort of intellectual effort/achievement that we associate with papers published in the primary literature, as well as serving as a very unique sort of laboratory manual. You will find them at (http://www.unm.edu/~toolson/435sims.html) (the Visual Illusions and Stochastic Resonance simulations require less of a background in physiology).

TURNER, T.F.

Development of web Page for Biol. 487L, Ichthyology.

Development of web page for Biol. 386L, General Vertebrate Zoology.

Development of web page for Biol. 402/502, ST/Ecology Seminar.

WERNER–WASHBURNE, M.

Biol. 444/544: brought in many tens of thousands of dollars of donated software, data files from the Institute for Genome Research.

E. Museum Curator, Advisor, Assistant Chair, EM Director, etc.

ALTENBACH, J.S.

Departmental Vice Chair

BARTON, L.L.

Supervisor of Media Preparation for Microbiology labs
Supervisor for Bacteriological Culture System for teaching microbiology labs

DUSZYNSKI, D.W.

Secretary–Treasurer, Biological Society of New Mexico

LIGON, J.D.

Curator, Division of Birds, Museum of Southwestern Biology

LOWREY, T.K.

Curator, Division of Herbarium, Museum of Southwestern Biology

Director, Museum of Southwestern Biology

MILLER, R.D.

Director, Molecular Biology Facility

Departmental Honors Program Advisor

Pre-Veterinary Medicine Advisor

MOLLES, M.C. JR.

Curator, Division of Arthropods, Museum of Southwestern Biology

SNELL, H.L.

Curator of the Division of Herpetology, Museum of Southwestern Biology

Program Leader of Vertebrate Ecology and Monitoring at the Charles Darwin Research Station, Galápagos Islands, Ecuador

STRICKER, S.A.

Director, Electron Microscopy Center

Director, Confocal Microscopy Center

Undergraduate Advisor

TURNER, T.F.

Curator, Division of Fishes, Museum of Southwestern Biology, UNM.
- ➢ Development of MSB Fishes web page.
- ➢ Supervised accessions and cataloging of more than 100,000 specimens.
- ➢ Participated in planning and monitoring MSB renovation activities at weekly construction meetings.
- ➢ Awarded collection improvement grant from NSF.
- ➢ Directed REU program in MSB Fishes, Summer 2000.

VOGEL, K.G.

Director, Minority Access to Research Careers (MARC) Undergraduate Program.

YATES, T.L.

Curator, Division of Mammals, Museum of Southwestern Biology

Curator, Division of Biological Materials, Museum of Southwestern Biology

F. Other Teaching Activities.

BROWN, J.H.

Current advisees:
- ➢ Undergraduate honors (1)
- ➢ Ph. D. (6, including one intern at Santa Fe Institute)
- ➢ Postdoctoral (1)

CRIPPS, R.M.

Supervisor for one Summer Honors Student.
Honors committee, Crystal Ortiz (graduated Spring 2000, with honors).
Honors committee, Niels Klitgord (graduated Summer 2000, Magna cum laude).

DAHM, C.N.

Supervised Maceo Carillo Martinet during the Summer of 2000 with support from the NSF REU program. Maceo is an undergraduate majoring in Natural Sciences at Cornell University.

Supervised Pauline Chavez–Lamphere, a McNair Program scholar, throughout 2000.

Supervising David Gilroy as he completes his senior honors thesis in biology at the University of New Mexico.

DUSZYNSKI, D.W.

March: Took our Introduction to Tropical Biology class (Biol. 461L) to Possum Point and Wee Wee Caye field stations, Belize, Central America, 10 days, 20 students and faculty from UNM and Albuquerque TVI.

FAGUY, D.M.

Spring: Guest Lecture in Biol. 644, Genomics.

Spring & Fall: Mentored two undergraduates students in research projects in my lab.

LI, B.–L.

Major Advisor:
Martha L. Ennis (co-Chair with J. Gosz)
Ben Goodwin (co-Chair with J. Gosz)
Huining Kang (co-Chair with S. Efromovich, Dept. Math. & Stat.)
Igor Nazarov (Dept. Math. & Stat.) (Chair)
Howard Passell (co-Chair with C. Dahm)
Xuefei Wang (Chair)

Member of the graduate student committees:
Andrew P. Allen (Chair: B. Milne)
Ford Ballantyne (Chair: J. Brown)
Ethan Decker (Chair: B. Milne)
Andrew J. Kerkhoff (Chair: B. Milne)
William LaRue (Chair: R. Thornhill)
Shawn A. Means (Math. & Stat. Dept.)
Bob Walsh (Chair: K. Vogel)

Postdoctoral supervision:
Madhur Anand (August 1999 –July 2000)
ZhenShan Lin (February–October 2000)

NATVIG, D.O.

Spring:	Biol. 400, Senior Honors Thesis, 1 student (L. Chavez, 3 cr)
	Biol. 599, Masters Thesis, 2 students (J. Galbraith, 6 cr; S. Shoup, 4 cr)
	Biol. 699, Dissertation, 2 students (A. Powell, 10 cr; A. Ditto, 12 cr)
	Biol. 499, Undergraduate Problems, 1 student, (J. Weber, 1 cr)
Summer:	Biol. 599, Masters Thesis, 2 students (J. Galbraith, 3 cr; S. Shoup, 2 cr)
	Biol. 699, Dissertation, 1 student (A. Powell, 3 cr)
Fall:	Biol. 499, Undergraduate Problems, 1 student (S. Moonka, 1 cr)
	Biol. 599, Masters Thesis, 2 students (J. Galbraith, 3 cr; S. Shoup, 2 cr)
	Biol. 699, Dissertation, 2 students (A. Powell, 10 cr; A. Ditto, 9 cr)

NELSON, M.A.

Spring:	Biol. 400, Senior Honors Thesis, 3 students
	Biol. 499, Undergraduate Problems, 1 student
	Biol. 551, Problems, 1 student
	Biol. 699, Dissertation, 5 students
Summer:	Biol. 699, Dissertation, 2 students
Fall:	Biol. 400, Senior Honors Thesis, 1 student
	Biol. 499, Undergraduate Problems, 2 students

Biol. 551, Problems, 1 student
Biol. 699, Dissertation, 4 students

Co-advisor (with Ben Walker, Dept. of Cell Biology and Physiology, UNM Medical School) on Nikki Jernigan's Honor's Thesis: "Onset and Reversal of Hypoxia-Induced Vasoconstrictor Hyporeactivity Correlates with Heme Oxygenase Expression" (graduated May 2000, summa cum laude; awarded the Outstanding Biology Graduate Award; accepted to three grad schools).

Co-advisor (with Stephanie Ruby, Dept. of Molecular Genetics and Microbiology, UNM Medical School) on Barham K. Abu Dayyeh's Senior Honors Thesis: "Efficient Association of the U2 nRNP to the Yeast Pre-mRNA Branchpoint Region Requires Prp5" (graduated December 2000, magna cum laude).

POCKMAN, W.T.

Spring:	Guest lecture, Biol. 478, Plant Physiology, taught by G.V. Johnson.
Summer:	Biol. 499, Undergraduate Problems, Matt Rawlings
Fall:	Biol. 499, Undergraduate Problems, Annie Pollard

SNELL, H.L.

Ecological monitoring via a GPS/GIS interface. Course in Spanish presented to Ecuadorian students and staff of the Charles Darwin Research Station and the Galápagos National Park Service, June.

Spring:	Secured funding to bring three Ecuadorian university students to UNM to take my (spring) Conservation Biology (Biol. 379) class.
Fall:	Presented guest lectures in Ecosystem Ecology (Gosz), Conservation Biology (D.L. Ligon), and a University Studies course (Tull).

STRICKER, S.A.

Taught 2–6 week-long training sessions in:
1) Plastic embedding and sectioning,
2) Confocal microscopy,
3) Scanning electron microscopy.

TURNER, T.F.

Museum activities featured in the *Albuquerque Journal* and the *Daily Lobo.*

"UNM Connections" (a television show highlighting research at UNM) featured my work on conservation of the Rio Grande silvery minnow.

Supervised graduate research of three Ph.D. students (Megan McPhee, Melanie Edwards and Rob Dudley), one post-doc (Dr. John Wares), and one master's student.

Served on graduate committees of 10 Ph.D. students besides my own.

Supervised independent research of three undergraduate students in my laboratory.

Served on organizational committee for NSF-IGERT award.

Reader for 1 Senior Honors theses.

VOGEL, K.G.

Chris Kerwin, thesis: "Localization of Scleraxis mRNA transcripts within developing tendon and skeletal elements of murine limbs." Magna cum laude, May.

Jeremy Lewis (co-mentor with Richard Larsson), Spring and Fall.

WERNER–WASHBURNE, M.

Through SW–Genomics and Biotechnology Alliance, we organized a Day of Talks, Albuquerque, NM, March.

II. PUBLICATIONS.

A. Books Authored.

MOLLES, M.C. JR.

Molles, M.C., Jr. In press. *Ecology: Concepts and Applications*, 2nd edition. Dubuque, IA: WCB/McGraw–Hill. 509 pp. Complete second edition of *Ecology* book.

Molles, M.C., Jr. In preparation. *Environment: Science and Solutions*. Boston, MA: Houghton Mifflin.

THORNHILL, R.

Thornhill, R. and C.T. Palmer. 2000. *A Natural History of Rape: Biological Bases of Sexual Coercion*. MIT Press.

B. Books Edited.

LI, B.–L.

Li, B.–L., ed. 2000. *State-of-the-Art in Ecological Modelling: Proceedings of ISEM '95* (EcoMod Special Issue). Elsevier, Amsterdam, 174 pp.

C. Chapters in Books or Major Synthetic Reviews.

CHARNOV, E.L.

Hawkes, K., J.F. O'Connell, N.G. Blurton Jones, H. Alvarez and E.L. Charnov. 2000. The grandmother hypothesis and human evolution. Pp. 231-252 in *Adaptation and Human Behavior: An Anthropological Perspective*, L. Cronk et. al., eds. Aldine de Gruyter.

CRIPPS, R.M.

Cripps, R.M. and S.I. Bernstein. 2000. Generation of transgenic *Drosophila melanogaster* via P-element mediated germline transformation. Invited chapter in *Introduction of DNA into Living Cells and Organisms*, Steel and Norton, eds. Natick, MA: Biotechniques Books.

DAHM, C.N.

Baker, M.A., C.N. Dahm and H.M. Valett. 2000. Anoxia, anaerobic metabolism, and biogeochemistry of the stream-water-ground-water interface. pp 259-283 in *Streams and Ground Waters*, J.B. Jones and P.J. Mulholland, eds. San Diego: Academic Press.

DUSZYNSKI, D.W.

Duszynski, D.W. and S.J. Upton. 2000. Coccidia (Apicomplexa: Eimeriidae) of the Mammalian Order Insectivora. Special Publication of the Museum of Southwestern Biology, No. 4, The University of New Mexico Press, Albuquerque, NM. 67 pp.

FAGUY, D.M.

Redder, P., D. Faguy, K. Brugger, Q. She and R. Garrett. 2001, in press. Archaeal Mobile DNA. In *Mobile DNA II*. Washington, DC: ASM Press.

GOSZ, J.R.

J. Cihlar, S. Denning, F. Ahern, O. Arino, A. Belward, F. Bretherton, W. Cramer, G. Dedieu, C. Field, R. Francey, R. Gommes, J. Gosz, K. Hibbard, T. Igarashi, P. Kabat, R. Olson, S. Plummer, I. Rasool, M. Raupach, R. Scholes, J. Townshend, R. Valentini and D. Wickland. 2000. IGOS-P Carbon Cycle Observation Theme: Terrestrial and Atmosphere Components. Food and Agricultural Organization, Rome, Italy.

J.R. Gosz, D. Peters, M. Kertesz, E. Kovacs–Lang, G. Kroel–Dulay and S. Barta. 2000. Organization of grasslands along ecological gradients: U.S.–Hungarian LTER grassland cooperation. Pp. 67-78 in *Cooperation in Long Term Ecological Research in Central and Eastern Europe: Proceedings of the ILTER Regional Workshop*, K. Lajtha and K. Vanderbilt, eds. Corvallis, OR: Oregon State University Press.

LOKER, E.S.

Adema, C.M, K.K Sapp and E.S. Loker. 2000. Immunobiology of the relationship of echinostomes with snail intermediate hosts. Pp. 149-173 in *Echinostomes as Experimental Models for Biological Research*, edited by T.K. Graczyk and B. Fried, eds. Kluvyer.

Loker, E.S. and C.J. Bayne. 2000. Molecular studies of the molluscan response to digenean infection. Pp. 209-222 in *Phylogenetic Perspectives on the Vertebrate Immune Response,* FASEB summer research conference, G. Beck, M. Sugumaran and E. Cooper, eds. Kluyver.

MILLER, R.D.

Deane, E.M. and R.D. Miller. 2000. Marsupial immunology: Out of the pouch (editorial). *Developmental & Comparative Immunology* 24:443-444.

Miller, R.D. and K. Belov. 2000. Immunoglobulin genetics of marsupials (review). *Developmental & Comparative Immunology* 24:485-490.

NELSON, M.A.

Nelson, M.A. and D.D. Perkins. 2001. Appendix 3: Data for RFLP Mapping. Pp. 231-239 in *The Neurospora Compendium: Chromosomal Loci*, D.D. Perkins, A. Radford and M.S. Sachs, eds. San Diego, CA: Academic Press.

Dolan, P.L., D.O. Natvig and M.A. Nelson. 2001. Appendix 7: Expressed Sequences from Different Stages of the *Neurospora* Life Cycle: Putative Identification of cDNAs. Pp. 243-259 in *The Neurospora Compendium: Chromosomal Loci*, D.D. Perkins, A. Radford and M.S. Sachs, eds. San Diego, CA: Academic Press.

POCKMAN, W.T.

Jackson, R.B., L.J. Anderson and W.T. Pockman. 2000. Measuring soil water availability and water extraction by plants in ecosystem studies. Pp. 199-214 in *Methods in Ecosystem Science*, O.E. Sala, R.B. Jackson, H.A. Mooney, R. Howarth, eds. New York, NY: Springer–Verlag.

SNELL, H.L.

Tapia, W., M. Patry, H. Snell and V. Carrion. 2000. Estado actual y manejo de los vertebrados introducidos a las isles Galápagos. Pp 77-84 in *Informe de Galápagos 1999–2000*, J. Cevallos and C. Falconi, eds. Quito Ecuador: Fundacion Natura y WWF.

Snell, H.L. and S. Rea. 2000. Hubo University evento La Niña en las Islas Galápagos durante 1998–1999? Pp. 85-91 in *Informe de Galápagos 1999–2000*, J. Cevallos and C. Falconi, eds. Quito Ecuador: Fundacion Natura y WWF.

Fritts T.H., H.L. Snell, L. Cayot, C. MacFarland, S. Earsom, C. Marquez, W. Llerena and F. Llerena. 2000. Progress and priorities in research for the conservation of reptiles. In *Proceedings of the Symposium Sience and Conservation in Galápagos*, N. Sitwell, L. Baert and G. Cuppois, eds. *Bulletin de 'l Institut Royal des Siences Naturalles de Belgique* Vol. 70:39-45.

THORNHILL, R.

Palmer, C.T. and R. Thornhill. 2000. Serial rape: An evolutionary perspective. Pp. 51-66 in *Serial Offenders: Current Thoughts, Recent Findings*, L.B. Schlesinger, ed. Boca Raton, FL: CRC Press.

Thornhill, R. and S.W. Gangestad. 2000. Facial attractiveness. *Trends in Cognitive Sciences* 3:452-460.

D. Articles in Refereed Journals.

ALTENBACH, J.S.

Cryan, P., M.A. Bogan and J.S. Altenbach. 2000. Effect of elevation on distribution of female bats in the Black Hills, South Dakota. *Journal of Mammalogy* 81(3):719-725.

BARTON, L.L.

Xu, H., L.L. Barton, P. Zhang and Y. Wang. 2000. TEM Investigations of U6+ and Re7+ reduction by *Desulfovibrio desulfuricans*, a sulfate-reducing bacterium. *Material Research Symposium Proceedings* 608:299-304.

Barton, L.L., G.V. Johnson, A.G. O'Nan and B.W. Wagener. 2000. Inhibition of ferric chelate reductase in alfalfa roots by cobalt, nickel, chromium and copper. *Journal of Plant Nutrition* 23:1833-1845.

Shelton, P.S. and L.L. Barton. 2000. Ferric citrate reductase activity in *Laccaria laccata*, an ectomycorrhizal fungus. *Journal of Plant Nutrition* 23:1699-1706.

BROWN, J.H.

Cartron, J.L.E., J.F. Kelly and J.H. Brown. 2000. Constraints on patterns of covariation: A case study in strigid owls. *Oikos* 90(2):381-389.

Guo, Q.F., J.H. Brown, T.J. Valone and S.D. Kachman. 2000. Constraints of seed size on plant distribution and abundance. *Ecology* 81(8): 2149-2155.

Kelt, D.A. and J.H. Brown. 2000. Species as units of analysis in ecology and biogeography: Are the blind leading the blind? *Global Ecology and Biog.* 9:213-217.

Kelt, D.A., Marquet, P.A. and J.H. Brown. 2000. Geographical ecology of South American desert small mammals: Consequences of observations at local and regional scales. *Global Ecology and Biog.* 9:219-223.

Brown, J.H., Fox, B.J. and D.A. Kelt. 2000. Assembly rules: Desert rodent communities are structured at scales from local to continental. *American Naturalist* 156(3):314-321.

Curtain, C.G., Kelt, D.A., Frey, T.C. and J.H. Brown. 2000. On the role of small mammals in mediating climatically driven vegetation change. *Ecological Letters* 3(4):309-317.

Guo, Q.F., Brown, J.H. and T.J. Valone. 2000. Abundance and distribution of desert annuals: Are spatial and temporal patterns related? *Journal of Ecology* 88(4):551-560.

Ernest, S.K.M., Brown, J.H. and R.R. Parmenter. 2000. Rodents, plants, and precipitation: Spatial and temporal dynamics of consumers and resources. *Oikos* 88:470-482.

Brown, J.H. and M.V. Lomolino. 2000. Concluding remarks: Historical perspective and the future of island biogeography theory. *Global Ecology and Biog.* 9:87-92.

CHARNOV, E.L.

Charnov, E.L. 2000. Evolution of life history variation among species of altricial birds. *Evolutionary Ecology Research* 2:365-373.

Charnov, E.L. and U. Skúladóttir. 2000. Dimensionless invariants for the optimal size (age) of sex change. *Evolutionary Ecology Research* 2:1067-1071.

CRIPPS, R.M.

Arrendondo, J.J., R.M. Ferreres, M. Maroto, R.M. Cripps, R. Marco, S.I. Bernstein and M. Cervera. 2001. Control of the *Drosophila* paramyosin/miniparamyosin gene expression: A possible role for MEF2 in structural muscle protein transcriptional regulation. *Journal of Biological Chemistry*, in press.

Arrendondo, J.J., M. Mardahl-Dumesnil, R.M. Cripps, S.I. Bernstein and M. Cervera. Overexpression of mini-paramyosin causes muscle dysfunction and progressive myofibril degeneration in the indirect flight muscles of *Drosophila melanogaster*. Submitted to *Journal of Muscle Research and Cell Motility*.

Lovato, T.L., S.M. Meadows, P.W. Baker and R.M. Cripps. Characterization of muscle actin genes in *Drosophila virilis* reveals significant molecular complexity in skeletal muscle types. Submitted to *Insect Molecular Biology*.

DAHM, C.N.

Baker, M.A., H.M. Valett and C.N. Dahm. 2000. Organic carbon supply and metabolism in a shallow groundwater ecosystem. *Ecology* 81:3133-3148.

Morrice, J.A., C.N. Dahm, H.M. Valett, P.V. Unnikrishna and M.E. Campana. 2000. Terminal electron accepting processes in the alluvial sediments of a headwater stream. *Journal of the North American Benthological Society* 19:593-608.

Northup D.E, C.N. Dahm, L.A. Melim, M.N. Spilde, L.J. Crossey, K.H. Lavoie, L.M. Mallory, P.J. Boston, K.I. Cunningham and S.M. Barns. 2000. Evidence for geomicrobiological interactions in Guadalupe caves. *Journal of Cave and Karst Studies* 62:80-90.

Palmer, M.A., A.P. Covich, S. Lake, P. Biro, J.J. Brooks, J. Cole, C. Dahm, J. Gilbert, W. Goedkoop, K. Martens, J. Verhoeven and W.J. Van de Bund. 2000. Linkages between aquatic sediment biota and life above sediments as potential drivers of biodiversity and ecological processes. *Bioscience* 50(12):1062-1075.

Lake, P.S., M.A. Palmer, P. Biro, J. Cole, A.P. Covich, C. Dahm, J. Gibert, W. Goedkoop, K. Martens and J. Verhoeven. 2000. Global change and the biodiversity of freshwater ecosystems: Impacts on linkages between above-sediment and sediment biota. *Bioscience* 50(12):1099-1107.

DUSZYNSKI, D.W.

Asmundsson, I.M., J.A. Campbell and D.W. Duszynski. 2000. A new *Eimeria* sp. from the plumbeous Central American caecilian *Dermophis mexicanus* (Amphibia: Gymnophiona) from Volcán Tajumulco, Department of San Marcos, Guatemala. *Journal of Parasitology* 86:340-342.

FAGUY, D.M.

Faguy, D.M. 2000. Bacterial genomics: The controlled chaos of shifty pathogens. *Current Biology* 10:R498-501.

Faguy, D.M. and W.F. Doolittle. 2000. Horizontal transfer of catalase-peroxidase genes from archaea to pathogenic bacteria. *Trends in Genetics* 16:196-7.

Charlebois, R.L., R.K. Singh, C.C.-Y. Chan–Weiher, G. Allard, C. Chow, F. Confalonieri, B. Curtis, M. Duguet, G. Erauso, D. Faguy, T. Gaasterland, R.A. Garrett, P. Gordon, A.C. Jeffries, C. Kozera, N. Kushwaha, É. Lafleur, N. Medina, X. Peng, S.L. Penny, Q. She, A. St. Jean, J. van der Oost, F. Young, Y. Zivanovic, W.F. Doolittle, M.A. Ragan and C.W. Sensen. 2000. Gene content and organization of a 281-kbp contig from the genome of the extremely thermophilic archaeon *Sulfolobus solfataricus* P2. *Genome* 43:116-136.

LI, B.–L.

Li, B.–L. 2000. Fractal geometry applications in description and analysis of patch patterns and patch dynamics. *Ecological Modelling* 132:33-50.

Li, B.–L. 2000. Why is the holistic approach becoming so important in landscape ecology? *Landscape and Urban Planning* 50:27-41.

Li, B.–L., H. Wu and G. Zou. 2000. Self-thinning rule: A causal interpretation from ecological field theory. *Ecological Modelling* 132:167-173.

Wu, H., B.–L. Li, T.A. Springer and W.H. Neill. 2000. Modelling animal movement as a persistent random walk in two dimensions: Expected magnitude of net displacement. *Ecological Modelling* 132:115-124.

Leibowitz, S.G., C. Loehle, B.–L. Li and E.M. Preston. 2000. Modeling landscape functions and effects: A network approach. *Ecological Modelling* 132:77-94.

Medvinsky, A.B., I.A. Tikhonova, B.–L. Li and H. Malchow. 2000. The role of carnivous zooplankton in the dynamics of fish-plankton trophic interactions. *Biophysics* 45(4):746-750.

LIGON, J.D.

Merola–Zwartjes, M. and J.D. Ligon. 2000. Ecological energetics of the Puerto Rican Tody: Heterothermy, torpor, and intra-island variation. *Ecology* 81:990-1003.

Randi, E., V. Lucchini, T. Armijo–Prewett, R.T. Kimball, E.L. Braun and J.D. Ligon. 2000. Mitochondrial DNA phylogeny and speciation in the tragopans. *Auk* 117:1003-1015.

LOKER, E.S.

Adema, C.M., P.M. Leonard, R.J. DeJong, H.L. Day, D.J. Edwards, G. Burgett, L.A. Hertel and E.S. Loker. 2000. Analysis of messages expressed by *Echinostoma* miracidia and sporocysts, obtained by random EST sequencing. *Journal of Parasitology* 86:60-65.

Bandoni, S.M., M. Mulvey and E.S. Loker. 2000. Population structure and taxonomic discrimination among three species of *Biomphalaria* Preston, 1910 (Gastropoda: Planorbidae) from Kenya. *Zoological Journal of the Linnean Society* 129:387-401.

Hertel, L.A., S.A. Stricker and E.S. Loker. 2000. Calcium dynamics of hemocytes of the gastropod *Biomphalaria glabrata*: Effects of digenetic trematodes and selected bioactive compounds. *Invertebrate Biology* 119:27-37.

Snyder, S.D. and E.S. Loker. 2000. Evolutionary relationships among the Schistosomatidae (Platyhelminthes: Digenea) and an Asian Origin for *Schistosoma*. *Journal of Parasitology* 86:283-288.

Sapp, K.K. and E.S. Loker. 2000. Mechanisms underlying digenean–snail specificity: Role of miracidial attachment and host plasma factors. *Journal of Parasitology* 86:1012-1019.

Sapp, K.K. and E.S. Loker. 2000. A comparative study of mechanisms underlying digenean–snail specificity: *in vitro* interactions between hemocytes and digenean larvae. *Journal of Parasitology* 86:1020-1029.

LOWREY, T.K.

Okada, M., T.K. Lowrey and R. Whitkus. 2000. Quantitative morphological variation in *Tetramolopium* (Asteraceae) in Hawaii and the Cook Islands. *Plant Systematics and Evolution* 221:1-13.

Whitkus, R., H. Doan and T.K. Lowrey. 2000. Genetics of sex expression in Hawaiian *Tetramolopium* (Asteraceae). *Heredity* 85:37-43.

MARSHALL, D.L.

Cabin, R.J. and D.L. Marshall. 2000. The demographic role of soil seed banks I: Spatial and temporal comparisons of below and above-ground populations of the desert mustard *Lesquerella fendleri*. *Journal of Ecology* 88:283-292.

Cabin, R.J., D.L. Marshall and R.J. Mitchell. 2000. The demographic role of soil seed banks II: Investigations of the fate of experimental seeds of the desert mustard *Lesquerella fendleri*. *Journal of Ecology* 88:293-302.

Marshall, D.L., J.J. Avritt, M. Shaner and R.L. Saunders. 2000. Effects of pollen load size and composition on pollen donor performance in wild radish, *Raphanus sativus* (Brassicaceae). *American Journal of Botany* 87:1619-1627.

Sher, A.A., D.L. Marshall and S. Gilbert. 2000. Competition between native *Populus deltoides* and invasive *Tamarix ramosissima* and the implications for reinstating flooding disturbance. *Conservation Biology* 14:1744-1754.

MILLER, R.D.

Flores–Ramirez, S., J. Urban–Ramirez and R.D. Miller. 2000. Major Histocompatibility Complex-I Loci from the Gray whale (*Eschrichtius robustus*). *Journal of Heredity* 91:279-282.

Belov, K., G.A. Harrison, R.D. Miller and D.W. Cooper. In press. Characterisation of the kappa light chain of the brushtail possum (*Trichosurus vulpecula*). *Veterinary Immunology & Immunopathology*.

Miller, G.D., B.V. Hofkin, A. Hahn, H.L. Snell and R.D. Miller. In press. Avian malaria and Marek's disease: Potential threats to Galápagos penguins. *Marine Ornithology*.

NATVIG, D.O.

Gallegos, A., D.J. Jacobson, N.B. Raju, M.P. Skupski and D.O. Natvig. 2000. Suppressed recombination and a pairing anomaly on the mating-type chromosome of *Neurospora tetrasperma*. *Genetics* 154:623-633 (www.genetics.org)

Braun, E.L., A.L. Halpern, M.A. Nelson and D.O. Natvig. 2000. Large-scale comparison of fungal sequence information: Mechanisms of innovation in *Neurospora crassa* and gene loss in *Saccharomyces cerevisiae*. *Genome Research* 10:416-430.

NELSON, M.A.

Braun, E.L., A.L. Halpern, M.A. Nelson and D.O. Natvig. 2000. Large-scale comparison of fungal sequence information: Mechanisms of innovation in *Neurospora crassa* and gene loss in *Saccharomyces cerevisiae*. *Genome Research* 10:416-430.

Dolan, P.L., D.O. Natvig and M.A. Nelson. 2000. *Neurospora* Proteome 2000. *Fungal Genetics Newsletter* 47:7-24.

Nelson, M.A. and D.D. Perkins. 2000. Restriction polymorphism maps of *Neurospora crassa*: 2000 update. *Fungal Genetics Newsletter* 47:25-39p

Melo, A.M.P., M. Duarte, I.M. Møller, H. Prokisch, P.L. Dolan, L. Pinto, M.A.Nelson and A. Videira. 2001. The external calcium-dependent NADPH dehydrogenase from *Neurospora crassa* mitochondria. *Journal of Cell Biology*, in press.

Bean, L.E., W.H. Dvorachek, Jr., E.L. Braun, A. Errett, G.S. Saenz, M.D. Giles, M. Werner–Washburne, M.A. Nelson and D.O. Natvig. 2001. Analysis of the *pdx-1* (*snz-1/sno-1*) region of the *Neurospora crassa* genome: Correlation of pyridoxine-requiring phenotypes with mutations in two structural genes. *Genetics*, in press.

POCKMAN, W.T.

Pockman, W.T. and J.S. Sperry. 2000. Vulnerability to xylem cavitation and the distribution of Sonoran desert vegetation. *American Journal of Botany* 87:1287-1298.

SNELL, H.L.

Mouginis–Mark, P.J., H.L. Snell and R. Ellisor. 2000. GOES satellite and field observations of the 1998 eruption of Volcan Cerro Azul, Galápagos Islands. ??

Henderson, S., T.D. Dawson and H.L. Snell. 2000. Monitoring vegetation impacts of feral goat depredation in the Galápagos Islands using AVRR. *Proceedings of 25th Annual Technical Conference of the Remote Sensing Society.*

STRICKER, S.A.

Hertel, L.A., S.A. Stricker and E.S. Loker. 2000. Calcium dynamics of hemocytes of the gastropod *Biomphalaria glabrata*: Effects of digenetic trematodes and selected bioactive compounds. *Invertebrate Biology* 119:27-37.

Ivnitski, D., I. Abdel–Hamid, P. Atanasov, P. Wilkins and S. Stricker. 2000. Application of electrochemical biosensors for detection of food pathogenic bacteria. *Electroanalysis* 12:1-9.

Kuo, R.C., G.T. Baxter, S.H. Thompson, S.A. Stricker, C. Patton, J. Bonaventura and D. Epel. 2000. NO is necessary and sufficient for egg activation at fertilization. *Nature* 406:633-636.

Stricker, S.A. and T.L. Smythe. 2000. Multiple triggers of oocyte maturation in nemertean worms: The roles of calcium and serotonin. *Journal of Experimental Zoology* 287:243-261.

Stricker, S.A. 2000. Confocal microscopy of intracellular calcium dynamics during fertilization. *BioTechniques* 29:492-498.

Stricker, S.A., K. Swann, K.T. Jones and R.A. Fissore. 2000. Injections of porcine sperm extracts trigger fertilization-like calcium oscillations in oocytes of a marine worm. *Experimental Cell Research* 257:341-347.

THORNHILL, R.

Thornhill, R. and C.T. Palmer. 2000. Why men rape. *The Sciences* 40:30-36.

Manning, J.T., L. Barley, J. Walton, D.I. Lewis–Jones, R.L. Trivers, D. Singh, R. Thornhill, P. Rohde, T. Bereczkei, P. Henzi, M. Soler and A. Szwed. 2000. The 2nd:4th digit ratio, sexual dimorphism, population differences and reproductive success: Evidence for sexually antagonistic genes? *Evolution and Human Behavior* 21:163-190.

Manning, J.T., R.L. Trivers, R. Thornhill and D. Singh. 2000. The 2nd:4th digit ratio and asymmetry of performance in Jamaican children. *Laterality* 5:121-132.

R. Thornhill, R. and C.T. Palmer. 2000. Just why do men rape, authors' reply. *The Sciences* 40:6, 46-47.

TURNER, T.F.

Turner T.F., J.C. Trexler, J.L. Harris and J.L. Haynes. 2000. Nested cladistic analysis indicates population fragmentation shapes genetic diversity in a freshwater mussel. *Genetics* 154:777-785.

Turner, T.F. and J.R. Gold. In press. Temporal-method estimates of Ne from highly polymorphic loci. *Conservation Genetics*. (Accepted June 2000, expected publication April 2001.)

Turner, T.F. In press. A comparative study of larval transport and gene flow in darters. *Copeia*. (Accepted September 2000, expected publication August 2001.)

Lee, D.W., T.F. Turner, K. Baskaran, M. Manson, H. Mohamad, S.K. Yap and S. Dayandan. Phylogeny, environment, and shade responses in seedlings of ten tropical Asian rainforest trees. *Biotropica*. (Accepted pending revision, September 2000.)

Charnov, E.L., T.F. Turner and K.O. Winemiller. Dimensionless life histories and the allometric scaling of reproduction in fish. *Nature*. (Submitted December 10, 2000, in review.)

VOGEL, K.G.

Malaviya, P., D.L. Butler, G.P. Boivin, F.N.L. Smith, F.P. Barry, J.M. Murphy and K.G. Vogel. 2000. An *in vivo* model for load-modulated remodeling in the rabbit flexor tendon. *Journal of Orthopedic Research* 18:116-125.

WAGNER, A.

Wagner, A. 2000. Mutational robustness in genetic networks of yeast. *Nature Genetics* 24:355-361.

Wagner, A. 2000. The role of pleiotropy, population size fluctuations, and fitness effects of mutations in the evolution of redundant gene functions. *Genetics* 154:1389-1401.

Wagner, A. 2000. Decoupled evolution of coding region and expression patterns after gene duplications: Implications for the neutralist-selectionist debate. *Proceedings of the National Academy of Science USA* 97:6579-6584.

WERNER–WASHBURNE, M.

Bean, L.E., W.H. Dvorachek, Jr., E.L. Braun, A. Errett, G.S. Saenz, M.D. Giles, M. Werner–Washburne, M.A. Nelson, and D.O. Natvig. 2001. Analysis of the *pdx-1 (snz-1/sno-1)* region of the *Neurospora crassa* genome: Correlation of pyridoxine-requiring phenotypes with mutations in two structural genes. *Genetics*, in press.

YATES, T.L.

Ruedas, L.A., J. Salazar–Bravo, J.W. Dragoo and T.L. Yates. 2000. The importance of being earnest: What, if anything, constitutes a "specimen examined?" *Molecular Phylogenetics and Evolution* 17(1):129-132.

Anderson, S. and T.L. Yates. 2000. A new genus and species of phyllotine rodent from Bolivia. *Journal of Mammalogy* 81(1):18-36.

Bayard, V., E. Ortega, A. Garcia, L. Caceres, Z. Castillo, E. Quiroz, B. Armien, F. Garcia, J. Serrano, G. Guerrero, R. Kant, E. Pinifla, L. Bravo, C. Munoz, I.B. deMosca, A. Rodriguez, C. Campos, M.A. Diaz, B. Munoz, F. Crespo, I. Villalaz, P. Rios, E. Morales, J.M.T. Sitton, L.

Reneau Vernon, M. Libel, L. Castellanos, L. Ruedas, D. Tinnin and T.L. Yates. 2000. Hantavirus pulmonary syndrome: Panama, 1999–2000. *Journal of the American Medical Association* 283(17):2232-2233.

Botten, J., R. Nofchissey, H. Kirkendoll–Ahern, P. Rodriguez–Moran, I.A. Wortman, D. Goade, T.L. Yates and B. Hjelle. 2000. Outdoor facility for quarantine of wild rodents infected with hantavirus. *Journal of Mammalogy* 81(1):250-259.

E. Book Reviews.

BROWN, J.H.

Brown, J.H. 2000. Review of Avise's *Phylogeography: The History and Formation of Species*. *Quarterly Review of Biology* 75:455.

F. Articles in Non-scholarly Journals.

DAHM, C.N.

Dahm, C., J. Cleverly, J. Thibault, J., D. Gilroy and J. Coonrod. 2000. Evapotranspiration data critical for formulating arid-land water budgets. *The LTER Network News* 13:6-7.

THORNHILL, R.

Concar, D. and R. Thornhill. 2000. Opinion interview: Randy Thornhill. *New Scientist* 165:44-47.

Thornhill, R. and C.T. Palmer. 2000. The evolutionary basis of rape. *London Times Higher Education Supplement*, February 4, pp. 17 & 20.

Thornhill, R. and C.T. Palmer. 2000. What *A Natural History of Rape* really says. *The Independent*, February 21, p. 5.

WERNER–WASHBURNE, M.

"Poised for a Revolution," *Sage Magazine*, May 1.

G. Quasi-public Reports for Internal/external Circulation.

BARTON, L.L.

Thomson, B.M. and L.L. Barton. Stability of metals reduced by anaerobic bacteria. Prepared for the U.S. Department of Science, NABIR Project Office, Washington, DC, 12 p.

Treatment of PAHs by biological and chemical oxidation processes. WERC Project Report prepared for U.S. Department of Science, Las Cruces, NM, 22 p.

DUSZYNSKI, D.W.

Prepared and edited *The Program and Abstracts* booklet (175 p.) for the 2000 Joint Meeting of the American Society of Parasitologists (ASP) and the Society of Protozoologists (SOP), held

June 24-28, 2000, San Juan, Puerto Rico. Mailed by Allen Press to approximately 1,650 members of both societies.

Prepared and edited the camera-ready copy of the *Call For Papers* booklet (47 p.) announcing the 2001 Annual ASP meeting scheduled to be held June 28–July 2, 2001 in Albuquerque, NM. Mailed by Allen Press to approximately 1,350 ASP members.

LOWREY, T.K.

Texas–New Mexico Petroleum Pipeline Biosurvey, Report to Taschek Environmental Consultants, June.

Biological Survey of State Rte. 454, report to Marron and Associates, August.

SNELL, H.L.

Snell, H.L, C. Márquez, M. Altamirano, X. Salazar y M. Torres. Ecología de restauración para la diversidad biológica en Galápagos: Recuperación de los reptiles endémicos: Informe técnico semestral I-VI 2000. Proyecto FUNDACYT-CDF. Presentado a FCD, FUNDACYT y SPNG.

Snell, H. L. and C. Marquez. Ernest Kleinwort Charitable Trust Support for Galápagos Reptiles—Results From 1999–2000. Technical Report presented to the Galápagos Conservation Trust and the Galápagos National Park Service.

WERNER–WASHBURNE, M.

Interagency Report on the Federal Investment in Microbial Genomics, coordinated and partially written by M. Werner–Washburne, Biotech. Research Working Group, subcommittee of the NSTC Biotechnology Committee, Office of Science and Technology Policy, 2000; http://www.whitehouse.gov/WH/EOP/OSTP/html/microbial/nsf00203_1.html.

YATES, T.L.

Two semi-annual reports on Hantavirus to the Center for Disease Control, Atlanta, GA.

H. Abstracts (Refereed or Invited).

BARTON, L.L.

Long-term stability of precipitated metals in the environment. Proceedings of the DOE: NABIR PI Workshop, Reston, VA, January 31–February 2.

Metal reduction and nanocrystal formation by an anaerobic sulfate-reducing bacterium, *Desulfovibrio desulfuricans*. Proceedings of the Second International Biometal Symposium, University of Tuebingen, Germany, April 24-29.

A comparison of kinetic values for protons and iron in ferric-chelate reductase with three plant systems. Proceedings of 10th International Symposium on Iron Nutrition and Interactions in Plants, Houston, TX, May 14-18.

Oxidation of polycyclic aromatic hydrocarbons by permanganate and ultrasonic radiation. Proceedings of Seventh International Petroleum Environmental Conference, Albuquerque, NM, November 7-10.

Reduction of elemental sulfur by sulfate-reducing bacteria. Proceedings of the Seventh International Petroleum Environmental Conference, Albuquerque, NM, November 7-10.

BROWN, J.H.

Joint Meeting of the British Ecological Society and Ecological Society of America.

Working Groups of National Center for Ecological Analysis and Synthesis, 1996–2000: Collectors' Curves, Inference, Body size, Future of Biogeography.

DAHM, C.N.

Dahm, C.N. and M.A. Baker. Dissolved organic carbon dynamics at the ground water and surface water interface. Annual Meeting of the Geological Society of America. A-122.

Dahm, C.N. and M.A. Baker. Organic matter dynamics at the ground water and surface water interface of a mountain stream. Annual Meeting of the American Society of Limnology and Oceanography SS 15-02.

DUSZYNSKI, D.W.

Taxonomy of the Coccidia: Needs, principles and practices. 34th Annual Coccidiosis Conference, Caribe Hilton Hotel, San Juan, PR, June 25 (invited).

FAGUY, D.M.

Archaeal Cell Division, Gordon Research Conference: The Origin of Life, Plymouth, NH, July 1-5.

GOSZ, J.R.

Integrating U.S. Environmental Monitoring Programs, AAAS Annual Meeting, Washington DC.

LTER in the 21st Century, LTER All Scientists Meeting/Ecological Society of American Annual Meeting, Snowbird, UT.

LI, B.-L.

Scale Invariance and covariance in developing landscape indicators. P. 117 in *Integration of Societal and Landscape Heterogeneity: Problems and Solutions*. The 15th Annual Symposium of U.S. Regional Association of the International Association for Landscape Ecology and the Second Conference of the Walt Dineen Society, Ft. Lauderdale, FL, April 15-19.

LOKER, E.S.

Invertebrates: Opportunities and insights awaiting immunobiologists. Presented at the International Society of Developmental and Comparative Immunology Symposium, American Association of Immunologists Annual Meeting, Seattle, WA, May, 12-16.

Molecular studies of Biomphalaria: Phylogeny, defense responses and symbionts. Plenary lecture presented at the Sixth International Congress on Medical and Applied Malacology, Havana, Cuba, September 4-8.

MOLLES, M.C. JR.

Molles, M.C., Jr., W.S. Barnes and C.N. Dahm. Flooding regime and riparian ecosystem integrity along the Rio Grande. *Bulletin of the North American Benthological Society*.

Molles, M.C., Jr. and M.A.S. Graça. Leaf toughness and nitrogen content: Common currencies determining decomposition rate and performance of terrestrial detritivores? *Bulletin of the Ecological Society of America*.

NATVIG, D.O.

Analysis of the *pdx-1* (*snz-1/sno-1*) region of the *Neurospora crassa* genome: Some lessons. Third International Symposium on Fungal Genomics, Athens, GA, March. Invited talk.

Nelson, M.A. and D.O. Natvig. The *Neurospora* Genome Project at UNM: Gold from the Mold. *Neurospora* 2000 Conference, Asilomar, CA, March. Invited talk given by M.A. Nelson.

NELSON, M.A.

Natvig, D.O. and M.A.Nelson. Analysis of the *pdx-1* (*snz-1/sno-1*) region of the *Neurospora crassa* genome: some lessons. Third International Symposium on Fungal Genomics, Athens, GA, March.

Nelson, M.A. and D.O. Natvig. The *Neurospora* Genome Project at UNM: Gold from the Mold. *Neurospora* 2000 Conference, Asilomar, CA, March.

POCKMAN, W.T.

Pockman, W.T., J. Martinez–Vilalta and R.B. Jackson. The contribution of deep root functioning to whole-plant water relations and xylem transport in *Juniperus ashei*. Annual Meeting of the Ecological Society of America, Snowbird, UT, August.

Hacke, U.G., J.S. Sperry, S.D. Davis and W.T. Pockman. Wood density and drought resistance of plant xylem. Annual Meeting of the Ecological Society of America, Snowbird, UT, August.

STRICKER, S.A.

Serotonin triggers an increase in cAMP during oocyte maturation. Mechanisms of Cell Signaling in Early Development meeting, Okazaki, Japan, November.

Calcium and ER dynamics during oocyte maturation and fertilization in Nemertean worms. Mechanisms of Cell Signaling in Early Development meeting, Okazaki, Japan, November.

VOGEL, K.G.

Vogel, K.G. and A.V. Perez–Castro. Differentiation of tendon tissue. Molecular Biology of the Synovial Joint, London, England, April, S7 (invited).

WERNER–WASHBURNE, M.

Colina, A., A. Errett, A. Sanchez, E. Fuge and M. Werner–Washburne. Yeast signaling pathways involved in stationary-phase survival. Yeast Genetics Meeting, Seattle, WA, July 25-30.

Davidson, G., E. Fuge and M. Werner–Washburne. Clustering and visualizing yeast microarray expression data using VxInsight™. DOE Contractors meeting, Santa Fe, NM, February 27–March 3.

YATES, T.L.

Yates, T.L. 2000. The Golden Age of Biology: the Biological Synthesis in the New Millennium. Opening plenary address, the Biological Society of Chile, Pucon, Chile, November 14. (This is like our AIBS.)

Yates, T.L. 2000. Biocomplexity and hantavirus pulmonary syndrome. Symposium: Hantavirus Ecology and Disease in Chile. Annual Meeting of the Ecological Society of Chile, Pucon, Chile, November 15.

Yates, T.L. 2000. Ecological dynamics of hantavirus outbreaks: A trophic cascade. Keystone Symposium: Genetics, Pathogenesis and Ecology of Emerging Infectious Diseases. Taos, NM, January 24-30.

Yates, T.L. 2000. Modeling the ecology of disease outbreaks. Annual Meeting of the International Centers for Tropical Disease Research, NIAID, Bethesda, MD, April 10-12.

I. **Abstracts (Contributed) (including Research Day abstracts of your students).**

BARTON, L.L.

Plunkett, R.M. and L.L. Barton. Cloning an ahpC gene: Defense against oxidative stress in anaerobic bacteria. Presented on Annual Research Day, Department of Biology, UNM, April.

Strategies for remediation sites containing polycyclic aromatic hydrocarbons, New Mexico Environmental Health Conference, Albuquerque, NM, October 23-25.

CHARNOV, E.L.

Enquist, B.J., G.B. West, E.L. Charnov and J.H. Brown. Allometric scaling of production and life-history variation in vascular plants (correction). *Nature* 408:750.

CRIPPS, R.M.

Cripps, R.M. and T.L. Lovato. Transcription of the *Act88F* actin gene is controlled by conserved *cis*-acting sequences. American *Drosophila* Research Conference, Pittsburgh PA, March 22-26.

Kelly, K.K., S.M. Meadows and R.M. Cripps. Transcriptional regulation of the *Act57B* actin gene. Poster abstract for American *Drosophila* Research Conference, Pittsburgh PA, March 22-26.

Cripps, R.M. Transcriptional Control of Muscle Development in *Drosophila*. EMBO Workshop on Molecular and Developmental Biology of *Drosophila*. Crete, Greece, June 18-25.

Cripps, R.M. and T.L. Lovato. Transcription of the *Act88F* actin gene is controlled by conserved *cis*-acting sequences. Poster abstract for Molecular Genetics of Muscle Development, Asilomar, CA, June.

Kelly, K.K., S.M. Meadows and R.M. Cripps. Transcriptional regulation of the *Act57B* actin gene. Poster abstract for Molecular Genetics of Muscle Development, Asilomar, CA, June.

DAHM, C.N.

Dahm, C.N., M.C. Molles, Jr., J.R. Cleverly, J.R. Thibault and C.S. Crawford. Estimating water depletion for a river reach in a region with a semi-arid climate. *Bulletin of the North American Benthological Society* 17:149.

Fellows, C.F., C.N. Dahm and H.M. Valett. Nitrate retention in four headwater streams. *Bulletin of the North American Benthological Society* 17:184.

Molles, M.C., Jr., W.S. Barnes and C.N. Dahm. Flooding regime and riparian ecosystem integrity along the Rio Grande. *Bulletin of the North American Benthological Society* 17:133.

Melgaard, C.T., C.S. Fellows and C.N. Dahm. Food web elemental stoichiometry in a nitrogen-limited montane stream. *Bulletin of the North American Benthological Society* 17:202.

Cleverly, J.R., J.R. Thibault, J. Pearce and C.N. Dahm. Seasonal 3-D eddy covariance evapotranspiration estimates from a middle Rio Grande (New Mexico) riparian ecosystem. *Bulletin of the North American Benthological Society* 17:134.

Gilroy, D.J., J.R. Thibault, J.R. Cleverly and C.N. Dahm. Characterization of diel water table fluctuations in the Rio Grande riparian zone, New Mexico, USA. *Bulletin of the North American Benthological Society* 17:238.

Thibault, J.R., D.J. Gilroy, J.R. Cleverly and C.N. Dahm. Monitoring diel water table fluctuations to estimate rates of riparian evapotranspiration along the Rio Grande, New Mexico, USA. *Bulletin of the North American Benthological Society* 17:239.

Thomas, S.A., H.M. Valett, J.R. Webster, P.J. Mulholland and C.N. Dahm. Nitrogen processing and retention in streams (NPARS): Preliminary results. *Bulletin of the North American Benthological Society* 17:187.

Groffman, A.R., L.J. Crossey and C.N. Dahm. Interannual variation in the hydrochemical structure of shallow ground water along a flow path: Near stream to far-stream aquifer dynamics. Annual Meeting of the Geological Society of America A-123.

Spilde, M.N., L.J. Crossey, K.E. Dotson, R.T. Schelble, D.E. Northup, S.M. Barnes and C.N. Dahm. Annual Meeting of the Geological Society of America A-256.

Northup, D.E., M.N. Spilde, R.T. Schelble, L.E. Bean, S.M. Barns, L.M. Mallory, P.J. Boston, L.J. Crossey, K.E. Dotson and C.N. Dahm. Microbial interactions in punk rock and corrosion residues in Lechuguilla Cave, Carlsbad Caverns National Park, New Mexico. *Journal of Cave and Karst Studies* 62:199.

Gilroy, D.J., J.R. Thibault, J.R. Cleverly and C.N. Dahm. Characterization of diel water table fluctuations in the Rio Grande riparian zone, New Mexico. UNM Department of Biology Ninth Annual Research Day.

DUSZYNSKI, D.W.

Marquardt, W.C. and D.W. Duszynski. A second report of a coccidium (Phylum Apicomplexa) in the mammary glands of shrews. 31st Annual Meeting of the Rocky Mountain Conference of Parasitologists, Colorado Springs, CO, April 27-29.

Marquardt, W.C. and D.W. Duszynski. A second report of a coccidium (Phylum Apicomplexa) in the mammary glands of shrews. Joint Meeting of the American Society of Parasitologists (75th Anniversary Meeting) and the Society of Protozoologists (53rd Annual Meeting), San Juan, PR, June 24-28.

Zhao, X. and D.W. Duszynski. Phylogenies suggesting different origins of plastid of Apicomplexan parasites. Ninth Annual Research Day, Department of Biology, UNM, April 7.

Zhao, X. and D.W. Duszynski. Plastid DNA in Gregarine and Perkinsus Lineages. 33rd Annual Meeting of Southwestern Association of Parasitologists, Lake Texoma, OK, April 13-15.

Zhao, X. and D.W. Duszynski. Phylogenetic analysis of plastid DNA of Apicomplexan Parasites. Joint Meeting of the American Society of Parasitologists (75th Anniversary Meeting) and the Society of Protozoologists (53rd Annual Meeting), San Juan, PR, June 24-28.

LI, B.–L.

Li, B.–L. The emergence of self-organized vegetation patterns: Self-thinning rule reexamined. EOS, Transactions, AGU, Vol. 81, No. 48, p. F560, (Nov. 28, 2000).

Li, B.–L. Fractals in ecology: Where is the ecology? Ecological Society of America (ESA) 85th Annual Meeting & LTER All Scientists Meeting Abstracts, p. 144.

Li, B.–L. and J. Gosz. Understanding a semi-arid ecotonal transition via 10-year Sevilleta LTER vegetation transect data analysis. ESA 85th Annual Meeting & LTER All Scientists Meeting Abstracts, p. 373.

LOKER, E.S.

Hertel, L.A. and E.S. Loker. Investigation into acquired resistance in the snail *Biomphalaria glabrata* reveals the presence of an unusual endosymbiotic protist. Presented at the Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 3-6.

Adema, C.M. and E.S. Loker. Function and diversity of fibrinogen-related proteins (FREPs) in gastropods. Presented at the Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 3-6.

Leonard, P., C.M. Adema, S.–M. Zhang, L.A. Hertel and E.S. Loker. Fibrinogen-related proteins (FREPs) in gastropods and other animals: Are FREPs widely employed across animal phyla in defense responses? Presented at the Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 3-6.

DeJong, R.J., J.A.T. Morgan, G.M. Mkoji and E.S. Loker. Molecular phylogenetics of the intermediate hosts for *Schistosoma mansoni*: The planorbid genus *Biomphalaria*. Presented at the 49th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Houston, TX, October 29–November 2.

LOWREY, T.K.

Lowrey, T.K., C.J. Quinn, R.K. Taylor, R. Chan, R. Kimball and J. De Nardi. Molecular, morphological, and biogeographical reassessment of relationships within the *Vittadinia* group of Astereae (Asteraceae). Botany 2000, Portland, OR, August.

Whitkus, R. and T.K. Lowrey. Genetic marker diversity in Hawaiian and Cook Island *Tetramolopium* (Asteraceae). Botany 2000, Portland, OR, August.

Boykin, L., T. Lowrey, M. McKinney and T. Columbus. "Evolutionary Relationships of Orcuttieae Revealed: A Transition from Land to Water?" Annual Research Day Poster, Department of Biology, UNM, April.

MARSHALL, D.L.

Lopez, R.G. and D.L. Marshall. Effects of inbreeding depression on the reproductive and physiological fitness of *Raphanus sativus* under stressed conditions. Guild of Rocky Mountain Population Biologists Annual Meeting, Mt. Crested Butte, CO, September.

Shaner, M.G.M. and D.L. Marshall. Under how wide a set of conditions will non-random mating occur in *Raphanus sativus*? Guild of Rocky Mountain Population Biologists Annual Meeting, Mt. Crested Butte, CO, September.

Tyler, A.P. and D.L. Marshall. Development of a medium for the *in vitro* study of *Raphanus sativus* pollen. Guild of Rocky Mountain Population Biologists Annual Meeting, Mt. Crested Butte, CO, September.

MILLER, R.D.

Baker, M.L. and R.D. Miller. Characterization of the constant regions of the T cell receptor alpha and beta chains in the opossum, *Monodelphis domestica*, and the short nosed bandicoot, *Isoodon macrourus*. Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 2-6.

Miska, K.B. and R.D. Miller. Evolution of the Major Histocompatibility Complex in marsupials: Sequence and structure of class I loci. Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 2-6.

Baker, M.L., R. Anderson and R.D. Miller. A phylogeny of marsupials and monotremes based on recombination activating gene 1 (RAG1) sequences. Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 2-6 2000.

Miller, R.D. Evolutionary patterns in the immunoglobulin heavy and light chains of marsupials. Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 2-6 2000.

Miller, G.D., B.V. Hofkin and R.D. Miller. Avian Malaria in some wild populations of penguins. The Fourth International Penguin Conference, La Serena, Chile, September 4-8, 2000.

Miller, G.D., B.V. Hofkin and R.D. Miller. Genetic diversity of Galápagos Penguins (*Spheniscus mendiculus*).The Fourth International Penguin Conference, La Serena, Chile, September 4-8, 2000.

Miller, G.D., B.V. Hofkin and R.D. Miller. Testing for some diseases in penguins and skuas. The Fourth International Penguin Conference, La Serena, Chile, September 4-8, 2000.

Horner, M.W., R.D. Miller and G.D. Miller. A molecular phylogeny of penguins based on mtdna cytochrome-b gene sequences. The Fourth International Penguin Conference, La Serena, Chile, September 4-8, 2000.

NATVIG, D.O.

Saenz, G.S., A.J. Powell, D.J. Jacobson and D.O. Natvig. 2001. Heterokaryon incompatibility function is potentially at odds with outcrossing in *Neurospora tetrasperma*. Annual Meeting of the Mycological Society of America, Burlington, VT, August. Poster presentation.

Weber, J.M., G.S. Saenz, A.J. Powell. J.G. Stam, D.J. Jacobson and D.O. Natvig. 2000. Determining the extent of genetic hitchhiking flanking the heterokaryon incompatibility (het-c) locus in *Neurospora*. Annual SACNAS conference, Atlanta, GA, October. Poster presentation.

Powell, A.J., D.J. Jacobson and D.O. Natvig. 2000. *Neurospora* in nature: Exploring the natural history of a traditional laboratory model. *Neurospora* 2000 Conference, Asilomar, CA, March. Poster presentation.

Bieszke, J.A., D.O. Natvig and K.A. Borkovich. 2000. Analysis of the *Neurospora crassa* opsin, NOP-1 and the opsin-related protein, ORP-1. *Neurospora* 2000 Conference, Asilomar, CA, March. Poster presentation.

NELSON, M.A.

Kim, H. and M.A. Nelson. 2000. Analysis of two novel genes that are highly expressed in starved and sexual tissues of *Neurospora crassa*. *Neurospora* 2000 Conference, Asilomar, CA, March 9-12.

Platero, H.B. and M.A. Nelson. 2000. A novel bZip transcription factor expressed during sexual development in *Neurospora crassa*. *Neurospora* 2000 Conference, Asilomar, CA, March 9-12.

Galbraith, J., D.O. Natvig, M.A. Nelson and L. Salter. 2000. Searching for coding regions in *Neurospora crassa* using a simple codon bias algorithm and consensus sequences. Ninth Annual Research Day, Department of Biology, UNM, April 7.

Hillyer, C. and M.A. Nelson. 2000. Investigating the function of an L-arginine:glycine amidinotransferase homolog in *Neurospora crassa*. Ninth Annual Research Day, Department of Biology, UNM, April 7.

Galbraith, J., D.O. Natvig, M.A. Nelson and L. Salter. 2000. Searching for coding regions in *Neurospora crassa* using a simple codon bias algorithm and consensus sequences. ISMB 20—Eighth International Conference on Intelligent Systems for Molecular Biology, La Jolla, CA, August 19-23.

Lovato, C., K.J. Gruchalla, D.O. Natvig and M.A. Nelson. 2000. Analysis of novel genes in *Neurospora crassa*. SACNAS 2000 National Conference, Atlanta, GA, October 12-15.

Quinones, G., M. Werner-Washburne and M.A. Nelson. 2000. DNA microarray technology as a robust means for the high-throughput analysis of gene expression. SACNAS 2000 National Conference, Atlanta, GA, October 12-15.

POCKMAN, W.T.

Water uptake by deep roots of arid land plants. Annual Meeting of the Guild of Rocky Mountain Population Biologists, Gothic, CO, September.

STRICKER, S.A.

Poster: "Multiple Triggers of Oocyte Maturation in Nemertean Worms," T. Smythe and S. Stricker, Southwest Society of Developmental Biologists meeting, Houston, TX, February.

Poster: "Multiple Triggers of Oocyte Maturation in Nemertean Worms," T. Smythe and S. Stricker, Annual Research Day, Department of Biology, UNM, April.

TURNER, T.F.

Alò, D. and T.F. Turner. Phylogeography of the orangebelly darter. Annual Research Day, Department of Biology, UNM, April.

Turner T.F., J.C. Trexler and H.W. Robison. Congruent patterns of genetic divergence in sympatric Ouachita-endemic fishes. American Society of Ichthyologists and Herpetologists, La Paz, Baja California Sur, Mexico, June.

Turner, T.F. and D. Alò. Temporal genetic variation and the genetic effective population size of the silvery minnow: A preliminary evaluation. Desert Fishes Council, Death Valley, CA, November.

McPhee, M.V. and T.F. Turner. Phylogeography of the Rio Grande sucker (*Catostomous plebius*) in New Mexico. Desert Fishes Council, Death Valley, CA, November 2000.

VOGEL, K.G.

Perez–Castro, A.V. and K.G. Vogel. 2000. Mouse tendon development: In search of a tendon enhancer element. International Conference on Biology and Pathology of the Extracellular Matrix, St. Louis, MO, October, p. 102.

Kerwin, C., A. Perez and K. Vogel. 2000. Localization of Scleraxis mRNA transcripts within developing skeletal elements and tendon of murine limbs. Ninth Annual Research Day, Department of Biology, UNM, April.

WERNER–WASHBURNE, M.

Joanna Bernicik, Regulation of the *SNZ1* gene in *S. cerevisiae*, 9th Annual Research Day, Department of Biology, UNM, April.

YATES, T.L.

Salazar–Bravo, J., J.W. Dragoo and T.L. Yates. 2000. Molecular systematics of the Phyllotini (Rodentia: Sigmodontinae). Annual Meeting of the American Society of Mammalogists, Durham, NH, June 17-21.

Yates, T.L., J. Mills, C. Parmenter, T. Ksiazek, R. Parmenter, C. Calisher, S. Nichol, K. Abbot, J. Young, M. Morrison, B. Beaty, A Kuenzi, J. Dunnum, R.J. Baker and C.J. Peters. 2000. The ecology of an outbreak: Evidence for El Niño-driven hantavirus outbreaks in the western hemisphere. Annual Meeting of the American Society of Mammalogists, Durham, NH, June 17-21.

J. Other.

DAHM, C.N.

"Add Global Warming and What do You Get?" C. Dahm, D. Gutzler, R. Parmenter and W. Pockman. Solicited Insight and Opinion Page article for the *Albuquerque Tribune*, November 18.

DUSZYNSKI, D.W.

Research Affiliate, The Harold W. Manter Laboratory of Parasitology, University of Nebraska, Lincoln, NE.

LI, B.–L.

Final project report to Sandia National Laboratories (BG-7557).

NATVIG, D.O.

Refereed papers submitted and in press, 2000:

Powell, A.J., D.J. Jacobson and D.O. Natvig. 2001. Allelic diversity at the het-c locus in *Neurospora tetrasperma* confirms outcrossing in nature and reveals an evolutionary dilemma for pseudohomothallic ascomycetes. *J. Mol. Evol.* 52:94-102.

Bean, L.E., W.H. Dvorachek, Jr., E.L. Braun, A. Errett, G.S. Saenz, M.D. Giles, M. Werner–Washburne, M.A. Nelson and D.O. Natvig. 2001. Analysis of the *pdx-1* (*snz-1/sno-1*) region of the *Neurospora crassa* genome: Correlation of pyridoxine-requiring phenotypes with mutations in two structural genes. *Genetics*, in press.

POCKMAN, W.T.

"Add Global Warming, and What Do You Get?", Offspring production-Ed piece on climate change in New Mexico (with C.N. Dahm, Gutzler, R. Parmenter), published by *Albuquerque Tribune*, November 18, front page of Insight and Opinion section

WAGNER, A.

Wagner, A. 2000. Inferring life style from gene expression patterns. *Molecular Biology and Evolution* (in press).

Fell, D. and A. Wagner. 2000. Structural properties of metabolic networks: Implications for evolution and modelling of metabolism. *Proceedings of the Ninth International Congress on Biothermokinetics* (in press).

Wagner, A. and D. Fell. 2000. The small world inside large metabolic networks. (In review with Proceeding of the Royal Society of London Ser. B.)

Wagner, A. 2000. The yeast protein interaction network evolves rapidly and has few redundant duplicate genes. (In review with *Nature Genetics*)

Gleiss, P.M., P.F. Stadler, A .Wagner and D. Fell. 2000. Small cycles in small worlds. (In review with *Physical Review Letters*.)

III. RESEARCH PROJECTS OR OTHER CREATIVE WORK IN PROGRESS OR COMPLETED DURING PERIOD.

A. Grants and Contracts, Extramural and Intramural.

1. Submitted to all agencies in 2000.

BARTON, L.L.

"Analysis of Microbial Populations through the Use of a Fluorescent Probe"; L.L. Barton, PI; DOE/Waste-management Education and Research Consortium; $60,000, August 1, 2000–August 15, 2001.

"The Power of Anaerobe Conference"; L. Barton, L. Ljungdahl, M. Adams, M. Johnson, J. Ferry, co authors; DOE, submitted through the University of Georgia Conference Center; $26,875, May 1, 2000–May 1, 2001.

BROWN, J.H.

"Scaling of Biodiversity: Physical and Biological Foundations of Ecological Principals"; B.T. Milne and G.B. West, co-PIs; NSF Grant DEB-0083422; $2,500,000, 2000–2005.

CRIPPS, R.M.

"Genetic Regulation of Muscle Fiber Diversity"; R.M. Cripps, PI; National Institutes of Health; $1,322,000 over five years, direct and indirect costs, April 2001–March 2006.

"Molecular Genetics of Heart Remodeling"; R.M. Cripps, PI; National Institutes of Health; $1,336,250 over five years, direct and indirect costs, July 2001–June 2006.

"Molecular Genetic Analysis of Heart Muscle Remodeling"; R.M. Cripps, PI; American Heart Association, Desert/Mountain Affiliate; $165,000 over three years, direct and indirect costs only, July 2001–June 2004.

DAHM, C.N.

"NO3-N Retention in Headwater Streams: Influences of Riparian Vegetation, Metabolism, and Subsurface Processes"; C.N. Dahm, PI; National Science Foundation, REU Supplement to Collaborative Research; June 1, 2000–February 28, 2002, $10,000.

DUSZYNSKI, D.W.

"Coevolution of Insectivores and Their Coccidia Parasites in Beringia"; D.W. Duszynski, PI; NSF (subcontract); $55,140, January 2001–December 2002; 2001: $26,916, 2002: $28,224. Funded.

"An Inventory and Compilation of the World's Coccidia"; D.W. Duszynski, PI; NSF (DEB-0102567); $1,320,262, August 2001–July 2006; 2001–02: $261,871, 2002–03: $252,388, 2003–04: $262,413, 2004–05: 274,396, 2005–06: 269,192. Pending.

FAGUY, D.M.

"Biochemical and Genetic characterization of cell division in Archaea"; D.M. Faguy, PI; National Science Foundation; $365,186, July 1, 2000–June 30, 2003, $121,700/year.

"Investigation of Cell Division Events in Archaea"; D.M. Faguy, PI; National Institutes of Health; $638,000, January 1, 2001–December 31, 2003, $212,670/year.

"A Microbial Observatory at the Sevilleta Long-Term Ecological Research Site (LTER)"; D.O. Natvig, J.R. Gosz, M.F. Allen, D.M. Faguy, co-PIs; National Science Foundation; $1,467,186, September 1, 2000–August 31, 2005, $293,000/year.

"DNA Replication Initiation in *Sulfolobus solfataricus*"; D.M. Faguy, PI; National Science Foundation; $334,097, March 1, 2001–February 28, 2004, $111,365/year.

"Investigation of Thermal and Radiative Resistance in Thermophilic Bacillus: A Model for Anthrax Decontamination"; D.M. Faguy, PI; Sandia National Laboratories (SURP program); $34,263, October 1, 2000–September 31, 2001, $34,263/year.

"Interactive Visualization of Microbial Specimens"; L.L. Barton, D.M. Faguy, co-PIs; Army Research Office (HBCU/MI Infrastructure program); $93,000, September 1, 2000–March 2, 2002, $62,000/year.

"Microbiology Laboratory Infrastructure: A Long-term Investment in Microbiology Laboratory Education"; D.M. Faguy, PI; UNM Teaching Allocation Subcommittee; $2,500, January 1, 2001–September 31, 2001.

GOSZ, J.R.

"LTER: Sevilleta Long Term Ecological Research III"; J.R. Gosz, PI; NSF; $4,200,000; October 15, 2000–October 14, 2006, $700,000.

"U.S. Hungary Grassland Comparisons: Biodiversity, Disturbance, and Landscape Mosaics"; D. Peters and J.R. Gosz, co-PIs; NSF; $200,054, September 2000–September 2003, Year 1: $70,218, Year 2: $63,841, Year 3: $65,994.

"Cross-site Contrasts of Global Change and Ecotonal Dynamics; Relationships among Abiotic Stress and Positive and Negative Interactions" (subcontract); J.R. Gosz, PI; NSF; $62,897, October 1, 2000–September 30, 2003, $20,349.

"The Role of Habitat Heterogeneity in the Prevalence of Zoonotic Diseases"; J.R. Gosz, J. Dragoo and G. Racz, co-PIs; NSF; $117,986, June 1, 2000–June 1, 2002, Year 1: $66,287, Year 2: $51,699.

"Planning Grant for the Development of a New Mexico EPSCoR Program"; J.R. Gosz, PI; $154,430, September 1, 2000–August 31, 2001, $154,430.

KODRIC–BROWN, A.

"Evolution of Reproductive Isolation in Pupfish"; A. Kodric–Brown, PI; NSF; $302,488, July 1, 2001–June 30, 2004, Year 1: $144,493, Year 2: $77,410, Year 3: $80,585.

LI, B.–L.

"Scaling of Biodiversity: Physical and Biological Foundations of Ecological Principles"; J.H. Brown, PI; NSF BioComplexity Program; $2,500,000, October 2000, 20%.

"Sevilleta LTER Phase III: Long-Term Ecological Research in a Biome Transition Zone"; J.R. Gosz, PI; NSF LTER Program; $4,200,000, October 2000, 17%.

LOKER, E.S.

In-house and in-state competition for an NIH Centers of Biomedical Research Excellence (COBRE) proposal.

LOWREY, T.K.

" Biogeography and Phylogeny of Tropical Australian Astereae and Myrtaceae"; T.K. Lowrey, PI, C.J. Quinn, P. Gadek and P. Wilson, co-PIs; National Geographic Society, $20,000.

MARSHALL, D.L.

"Can Non-random Mating Result in Evolutionary Change?"; D.L. Marshall, PI; National Science Foundation REU supplement; $10,000, June 1–December 31, 2000.

"Effects of Inbreeding Depression on Mineral Nutrition in Wild Radish"; D.L. Marshall, PI; WASEO; $1,378, February 24, 2000–February 23, 2001.

MOLLES, M.C. JR.

"The Influence of Hydrologic Regime and Fragmentation on Riparian Forest Ecosystem Biodiversity and Processes"; M.C. Molles, Jr., PI; Sabbatical Support, Ministry of Education and Culture, Madrid, Spain; $15,000, 2000–2001.

NATVIG, D.O.

"Collaborative Research: Signaling via Opsins and Opsin-Related Proteins in Fungi"; D.O. Natvig, PI; NSF MCB-0078306; $270,000, August 1, 2000–July 31, 2002.

"Sequencing *Neurospora* and *Pneumocystis*"; J. Arnold, PI, D.O. Natvig, co-PI; NSF; $301,527 (subcontract), July 1, 2000–June 30, 2002.

"A Microbial Observatory for the Sevilleta LTER Site"; D.O. Natvig, PI, M. Allen, D. Faguy and J. Gosz, co-PIs; NSF; $1,467,187, September 1, 2000–August 31, 2005.

"Genomics for *Colletotrichum*"; L. Vallaincourt, PI, D.O. Natvig, co-PI; USDA; $118,591 (subcontract), 3 years.

"Supplemental Request for IMSD Undergraduate Students to Work on the *Neurospora* Genome Project at UNM"; D.O. Natvig, PI; NIH; $50,000, 1 year.

NELSON, M.A.

"Microarray Analysis of Global Gene Expression"; M.A. Nelson, PI, and M. Werner-Washburne, co-PI; Department of Defense; preliminary proposal not selected.

POCKMAN, W.T.

"Physiological Limits to Plant Distribution: Water Relations of Desert Plants"; W.T. Pockman, PI; NSF CAREER proposal submitted to NSF-Ecological and Evolutionary Physiology; $457,000, five years, submitted July 2000, declined December 2000 (resubmission planned).

"The Influence of Rainfall Amount on Nitrogen and Water Cycling and Productivity at a Semiarid Ecosystem Transition"; W.T. Pockman, Small, Herrick and Peters, co-PIs; NSF DEB-Ecosystem Studies Panel; $307,431, four years, submitted December 15, 2000.

"NSF Undergraduate Mentorships in Environmental Biology"; R Parmenter, PI; NSF; submitted Fall 2000

SNELL, H.L.

NOTE: As part of a collaborative agreement between the Department of Biology and the Charles Darwin Research Station (CDRS), I am assigned to spend ⅔'s of the academic year at the CDRS in the Galápagos. Therefore, much of my professional activity involves students and staff of that institution who aren't directly related to UNM. Since this is a UNM-sanctioned reassignment, I will report those activities here. To distinguish them from the direct UNM activities that I do during the remaining ⅓ of the academic year, they will be prefaced with "**".

** "Tortoises of Southern Isabela—The Most Endangered Tortoises of the Galápagos"; H.L. Snell, J. Hernandez and C. Marquez, co-PIs; Swiss Friends of the Galápagos; $40,000, November 2000–December 2001, $10,000.

STRICKER, S.A.

"Research Coordination Network in Comparative Sperm Factor Biology"; S.A. Stricker, PI; Developmental Mechanics, NSF; January 1, 2001–December 31, 2004, first year: $87,000.

TURNER, T.F.

"A Comparative Study of Life History and Demographic Effects on the Ratio of Genetic Effective Population Size to Census Size in Rio Grande Fishes"; T.F. Turner, PI; National Science Foundation; June 15, 2001–June 14, 2004, $269,000. In review (decision to be made by June 15, 2001).

"Temporal and Spatial Patterns of Genetic Diversity and Relationships Within and Among Aggregations of Humpback Chub in the Grand Canyon"; T.F. Turner, PI; U.S. Geological

Survey; March 15, 2001–March 14, 2002 $50,584. In review (decision to be made by March 15, 2001).

"A Statewide Genetic Study of Rio Grande and White Suckers: Are Genetic Factors Contributing to the Decline of the Rio Grande Sucker?"; M.V. McPhee, PI, T.F. Turner, co-PI; N.M. Share with Wildlife; July 1, 2001–June 30, 2001, $3,500. Funding approved, pending state approval.

"Conservation Genetics of the Rio Grande Silvery Minnow, an Endangered Member of the Middle Rio Grande Ecosystem"; T.F. Turner, PI; USDA Forest Service; January 1–December 31, 2000, $15,409.

WAGNER, A.

"Structural, Functional, and Evolutionary Characterization of a Large Protein Interaction Network"; A. Wagner, PI; NIH; $745,220, April 2001–April 2006, $149,044/yr.

"Structural, Functional, and Evolutionary Characterization of a Large Protein Interaction Network"; A. Wagner, PI; Arnold and Mabel Beckman Foundation; $200,000, May 2001–May 2004, $66,000/yr.

WERNER–WASHBURNE, M.

"Microarray Analysis and Cell-based Biosensor"; M. Werner–Washburne, co-PI; Sandia National Laboratories; approximately $80,000, November 30, 2000–September 30, 2001.

"Regulation of Exit from Stationary Phase: Transcriptional Profiling and Mutant Analysis"; M. Werner–Washburne, PI; NSF; $394,000, March 1, 2001–February 28, 2004.

"A Two-hybrid System for Use in Non-dividing Yeast Cells"; M. Werner–Washburne, PI; NIH; $294,000, January 1, 2001–December 31, 2003.

"Sustainable Bio-Electronic Microsystems: Life on a Chip"; M. Werner–Washburne, co-PI; DARPA; $4.14M (pending).

YATES, T.L.

My staff submitted several to NSF; I could not since I have a conflict of interest with that agency (serving as the Director, Division of Environmental Biology, NSF).

2. **Awarded with 2000 initial start date.**

ALTENBACH, J.S.

"Evaluation of Bat Habitat in Abandoned Mines in New Mexico"; J.S. Altenbach, PI; New Mexico Energy, Minerals and Natural Resources Division; $14,000; July 1, 2000–June 30, 2001.

BARTON, L.L.

"Interactive Visualization of Microbial Specimens"; L.L. Barton, PI; U.S. Army Research Office; $91,000, June 1, 2000–December 31, 2001.

"Analysis of Microbial Populations through the Use of a Fluorescent Probe"; L.L. Barton, PI; DOE/Waste-management Education and Research Consortium; $60,000, August 1, 2000–August 15, 2001.

"The Power of Anaerobe Conference"; L. Barton, L. Ljungdahl, M. Adams, M. Johnson, J. Ferry, co authors; DOE, paid through the University of Georgia Conference Center; $26,875, May 1, 2000–May 1, 2001.

BROWN, J.H.

"Scaling of Biodiversity: Physical and Biological Foundations of Ecological Principals"; B.T. Milne and G.B. West, co-PIs; NSF Grant DEB-0083422; $2,500,000, 2000–2005.

CHARNOV, E.L.

"Scaling of Biodiversity: Physical and Biological Foundations of Ecological Principals"; B.T. Milne and G.B. West, co-PIs; NSF Grant DEB-0083422; $2,500,000, 2000–2005.

DAHM, C.N.

"NO3-N Retention in Headwater Streams: Influences of Riparian Vegetation, Metabolism, and Subsurface Processes"; C.N Dahm, PI; National Science Foundation, REU Supplement to Collaborative Research; June 1, 2000–February 28, 2002, $10,000.

FAGUY, D.M.

"Investigation of Thermal and Radiative Resistance in Thermophilic Bacillus: A Model for Anthrax Decontamination"; D.M. Faguy, PI; Sandia National Laboratories (SURP program); $34,263, October 1, 2000–September 31, 2001, $34,263/year.

"Interactive Visualization of Microbial Specimens"; L.L. Barton, D.M. Faguy, co-PIs; Army Research Office (HBCU/MI Infrastructure program); $93,000, September 1, 2000–March 2, 2002, $62,000/year.

GOSZ, J.R.

"LTER: Sevilleta Long Term Ecological Research III"; J.R. Gosz, PI; NSF; $1,400,000, November 15, 2000–October 31, 2006, $700,000.

"Cross-site Contrasts of Global Change and Ecotonal Dynamics; Relationships among Abiotic Stress and Positive and Negative Interactions" (subcontract); J.R. Gosz, PI; NSF; $62,897, October 1, 2000–September 30, 2003, $20,349.

"Planning Grant for the Development of a New Mexico EPSCoR Program"; J.R. Gosz, PI; $154,430, December 15, 2000–December 14, 2001, $154,430.

KODRIC-BROWN, A.

"Role of Sexual Selection in Speciation of Pupfishes—San Salvador Island, Bahamas"; A. Kodric-Brown, PI; Research Allocations Committee, UNM; $2,180, March 2000–June 2000.

"Swimming Endurance of Hybrids Between Pecos Pupfish and Sheepshead Minnow"; A. Kodric-Brown and J. Rosenfield, co-PIs; Share With Wildlife—NM Game and Fish; $2,000, July 1, 2000–June 30, 2001.

LI, B.-L.

"Scaling of Biodiversity: Physical and Biological Foundations of Ecological Principles"; J.H. Brown, PI; NSF BioComplexity Program; $2,500,000, October 2000, 20%.

"Sevilleta LTER Phase III: Long-Term Ecological Research in a Biome Transition Zone"; J.R. Gosz, PI; NSF LTER Program; $4,200,000, October 2000, 17%.

LIGON, J.D.

"Inheritance of Paternal Condition Separated from Differential Maternal Investment in the Red Junglefowl"; NSF IBN-0072995; J.D. Ligon and T.H. Parker, co-PIs; $6,850, June 2000–May 2002.

LOKER, E.S.

"Biology of Trematode–Snail Associations"; E.S. Loker, PI; NIH, RO1 AI24340-14-18; total award: 5 years, direct costs $830,662, February 1, 2000–January 31, 2005.

LOWREY, T.K.

"Sevilleta Long Term Ecological Research III: Long Term Ecological Research in a Biome Transition Zone"; T.K. Lowrey, co-PI; National Science Foundation; $1.4 million; November 11, 2000–October 31, 2002.

MARSHALL, D.L.

"Can Non-random Mating Result in Evolutionary Change?"; D.L. Marshall, PI; National Science Foundation REU supplement; $10,000, June 1–December 31, 2000.

"Effects of Inbreeding Depression on Mineral Nutrition in Wild Radish"; D.L. Marshall, PI; WASEO; $1,378, February 24, 2000–February 23, 2001.

"Pollen Competition in Wild Radish: Effects of Variation in Pollen Load Size and Composition on Seed Paternity and Progeny Growth"; D.L. Marshall, PI; National Science Foundation; March 01, 2000–February 28, 2003, $168,705.

MILLER, R.D.

"Immunoglobulin Genetics in Non-eutherian Mammals"; R.D. Miller, PI; NSF; $365,000, May 1, 2000—April 30, 2003.

MOLLES, M.C. JR.

"The Influence of Hydrologic Regime and Fragmentation on Riparian Forest Ecosystem Biodiversity and Processes"; M.C. Molles, Jr., PI; Sabbatical Support, Ministry of Education and Culture, Madrid, Spain; $15,000, 2000–2001.

NATVIG, D.O.

"Collaborative Research: Signaling via Opsins and Opsin-Related Proteins in Fungi"; D.O. Natvig, PI; NSF MCB-0078306; $270,000, August 1, 2000–July 31, 2002.

"Supplemental Request for IMSD Undergraduate Students to Work on the *Neurospora* Genome Project at UNM"; D.O. Natvig, PI; NIH; $50,000, 1 year.

NELSON, M.A.

"Minority Access to Research Careers (MARC) Program"; K.G. Vogel, PI, M.A. Nelson, co-PI; National Institutes of Health;$233,744/year, June 1, 2000–May 31, 2005.

"Initiative for Minority Student Development at UNM; N. Ahmed, PI, M.A. Nelson, co-PI; National Institutes of Health; $2,122,248, February 1, 2000–January 31,2004, $570,000/ year.

"IMSD (Initiative for Minority Student Development) supplement for students to work on the *Neurospora* Genome Project"; N. Ahmed, PI, M.A. Nelson, co-PI; National Institutes of Health; $50,000, September 1, 2000–August 30, 2001.

POCKMAN, W.T.

"The Contribution of Deep Roots to Whole-plant Water Relations and Xylem Transport"; R.B. Jackson, W.T. Pockman, co-PIs; USDA–Plant Responses to the Environment Panel; $135,000, June 1, 2000–May 31, 2002.

"Sevilleta Long Term Ecological Research III: Long Term Ecological Research in a Biome Transition Zone"; J.R. Gosz, R.R. Parmenter, T.K. Lowrey, W.T. Pockman and J. Brunt (+ 27 non-signatory PIs); NSF–LTER;$1,400,000, October 1, 2000–September 30, 2002.

SNELL, H.L.

NOTE: As part of a collaborative agreement between the Department of Biology and the Charles Darwin Research Station (CDRS), I am assigned to spend ⅔'s of the academic year at the CDRS in the Galápagos. Therefore, much of my professional activity involves students and staff of that institution who aren't directly related to UNM. Since this is a UNM-sanctioned reassignment, I will report those activities here. To distinguish them from the direct UNM activities that I do during the remaining ⅓ of the academic year, they will be prefaced with "**".

** "Tortoises of Southern Isabela—The Most Endangered Tortoises of the Galápagos"; H.L. Snell, J. Hernandez and C. Marquez, co-PIs; Swiss Friends of the Galápagos; $40,000, November 2000–December 2001, $10,000.

** "Control and Eradication of Invasive Species: A Necessary Condition for Conserving Endemic Biodiversity of Galápagos World Heritage Site"; H.L. Snell, R. Bensted-Smith, A. Tye, J. Hernandez, co-PIs; United Nations Foundation via UNESCO World Heritage Center; $3,000,000, March 1, 2000–March 1 2004, $750,000.

** "Expansion of Edifico Thomas Fisher Bloque 1: Necessary Space for Vertebrate Ecology and Ecological Monitoring"; H.L. Snell, PI; Charles Darwin Foundation; $40,000, June 1, 2000–January 1, 2001, $40,000.

TURNER, T.F.

"Genetic Studies of Highly Migratory Fishes of the Llanos in Venezuela"; K. Winemiller, PI, T.F. Turner, co-PI; National Geographic Society; January 1–December 31, 2000, $16,000.

"Improvements to the Museum of Southwestern Biology (MSB) Fish Collection, Phase I: Relocation and Reorganization"; T.F. Turner, PI, S. Platania and A. Snyder, co-PIs; National Science Foundation; $162,077, May 1, 2000–March 15, 2002, $81,000/year.

"Research Experiences for Undergraduates (REU) supplement to Collection Improvement Grant"; T.F. Turner, PI; National Science Foundation; $10,000, May 1, 2001–March 15, 2001, $10,000/year.

"Conservation Genetics of Gila and Apache Trout"; T.F. Turner, PI; US Forest Service; $50,000, September 30, 2000–September 30, 2002, $25,000/year.

"Conservation Genetics of the Rio Grande Silvery Minnow, an Endangered Member of the Middle Rio Grande Ecosystem"; T.F. Turner, PI; USDA Forest Service; $15,409, January 1–December 31, 2000.

VOGEL, K.G.

"Undergraduate Biomedical Research Training—University of New Mexico"; N. Ahmed, PI, K.G. Vogel, Program Director; National Institutes of Health, 1 T34 GM08751-01, MARC/U-STAR; $233,744/year, June 1, 2000–May 31, 2005.

WERNER–WASHBURNE, M.

"Study of Gene Expression in Non-dividing Cells"; M. Werner–Washburne, PI; Sandia National Laboratories; $18,000, June 1–August 31, 2000.

YATES, T.L.

An additional $360,000 has just been added to the grants below (see III.A.3) in the form of supplements during 2000.

3. In force from previous years.

ALTENBACH, J.S.

"Evaluation of Bat Habitat in Abandoned Mines in New Mexico"; J.S. Altenbach, PI; New Mexico Energy, Minerals and Natural Resources Division; $14,000; July 1, 1999–June 31, 2001.

BARTON, L.L.

"Determination of Long Term Stability of Metals Immobilized by *in Situ* Microbial Remediation Processes"; B.M. Thomson, PI, L.L. Barton, co-PI; DOE; $749,755, October 1, 1998–September 30, 2001.

"Assessment of a Chemical/Biological Process to Treat Mixed Waste, Phase II"; L.L. Barton and B.M. Thomson, PIs; DOE/Waste-management Education and Research Consortium; $60,000, May 15, 1997–August 14, 2000.

"Mechanisms of Metal Transformation by Bacteria"; L.L. Barton is one of 15 co-PIs; NIH; $2,000,000, yearly rate to L.L. Barton = $17,500, February 1, 1996–January 31, 2001.

BROWN, J.H.

"Biological Scaling Laws: Interdisciplinary Collaboration Between Physics and Biology"; J.H. Brown and G.B. West, co-PIs; David and Lucille Packard Foundation #99-8330; $960,000, 1999–2003.

"Sevilleta Long Term Colonial Research"; J.H. Brown, PI; NSF Grant BAR-8811906; $3,800,000, 1994–2000.

"Biocomplexity: The scale of biodiversity"; B.T. Milne, J. Rasure, L.M. Simmons, Jr., and G.C. Stevens, co-PIs; NSF Grant DGE-9553623, Graduate Research Traineeship in Ecological Complexity; $2,099,031, 1995–2000.

"Long term monitoring and manipulation of the desert granivore in Portal, AZ"; J.H. Brown, PI; NSF Grant DEB-9707406; $400,000, 1997–2000.

CRIPPS, R.M.

"Regulation and function of the Actin57B gene in *Drosophila*"; K. Kelly, PI, R.M. Cripps, sponsor; pre-doctoral research fellowship, American Heart Association, Desert/Mountain Affiliate; $36,000 over two years, direct costs only, July 1, 1999–June 30, 2002.

"Genetic Control of Muscle Development in *Drosophila*"; R.M. Cripps, PI; American Heart Association Desert/Mountain Affiliate, Beginning Grant-in-Aid; $60,000 over two years, direct costs only; July 1999–June 2001.

"Genetic Analysis of Muscle Remodeling in *Drosophila melanogaster*"; R.M. Cripps, PI; Muscular Dystrophy Association, Scientific Advisory Committee Research Grant; $157,997 over three years, direct and indirect costs; January 1999–December 2001.

DAHM, C.N.

"IGERT: Freshwater Graduate Studies Link Fundamental Science with Applications Through Integration of Ecology, Hydrology and Geochemistry in Regions with Contrasting Climates"; A.K. Ward, A.C. Benke, C.N. Dahm, W.B. Lyons, and R.G. Wetzel, co-PIs; National Science Foundation; January 1, 1999–December 31, 2003, $2,699,289. I am the leader of the subcontract for $1,242,500 to the University of New Mexico.

"Collaborative Research: NO3-N Retention in Headwater Streams: Influences of Riparian Vegetation, Metabolism, and Subsurface Processes"; C.N Dahm, PI; National Science Foundation; March 1, 1999–February 28, 2002, $220,000.

"CRB: Flooding Regime and Restoration of Riparian Ecosystem Integrity"; M.C. Molles, Jr., C.N. Dahm and C.S. Crawford, co-PIs; National Science Foundation; September 1, 1999–August 31, 2002, $492,049.

"Dissertation Research: Ecosystem Metabolism and Nitrate Retention in Headwater Streams: Influence of the Hyporheic Zone"; C.N. Dahm and C.S. Fellows, co-PIs; National Science Foundation; June 1, 1999–December 31, 2000, $10,456.

"Riparian Ecosystem Restoration: Effects of Flooding and Vegetation Type on Annual Evapotranspiration in a Semiarid Landscape"; C.N. Dahm, M.C. Molles Jr., C.S. Crawford, J. Coonrod and H.M. Valett, co-PIs; NASA; February 25, 1998–February 14, 2001, $700,000.

"Geomicrobiological Interactions in Cave Deep Subsurface Environments: A Novel Extreme Environment"; C.N. Dahm, L.J. Crossey, and D. Northup, co-PIs; National Science Foundation; October 1, 1998–September 30, 2001, $292,134.

DUSZYNSKI, D.W.

"Historical biodiversity of the parasites of small mammals on the Sevilleta National Wildlife Refuge, Socorro, NM: 1989–2000"; D.W. Duszynski and M.D. Dailey, co-PIs; NSF–Survey and Inventory (DEB-9505025);$367,244, August 31, 1995–August 31, 2000. Final report submitted.

"Coccidia of the World"; D.W. Duszynski, PI; NSF–PEET Special Competition (DEB-9521687);$690,737, September 1, 1995–August 31, 2000. One-year no-cost extension to August 31, 2001.

"Sevilleta LTER II: Biome-level constraints on population, community and ecosystem responses to climatic fluctuation," Parasite subproject; B. Milne, PI, and 10 co-PIs; NSF (BAR-9411976);$3,700,000, October 1, 1994–September 30, 2000.

"Parasites of Guatemala herpetofauna"; D.W. Duszynski, PI; NSF–attached as second supplement to DEB-9505025; $11,454, summers 1998, 1999, 2000.

FAGUY, D.M.

"Investigation of the Impact of Lateral Gene Transfer on Microbial Evolution"; D.M. Faguy, PI; UNM Research Allocations Committee; $2,500, September 31, 1999–September 31, 2000; $2,500/year.

GOSZ, J.R.

"Sevilleta LTER II: Biome-level Constraints on Population, Community, and Ecosystem Responses to Climate Fluctuations"; J.R. Gosz et al., co-PIs; NSF; $3,360,000, October 15, 1994–October 14, 2000, $560,000.

"Research Experiences for Undergraduates Site Program with the Sevilleta LTER: Ecosystem Productivity, Biodiversity, and Systematics"; J.R. Gosz and R.R. Parmenter, co-PIs; NSF; $120,000; May 1, 1999.

"Replacement and Consolidation of Research and Research Training Facilities of the Department of Biology, University of New Mexico"; acting PI for T.L. Yates; NSF; $960,000.

"Improvement of the Museum of Southwestern Biology's Biological Materials Collections: A Genetic Resource for the 21st Century"; acting PI for T. Yates; NSF; exp. date June 30, 2000.
"Portable Flow-through Amperometric Immunosensor Device for Fast Field Immunoanalysis of Rodent Viruses"; acting PI for T. Yates; NSF; exp. date June 30, 2000.

"Relocation and Compactorization of the Museum of Southwestern Biology"; acting PI for T. Yates; exp. date July 31, 2000.

"KDI: Knowledge, Networking of Biodiversity Information"; acting PI for T. Yates; exp. date September 30, 2001.

KODRIC-BROWN, A.

"Introgression in Pupfish: Role of Sexual and Natural Selection"; A. Kodric-Brown, PI; NSF; $167,985, July 1998–June 2001, $56,000.

"Forces Driving Rapid Introgression Between a Rare Pufish (*Cyprinodon pecosensis*) and its Close Congener (*C. variegatus*)"; A. Kodric-Brown, PI; Environmental Protection Agency (award to Jon Rosenfield); $19,000, August 1998–August 2001, $6,343.

LI, B.-L.

"REU Site Program with the Sevilleta LTER: Ecosystem Productivity, Biodiversity, and Systematics"; R.R. Parmenter, J.R. Gosz, T.K. Lowrey, B.-L. Li and D.C. Lightfoot, co-PIs; National Science Foundation REU Program; May 1, 1999–April 30, 2002, $120,000, 33%.

"Sevilleta LTER II"; J.R. Gosz, PI, B.-L. Li, co-PI; NSF; $3,780,000, October 15, 1994–October 14, 2000, 16%.

"1999–00 SURP: Developing Ecological Indicators of Sustainable Land Use for Arid and Semi-Arid Environments"; B.–L. Li, PI; Sandia National Laboratories; $35,000, October 1999, 90%.

"Developing a Non-equilibrium Thermodynamic Model and Landscape Indicators for Assessing the San Pedro River Basin Vegetation Changes"; B.–L. Li, PI; U.S. EPA; $25,000, October 1999, 90%.

LOKER, E.S.

"Evolution of *Schistosoma mansoni* and its Snail Hosts"; E.S. Loker, PI; NIH, RO1 AI44913-1-5; total award: 5 years, direct costs $853,857; April 1, 1999–March 31, 2004.

LOWREY, T.K.

"New Mexico 130 Rare Plant Mitigation Project, Otero Co."; T.K. Lowrey, PI; N.M. State Highway and Transportation Dept.; $19, 900, July 1, 1998–June 30, 2000.

MARSHALL, D.L.

"Can Non-random Mating Result in Evolutionary Change: A Selection Experiment Using Wild Radish as a Model System, Phase II"; D.L. Marshall, PI, A.S. Evans, co-PI; National Science Foundations; September 1, 1998–August 31, 2001, $193,000.

MILLER, R.D.

"CAREER Award: Immunological Development in a Marsupial"; R.D. Miller, PI; NSF; $322,000, October 1, 1996–September 30, 2000.

MOLLES, M.C. JR.

"Flooding Regime and Restoration of Riparian Ecosystem Integrity"; M.C. Molles, Jr., C.N. Dahm, H.M. Valett, C.S. Crawford and P.V. Unnikrishna, co-PIs; NSF Ecosystems; 1999–2002, $492,000.

"University of New Mexico/University of Alabama Integrative Graduate Education and Research Training (IGERT): Freshwater Graduate Studies Link Fundamental Science with Applications through Integration of Ecology, Hydrology, and Geochemistry in Regions with Contrasting Climates"; NSF; one of eight Biology Dept. faculty mentors; 1999–2004, $2.8 million.

"Riparian Ecosystem Restoration: Effects of Flooding and Vegetation Type on Annual Evapotranspiration in a Semi-arid Landscape"; C.N. Dahm, T. Mulhern, P.V. Unnikrishna, H.M. Valett, M.C. Molles, Jr. and C.S. Crawford, co-PIs; NASA/EPA; 1998–2001, $700,000.

NATVIG, D.O.

"Reproductive Genetics of *Neurospora tetrasperma*"; D.O. Natvig, PI; National Science Foundation; $158,701, June 1, 1997–May 31, 2000.

"Initiative for Minority Student Development at UNM"; N. Ahmed, PI; NIH; $2,285,329, February 1, 2000–January 31, 2004, $570,000/yr.

NELSON, M.A.

"The *Neurospora* Genome Project at UNM: Expressed Sequence Analyses"; M.A. Nelson, PI; National Science Foundation; $557,798, February 1, 1999–January 31, 2002, Year 1: $176,938, Year 2: $185,786, Year 3: $195,073 (direct plus indirect costs).

POCKMAN, W.T.

"Xylem Transport Through the Roots of Grasses and Shrubs"; W.T. Pockman, PI; USDA-Plant Responses to the Environment Panel; $90,000 ($25,867 transferred from Duke), November 1, 2000–October 31, 2001.

"Self-organization of Semi-arid Landscapes: Tests of Optimality Principles"; B.T. Milne, D. Bader, W.T. Pockman and C. Restrepo, co-PIs; NSF-Ecosystems Panel; $674,911, January 1, 2000–December 31, 2002.

SNELL, H.L.

"Renovation of the UNM Bookstore for MSB"; T.L. Yates, H.L. Snell and R.R. Parmenter, co-PIs; National Science Foundation; $975,000, 1997–2001, $975,000.

"Collaborations in Conservation Biology of the Galápagos Archipelago"; H.L. Snell, PI; Charles Darwin Foundation; $160,000, June 1, 1997–May 30, 2001, $40,000.

** "Ecología de Restauración para la Diversidad Biológica en Galápagos: Recuperación de los Reptiles Endémicos"; H.L. Snell and C. Marquez, co-PIs; FUNDACYT (Ecuador's NSF); $100,000, January 1, 1999–January 1, 2001, $50,000.

** "Monitoreo Ecológico en las islas Galápagos"; H.L. Snell, A. Tye, R. Bustamante, co-PIs; Fundación Natura; $425,000, April 1, 1999–April 1, 2003, $108,000.

** "Ecological Monitoring for the Galápagos Archipielago: A Productive Program for the Conservation of Biological Diversity"; H.L. Snell and C. Causton, co-PIs; UNESCO, $92,000, June 1, 1999–June 1, 2000, $92,000.

** "Pata Pegada Conservation Project"; H.L. Snell and Hernan Vargas, co-PIs; Worthington Foundation; $17,000, January 1, 1999–January 1, 2001, $17,000.

** "Villamil Tortoise Centre—Construction of a Laboratory"; H.L. Snell, PI; British Chelonial Group and the Galápagos Conservation Trust; $24,000, January 1, 1999–June 30, 2001, $24,000.

** "Conservation of Galápagos Reptiles"; H.L. Snell, PI; Ernst Klienwort Charitable Trust; $40,000, January 1, 1999–January 1, 2001, $20,000.

** "Conservation of Galápagos Birds"; H. Vargas, R. Bensted-Smith, H.L. Snell, co-PIs; $180,000, November 1999–November 2002, $60,000.

** "Protección de Biodiversidad en el Volcán Alcedo (Isla Isabela), y en la Isla Santiago, Galápagos"; M. Patry, H.L. Snell, A. Tye, R. Bensted-Smith, co-PIs; Fondo PL-480 (USAID); $200,000, January 1, 1998–January 1, 2001, $63,000.

** "Control of Introduced Predators in Galápagos"; H.L. Snell, R. Bensted-Smith, co-PIs; Frankfurt Zoological Society; $165,000, January 1, 1998–January 1, 2001, $55,000.

** "Protection of the Mangrove Finch"; H. Vargas and H.L. Snell, co-PIs; Frankfurt Zoological Society; $45,000, January 1, 1998–January 1, 2001, $15,000.

** "Conservation of Galápagos Vertebrates"; H.L. Snell, R. Bensted-Smith, co-PIs; Charles Darwin Foundation, Inc.; $180,000, January 1, 1998–January 1, 2001, $60,000.

** "Pinzon de Manglar"; H. Vargas and H.L. Snell, co-PIs; Swiss Friends of Galápagos; $60,000, January 1, 1998–January 1, 2001, $20,000.

** "Ecological Restoration of Santiago Island"; M. Patry, H.L. Snell and A. Type; Special Expeditions Galápagos Fund; $70,000, January 1, 1998–January 1, 2001.

THORNHILL, R.

"The Scent of Symmetry"; R. Thornhill and S.W. Gangestad, co-PIs; Olfactory Research Fund; $46,000; July 1997–December 31, 2000, $23,000/yr.

TURNER, T.F.

"Freshwater Graduate Studies Link Fundamental Science with Applications Through Integration of Ecology, Hydrology, and Geochemistry in Regions with Contrasting Climates"; A. Ward (UA), PI, C. Dahm, co-PI, T.F. Turner, one of 16 other participants; National Science Foundation—IGERT; $2,687,181, January 1, 1999–December 31, 2004.

VOGEL, K.G.

"Proteoglycan Structure, Metabolism and Role in Tendon"; K.G. Vogel, PI; National Institutes of Health, NIAMS, AR36110; total costs $741,127, January 1, 1995–December 31, 2000, year-12, direct costs $127,599.

WERNER-WASHBURNE, M.

"The Role of SNZ and SNO Proteins in the Yeast *Saccharomyces cerevisiae*"; M. Werner-Washburne, PI; NSF; September 1, 1998–August 31, 2001, total $110,000 (direct & indirect costs).

"Developmental Regulation of Signal Transduction: Bcy1p in Stationary-phase Yeast"; M. Werner-Washburne, PI; National Science Foundation; September 1996–February 2001, $240,000 plus supplements.

"Microarray Analysis of Expression During Exit from Stationary Phase in Yeast"; M. Werner–Washburne, PI; Sandia National Laboratories; $50,000 for two years, 1999, 2000.

YATES, T.L.

"Hantavirus Ecology and Disease in Chile"; G. Mertz, T.L. Yates and B. Hjelle, co-PIs; NIH; $3,200,008, June 1, 1999–May 31, 2004, ~$750,000/year.

"A Genetic Resource for the 21st Century: Computerization of the Division of Biological Materials, MSB"; T.L. Yates, W. Gannon and L. Ruedas, co-PIs; National Science Foundation; $89,000, July 1, 1999–December 31, 2000.

"Inspection and Decontamination of File Boxes Potentially Infected with Hantavirus"; T.L. Yates, PI; DOI; $229,789, December 12, 1998–January 31, 2000.

"Portable Flow-through Amperometric Immunosensor Device for Fast Field Immunoanalysis of Rodent Virus"; E. Wilkins and T.L. Yates, PIs; National Science Foundation;$240,000, July 15, 1998–June 2000.

"Biology of Infectious Diseases and Inflammation"; M. Lipscomb and T.L. Yates, PIs; Public Health Services; $466,042, July 1, 1998–June 30, 2003.

"Longitudinal Studies of Rodent Reservoirs of Hantaviruses in the Southwestern United States"; T.L. Yates, PI; Centers for Disease Control and Prevention; $1,039,886, September 30, 1996–September 30, 2001, $214,370.

"Hantavirus Infections: Ecology, Immunity, and Treatment"; T.L. Yates and F. Koster, co-PIs; National Institute of Allergy and Infectious Diseases; $1,569,666, August 15, 1996–July 31, 2000.

"Knowledge Networking of Biodiversity Information"; James Beach, University of Kansas, PI; National Science Foundation, $2,731,876, September 1, 1998–August 31, 2001.

"Longitudinal Studies of Hantavirus in Rodent Populations of the American Southwest"; T.L. Yates, PI; Indian Health Service, $599,661, September 6, 1996–August 2002.

B. Other.

ALTENBACH, J.S.

Ongoing research on bats and abandoned mines.

BARTON, L.L.

Serve as a member of support for two other grants at UNM:

- MBRS from NIH, which supports one student per semester.
- MARC from NIH, which supports one student per semester.

CHARNOV, E.L.

MacArthur Fellowship, 1997–2002.

CRIPPS, R.M.

Supervision of two full-time laboratory technicians and one work-study employee.

GOSZ, J.R.

Successfully led the effort to establish New Mexico as an EPSCoR state (Experimental Program to Stimulate Competitive Research), which will lead to infrastructure awards for universities in New Mexico.

IV. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES.

A. Invited or Plenary Talks at Professional Meetings, Workshops, Etc.

ALTENBACH, J.S.

Paper presented, Office of Surface Mining, "Bats and Abandoned Mines: An Interactive Forum," Altenbach, J.S., R.E. Sherwin and P. Brown, "Pre-mine Closure Bat Survey and Inventory Techniques," St. Louis, MO, November 20.

Paper presented, Office of Surface Mining, "Bats and Abandoned Mines: An Interactive Forum," Altenbach, J.S., R.E. Sherwin and P. Brown, "Mine Characteristics of Importance to Bats," St. Louis, MO, November 20.

Paper presented, Office of Surface Mining, "Bats and Abandoned Mines: An Interactive Forum," Altenbach, J.S., R.E. Sherwin and P. Brown, "Pre-gating Abandoned Mine Remediation," St. Louis, MO, November 20.

BARTON, L.L.

Workshop, invited presentation, DOE, Natural and Accelerated Bioremediation Research Annual Program, "Long term stability of precipitated metals in the environment," Reston, VA, January 31–February 2.

Invited speaker at symposium, International Symposium on the Power of Anaerobes, "Reduction of heavy metals and non-essential elements by anaerobes," University of Georgia, Athens, GA, May 18-19.

Invited to serve on Grant Panel for "Structural Biology—Peer and Merit Review," DOE, Reston, VA, June 10-12.

Workshop, invited presentation and leader of roundtable, DOE Workshop on the Future Research Objectives with Metals and Microbes, "Cell–metal interactions with an emphasis on surface activities," Warrington, VA, August 15–17.

Invited talk, New Mexico Environmental Health Conference, "Strategies for remediation sites containing polycyclic aromatic hydrocarbons," Albuquerque, NM, October 23-25.

Invited talk at symposium, Seventh International Petroleum Environmental Conference, "Reduction of elemental sulfur by sulfate-reducing bacteria," Albuquerque, NM, November 7-10.

BROWN, J.H.

co-organizer, SFI Symposium on "Fractals in Biology: From Organisms to Ecosystems," Santa Fe, NM, November 29–December 2.

DAHM, C.N.

C.N. Dahm. 2000. Dissolved organic carbon dynamics at the ground water and surface water interface. Annual Meeting of the Geological Society of America, Reno, NV.

C.N. Dahm and M.A. Baker. 2000. Organic matter dynamics at the ground water and surface water interface of a mountain stream. Annual Meeting of the American Society of Limnology and Oceanography, Copenhagen, Denmark, June 4-10.

DUSZYNSKI, D.W.

Taxonomy of the Coccidia: Needs, Principles and Practices. 34th Annual Coccidiosis Conference, Caribe Hilton Hotel, San Juan, Puerto Rico, June 25 (invited).

GOSZ, J.R.

Canadian Environmental Monitoring and Assessment Network Annual Meeting, Environment Canada, International LTER Efforts in North America, Toronto, Ontario, Canada, January 18.

Global Observations of Forest Cover working group of the Global Terrestrial Observing System, FAO, Introduction to the Terrestrial Carbon Observing System, Ottawa, Canada, February 8.

AAAS Annual Meeting, Integrating U.S. Environmental Monitoring Programs, Washington, DC, February 19.

SW NEON Workshop, The New Mexico Infrastructure for a NEON Research Program, Arizona State University, Phoenix, AZ, March 20.

Northern Arizona University Workshop on NEON, NEON: Why Do We Need It?, Flagstaff, AZ, April 3.

The University of New Mexico, LTER Network Office NSF Site Review, ILTER Developments and Role of the LTER Network Office, Albuquerque, NM, May 8.

Central and Eastern European Regional LTER Meeting, Regional LTER Science in Europe—The Role for Slovakia, Nitra, Slovakia, May 24.

Ukraine Biosphere Meeting, International LTER in Europe—Role for Ukranian Biosphere Reserves, Kiev, Russia, May 27.

Smithsonian Environmental Research Center (SERC) Semi-annual Meeting, the Role of Governmental Research Centers in NEON, SERC, Maryland, June 5.

Global Observation of Forest Cover Science Technology Board, The Role of GT-Net in GOFC; Ottawa, Canada, June 21.

LTER All Scientists Meeting, LTER Science in the 21st Century, Snowbird, UT, August 2.

New Mexico NEON Workshop, UNM/NMSU Interactions in NEON, Las Cruces, NM, August 25.

Albuquerque Department of Environment Meeting, Albuquerque's Role in NEON, Albuquerque, NM, August 30.

Bosque del Apache NEON Meeting, New Mexico NEON Activities, Bosque del Apache, NM, September 5.

Forest Service Regional Meeting, Forest Service–Academic Interactions in NEON, Albuquerque, NM, September 6.

Los Alamos National Lab. Seminar, A New Mexico Proposal for a National Ecological Observatory, Los Alamos, NM, September 14.

Smithsonian Environmental Research Center (SERC) Semi-annual Meeting, NEON Updates and Collaboration Between SERC and NM, SERC, Maryland, September 22.

The Nature Conservancy NEON Meeting, TNC Involvement in NEON, Santa Fe, NM, October 6.

BLM Meeting, Interagency Interactions in NEON and LTER, Santa Fe, NM, October 6.

Institute of Ecosystem Studies Symposium on Boundaries, Biome Boundary Dynamics, Millbrook, NY, October 19.

NATO/AAAS/ESF Conference on Future Research in Central Europe, Regional ILTER Activities in Central and Eastern Europe, Dresden, Germany, December 1.

LI, B.-L.

"Scale Invariance and Covariance in Developing Landscape Indicators," Special Session, the 15th Annual Symposium of U.S. Regional Association of the International Association for Landscape Ecology and the Second Conference of the Walt Dineen Society, Ft. Lauderdale, FL, April 15-19.

"Mathematical Physics Approach to Ecological Problems," Consortium of the Americas for Interdisciplinary Science, Mexico–USA Foundation and UNM, Albuquerque, NM, May 5-6.

LOKER, E.S.

"Invertebrates: Opportunities and Insights Awaiting Immunobiologists," the International Society of Developmental and Comparative Immunology Symposium, the American Association of Immunologists Annual Meeting, Seattle, WA, May 12-16.

Plenary lecture, "Molecular Studies of *Biomphalaria*: Phylogeny, Defense Responses and Symbionts," presented at the Sixth International Congress on Medical and Applied Malacology, Havana, Cuba, September 4-8.

MILLER, R.D.

Workshop co-chair, Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 2-6.

NATVIG, D.O.

Invited talk, "Analysis of the *pdx-1* (*snz-1/sno-1*) Region of the *Neurospora crassa* Genome: Some Lessons," the Third International Symposium on Fungal Genomics, Athens, GA, March.

NELSON, M.A.

Invited speaker, "The *Neurospora* Genome Project at UNM: Gold from the Mold," *Neurospora* 2000 Conference, Asilomar, CA, March 9-12.

Invited speaker, "Genomics as a Key to Understanding Relationships among Organisms," Genomics and Biotechnology Alliance Day of Talks, Albuquerque, NM, March 22.

Invited speaker, "Research Ethics Seminar on Pressures, Conflicts and Ethical Dilemmas in Research," Ethics in Human Research, Second Annual Symposium, UNM Health Sciences Center, Albuquerque, NM, June 15.

Invited speaker, Genomics 2000, New Mexico–LANL Collaboration Meeting, Albuquerque, NM, November 15-16.

STRICKER, S.A.

"Serotonin Triggers an Increase in cAMP During Oocyte Maturation," Mechanisms of Cell Signaling in Early Development meeting, Okazaki, Japan, November.

"Calcium and ER Dynamics During Oocyte Maturation and Fertilization in Nemertean Worms," Mechanisms of Cell Signaling in Early Development meeting, Okazaki, Japan, November.

THORNHILL, R.

Plenary Lecture, "The Biology of Beauty," National Conference for Plastic Surgery, San Diego, CA, February.

Special lecture, "The Evolutionary Biology of Rape," Society for the Scientific Study of Sex, San Diego, CA, April.

Plenary Lecture, "Symmetry, Pheromones and Beauty," Society for Scientific Study of Sex, San Diego, CA, April.

Symposium lecture in Next Sex, ARS Electronica Festival, Linz, Austria. Topic: "A Natural History of Rape," September.

Lecture in international symposium, Evolution: From Molecules to Ecosystems, Valencia University, Spain. Topic: "Sexual Selection," November.

Lecture on my recent book, *A Natural History of Rape*, in special session for the book, American Society of Criminology Meeting, San Francisco, CA, November.

VOGEL, K.G.

Invited plenary talk, British Society for Matrix Biology, Year 2000 Millennium Meeting on Molecular Cell Biology of the Synovial Joint, "Differentiation of Tendon Tissue," University of London Royal Veterinary College, London, England, April 3-4.

Invited talk, American Society of Biomechanics, "Tendon Differentiation Is Related to Load," University of Illinois, Chicago, IL, July 19-22.

WAGNER, A.

Lecture, "Mutational Robustness in Genetic Networks," Southwest Genomics and Biotechnology Alliance Workshop, Sandia National Laboratory, Albuquerque, NM, March.

Lecture, "Mutational Robustness in Genetic Networks of Yeast", Department of Biology, Arizona State University, Tempe, AZ, May.

Lecture, "Gene Duplications and Robustness Against Mutations in Genetic Networks of Yeast," Symposium on the Evolutionary and Developmental Consequences of Gene Duplications, University of Oregon, Eugene, OR, June.

Lecture (in Spanish), "Robustez a Mutaciones Y La Capazidad Para Evolucionar," Charles Darwin Research Station, Galápagos, Ecuador, July.

Workshop, "Structure and Dynamics of Complex Interactive Networks," The Santa Fe Institute, Santa Fe, NM, August.

Seventh International Conference on the Simulation and Synthesis of Living Systems (Alife VII), Portland, OR, August, declined.

Lecture, "Robustness and Redundancy in Genetic Networks of Yeast," National Center for Genome Research, Santa Fe, NM, September.

Workshop, Boundaries and Building Blocks in Complex Systems, Center for the Study of Complex Systems, University of Michigan, MI, October.

Lecture, "Robustness in Genetic Networks," The University of New Mexico School of Medicine, Albuquerque, NM, October.

Workshop, "Beyond the Identification of Transcribed Sequences: Functional and Expression Analysis," Heidelberg, Germany, October, declined.

WERNER-WASHBURNE, M.

Southwest Genomics and Biotechnology Alliance—Day of Talks I, "Insight with VxInsight™," Albuquerque, NM, March 22.

AAAS SWARM meeting, "Genomics: A Revolution Before Our Eyes," Las Cruces, NM, April 10.

Zeta Phi Beta National Conference, "Genomics and its Challenge for Minority Education," Philadelphia, PA, July 6-7.

Yeast Genetics and Molecular Biology Meeting, "Exit from Stationary Phase in Yeast: Gene Expression Analysis," Seattle, WA, July 25-30.

NSF Wood's Hole Meeting on Microbial Genomics, "Functional Genomics," Woods Hole, MA, August 10-11.

"The Blessings of Academic Life," SREB/WICHE/McNair meeting, Compact for Faculty Development, Orlando, FL, October 26-29.

YATES, T.L.

Yates, T.L. 2000. Funding opportunities for environmental science. Annual Meeting of the Association of Systematic Collections, Baltimore, MD, May 15.

Yates, T.L. 2000. The golden age of biology: The biological synthesis in the new millennium. Opening plenary address, the Biological Society of Chile, Pucon, Chile, November 14. (This is like our AIBS.)

Yates, T.L. 2000. Biocomplexity and Hantavirus pulmonary syndrome. Symposium: Hantavirus Ecology and Disease in Chile. Annual Meeting of the Ecological Society of Chile, Pucon, Chile, November 15.

Yates, T.L. 2000. Ecological dynamics of hantavirus outbreaks: A trophic cascade. Keystone Symposium: Genetics, Pathogenesis and Ecology of Emerging Infectious Diseases, Taos, NM, January 24-30.

Yates, T.L. 2000. Modeling the ecology of disease outbreaks. Annual Meeting of the International Centers for Tropical Disease Research, NIAID, Bethesda, MD, April 10-12.

B. Contributed Talks at Professional Meetings, Workshops, Etc.

BARTON, L.L.

"Metal reduction and nanocrystal formation by an anaerobic sulfate-reducing bacterium, *Desulfovibrio desulfuricans*," Second International Biometal Symposium, University of Tuebingen, Germany, April 24-29.

"A comparison of kinetic values for protons and iron in ferric-chelate reductase with three plant systems," 10th International Symposium on Iron Nutrition and Interactions in Plants, Houston, TX, May 14-18.

"Determination of long-term stability of precipitated metals," Western Region Hazardous Substance Symposium, Denver, CO, June 10-15.

"Chemical oxidation of PAHs," Underground Storage Tank Conference, Albuquerque, NM, August 22-23.

"Oxidation of polycyclic aromatic hydrocarbons by permanganate and ultrasonic radiation," Seventh International Petroleum Environmental Conference, Albuquerque, NM, Nov. 7-10.

BROWN, J.H.

Short course on "Scaling in Biology" for NSF graduate interns, Santa Fe Institute, Santa Fe, NM, November 13 and15.

"Body Size, Future of Biogeography," Working Groups of National Center for Ecological Analysis and Synthesis, 1996–2000, Santa Barbara, CA, March 31–April 2 & July 25–August 1.

Seminar/colloquium presentations at:
- Texas A & M University, February 24–27
- University of British Columbia, February 29–March 1
- Colorado State University, May 4–6
- University of Pennsylvania, October 25–28
- University of Pittsburgh, October 30.

Extreme Events Workshop, National Science Foundation, Boulder, CO, June 7–9.

Contributed papers at the joint meeting of American Society of Mammalogists and Southwestern Association of Biologists, Durham, NH, June 16–21.

"Concluding Remarks" at the Joint meeting of the British Ecological Society and Ecological Society of America, Orlando, FL, April 10–13.

DAHM, C.N.

Dahm, C.N., M.C. Molles, Jr., J.R. CLEVERLY, J.R. Thibault and C.S. Crawford. 2000. Estimating water depletion for a river reach in a region with a semi-arid climate. Annual Meeting of the North American Benthological Society, Keystone, CO.

DUSZYNSKI, D.W.

Marquardt, W.C. and D.W. Duszynski. A second report of a coccidium (Phylum Apicomplexa) in the mammary glands of shrews. 31st Annual Meeting of the Rocky Mountain Conference of Parasitologists, Colorado Springs, CO, April 27-29.

Marquardt, W.C. and D.W. Duszynski. A second report of a coccidium (Phylum Apicomplexa) in the mammary glands of shrews. Joint Meeting of the American Society of Parasitologists (75th Anniversary Meeting) and the Society of Protozoologists (53rd Annual Meeting), San Juan, Puerto Rico, June 24-28.

Zhao, X. and D.W. Duszynski. Phylogenies suggesting different origins of plastid of Apicomplexan parasites. Ninth Annual Research Day; Department of Biology; UNM, April 7.

Zhao, X. and D.W. Duszynski. Plastid DNA in Gregarine and Perkinsus lineages. 33rd Annual Meeting of Southwestern Association of Parasitologists, Lake Texoma, OK, April 13-15.

Zhao, X. and D.W. Duszynski. Phylogenetic analysis of plastid DNA of apicomplexan parasites. Joint meeting of the American Society of Parasitologists (75th Anniversary Meeting) and the Society of Protozoologists (53rd Annual Meeting), San Juan, Puerto Rico, June 24-28.

FAGUY, D.M.

Archaeal Cell Division, Gordon Research Conference: The Origin of Life, Plymouth, NH, July 1-5.

KODRIC-BROWN, A.

Talk, International Behavioral Ecology Congress, "Sexual Selection Promotes Rapid Introgressive Hybridization in Pupfish (Cyprinodon)," Zoologisches Museum, University of Zurich, August 8-12.

Talk, Ecological and Evolutionary Ethology of Fishes, "Introgression in Pupfish: Causes and Consequences," University of Georgia, May 20-25.

LI, B.-L.

Li, B.-L. 2000. The emergence of self-organized vegetation patterns: Self-thinning rule re-examined. AGU 2000 Fall Meeting, San Francisco, CA, December 15-19.

Li, B.-L. 2000. Fractals in ecology: Where is the ecology? Ecological Society of America 85th Annual Meeting, Snowbird, UT, August 6-10.

Li, B.-L. and J.R. Gosz. 2000. Understanding a semi-arid ecotonal transition via 10-year Sevilleta LTER vegetation transect data analysis. LTER All Scientists Meeting, Snowbird, UT, August 2-4.

LOKER, E.S.

Hertel, L.A. and E.S. Loker. 2000. Investigation into acquired resistance in the snail *Biomphalaria glabrata* reveals the presence of an unusual endosymbiotic protist. The Eighth Congress of

the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 3-6.

Adema, C.M. and E.S. Loker. 2000. Function and diversity of fibrinogen-related proteins (FREPs) in gastropods. The Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 3-6.

Leonard, P., C.M. Adema, S.-M. Zhang, L.A. Hertel and E.S. Loker. 2000. Fibrinogen-related proteins (FREPs) in gastropods and other animals: Are FREPs widely employed across animal phyla in defense responses? The Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 3-6.

DeJong, R.J., J.A.T. Morgan, G.M. Mkoji and E.S. Loker. 2000. Molecular phylogenetics of the intermediate hosts for *Schistosoma mansoni*: The planorbid genus *Biomphalaria*. The 49th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Houston, TX, October 29–November 2.

LOWREY, T.K.

Lowrey, T.K., C.J. Quinn, R.K. Taylor, R. Chan, R. Kimball and J. De Nardi. Molecular, morphological, and biogeographical reassessment of relationships within the *Vittadinia* group of Astereae (Asteraceae). Botany 2000, Portland, OR, August.

Whitkus, R. and T.K. Lowrey. Genetic marker diversity in Hawaiian and Cook Island *Tetramolopium* (Asteraceae). Botany 2000, Portland, OR, August.

Lopez, R.G. and D.L. Marshall. 2000. Effects of inbreeding depression on the reproductive and physiological fitness of *Raphanus sativus* under stressed conditions. Guild of Rocky Mountain Population Biologists Annual Meeting, Mt. Crested Butte, CO, September.

Shaner, M.G.M. and D.L. Marshall. 2000. Under how wide a set of conditions will non-random mating occur in *Raphanus sativus*? Guild of Rocky Mountain Population Biologists Annual Meeting, Mt. Crested Butte, CO, September.

Tyler, A.P. and D.L. Marshall. 2000. Development of a medium for the *in vitro* study of *Raphanus sativus* pollen. Guild of Rocky Mountain Population Biologists Annual Meeting, Mt. Crested Butte, CO, September.

MOLLES, M.C. JR.

Leaf Toughness and Nitrogen Content: Common Currencies Determining Decomposition Rate and Performance of Terrestrial Detritivores? Ecological Society of America Meeting, Snow Bird, UT, August.

Flooding Regime and Riparian Ecosystem Integrity along the Rio Grande. North American Benthological Society, Keystone, CO, May.

NELSON, M.A.

"Genome analysis and the post-genomic era," Intensive Cellular Biology course, Sandia National Laboratories, Albuquerque, NM, July 27.

POCKMAN, W.T.

Hacke, U.G., J.S. Sperry, S.D. Davis and W.T. Pockman. 2000. Wood density and drought resistance of plant xylem. Annual Meeting of the Ecological Society of America, Snowbird, UT, August.

Pockman, W.T., J. Martínez–Vilalta and R.B. Jackson. 2000. The contribution of deep root functioning to whole-plant water relations and xylem transport in *Juniperus ashei*. Annual Meeting of the Ecological Society of America, Snowbird, UT, August.

SNELL, H.L.

Snell, H.L. 2000. Preventing Impending Extinctions of Galápagos Birds: Are Current Paradigms Up to the Task? Workshop on Avian Diseases in the Galápagos Islands. Princeton University, October.

STRICKER, S.A.

"Multiple Triggers of Oocyte Maturation in Nemertean Worms," T. Smythe and S. Stricker, Southwest Society of Developmental Biologists meeting, Houston, TX, February.

THORNHILL, R.

Evolution and Human Behavior Conference, "Symmetry and Mating Behavior in a Remote Dominican Village," S. Gangestad and R. Thornhill, Amherst College, Amherst, MA, June.

TURNER, T.F.

Alo, D. and T.F. Turner. Phylogeography of the orangebelly darter. Annual Research Day presentation, Department of Biology, UNM, April.

Turner, T.F., J.C. Trexler and H.W. Robison. Congruent patterns of genetic divergence in sympatric Ouachita-endemic fishes. American Society of Ichthyologists and Herpetologists, La Paz, Baja California Sur, Mexico, June.

Turner, T.F. and D. Alo. Temporal genetic variation and the genetic effective population size of the silvery minnow: A preliminary evaluation. Desert Fishes Council, Death Valley, CA, November.

McPhee, M.V. and T.F. Turner. Phylogeography of the Rio Grande sucker (*Catostomous plebius*) in New Mexico. Desert Fishes Council, Death Valley, CA, November.

WAGNER, A.

"Are Weak Phenotypic Effects of Knock-out Mutations Really Caused by Redundant Gene Functions?", Annual Meeting of the Society for the Study of Evolution, Bloomington IN, June.

YATES, T.L.

Salazar-Bravo, J., J.W. Dragoo and T.L. Yates. 2000. Molecular systematics of the Phyllotini (Rodentia: Sigmodontinae). Annual Meeting of the American Society of Mammalogists, Durham, NH, June 17-21.

Yates, T.L., J. Mills, C. Parmenter, T. Ksiazek, R. Parmenter, C. Calisher, S. Nichol, K. Abbot, J. Young, M. Morrison, B. Beaty, A Kuenzi, J. Dunnum, R.J. Baker and C.J. Peters. 2000. The ecology of an outbreak: Evidence for El Niño-driven hantavirus outbreaks in the western hemisphere. Annual Meeting of the American Society of Mammalogists, Durham, NH, June 17-21.

C. Attendance at Professional Meetings, Workshops, Etc.

ALTENBACH, J.S.

Mining History Association Meeting, Tonopah, NV, June 6-9.

BARTON, L.L.

DOE Natural and Accelerated Bioremediation Research Annual Program, Reston, VA, January 31–February 2.

Second International Biometal Symposium, University of Tuebingen, Germany, April 24-29.

10th International Symposium on Iron Nutrition and Interactions in Plants, Houston, TX, May 14-18.

Western Region Hazardous Substance Symposium, Denver CO, June 10-15.

International Symposium on the Power of Anaerobes, University of Georgia, Athens, GA, May 18-19.

DOE Workshop on the Future Research Objectives with Metals and Microbes, Warrington, VA, August 15–17.

Underground Storage Tank Conference, Albuquerque, NM, August 22-23.

New Mexico Environmental Health Conference, Albuquerque, NM, October 23-25.

Seventh International Petroleum Environmental Conference, Albuquerque, NM, November 7-10.

BROWN, J.H.

Joint Meeting of the British Ecological Society and Ecological Society of America, Orlando, FL, April. 10–13.

Joint meeting of American Society of Mammalogists and Southwestern Association of Biologists, Durham, NH, June 16–21.

CRIPPS, R.M.

American Drosophila Research Conference, Pittsburgh, PA, March.

Molecular genetics of muscle development, Asilomar, CA, June.

DAHM, C.N.

Global Change Symposium for the Rocky Mountain Region, Salt Lake City, UT, February 26-27.

North American Benthological Society, Keystone, Colorado, May 27–June 2.

American Society of Limnology and Oceanography, Copenhagen, Denmark, June 4-10.

IRC-EB National Science Foundation Panel, National Science Foundation, May 18-19.

Geological Society of America, Reno, NV, November 13-15.

DUSZYNSKI, D.W.

Joint meeting of the American Society of Parasitologists (75th Anniversary Meeting) and the Society of Protozoologists (53rd Annual Meeting), San Juan, Puerto Rico, June 24-28.

33rd Annual Meeting of Southwestern Association of Parasitologists, Lake Texoma, OK, April 13-15.

Albuquerque TVI Arts & Sciences Advisory Committee Meeting, December.

FAGUY, D.M.

American Society for Microbiology 100th General Meeting, Los Angeles, CA, May 1-6.

Gordon Research Conference: The Origin of Life, Plymouth, NH, July 1-5.

GOSZ, J.R.

Canadian Environmental Monitoring and Assessment Network Annual Meeting, Environment Canada, Toronto, Ontario, Canada, January 18.

Global Terrestrial Observing System, FAO, Ottawa, Canada, February 8.

AAAS Annual Meeting, Washington, DC, February 19.

SW NEON Workshop, Arizona State University, Phoenix, AZ, March 20.

Northern Arizona University Workshop on NEON, Flagstaff, AZ, April 3.

University of New Mexico, LTER Network Office NSF Site Review, Albuquerque, NM, May 8.

Central and Eastern European Regional LTER Meeting, Nitra, Slovakia, May 24.

Ukraine Biosphere Meeting, Kiev, Russia, May 27.

Smithsonian Environmental Research Center (SERC) Semi-annual Meeting, SERC, Maryland, June 5.

Global Observation of Forest Cover Science Technology Board, Ottawa, Canada, June 21.

LTER All Scientists Meeting, Snowbird, UT, August 2.

New Mexico NEON Workshop, Las Cruces, NM, August 25.

Albuquerque Department of Environment Meeting, Albuquerque, NM, August 30.

Bosque del Apache NEON Meeting, Bosque del Apache, NM, September 5.

Forest Service Regional Meeting, Albuquerque, NM, September 6.

Los Alamos National Lab. Seminar, Los Alamos, NM, September 14.

Smithsonian Environmental Research Center (SERC) Semi-annual Meeting, SERC, Maryland, September 22.

The Nature Conservancy NEON Meeting, Santa Fe, NM, October 6.

BLM Meeting, Santa Fe, NM, October 6.

Institute of Ecosystem Studies Symposium on Boundaries, Millbrook, NY, October 19.

NATO/AAAS/ESF Conference on Future Research in Central Europe, Dresden, Germany, December 1.

KODRIC-BROWN, A.

Southwestern Association of Biologists, Southwestern Research Station, Cave Creek, AZ, September 23-24.

Desert Fishes Council Meeting, Death Valley, CA, November 15-18.

LI, B.-L.

U.S. EPA Ecological Indicators Grant Progress Meeting, Las Vegas, NV, May 8-10.

LTER All Scientists Meeting, Snowbird, UT, August 2-4.

Ecological Society of America 85th Annual Meeting, Snowbird, UT, August 6-10.

U.S. EPA STAR Grant Review Meeting, Las Vegas, NV, September 18-20.

LIGON, J.D.

NM Ornithological Society, Albuquerque, NM, March.

LOKER, E.S.

American Association of Immunologists Annual Meeting, Seattle, WA, May 12-16.

Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 3-6.

Sixth International Congress on Medical and Applied Malacology, Havana, Cuba, September 4-8.

LOWREY, T.K.

Botany 2000, Portland, OR, August.

MARSHALL, D.L.

The Guild of Rocky Mountain Population Biologists Annual Meeting, Mt. Crested Butte, CO, September.

MILLER, R.D.

Eighth Congress of the International Society of Developmental and Comparative Immunology, Cairns, Australia, July 2-6.

MOLLES, M.C. JR.

Ecological Society of America Meetings, Snowbird, UT, August.

North American Benthological Society Meetings, Keystone, CO, May.

NATVIG, D.O.

Third International Symposium on Fungal Genomics, Athens, GA, March.

Annual Meeting of the Mycological Society of America, Burlington, VT, August.

Annual SACNAS conference, Atlanta, GA, October.

NELSON, M.A.

Neurospora 2000 Conference, Asilomar, CA, March 9-12.

Genomics and Biotechnology Alliance Day of Talks, Albuquerque, NM, March 22.

Ethics in Human Research, Second Annual Symposium, UNM Health Sciences Center, June 15.

2000 New Mexico–LANL Collaboration Meeting, Albuquerque, NM, November 15-16.

POCKMAN, W.T.

LTER Network All-Scientists Meeting, Snowbird, UT, August.

Ecological Society of America, Annual Meeting, Snowbird, UT, August.

Guild of Rocky Mountain Population Biologists, Annual Meeting, Gothic, CO, September.

SNELL, H.L.

Attended and co-organized a workshop on Avian Diseases in the Galápagos Islands held at Princeton University, October.

STRICKER, S.A.

Southwest Society of Developmental Biologists, Houston, TX, February.

Mechanisms of Cell Signaling in Early Development meeting, Okazaki, Japan, November.

THORNHILL, R.

Evolution and Human Behavior Conference, Amherst College, Amherst, MA, June.

American Society of Criminology Meeting, San Francisco, CA, November.

TURNER, T.F.

Desert Fishes Council, Death Valley, CA, November.

American Society of Ichthyologists and Herpetologists, La Paz, Mexico, June.

VOGEL, K.G.

Molecular Cell Biology of the Synovial Joint, British Society for Matrix Biology, Royal Veterinary College, London, April 3-4.

American Society of Biomechanics: Annual Conference, University of Illinois, Chicago, IL, July 19-22.

International Conference on Biology and Pathology of the Extracellular Matrix, Washington University Medical Center, St. Louis, MO, October 12-15.

WAGNER, A.

Southwest Genomics and Biotechnology Alliance Workshop, Sandia National Laboratory, Albuquerque NM, March.

Symposium on the Evolutionary and Developmental Consequences of Gene Duplications, University of Oregon, Eugene OR, June.

Annual Meeting of the Society for the Study of Evolution, Bloomington IN, June.

Workshop, Boundaries and Building Blocks in Complex Systems, Center for the Study of Complex Systems, University of Michigan MI, October.

WERNER-WASHBURNE, M.

SW-GABA Day of Talks, Albuquerque, NM, March.

DOE Contractors meeting, Santa Fe, NM, April.

Yeast Genetics Meeting, Seattle, WA, July.

DARPA meeting on the Bio-Micro-Info Interface, July.

sZeta Phi Beta meeting on the Human Genome, Philadelphia, PA, July.

NSF Microbial Genome meeting, Woods Hole, MA, August.

Genome Sequencing and Analysis meeting, Miami, FL, September.

YATES, T.L.

Annual Meeting of the International Centers for Tropical Disease Research, NIAID, Bethesda, MD, April 10-12.

Annual Meeting of the Association of Systematic Collections, Baltimore, MD, May 15.

Annual Meeting of the American Society of Mammalogists, Durham, NH, June 17-21.

The Biological Society of Chile, Pucon, Chile, November 14.

Annual Meeting of the Ecological Society of Chile, Pucon, Chile, November 15.

Attended four workshops on the Tree of Life Initiative.

D. **Service as Editor of Scholarly Journal.**

DAHM, C.N.

Associate editor for *Ecology and Ecological Monographs*, 1997–2001.

LI, B.–L.

Editorial Advisory Board of *Ecological Modelling*.

MILLER, R.D.

Guest Editor, *Developmental and Comparative Immunology*.

E. **Service on Editorial Board of Scholarly Journal.**

BARTON, L.L.

Member of Editorial Board for the international journal *Biometals*.

BROWN, J.H.

Evolutionary Ecology Research
Global Ecology and Biogeography

GOSZ, J.R.

Biochemistry

KODRIC-BROWN, A.

Area Editor, *Encyclopedia of Evolution*

LI, B.-L.

Member, Statistical Ecology Program Committee of International Association for Ecology (INTECOL).

Member, IEEE Computer-Based Medical Systems Technical Program Committee.

NELSON, M.A.

Associate Editor, *Fungal Genetics and Biology*, 1998–present.

Editorial board, *Functional and Integrative Genomics*, 1999–present.

SNELL, H.L.

Editorial advisor to the Charles Darwin Foundation for *Noticias de Galápagos*.

THORNHILL, R.

Evolution and Human Behavior

Comparative Psychology

WAGNER, A.

Advances in Complex Systems, 1998–present.

The Journal of Experimental Zoology/Molecular Evolution and Development, 1999–present.

F. **Service as Officer of Professional Organization (indicate whether Elected or Appointed).**

BROWN, J.H.

American Society of Mammalogists: Board of Directors, Merriam Award Committee, Honorary Membership Committee.

Member of committee founding a new International Society of Biogeography.

DAHM, C.N.

Chair of the Science and Policy Committee for the North American Benthological Society (appointed).

DUSZYNSKI, D.W.

National Scientific Program Officer, American Society of Parasitologists. Appointed and confirmed by ASP Council, 1998–2003.

Archivist, Annual Coccidiosis Conference (appointed)

Archivist, Southwestern Association of Parasitologists (appointed)

Research Affiliate, The Harold W. Manter Laboratory of Parasitology, University of Nebraska State Museum, Lincoln, NE (elected).

Albuquerque TVI, Arts & Sciences Advisory Committee (appointed).

GOSZ, J.R.

Board of Governors, Ecological Society of America (elected).

Chairman, U.S. LTER Coordinating Committee (elected).

Chairman, International LTER Network Committee (elected).

Chairman, Global Terrestrial Observing System Steering Committee for FAO (appointed)

Advisory Board, Directorate for Social, Behavioral and Economics, NSF (appointed).

Advisory Board, Division of International Programs, NSF.

Advisory Board, Global Observations of Forest Cover Program of FAO.

KODRIC-BROWN, A.

Graduate Grant Review Committee, Animal Behavior Society of America (appointed).

Board member, Ecological and Evolutionary Ethology of Fishes (elected).

LOKER, E.S.

co-chair, appointed, with Don Duszynski, of Local Organizing Committee for the American Society of Parasitologists, for the 2001 meeting to be held in Albuquerque, June 29–July 3, 2001.

LOWREY, T.K.

President, International Organization of Biosystematists, 2000 (elected).

Member, Publicity Committee, American Society of Plant Systematists, 1999–2000 (appointed).

MOLLES, M.C. JR.

Meetings and Elections Committee Member, North American Benthological Society, 1999–2000. Appointed.

NELSON, M.A.

Member, New Mexico Computational Biology Committee, 1994–present (appointed).

Neurospora Policy Committee, 1997 (four-year term; elected).

Chair, *Neurospora* Genomics Policy Committee, 1999–present (elected).

WERNER–WASHBURNE, M.

Interim Director, Southwest Genomics and Biotechnology Alliance (elected).

YATES, T.L.

Chairman, Board of Trustees, American Society of Mammalogists, 1998–present (appointed).

Chairman, Board of Trustees, Society of Systematic Biology, 1999–present (elected).

Member, Board of Directors, American Society of Mammalogists (elected).

Member, Board of Directors, Association of Systematic Collections.

Member, Council, Society of Systematic Biology (elected).

Member, Board of Trustees, Southwestern Association of Naturalists (elected).

Member, Advisory Board, All Species Foundation (appointed).

Chairman, Pooled Income Fund, American Society of Mammalogists (appointed).

G. Other.

NELSON, M.A.

Member, New Mexico Biotechnology & Biomedical Association.

V. OTHER PROFESSIONAL ACTIVITIES.

A. Seminar Presentations, UNM and Elsewhere.

CRIPPS, R.M.

Molecular Development Group, Arizona State University, Tempe, AZ, January.

Department of Biology Seminar, Arizona State University, Tempe, AZ, November.

DAHM, C.N.

Department of Hydrology and Water Resources, University of Arizona, Tucson, AZ, February 16.

Departments of Biology and Geology, New Mexico Tech, Socorro, NM, February 28.

FAGUY, D.M.

Archaeal Cell Division, University of Toronto, July 20.

GOSZ, J.R.

Earth and Planetary Science Department seminar, New Mexico Research Examples of Interdisciplinary Science at Multiple Scales, January 21.

Biology Dept. Brown Bag seminar, Sevilleta III Research Efforts, March 8.

Biology Dept. Brown Bag seminar, NEON Activities in New Mexico, September 6.

HydroGeoBio working Group seminar, NEON Activities in NM, October 9.

Council of University Presidents Meeting, New Mexico EPSCoR Program, Santa Fe, NM, December 14.

LI, B.-L.

"Habitat Destruction and Species Extinction," Brown Bag Lunch Seminar, Department of Biology, UNM, October 18.

"Spatio-temporal Complexity of Nonlinear Ecological Interactions," Albuquerque High Performance Computing Center Seminar, UNM, November 29.

LIGON, J.D.

"Sexual Selection in the Avian Order Galliformes," Biology Department, Stephen F. Austin College, Nacognoches, TX, October 30.

MARSHALL, D.L.

University of California–Riverside, February.

University of California–Santa Barbara, April.

MILLER, R.D.

Departmental Seminar, "The Evolution of Immunoglobulins as Learned from Some Unusual Mammals," Department of Molecular Genetics and Microbiology, The University of New Mexico School of Medicine, April 25.

MOLLES, M.C. JR.

"Influences of Hydrologic Regime on Riparian Structure and Processes along the Rio Grande," Universidad de Vigo, Vigo, Spain, November.

"Framework for Collaboration," Universidad de Vigo, Vigo, Spain, November.

NELSON, M.A.

"The *Neurospora* Genome Project at UNM: Gold from the Mold," Interdisciplinary Plant Biology Seminar Program, University of Arizona, Tucson, AZ, January 31.

"Genome Analysis of *Neurospora crassa*—A Fungus That Is Much More Interesting than Yeast," Department of Biology Cell/Molecular seminar series, February 11.

Chaired session and presented talk, "Bioinformatics, Biosensors and Imaging: A BioCompu-Engineering Fusion between UNM and Sandia," UNM, July 6.

POCKMAN, W.T.

Invited seminar, Department of Hydrology, New Mexico Tech, April.

SNELL, H.L.

Snell, H.L. 2000. Conservation of Galápagos Reptiles. Invited seminar presented to FUNDACYT, Quito, Ecuador, December 17.

STRICKER, S.A.

"Role of Serotonin During Oocyte Maturation," Friday Harbor Laboratories, University of Washington, Friday Harbor, WA, July.

THORNHILL, R.

Departments of Criminal Justice and Sociology, University of Wyoming, Laramie, WY, October.

Health Sciences Graduate Program, UNM.

TURNER, T.F.

"Is There a Simple Relationship of Life History and Genetic Diversity in Fishes?" presented at :

- University of Oregon, May.
- Ohio University, May.
- The University of New Mexico, October.

➢ Arizona State University, November.

WAGNER, A.

Lecture, "Mutational Robustness in Genetic Networks," Southwest Genomics and Biotechnology Alliance Workshop, Sandia National Laboratory, Albuquerque NM, March.

Lecture, "Mutational Robustness in Genetic Networks of Yeast", Department of Biology, Arizona State University, Tempe AZ, May.

Lecture, "Gene Duplications and Robustness Against Mutations in Genetic Networks of Yeast," Symposium on the Evolutionary and Developmental Consequences of Gene Duplications, University of Oregon, Eugene OR, June.

"Are Weak Phenotypic Effects of Knock-out Mutations Really Caused by Redundant Gene Functions?", Annual Meeting of the Society for the Study of Evolution, Bloomington IN, June.

Lecture (in Spanish), "Robustez a Mutaciones Y La Capazidad Para Evolucionar," Charles Darwin Research Station, Galápagos, Ecuador, July.

Workshop, "Structure and Dynamics of Complex Interactive Networks," The Santa Fe Institute, Santa Fe NM, August.

Lecture, "Robustness and Redundancy in Genetic Networks of Yeast," National Center for Genome Research, Santa Fe NM, September.

Workshop, Boundaries and Building Blocks in Complex Systems, Center for the Study of Complex Systems, University of Michigan MI, October.

Lecture, "Robustness in Genetic Networks," The University of New Mexico School of Medicine, Albuquerque NM, October.

WERNER-WASHBURNE, M.

Southwest Genomics and Biotechnology Alliance—Day of Talks I, "Insight with VxInsight™," Albuquerque, NM, March 22.

AAAS SWARM meeting, "Genomics: A Revolution Before Our Eyes," Las Cruces, NM, April 10.

Yeast Genetics and Molecular Biology Meeting, "Exit from Stationary Phase in Yeast: Gene Expression Analysis," Seattle, WA, July 25-30.

NSF Wood's Hole Meeting on Microbial Genomics, "Functional Genomics," Woods Hole, MA, August 10-11.

"The Blessings of Academic Life," SREB/WICHE/McNair meeting, Compact for Faculty Development, Orlando, FL, October 26-29.

YATES, T.L.

Seminars presented at New Mexico State, University of Nebraska, University of Kansas, and Colorado State.

B. Testimony in a Scholarly Capacity at Hearings of Commissions, Legislative Committees, Etc.

GOSZ, J.R.

Environmental Science in NM, presentation to committee of Congresswoman Heather Wilson, January 26.

Numerous testimony to staff of our congressional delegation in Washington, DC on the UNM Federal Priorities.

SNELL, H.L.

Several meetings regarding planning of conservation activity within the Galápagos, but the dates are lost; meetings held in Quito, Ecuador, and Puerto Ayora, Galápagos, Ecuador.

YATES, T.L.

Office of Management and the Budget

National Science Board

Security Council

C. Presentation to General Audience in a Scholarly Capacity.

ALTENBACH, J.S.

"Wings in the Night," address presented at the Festival of the Cranes, Socorro, NM, November 18.

CRIPPS, R.M.

TV interview for Channel 13 News, on Human Genome Project.

Muscular Dystrophy Association Research Dinner.

SNELL, H.L.

One lecture a month (on average) aboard cruise ships visiting Puerto Ayora, Isla Santa Cruz, Galápagos, Ecuador. Lectures cover varying topics of the Conservation Biology of the Galápagos Archipelago. Average audience consists of 80 North Americans and Europeans.

THORNHILL, R.

The William D. Griffith Lecture, Endowed public presentation, University of Wyoming, "A Natural History of Rape," Laramie, WY, October.

The Tinkle Lecture, Endowed lecture, University of Michigan, Topic: "The Study of Adaptation," Ann Arbor, MI, March.

Lecture for New Mexicans for Science and Reason.

Lecture for New Mexico Humanist Society.

WERNER–WASHBURNE, M.

Zeta Phi Beta National Conference, "Genomics and its Challenge for Minority Education," Philadelphia, PA, July 6-7.

YATES, T.L.

Yates, T.L. 2000. The changing face of higher education: Examples from the hot zone. Talk presented to the Washington DC-area UNM alumni chapter annual luncheon, Fort Belvoir, VA.

D. Service in a Scholarly Capacity as Member of Local, State or National Panel, Committee, or Commission, for Purpose of Reviews of Public Policy Issues, Scientific Evaluations, Awards of Grants or Fellowships or Prizes, Etc.

ALTENBACH, J.S.

Reviewer for Grants in Aid, Bat Conservation International, Austin, TX.

Advisor to the NM Nature Conservancy on the Journado del Muerto Bat Caves.

BROWN, J.H.

Malpai Borderlands Group: Scientific Advisory Board

CRIPPS, R.M.

Member, Grove and Springfield Scholarship Committee, Department of Biology, The University of New Mexico.

DAHM, C.N.

Member of the 1) Bosque Hydrology Group, 2) Technical Advisory Committee of Middle Rio Grande Water Board, and 3) the Kissimmee River Restoration External Advisory Committee.

Nevada EPSCOR Review Panel, April 12.

NSF IRC-EVOLUTIONARY BIOLOGY Review Panel, May 18-19.

DUSZYNSKI, D.W.

Outside Reviewer, NSF, two grant proposals.

FAGUY, D.M.

Reviewed Research Grant for National Aeronautics and Space Administration (NASA) Exobiology Program.

GOSZ, J.R.

Panel for Canada Foundation for Innovation (CFI).

Panel for Joint Infrastructure Fund for the United Kingdom.

Scientific Advisory Committee for the Smithsonian Environmental Research Center.

Scientific Advisory Committee for the National Canopy Crane Facility of the U.S. Forest Service.

Proposal Reviewer for NSF (6 proposals).

Proposal Reviewer for NASA (1 proposal).

KODRIC-BROWN, A.

Member, NSF Population Biology Panel, October 17-20, 2000.

LI, B.-L.

Peer Reviewer for U.S. EPA and National Research Council grant proposals.

LIGON, J.D.

Reviewed two proposals for the National Geographic Society.

LOKER, E.S.

Member of the NIH NIAID Special Emphasis Panel reviewing Tropical Medicine Research Centers, November 14-15, 2000.

LOWREY, T.K.

Member, New Mexico Rare Plant Technical Council

Member, U.S. Fish and Wildlife Service Plant Recovery Team

Ad hoc Reviewer, National Science Foundation, two grant proposal reviews

MARSHALL, D.L.

Member, Panel on the Biology of Weedy and Invasive Species, USDA-CREES-NRI, March

Panel Manager, Program on the Biology of Weedy and Invasive Species, USDA-CREES-NRI, Fall 2000–Spring 20001. Please note that this is a major professional service, with considerably more involvement and responsibility than simply being on a panel. This is something like a commuter program officer position.

MILLER, R.D.

Served on review panel for the Louisiana Board of Regents Support Fund R & D Program, Research Competitiveness Subprogram.

MOLLES, M.C. JR.

National Research Council Expert Committee Member, Riparian Zones: Functioning and Strategies for Management.

National Center for Ecological Analysis and Synthesis Working Group Member, Scientific Evidence Project, University of California, Santa Barbara, CA.

NELSON, M.A.

Scientific Review Committee for the 2000 and 2001 National American Indian Science and Engineering Fairs; co-Chair for 1999–2001.

SNELL, H.L.

Member of a special commission charged with conservation policy formation for the Galápagos Islands. Commission is hosted by the Galápagos National Park Service.

STRICKER, S.A.

Ad hoc reviewer for two NSF proposals.

WERNER–WASHBURNE, M.

Ad-hoc reviewer of six proposals for NSF.

Interagency Report on the Federal Investment in Microbial Genomics, coordinated and partially written by M. Werner–Washburne, Biotech. Research Working Group, subcommittee of the NSTC Biotechnology Committee, Office of Science and Technology Policy, 2000; http://www.whitehouse.gov/WH/EOP/OSTP/html/microbial/nsf00203_1.html.

YATES, T.L.

Served as Director, Division of Environmental Biology, NSF.

Biorepresentative to the Environmental Research and Education NSF steering group.

Represent NSF on the Weapons of Mass Destruction White House subcommittee.

Chair, search committee, Director Laboratory of Molecular systematics, Smithsonian Institution.

E. List Journals and the Number of Papers You Refereed for Each in 2000.

ALTENBACH, J.S.

Special Publications, U.S. Geological Survey (1)
Journal of Mammalogy (1)

BARTON, L.L.

Anaerobe (6)
Applied and Environmental Microbiology (3)
Biometals (4)

Canadian Journal for Microbiology (1)
Journal of Plant Nutrition (6)

CRIPPS, R.M.

Developmental Biology (3)
Journal of Molecular Biology (1)

DAHM, C.N.

Ecology (15)
Ecological Monographs (2)
North American Lake Management Society (1)

DUSZYNSKI, D.W.

Acta Protozoologica (2)
African Zoology (1)
Comparative Parasitology (1)
Journal of Parasitology (2)
Journal of Wildlife Diseases (1)
Parasitology (1)

FAGUY, D.M.

Journal of Bacteriology (2)
Journal of Molecular Evolution (1)
Trends in Microbiology (1)
Current Biology (1)
Microbiology (1)
Genome (1)
Geomicrobiology (1)

GOSZ, J.R.

Biogeochemistry (3)
Ecological Applications (1)
Ecological Modeling (electronic) (1)

KODRIC-BROWN, A.

Animal Behaviour (2)
Environmental Biology of Fishes (1)
American Naturalist (2)
Behavioral Ecology (1)
Proceedings of the Royal Society of London B (1)
Behavioral Ecology and Sociobiology (1)

LI, B.-L.

Ecology (1)

Ecological Modelling (12)
Ecological Indicators (1)

LIGON, J.D.

Auk (2)
Behavioral Ecology (1)
Condor (1)
Science (1)
Wilson Bulletin (1)

LOKER, E.S.

Journal of Parasitology (1)
Development and Comparative Immunology (1)
Wellcome Trust (1 grant)
Parasitology (1)
National Science Foundation (2 grants)
Parasitology Research (1)
African Zoology (1)

LOWREY, T.K.

American Journal of Botany (2)
Madrono (1)
Molecular Ecology (1)
Phytologia (1)
Sida (2)
Systematic Botany (2)

MARSHALL, D.L.

American Journal of Botany (2)
International Journal of Plant Science (1)
Ecology (1)
Conservation Biology (1)
Journal of Ecology (1)

MILLER, R.D.

Journal of Immunology (2)
Molecular Phylogenetics and Evolution (1)

MOLLES, M.C. JR.

Several but records not available here in Spain.

NATVIG, D.O.

Journal of Clinical Microbiology (3)
Fungal Genetics and Biology (1)

Molecular Ecology (1)
Genetics (1)

NELSON, M.A.

Fungal Genetics and Biology (6)
Reviewed one proposal for the National Science Foundation

POCKMAN, W.T.

American Journal of Botany (2)
Arctic, Antarctic and Alpine Research (1)
Global Ecology and Biogeography (1)
Oecologia (3)
Plant Ecology (1)

SNELL, H.L.

Noticias de Galápagos (1)
Informe de Galápagos (2)

STRICKER, S.A.

Developmental Biology (1)
Acta Zoologica (2)
Biology of Reproduction (1)
Molecular Biology of the Cell (1)
Trends in Molecular Medicine (1)

THORNHILL, R.

American Naturalist (2)
Behavioral Ecology (4)
Evolution and Human Behavior (14)
Nature (7)
Proceedings of the Royal Society of London (5)
Science (5)

TURNER, T.F.

Bioscience (1)
Copeia (2)
Canadian Journal of Fisheries and Aquatic Sciences (2)
Marine Biology (1)
Molecular Ecology (1)
Molecular Phylogenetics and Evolution (1)
Transactions of the American Fisheries Society (1)
Vertebrate Life, 5th Edition (textbook)

VOGEL, K.G.

Journal of Orthopedic Research (6)
Tissue and Cell (1)
Medical Research Council of Canada (1)
Wellcome Trust (1)

WAGNER, A.

Science (1)
Nature Genetics (1)
Advances in Complex Systems (1)
Molecular Biology and Evolution (1)
Trends in Genetics (1)
Oxford University Press (1)
Proceedings of the Royal Society Series B (1)
Genome Research (1)

WERNER–WASHBURNE, M.

EMBO (1)
Gene (1)
Genetics (2 or 3)

VI. NON-TEACHING UNIVERSITY, COLLEGE AND DEPARTMENT SERVICE.

A. Symposia, Workshops, Conferences, Etc., Sponsored, Hosted, Organized.

BARTON, L.L.

International Steering Committee for Second International Biometals Symposium, Tuebingen, Germany, April 24-29.

Member of International Steering Committee for Third International Biometals Symposium, to be held in London, UK, April 10-15.

Member of International Advisory Committee, 10th International Symposium for Iron Nutrition and Interactions in Plants, Houston, TX, May 14-18.

Member of Organizing Committee for international conference "Power of Anaerobes," University of Georgia, Athens, GA, May 18-19.

Member of International Advisory Committee for the 11th International Symposium for Iron Nutrition and Interactions in Plants, to be held in Rome, Italy, June 2002.

DAHM, C.N.

Assisted with hosting (along with Manuel Molles, Jr.) the NRC Riparian Task Force at the Sevilleta National Wildlife Refuge, NM, January 30-31.

LI, B.-L.

The 15th International Association for Landscape Ecology (US-IALE) Symposium, Special Session on Development of Landscape Indicators, co-Chair, Ft. Lauderdale, FL, April 15-19.

LOWREY, T.K.

Local representative, Botany 2001 Organizing Committee, national organizing meeting, Albuquerque, October.

MOLLES, M.C. JR.

Hosted International Workshop: "Influences of Hydrologic Regime and Landscape Fragmentation on Riparian Biodiversity and Function along Environmental Gradients," Universidad de Vigo, Vigo, Spain, November 24-26. Participants included 12 scientists from 11 universities and research institutes from across Spain and Portugal.

NELSON, M.A.

Co-organizer (with Michael Plamann, University of Missouri), *Neurospora* 2000 Conference, Asilomar, CA, March 9-12.

Chair, Genomics, Evolution and Technology Workshop, *Neurospora* 2000 Conference, Asilomar, CA, March 9-12.

Co-organizer (with Sorin Istrail, Sandia National Laboratories, Mary O'Connell, New Mexico State University, and Norman Doggett, Los Alamos National Laboratory) and Chair, Genomics and Biotechnology Alliance Day of Talks, Albuquerque, NM, March 22.

SNELL, H.L.

Co-organized a workshop on Avian Diseases in the Galápagos Islands. Workshop held at Princeton University, October.

WERNER-WASHBURNE, M.

SW-GABA Day of Talks, Albuquerque, NM, March.

Presentation to editors of *Nature* magazine, Sevillera reception, September.

Joint CS/Biology seminar series #1, October.

B. Distinguished Departmental Visitors You Hosted.

CRIPPS, R.M.

Prof. J. Alan Rawls, Department of Biology, Arizona State University, Tempe, AZ

DAHM, C.N.

Dr. Kenneth Nealson, California Institute of Technology and the NASA Jet Propulsion Laboratory, 2000 Research Day speaker (co-host with many others), April.

Dr. Stanley Smith, University of Nevada–Las Vegas (co-host with James Cleverly)

Dr. Anna–Louise Reysenbach, Portland State University (co-host with Diana Northup)

Dr. Greg Burrell, University of Canterbury, Canterbury, New Zealand

GOSZ, J.R.

Dr. Michael Allen, San Diego State University

KODRIC–BROWN, A.

Dr. Bruce Turner, Virginia Polytechnic Institute, Blacksburg, VA

LI, B.–L.

Professor David Keller, Department of Chemistry, UNM, August 31.

LOWREY, T.K.

Dr. Robert Jansen, University of Texas, Austin, TX

Dr. Daniel Crawford, Ohio State University, Columbus, OH

SNELL, H.L.

Hernan Vargas, Ornithologist of the Charles Darwin Research Station, seminar speaker, November.

STRICKER, S.A.

Dr. Kenneth Nealson, California Institute of Technology, April.

THORNHILL, R.

Dr. Don Williams, Department of Biochemistry, Western Washington University, Seattle, WA, June–December, sabbatical leave in my laboratory.

Dr. Jacek Radwan, Fulbright Fellow from Poland, September–December.

VOGEL, K.G.

Ray Powell, (NM) Commissioner of State Lands, March.

WERNER–WASHBURNE, M.

John Zabriskie, former CEO of Upjohn–Pharmacia.

Bill Camp, Director, CS, Sandia National Laboratories (in ongoing seminar series I organized between CS and Biology)

C. Committee Service.

1. Departmental committees served on in 2000 (indicate chair with asterisk).

ALTENBACH, J.S.

*Graduation Committee
Undergraduate Policy Committee

BARTON, L.L.

Grove Scholarship Committee

BROWN, J.H.

*Graduate Student Selection Committee

CHARNOV, E.L.

*Graduate Student Selection Committee
Graduate Student Policy Committee
Graduate Student Advisor

CRIPPS, R.M.

*Departmental Seminar Committee
Graduate Policy Committee
Space/Building Committee
Grove Scholarship Committee
Biology Executive Committee
Comparative Immunobiology Search Committee

DAHM, C.N.

Biology Chair Executive Committee
Biology Library Liaison to CSEL
Animal Physiology Search Committee

DUSZYNSKI, D.W.

*Biological Society of New Mexico

FAGUY, D.M.

Graduate Student Selection Committee
Molecular Microbial Ecologist Search Committee

GOSZ, J.R.

Microbial Ecology Search Committee
*Grove Award Committee

KODRIC-BROWN, A.

*Annual Research Day Committee
Comparative Immunology Search

LI, B.-L.

Computer Facilities Committee
Graduate Student Selection Committee
Research Day Organizing Committee
Committee for NSF GRT in Ecological Complexity

LIGON, J.D.

*Space Committee, Fall
Grove Committee
Promotion/Tenure

LOKER, E.S.

*Comparative Immunobiology Search Committee
Space Committee
Biology Department Executive Committee

LOWREY, T.K.

Space Committee
Greenhouse Committee

MARSHALL, D.L.

*Greenhouse Committee
*Tenure and Promotion Committee
Graduate Policy Committee

MILLER, R.D.

Chair's Executive Committee
Comparative Immunology Faculty Search Committee
Graduate Student Selection Committee
Graduate Policy Committee
Departmental Website Oversight Committee

MOLLES, M.C. JR.

*Biology Undergraduate Policy, 1999–2000.

NATVIG, D.O.

Microbiology Committee
Space Committee
Faculty representative to curators meetings of the Museum of Southwestern Biology.

NELSON, M.A.

Library Liaison
* Undergraduate Policy Committee
* Microbiology Committee
* Microbiology Search Committee
Salary Committee

POCKMAN, W.T.

Greenhouse Committee, Spring and Fall
Undergraduate Curriculum, Fall
Computer Committee, Fall
Field Vehicle Committee, Fall
Anatomy and Physiology Instructor Search Committee, Summer

SNELL, H.L.

Departmental committee on policies for field trips.

STRICKER, S.A.

*Annual Research Day
Executive Committee
Scholarships
Search committee: System Administrator

THORNHILL, R.

*Graduate Policy Committee

TOOLSON, E.C.

Animal Physiologist Search Committee
Annual Research Day Committee
Computer Usage Committee
* Brown Bag Seminar
* Departmental Seminar

TURNER, T.F.

MSB Executive Committee
Graduate Student Selection Committee
Graduate Policy Committee
Biology Department Executive Committee
Annual Research Day Committee

WAGNER, A.

Microbial Ecologist Search Committee
Computer Facilities Committee

WERNER–WASHBURNE, M.

Chair's Executive Committee
*Physiology Search Committee
Molecular Microbial Evolution Search Committee
Graduate Policy Committee
Built microarrayer, in collaboration with George Davidson from Sandia National Laboratories.

2. **College/University committees served on in 2000 (indicate chair with asterisk).**

BARTON, L.L.

Admissions and Registration Committee

BROWN, J.H.

Annual Research Lecture Committee, UNM

CRIPPS, R.M.

Radiation Control Committee
Faculty Senate Committee
COBRE Evaluation Committee, UNM
COBRE Evaluation Committee, State of New Mexico
Developmental Biology Search Committee, Department of Cell Biology, UNMHSC

DAHM, C.N.

Graduate Advisors' Committee, College of Arts and Sciences

FAGUY, D.M.

University Biosafety Committee

GOSZ, J.R.

Government Relations Officer Search Committee (V.P. for Institutional Advancement Office).

UNM Federal Priorities Committee (chaired by V.P. for Institutional Advancement Office).

KODRIC–BROWN, A.

Research Policy
Research Allocations
DoD Instrumentation and Research Support for HBCU/MI

LI, B.–L.

UNM Research Allocations Committee
UNM Scientific and Engineering Computation Program Committee

LIGON, J.D.

A&S Senior Promotion Committee

LOKER, E.S.

UNM Animal Care Committee

NELSON, M.A.

SEC Program Committee
AHPCC Associated Faculty Group (charter member)
A&S Junior Faculty Promotion and Tenure Committee, 1999–2001
Protein Chemistry Laboratory Advisory Group (UNM Medical School)
Genomics Facility User Group (UNM Medical School)
A&S Academic Administrator III Search Committee
A&S Undergraduate Representative for Dept. of Biology
Whitaker Review Committee

SNELL, H.L.

Latin American Travel Grant Committee

STRICKER, S.A.

Undergraduate Policy
Undergraduate Advisors Committee

VOGEL, K.G.

University Search Committee for Vice Provost for Research

University Search Committee for Dean, College of Arts and Sciences

University Strategic Planning Working Committee—Graduate and Professional Education
College of Arts and Sciences Planning Committee

WERNER-WASHBURNE, M.

Provost's Strategic Planning Committee on Diversity
Numerous limited-competition grant committees for the Office of Research
EPSCoR Steering Committee

D. **Other.**

GOSZ, J.R.

Special Assistant to the Office of the Vice Provost for Research.

LI, B.-L.

Advisor, The Royal Netherlands Academy of Art and Science's Tropical Biodiversity Program (led by Prof. M.J.A. Werger, Academician).

LOWREY, T.K.

Biology Dept. Coordinator, Construction of Museum of Southwestern Biology/Media Arts Building.

Coordinator, Museum of Southwestern Biology re-location, December.

NATVIG, D.O.

Co-director, UNM Initiatives for Minority Student Development (IMSD).

NELSON, M.A.

Mentored one undergraduate student (Paul Romo) in the UNM Research Opportunity Program, Summer.

Mentored three undergraduate students (Diego Martinez, Christina Flores and Gabriel Quinones) in the Initiative for Minority Student Development (IMSD) NIH Program.

Mentor for a Regents' Scholar (Elizabeth Patrick).

POCKMAN, W.T.

Graduate Student Committees:
- Laura Boykin (passed prelims April 2000)
- Jon–Paul Oliva (graduation May 2001)
- Jerusha Reynolds (prelims January 2001)

Undergraduate Student Research Advising:
- Roberto Lopez (will graduate with honors, 2001)
- Heather Simpson (graduated with honors, 2000)
- Anna Tyler (graduation 2001)

Honors Theses Reviewed:
- John Haskell (graduated with high honors, 2000).

Student References Written:
- Kim Hinds (Biol. 121 student)
- Olin Wallis (Biol. 121 student)

VOGEL, K.G.

Chair, Department of Biology, UNM

WERNER–WASHBURNE, M.

Interim Director, Southwest Genomics and Biotechnology Alliance.

VII. ADVANCED STUDY AND NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

DUSZYNSKI, D.W.

Received the UNM, College of Arts & Sciences, Fall 2000 Senior Research Semester Award.

LI, B.–L.

Guest Professor, "in recognition of outstanding contributions to systems ecology," Chinese Academy of Sciences, elected in October 2000.

MOLLES, M.C. JR.

Awarded sabbatical fellowship from the Ministry of Education and Culture of Spain for sabbatical leave support during 2000–2001. Project: study "The Influence of Hydrologic Regime and Fragmentation on Riparian Forest Ecosystem Biodiversity and Processes" and build a network of riparian research across Spain and Portugal.

Ecology text recognized as "Most Successful New Title in Science, Engineering and Mathematics," by McGraw–Hill publishers.

NELSON, M.A.

UNM Regents' Lecturer Award, 2000–2003.

VIII. SABBATICALS, LEAVES OF ABSENCE, SUMMER TEACHING ELSEWHERE, TRAVEL, ETC., DURING THE PERIOD.

DUSZYNSKI, D.W.

Traveled to the following places on some aspect of teaching, research or professional service:

- Belize, Central America (teaching)
- Halifax, Nova Scotia (service)
- Lake Texoma, OK (research)
- San Juan, Puerto Rico (service)

GOSZ, J.R.

Traveled to Canada, Slovakia, Ukraine, Hungary.

LI, B.–L.

Summer collaborative research in Germany and the Netherlands.

LOKER, E.S.

On sabbatical Spring 2000 semester. Mostly I was at home writing book chapters.

Travel: went on a three-week collecting trip to Puerto Rico, Dominica, Guadeloupe and Venezuela, Spring.

LOWREY, T.K.

Biol. 461L, Introduction to Tropical Biology traveled to Belize, March.

MARSHALL, D.L.

Spring: Sabbatical leave in Santa Barbara, CA.

MOLLES, M.C. JR.

Sabbatical leave, Visiting Professor, Area de Ecologia, Facultad de Ciencas, University of Vigo, Vigo, Spain, October 2000–July 2001.

Visiting Professor, University of Montana, Flathead Lake Biological Station, Polson, MT, June–July 2000.

SNELL, H.L.

Re-assignment to the Charles Darwin Research Station (CDRS) as Program Leader for Vertebrate Restoration Ecology and Ecological Monitoring under collaborative agreement between Department of Biology and the CDRS.

TURNER, T.F.

Traveled to Venezuela January 15, 2000–February 6, 2000 to conduct field component of a population genetic study of migratory fishes in the Rio Orinoco Basin, funded by the National Geographic Society (see III.A.2).

YATES, T.L.

Director, Division of Environmental Biology, National Science Foundation, Washington, DC.

IX. PUBLIC SERVICE.

CRIPPS, R.M.

TV interview for Channel 13 News, on Human Genome Project.

Muscular Dystrophy Association Research Dinner.

DAHM, C.N.

Member of the 1) Bosque Hydrology Group, 2) Technical Advisory Committee of Middle Rio Grande Water Board, and 3) the Kissimmee River Restoration External Advisory Committee.

Nevada EPSCoR Review Panel, April 12.

NSF IRC-EB Review Panel, May 18-19.

DUSZYNSKI, D.W.

Albuquerque Public Schools, Manzano High School. Assisted on a field trip for gifted students.

FAGUY, D.M.

Mentored a high school science project.

KODRIC-BROWN, A.

Helped design Science Fair projects for two high-school students.

LI, B.-L.

Advisor, The NM High School Regional Supercomputer Challenge.

Mathematical and statistical consulting for U.S. EPA Landscape Ecology Branch.

LOWREY, T.K.

Answered 21 inquiries for botanical information.

MOLLES, M.C. JR.

Trustee, New Mexico Chapter of the Nature Conservancy, 1995–present.

NELSON, M.A.

Lead Judge for the 2000 National Native American Science and Engineering Fair

Court appointed Special Advocate (addressing child abuse and neglect)

POCKMAN, W.T.

Interviewed for *Albuquerque Journal* story on fall color and drought, article by Karen Peterson appeared September 30, 2000, Metro and New Mexico section.

Offspring production-Ed piece on climate change in New Mexico (with C.N. Dahm, Gutzler and R. Parmenter), published by *Albuquerque Tribune*, November 18, 2000, front page of Insight and Opinion section.

SNELL, H.L.

Constant activity promoting the conservation of the Galápagos archipelago.

THORNHILL, R.

Advisory board of New Mexicans for Science and Reason.

KNME-TV show on my research.

Research featured on the "Today Show," the "Morning Show," "CNN Live," "CNN International," BBC, National Public Radio, "Dateline" NBC, many other TV and radio broadcasts in USA and Europe.

TURNER, T.F.

Research featured on "UNM Connections," produced by KNME-TV.

Museum move and NSF grant featured in the *Daily Lobo* and the *Albuquerque Journal*.

WERNER–WASHBURNE, M.

I have done a lot of public service in the past year. I advise about 15 undergraduate and graduate students. I am known around campus as the Native American Student Faculty Advisor in Biology. I worked very hard to try to bring genomics to UNM and brought the microarrayer and soon the high throughtput PCR to the department.

COLLEGE OF ARTS AND SCIENCE
THE REPORT OF THE DEPARTMENT OF CHEMISTRY

July 1, 2000 to June 30. 2001

Thomas M. Niemczyk, Chair

Significant Developments During the Academic Year, 2000-2001

New Inorganic Faculty Some years ago the Chemistry department made the decision that it would never be large enough to be strong in all traditional areas of chemistry, but by focusing on a couple of areas programs of real strength could be developed. The goal is to develop areas that are competitive with the best in the country. The department will maintain the traditional divisions of analytical, inorganic, organic, and physical chemistry for serving the department's teaching needs, but focus new hires into two research areas broadly defined as biological chemistry and materials chemistry. The area of biological chemistry was chosen because of existing strength in the department, as well as the presence of numerous active researchers on the north campus. The emphasis on materials chemistry was chosen to take advantage of potential interactions in the local, specifically at Sandia. The department is still fully committed to this concept and has conducted all searches over the last few years with these research areas as the guide.

All of the traditional divisions of the department were critically short of faculty in order to carry out the teaching mission of the department at the end of the 1999/2000 academic year. Since that time, three inorganic chemists have been added to that division. Richard Watt joined the faculty in August of 2000 and David Tierney joined the faculty in January of 2001. Both Richard and David are assistant professors and both are bioinorganic chemists. Associate Professor Marty Kirk is also a bioinorganic chemist. These three chemists have nicely complimentary research areas and together represent an exceptional concentration of bioinorganic research that fits well within the general department goal of establishing biological chemistry as an area of strength.

The department, with the help of A&S, was also able to take advantage of a situation that will greatly impact our strength in the area of inorganic materials chemistry. Richard Kemp, a very successful and well known chemist, agreed to join the department in a half time capacity as

a professor of Chemistry. The position Rick has accepted is a joint position with Sandia. His Sandia appointment is in a materials chemistry group that is located at the Advanced Materials Laboratory. He is in an ideal position to act as the focal point for interactions between the chemistry faculty with materials oriented interests and the scientists at Sandia.

The inorganic division is now up to 4.5 FTEs. It is our only division with a sufficient number of faculty members to cover the classes that are a necessary part of the undergraduate curriculum, as well as conduct a reasonable graduate program. Indeed, they now have enough faculty that they can occasionally participate in the general chemistry program.

Hua Guo Promotion In the fall of 2000 Hua Guo was recommended by the department for promotion to full professor in chemistry. His promotion was endorsed by the College and the Provost. Professor Guo is a theoretical chemist with a very strong research program. He also contributes very strongly to the teaching mission of the department.

Analytical Search A search for an assistant professor of analytical chemistry was initiated in the fall of 2000. Four applicants were interviewed in January of 2001, and the department voted that two of them would make good colleagues. The initial offer was made to Dr. Shigeru Amemiya. Dr. Amemiya received his PhD at the University of Tokyo and then spent a year as a Postdoctoral researcher at the University of Texas. His area of research is electrochemistry with emphasis on the study of membrane transport in biological systems. Dr. Frank Zamborini, the second of the candidates, received his PhD at the University of Texas and then spent a year as a Posdoctoral fellow at the University of North Carolina. Dr. Zamborini's research interests were in the production and characterization of novel single molecular layer materials. Dr. Amemiya had several job offers including offers from the University of Pittsburgh and the University of Alberta. He ultimately accepted the offer from the University of Pittsburgh. By the time Dr. Amemiya had decided to accept the offer at the University of Pittsburgh Dr. Zamborini had also accepted another offer. The Department did not think that the other candidates who were interviewed were acceptable, nor did the department feel that there were any additional candidates remaining in the original pool that were worth interviewing.

The Department requested that the search remain open, and a new round of advertising was initiated. Much more effort was made by the faculty to make personal contacts with

individuals that might know of potential candidates. A new pool of candidates was generated with several having credentials that were as good as, or even better, than those examined in the first go around. Four candidates were interviewer over the summer and two were judged to be outstanding. The department in negotiations with the Dean, traded in a job that had been approved for the 2001/2002 year. Two offers were made and one has been recently accepted by Dr. John Engen who is currently a posdoctoral fellow at Los Alamos. Dr. Engen is an analytical chemist who uses mass spectroscopy to study protein folding, hence will be a strong addition to the biological chemistry group.

Graduate Recruitment The Chemistry Department works very hard and devotes significant resources to the recruitment of highly qualified graduate students. The quality of the graduate students directly affects both the teaching and the research missions of the department. Virtually all graduate students enter the department as teaching assistants. After the first year in the department many switch to research assistantships, but some remain teaching assistants for much longer. The effectiveness the laboratory instruction in the department is directly dependent on these students. Likewise, bright motivated and well trained students make the best researchers. There are a large number of well trained Asian students attempting to enter US graduate schools every year and Chemistry has had to accept more of these students than we consider desirable just to have enough students to fulfill the teaching mission of the department. As a general rule these students are very well trained in the fundamentals of chemistry, but not so well prepared in English communication skills. Often, the lack of communication skills hampers their effectiveness as teaching assistants.

Phil Hampton took over the chairmanship of the department's Graduate Recruitment and selection committee in the fall of 2000. This is generally considered the most important service position in the department, and without a doubt the most work. Phil put a tremendous amount of effort into the development of a online application process, whereby an interested student could quickly fill out an online form and just click a button and the application process was initiated. The result of his efforts was that we received many more application from qualified American students than we had received in more than a decade. We also were able to get more of them to accept our offers than had in many, many years. The incoming graduate class in the fall of 2001 consisted of 18 students, 9 of which were domestics. Based on the performance of these students

so far, e.g. On the proficiency exams, these students are far better prepared than any group we have seen in a very long time. Because Phil Hampton accepted a position at another university starting in the fall of 2001, the leadership of the graduate recruitment Committee has been passed to Mary Kirk.

The number of applicants to make TA offers to each year is always somewhat of a guessing game in Chemistry. It is difficult to predict what fraction of offers extended will be accepted. Even then, every year it seems that a couple of students who had signed TA contract don't show up in August. Further, it also difficult to get an exact number of the students that will be supported on research assistantships, at least in a timely fashion. Generally, the department makes offers aggressively and even so come August a number of undergraduates must be hired as teaching assistants to cover all the laboratory sections. This year, we are experiencing just the opposite. Two professors that runs a large research group had to place 9 students into teaching assistantships midway through the summer. The admissions committee try to avoid such problems by repeated queries during the spring semester asking all professors how many students in their research groups would require support as teaching assistants. With this large number of students unexpectedly placed in teaching roles, the department is faced with supporting a larger number of students as teaching assistants than we have funded positions for. We are hoping that we can cut back in the spring semester to balance the over commitment in the fall. We generally admit 2-3 new students in the spring, but will not do so in the Spring of 2002. Further, it is likely some of the faculty will be able to support additional students as research assistants in the spring.

Curriculum Evaluation The shortage of faculty in chemistry makes it impossible to cover all of the courses in the undergraduate curriculum and, at the same time, offer enough courses at the graduate level to have a reasonable graduate program. It is extremely difficult to get competent part time faculty in chemistry. The necessary use of part time faculty in the general chemistry program has had a significant negative impact. The shortage of faculty has many causes, and the college has been very helpful in attempting to rebuild the faculty. Even given fairly optimistic hiring scenarios the department will likely not grow significantly over the next five years or so because of likely retirements.

With this in mind the department has begun a careful evaluation of the entire chemistry curriculum. The effort is being guided by a committee headed up by Cary Morrow. The charge to the committee is to find ways in which we can build efficiency into the curriculum so that a high quality program of instruction can be carried out with fewer faculty members. In particular, we want to be able to move more tenure track faculty into the general chemistry program where a very large number of students are impacted by the quality of instruction.

Significant Plans and Recommendations for the Near Future

Chemistry Faculty The rate of hiring new faculty into the chemistry department needs to be increased. The Chemistry faculty is critically short of faculty. There are not enough faculty in any of the divisions, with the recent exception of the inorganic division, to teach the courses that make up the undergraduate curriculum and offer a reasonable curriculum at the graduate level. The UNM chemistry department has the smallest faculty of any of our peer institutions. Further, there are a significant number of the current chemistry faculty who will likely retire within the next five years. If the hiring rate in chemistry stays the same over the next five years as it has over the last decade, the department will remain at about the same size as we are now, i.e. critically under staffed. The shortage of faculty impacts all phases of the department's mission. This includes our ability to offer quality instruction at the undergraduate level, especially in the general chemistry program, and offer reasonable graduate level programs. It affects our ability to attract good graduate students, which impacts both the teaching and research missions of the department.

The A&S Dean has been understanding and supportive of the situation in chemistry. The limitation in the hiring rate of chemistry faculty is the large set up package that must be offered to candidates if the offer is to be at all competitive. If the hiring rate in chemistry is going to be increased the University will have to provide more help with the set up packages.

The University must recognize that dependence on part time instructors to make up for insufficient numbers of full time faculty is not an appropriate choice for the chemistry department. This mode of operation might work well in some departments where there is a pool of qualified people willing to assume part time teaching roles. There is no pool of chemists in the Albuquerque area that we can rely on. The national rate of unemployment of chemists is less

than 2%, and most of the unemployed are probably unemployed by choice. We have, on occasion, had to advertise for part time instructors. Many times we have received no applications, e.g. for the 2001 summer session we had no applications for two positions. When we have had to hire part time instructors the quality of instruction is adequate at best, and in the majority of cases has been less than adequate. The fact that we have had to rely on part time instructors to cover significant parts of the general chemistry courses has caused those courses to suffer.

There are potential solutions to the lack of an adequate number of faculty that could be explored. For example, we have had success in getting good instructors by hiring teaching postdocs. These hires have involved a national search and salaries of about $30000/year, hence are significantly more expensive than are part time instructors, but considerably less expensive than tenure track faculty (no set up package). Teaching postdocs can be used to augment the full time teaching faculty, but cannot be relied on to run programs. That is, we cannot rely on any kind of temporary faculty to run the general chemistry program.

The Faculty Search Process The analytical search discussed above is typical of the situation generally faced by the chemistry department. We seem to be able to attract applications from the few top quality candidates that are on the job market in any given year. These few candidate generally get several job offers and we sometimes get out bid, especially when it comes to the set-up package. In many cases the offer we can make is competitive, but the candidate might choose to accept another offer for any number of reasons. The message is that it is difficult to hire top quality chemists, there are too few in any given year to fill the academic jobs available, and the competition for their services is keen. We had hoped that by continuing the search and attracting a few good applications that were out of phase with the normal hiring season that we might be more successful in getting a good candidate to accept our offer. That proved to be the case and we will request that all searches initiated by the Chemistry Department be open ended so that we may continue to look for good candidates if we fail to hire someone in the normal interviewing season.

There is a strong feeling in the Chemistry Department that we could be more successful in the "normal" hiring season if we could proceed through a search process with greater speed. From the point where we are given permission to initiate a search it invariably seems that it is

January before we can conduct any interviews. By that point some candidates have accepted positions, and those good ones remaining are able to pick from a number of offers. If we could streamline the process, perhaps get started sooner, and interview in earlier in the year, for example in the first half of November, we might not be faced with the level of competition that we face after the first of the year.

Planned or Ongoing Searches The chemistry department has just initiated a search for an assistant professor of organic chemistry. If this position is successfully filled the new hire will replace Paul Papadopoulus in the teaching of organic chemistry. Paul retired a year ago, but committed to continue to teach through this academic year. Thus, the department will only stay even in terms of teaching power if the search is successful.

The analytical search that was extended into the summer of 2001 resulted in successfully filling one of the two positions available. The department should be allowed to continue to try to fill the second analytical position.

Chemistry 131/132 The chemistry department use to teach an accelerated general chemistry course targeted to talented and well trained students. This course was very successful, but was dropped from the curriculum because of the shortage of faculty. It was last taught four years ago, and then only for one year. It had not been taught for two or three years prior to that offering. At graduation last May we had eighteen BS majors graduate, a significant increase in the number of BS majors over the prior couple of years. More than half of the graduating BS majors had taken the 131/132 sequence. This course sequence needs to be made a permanent part of the general chemistry program. We need the ability to offer a high-quality challenging course to the best 10-15% of the students taking general chemistry. This is, of course, an issue that involves having an increased number of chemistry faculty.

Space The chemistry department has been hampered by a shortage of quality space for the last fifteen years or so. The University has recognized the problem and a number of scenarios for making new high-quality space for the chemistry department have been advanced. Planning funds were provided for a couple of different projects, but the plans for new space have not gotten past the planning stage. (For a more detailed discussion of the various projects to

address this problem that have been discussed see the 1999-2000 annual report of the chemistry department.) The situation today is that we have the space to accommodate two new hires. Perhaps an additional person could be accommodated in the building by forcing current faculty to give up currently occupied space. One of the laboratories that is available is in very poor condition. The hoods don't work, the benches are ancient, the lab is very dusty, etc. This is hardly something that you want to show to a potential faculty member when they are here on an interview. This particular lab will require a great deal of renovation just to be made safe.

The only reason the chemistry department has not been totally limited by the lack of space, not even considering that much of our space is inadequate for modern chemical research, is that the number of faculty in the department is less today than ten years ago. If we simply fill the open analytical position not filled last year and the organic position for which we have initiated a search the building will be full. Some of the older faculty who might retire in the next five years have no laboratory space. The consequences of such retirements are that we will loose considerable teaching power while not freeing up any space for their replacements.

Given the long lead time for any building project it is absolutely imperative that the University aggressively pursue additional high quality space for the chemistry department.

Graduate Recruitment As discussed above, there is a shortage of domestically trained undergraduates in chemistry. Nationally, domestically trained students make up under 60% of the graduate students in graduate programs in chemistry. Thus, competition for well prepared and motivated graduates is keen. The stipends that we can offer to applicants lag those offered by neighboring institutions. In general, we ask our teaching assistants to work more hours than neighboring institutions. The chemistry department is committed to working hard at graduate recruitment, and will devote significant resources to the recruitment effort. The recruitment of good graduate students will directly affect the quality of instruction in chemistry, and the quality of research carried out in the department. The University could impact the recruitment effort by working to keep the teaching assistant stipends and work loads in chemistry competitive with those of the neighboring institutions.

Appointments to Faculty/Staff

Richard Watt, Assistant Professor, Start Date: 8/14/00

David Tierney, Assistant Professor, Start Date: 1/08/01

Richard Kemp, Professor (half time appointment, shared with Sandia), Start Date: 8/07/01

Fred Fuchs, Research Engineer II, Start Date: 7/02/01

Todd Allen, Lecturer, Start Date: 8/01/00

Li Qui-Gresham, Lecturer, Start Date: 8/13/01

Faye Whittington, Administrative Assistant II, Start Date: 9/18/00

Barbara Welsh, Accountant II, Start Date: 11/07/00

Andre Straumanis, NSF Teaching Fellow, Start Date: 8/13/01

Separations of Faculty/Staff

Phil Hampton, Associate Professor, Separation Date: 6/30/01

Fritz Allen, Professor, Separation Date: July 1, 2001 (Fritz left the department to assume the position of Acting Dean of A&S)

Mark Ondrias, Professor, Separation Date: 12/31/00 (Mark assumed the position as Assistant Dean of University College. This is a 0.75 FTE position, thus he is still 0.25 FTE in chemistry.)

Todd Allen, Lecturer, Separation Date: 5/12/01

Andre Straumanis, NSF Teaching Fellow, Separation Date: 5/12/01

Hoshang Amir Shavar, Research Engineer II, Separation Date: 8/31/00

Leonard Soblick, Accountant II, Separation Date: 8/11/00

Karen Schellenberger, Editorial Tech, Separation Date: 4/05/00

Julie Harris, Administrative Assistant III, Separation Date: 7/27/00

Publications of the Division

Deck, Lorraine

D.L. Vander Jagt, L.M. Deck and R.E. Royer, "Gossypol: Prototype of Inhibitors Targeted to Dinucleotide Folds," Curr. Med. Chem., 2000, 7, 479.

L.M. Deck and E.P. Papadopoulos, "A Convenient Preparation of 1,3-Disubstituted Dihydro-2,4-(1H,3H)pyrimidinediones," J. Heterocyclic Chem., 2000, 37, 675.

Patents:

LM Deck and DL Vander Jagt, Inhibitors of Cholesterol Esterase, US Patent 6,034,255 (2000).

LM Deck and DL Vander Jagt, Inhibitors of Cholesterol Esterase, US Patent 6.114,545 (2000).

DL Vander Jagt, LM Deck and RE Royer, Hydroxynaphthoic Acids, US Patent 6,124,498 (2000).

Enke, Christie G.

J. Zhang, B. Gardner and C.G. Enke, "Simple Gridless Ion Mirror," J. Am. Soc. Mass Spectrom., 2000, 11, 765.

J. Zhang and C. G. Enke, "Simple Cylindrical Ion Mirror with Three Elements," J. Am. Soc. Mass Spectrom., 2000, 11, 759.

M. Amad, N. Cech, G. Jackson and C. G. Enke, " Importance of gas-phase proton affinities in determining the electrospray ionization response for analytes and solvents," J. Mass Spectrom., 2000, 35, 784.

T. Constantopoulos, G. Jackson and C. G. Enke, "Challenges in Achieving a fundamental model for ESI," Anal. Chim Acta, 2000, 406, 37.

N. Cech and C. G. Enke, "Relating electrospray ionization response to nonpolar character of small peptides," Anal. Chem., 2000, 72, 2717.

Book:

"The Art and Science of Chemical Analysis" Published by John Wiley and Sons, New York. ISBN 0-471-37369-9.

Guo, Hua

D. Xie, H. Guo, Y. Amatatsu and R. Kosloff, "Three-dimensional photodissociation dynamics of rotational state selected methyl iodide," J. Phys. Chem., 2000, 104, 1009.

D. Xie and H. Guo, "Dynamics of rare gas desorption from Pt(111) induced by photogenerated hot oxygen atoms," Surf. Sci., 2000, 447, 219.

G. Ma and H. Guo, "Barrier crossing in a dissipative environment: a density matrix treatment of STM-induced atom transfer dynamics," Chem. Phys. Lett., 2000, 317, 315.

D. Xie, R. Chen and H. Guo, "Comparison of Chebyshev, Faber, and Lanczos propagation-based methods for calculating resonances," J. Chem. Phys., 2000, 112, 5263.

B. Parsons, L. J. Butler, D. Xie and H. Guo, "A combined experimental and theoretical study of resonance emission spectra of $SO_2(C_1B_2)$," Chem. Phys. Lett., 2000, 320, 499.

R. Chen, G. Ma and H. Guo, "Full-dimensional quantum calculation of the vibrational energy levels of hydrogen peroxide (HOOH)," Chem. Phys. Lett., 2000, 320, 567.

H. Guo and G. Ma, "Effect of vibrational relaxation on DIET: A density matrix treatment," Surf. Sci., 2000, 451, 7.

D. Xie, H. Guo and K. A. Peterson, "Accurate ab initio near-equilibrium potential energy and dipole moment functions of the ground electronic state of ozone," J. Chem. Phys., 2000, 112, 8387.

D. Xie, H. Guo, O. Bludsky, and P. Nachtigall, "Absorption and resonance emission spectra of SO_2 (X_1A1/C_1B_2) calculated from ab initio potential energy and transition dipole moment surfaces," Chem. Phys. Lett., 2000, 329, 503.

Kirk, Martin L.

R. L. McNaughton, M. E. Helton, N. D. Rubie and M. L. Kirk, "The Oxo-gate Hypothesis and DMSO Reductase: Implications for a Psuedo-s Bonding Interaction Involved in Enzymatic Electron Transfer," Inorg. Chem., 2000, 39, 4386.

R. L. McNaughton , A. A. Tipton, R. R. Conry and M. L. Kirk, "Electronic Structure Studies of Oxomolybdenum Tetrathiolates: Origin of Reduction Potentials and Relationship to Cysteine-Oxomolybdenum Bonding in Enzymes," Inorg. Chem., 2000, 39, 5697.

M. E. Helton, A. Pacheco, J. McMaster, J. H. Enemark and M. L. Kirk, "An MCD Spectroscopic Study of the Molybdenum Active Site in Sulfite Oxidase: Insight into the Role of Coordinated Cysteine," J. Inorg. Biochem., 2000, 80, 227.

M. E. Helton, N. Gruhn, R. McNaughton and M. L. Kirk, "Control of Oxo-Molybdenum Reduction and Ionization Potentials by Dithiolate Donors," Inorg. Chem., 2000, 39, 2273.

Mariano, Patrick S.

S. J. Cho, R. Ling and P.S. Mariano, "A Versatile Approach to the Synthesis of Mannostatin A Analogs," J. Org. Chem., 2000, 65, 1574.

C. Chen and P.S. Mariano, "An Oxidative Prins Cyclization Methodology," J. Org. Chem., 2000, 65, 3252.

X. Cai, V. Chang, C. Chen, H-J. Kim and P.S. Mariano, "A Potentially General Method to Control Relative Stereochemistry in Enone-Olefin 2+2-Photocycloaddition Reactions by Using Eniminium Salt Surrogates," Tetrahedron Lett., 2000, 41, 9445.

Paine, Robert T.

E.A. Pruss, G.L. Wood, W.J. Kroenke and R.T. Paine, "Aerosol Assisted Vapor Synthesis (AAVS) of Spherical Boron Nitride Powders," Chem. Mater., 2000, 12, 19.

M.P. Wilkerson, C.J. Burns, R.T. Paine and B.L. Scott "Synthesis and Structure of Tetrakis(2,6-dichlorophenoxide)bis(THF)Uranium(IV)" J. Chem. Crystall., 2000, 30, 7.

M.P. Wilkerson, C.J. Burns, H.J. Dewey, J.M. Martin, D.E. Morris, R.T. Paine and B.L. Scott, "Basicity of Uranyl Oxo Ligands upon Coordination of Alkoxides" Inorg. Chem., 2000, 39, 5277.

X.-M. Gan, S. Parveen, W.L. Smith, E.N. Duesler and R.T. Paine, "Synthesis, Characterization and Coordination Chemistry of a New Structurally Hindered Trifunctional Ligand, 4,5-Bis(diphenylphosphino)-sym-octahydroacridine N,P,P′-trioxide," Inorg. Chem., 2000, 39, 4591.

E.M. Bond, E.N. Duesler, R.T. Paine, M.P. Neu, J.H. Matonic and B.L. Scott, "Synthesis and Molecular Structure of a Plutonium (IV) Coordination Complex: $[Pu(NO_3)_2\{2,6\text{-}[(C_6H_5)_2P(O)CH_2]_2\ C_5H_3NO\}_2](NO_3)_2\cdot 1.5H_2O\text{–}0.5MeOH$," Inorg. Chem., 2000, 39, 4591.

E.M. Bond, E.N. Duesler, R.T. Paine and H. Nöth, "Isolation and Structure of a Europium (III) Chloride Complex of 2,6-Bis{(Diphenyl phosphino)methyl]pyridine N,P,P′ Trioxide," Polyhedron, 2000, 19, 2135.

T. Chen, E.N. Duesler, H. Nöth and R.T. Paine, "Synthesis and Coordination Behavior of a Zirconocene Bis(Borylphosphane)," J. Organometal. Chem., 2000, 614-615, 99.

Shelnutt, J. A.

R. Franco, J.-G. Ma, Y. Lu, G.C. Ferreira and J.A. Shelnutt, "Porphyrin Interactions with

Wild Type and Mutant Mouse Ferrochelatase," Biochemistry, 2000, 39, 2517.

C.M. Muzzi, C.J. Medforth, K.M. Smith, S.-L. Jia, and J.A. Shelnutt, "Synthesis and Characterization of a Chiral Nonplanar Porphyrin," Chem. Commun., 2000, 131.

A. Abdelouas, W. L. Gong, W. Lutze, R. Franco, I. Moura and J. A. Shelnutt, "Using Cytochrome c_3 To Make Elemental Selenium Nanowires," Chem. Mater., 2000, 12, 1510.

J. A. Shelnutt, "Molecular Simulations of Porphyrins and Heme Proteins," J. Porphyrins Phthalocyanines, 2000, 4, 386.

Books:

"Molecular Simulations and Normal-Coordinate Structural Analysis of Porphyrins and Heme Proteins" Shelnutt, J. A., The Porphyrin Handbook: Vol 7: Theoretical and Physical Characterization, Eds. Kadish, K. M.; Smith, K. M.; Guilard, R. (Academic Press: New York) Chpt. 50, 167-223 (2000).

"Molecular Dynamics Simulations of Carbonmonoxy Myoglobin and Calculations of Heme Circular Dichroism" Woody, R. W.; Kiefl, C. Sreerama, N.; Lu, Y.; Qiu, Y.; Shelnutt, J. A. in Insulin and Related Proteins – from Structure to Function and Pharmacology, Federwisch, M.; Dieken, M. L., Eds. (Kluwer Academic Publishers, Dordrecht, The Netherlands), 2000.

Patents:

"Nickel Porphyrins for Memory Optical Applications" U.S. Patent No. 6,117,369 (Sept. 12, 2000) Shelnutt, J. A., Jia, S.-L., Medforth, C. J., Holten, D., Nelson, N. Y., Smith, K. M.

Outside Professional Activities of the Faculty Members

Almost all of the faculty in chemistry have participated in national/international meetings during the year. Most of the faculty list multiple contributions to these meetings in the form of submitted talks. These have not been listed here (they are listed in the Supplement to the Biographical Record). The talks listed here are only those that were invited (expenses paid) or plenary lectures given at meetings. Awards won by the Chemistry faculty are also included.

Debra Dunaway-Mariano

Presented the Ethyl Ashworth-Tsutsui Memorial Lecture at Texas A&M
Presented the plenary lecture at the Pacific Basin Chemical Society Meeting in Hawaii

Debra Evans

Camille Dreyfus Teacher-Scholar award
The outstanding teacher of the Year Award 1999-2000
The Wiley International Quantum Chemistry Award

(for young investigators) which was coupled to a plenary lecture at the Sanibel symposium.

Hua Guo

Invited presentation at the 2000 Telluride Summer Workshop on Intramolecular Dynamics

Marty Kirk

Invited talk, Thermally Driven Intramolecular Charge Transfer in New Paramagnetic Metal Complexes, presented at the International Conference on Molecular Magnetism, San Antonio, Texas 4/16/00

Invited talk, A Molecular Level Description of Electron and Atom Transfer in the Pyranopterin Molybdenum enzymes - presented at the Metals in Biology Gordon Conference, Oxnard, California 1/00.

Patrick Mariano

Plenary lecture in the Symposium on Organic Photochemistry at Pacifichem 2000, Honolulu, Hawaii.

Tom Niemczyk

Invited presentation at PITCON 2000 in New Orleans, LA.

The following section lists activities that involve service to the University(outside the department), community, or profession. All of the research active faculty list reviewing papers and proposals on their biographical supplements for the calendar year 2000. These are not listed here, even though the peer review process is the critical parameter in judging ones work or ideas against those of the chemistry community. I did include a listing of those faculty members who participated in a review panel during the year 2000, as participation on a panel is often a great deal of effort and does result in exposure.

Jim Brozik: Presented two talks at other universities and organized a symposium for the 56th Northwest Regional ACS meeting.

Lorraine Deck: Advisory board member for Western Alliance to Expand Student Opportunities, Chair UNM Teaching Allocations Committee, Advisory board member for MARC, Faculty search committee member for the College of Pharmacy.

Debra Dunaway-Mariano: Associate Editor for Bioorganic Chemistry, gave one lecture at another university.

Chris Enke: Immediate past president of the American Society of Mass Spectroscopy, member of the search committee for the A&S dean.

Debra Evans: Member of two committees at AHPCC, member of the User Alliance board for the National Computational Science Alliance, member of the Science and Engineering Certificate recruitment committee.

Hua Guo: one lecture at another university, member of two committees at AHPCC.

Phil Hampton: presented two talks at other universities, faculty senate member.

David Keller: presented talks in Biology and Physics, member review committee for Molecular Biophysics at NSF, two NIH site visits.

Marty Kirk: five talks at other universities, member A&S tenure and promotion committee.

Pat Mariano: International editor of The Journal of Photoscience, member ACS committee on Professional Training, ad hoc member of the NIH Medicinal Chemistry Study Section, two talks at other universities.

Cary Morrow: member A&S graduate committee.

Tom Niemczyk: organized a symposium for PITCON 2000, member of the editorial advisory boards of Talanta and Spectroscopy, two talks at other universities, member of NIH study section SSS-6, member A&S sabbatical committee, chair of UNM intellectual property committee, member of the planning committee for Research, Scholarship and Creative Activities., chair Coblentz Society awards committee, member Society for Applied Spectroscopy local section affairs committee, treasurer of the Society of Applied Spectroscopy Rio Grande Valley section.

Mark Ondrias: member UNM Freshman Seminar Committee, member University Academic Assessment Committee, member A&S undergraduate advisement committee.

Robert Paine: member NRC/NAS Postdoctoral review committee, DOE NERI panel member, DOE EMSP panel member, ACS Organometallics Award committee member, Actinides Separations conference advisory board member, UNM task force 2000 member.

Outside Sponsored Research

Brabson, Dana
National Science Foundation ($437,221)
New Mexico Research Site for Educators in Chemistry
Internal info: Award date: 6/11/01 Proposal 9630 Acct 3-14941

Brozik, Jim
Sandia National Laboratories $18,000
Spectroscopic Characterization of Transmembrance Protein Reactivity (2001)
Internal info: Award date: 3/22/01 Proposal 12749 Acct 3-19161

Deck, Lorraine
National Science Foundation $55,000

Research Experience for Chemistry Undergraduates FY99-02
Internal info: Award date: 6/26/01 Proposal #: 9281 Acct 3-13501

Dunaway Mariano, Debra
National Institute of General Medical Sciences $295,404
Mechanisms of Enzyme Catalysis
Internal info: Award date: 1/1 6/01 Proposal 7506 Acct 3-48242

Dunaway Mariano, Debra
Boston University $105,644
Structural and Mechanistic Studies of Phosphonatase
Internal info: Award date: 10/16/00 Proposal 10018 Acct 3-18091

Dunaway Mariano, Debra
Boston University $110,250
Structural and Mechanistic Studies of Phosphonatase
Internal info: Award date: 6/8/01 Proposal 10018 Acct 3-18091

Enke, Christie G
National Institute of General Medical Sciences $66,725
Advances in Biomedical Analysis by TOF Mass Spectrometry
Internal info: Award date: 7/20/00 Proposal 7202 Acct 3-41922

Guo, Hua
American Chemical Society $60,000
Quantum Dynamics of Scattering and Desorption of Polyatomic Molecules from Solid Surfaces
Internal info: Award date: 8/30/00 Proposal 10681 Acct 3-17711

Guo, Hua
National Science Foundation $294,000
Theoretical Studies of Spectroscopy and Dynamics of Molecular Systems
Internal info: Award date: 12/18/00 Proposal 12015 Acct 3-18421

Hampton, Philip D
Eastern New Mexico University $2,5bo
Development of an Interactive Virtual Chemical Model
Internal info: Award date: 9/25/00 Proposal 10959 Acct 3-17901

Keller, David J.
Sandia National Laboratories $30,000
Investigation of Modeling of Methods to Improve Resolution IR Imaging FY2001
Internal info: Award date: 6/19/01 Proposal #: 13094 Acct 3-1 981 1

Kirk, Martin L
National Institute of General Medical Sciences $92,902

Spectroscopic Studies of Molybdoenzymes and Models
Internal info: Award date: 8/9/00 Proposal 7811

Kirk, Martin L
National Institutes of Health $33,260
Spectroscopic Studies of Thiolate Donors in Mo Enzymes FY01-02
Internal info: Award date: 4/13/01 Proposal 12137 Acct 3-5631 0

Kirk, Martin L
National Institute of General Medical Sciences $143,534
Spectroscopic Studies of Molybdoenzymes and Models FY01 -02
Internal info: Award date: 5/23/01 Proposal 12832 Acct 3-10972

Niemczyk, Thomas M
Sandia National Laboratories $58,437
Determination of Type III Desiccant Absorption Isotherms
Internal info: Award date: 11/8/00 Proposal 9147 Acct 3-11891

Niemczyk, Thomas M
Sandia National Laboratories $15,507
New Analytical Tool for Interface Characterization at the Molecular Level FY01
Internal info: Award date: 4/27/01 Proposal 12867 Acct 3-19451

Ondrias, Mark R
Sandia National Laboratories $126,031
Synthetic Porphyrins and Spectroscopic Structural Data FYOO-01
Co-Pls: Sheinutt

Internal info: Award date: 3/6/01 Proposal 12397 Acct 3-18701

Paine, Robert
Department of Energy $130,000
Preorganized and Immobilized Ligands for Metal Ion Separations FY94-03
Internal info: Award date: 4/24/01 Proposal 2633 Acct 3-19704

Paine, Robert
Department of Energy ($26,793)
f-Element Chelation in Highly Basic Media FY96-00
Internal info: Award date: 6/5/01 Proposal 4893 Acct 3-47341

Straumanis, Andrei
National Science Foundation $9,000
Guided Inquiry Organic Chemistry
Internal info: Award date: 8/23/00 Proposal 12169 Acct 3-56280

Tierney, David
Sandia National Laboratories $35,000

SURP 2000: Toward Tunable and Triggerable MR Contrast Agents
Internal info: Award date: 10/2/00 Proposal #: 1 1 192 Acct #: 3-17951

Vandedagt, David
Army Medical Research & Material Command $66,571
Synthesis of Selective Inhibitors of 17 - Hydroxysteriod Dehydrogenase
Internal info: Award date: 7/14/00 Proposal 10037 Acct 3-66671

Watt, Richard
Sandia National Laboratories $35,000
SURP 2000: The Structure and Mechanism of the Water-Oxidizing Complex of Photosynthesis

The University of New Mexico

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September 6, 2001

Communication & Journalism - Annual Report 2000-2001

During the 2000-2001 school year the Department of Communication & Journalism went through many challenges and changes. Karen Foss stepped down as chair and went on a sabbatical. Bradford Hall took over the Chair responsibilities. The department had one faculty member, Diane Furno-Lamude, pass away unexpectedly, had another member, Michael McDevitt, take a leave without pay with the expectation of moving to a new university, and had another two faculty members, Estelle Zannes and Jean Civikly-Powell retire. The department also hired two new tenure track faculty, Virginia McDermott and Glenda Balas, a visiting professor, Mavis Richardson, a lecturer II, Dennis Herrick, and changed Judith Hendry's status from visiting professor to lecturer. The department also went through an external graduate review and got a very positive evaluation.

The department continues to pursue excellence in both research and teaching. It also continues to push toward a renovation of the Communication and Journalism building, which is in bad shape and largely under used. However, perhaps the best way to provide an annual report for this year is to include copies of a variety of reports made throughout the year. These documents, listed in the order they will follow, include:

Letter written to the new Dean of A&S, Reed Dasenbrock, to overview the department
Summary report given to Dean Allen for the purposes of comparing departments within the college
A copy of the summary section of the graduate program review
The external report of the graduate review team
The Chair's response to the report
E-mail to the Dean on outreach efforts within the department

These documents should provide the interested reader with a good understanding of the department and many of the activities that were accomplished within and by the department during the last year.

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The University of New Mexico

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August 24, 2001

TO: Reed Dasenbrock, Dean
College of Arts & Sciences

FROM: Bradford 'J' Hall, Chair
Communication & Journalism

RE: Department of Communication & Journalism

At the chair's retreat you indicated that you would be interested in reading something about the different departments. I decided that perhaps a good way to introduce you to the Communication and Journalism Department would be to write a short overview of some of the accomplishments of the department as they relate to the four academic goals of UNM's new strategic plan. Please feel free to get back with me about any questions you may have regarding the material below.

Vital Academic Climate

Undergraduate Education: The department has 565 majors. In terms of undergraduate majors the department is the third largest department in the college. Last year we generated the fifth highest number of student credit hours (SCH) in the college. Based on the numbers produced by the dean's office last year, our department was number one in cost effectiveness, meaning that we produced every SCH for less money than any other department in the college. In addition, the department's average of failure or drop out rates for *all* categories of instruction is slightly below the A & S average.

The department also stresses quality teaching. Our ICES scores for the *whole* department (faculty, TA's, and PTI's) across the various levels is over the 5 point level that most departments use as the sign of excellence. I just received the summer ICES report by campus mail, and the average instructor score for our 100-200 level courses is 5.41; 300-400 level courses is 5.73; and 500-600 level is 5.46. Obviously our students are happy with the quality of instruction we provide. Two years ago I won the university's Outstanding Teacher of the Year Award. When President Gordon was making the announcement he noted that the department has had many teaching award winners. I

believe this is because our department really does value teaching. It was one of our professors, Jean Civikly-Powell, that organized and then directed the Teaching Assistant Resource Center (TARC) and ITARC, a similar service for international teaching assistants. These services are open for TA's throughout the university. We also do more extensive work with our own TA's. We just completed our orientation week and two full days were dedicated to teacher training. We had our new TA's produce mini-lectures for classes they will teach and receive feedback from faculty. We also had our experienced TA's help out in the training. In addition, we have faculty class coordinators for each of the different courses that TA's or PTI's teach. These coordinators visit classes and meet with these less experienced teachers on a regular basis to help mentor them and assist in their learning process.

Graduate Education: Last Spring our graduate program went through an external review (I am sure you will receive a copy of this report). The overall conclusions were very positive. The reviewers noted the strong reputation, both nationally and internationally, of the program and faculty. The high quality of our students was also recognized and the review team noted that the "instructional quality, from classroom to thesis advising, is excellent." Certainly there were recommendations for how to continue to strengthen the program and maintain its prestigious reputation, and I will touch on a few of these later. First, I wish to note a few of the indicators of the strength of our graduate program.

Last year our graduate students presented 34 full research papers at professional academic conferences. This is up from the 9 we had just four years ago, and the sheer number of graduate students has stayed relatively the same. In addition, six of those papers won awards for research excellence. The quality of work is also manifest in the fact that in 2000 we had a doctoral student win a national award for her dissertation and a master's student win the same national award for her thesis. Such a sweep had not been accomplished before. Certainly most of the praise goes to our wonderful graduate students, but I do not believe this growth in the quality of research would have happened without a real commitment to mentoring by the faculty.

Our graduate students who receive teaching assistantships have excellent opportunities to learn from teaching a variety of courses. In addition, over 75% of the students entering our graduate program (MA or PhD level) finish their degree within a timely manner and move on to succeed in various positions inside and out of academia. For example, this last Spring each of the five graduating doctoral students seeking employment in academia received and accepted quality job offers at other universities (Small side note: The only one of these students who shared with me the specifics of her offer will be making more her first year than over half of our current faculty are making right now). Our graduate student organization is activity involved in the university and department, helping meet social needs through various get togethers, helping meet intellectual needs by helping to organize our departmental colloquiums, and participating in various faculty committees. The graduate students also have an active "buddy" system, so that new graduate students have an assigned buddy there to help answer questions and get the new students settled in the area.

Last year, as you know, the departments within the college had to produce material relevant to what I consider the vital academic climate. I will briefly highlight a couple of items from this report as they relate to two basic responsibilities within the university, teaching and research. In regards to teaching, a person in our department whose average ICES score in the classes s/he teaches is 5.4,

works with 4 independent study courses, coordinates 5 internships, is the advisor of two doctoral dissertations and a master's thesis, has not had any complaints made about him or her to the Chair, has developed a new course, is willing to teach whatever required courses are necessary for the department, and is actively involved in mentoring young teachers (class coordination and observations with written feedback) would *only* be considered a "good" teacher in our department. Our department had 10 excellent teachers, 4 good teachers, and 2 teachers that needed improvement. So 88% of our faculty would be considered good or excellent teachers.

In terms of research, someone who within one year's time has published two research articles in top quality, national or international journals, published a research report in a small journal, presented a conference research paper in one conference, presented a poster session at a second conference, served as a reviewer for research journals, and won a national award for a previously published book would *only* be considered a "good" researcher in our department. Based on this criteria, the Communication and Journalism department had 5 excellent researchers, 8 good researchers, and 2 researchers that needed improvement (no the 2 people were not the same as the 2 who needed improvement in teaching). Again, the department has close to 90% of its faculty that were considered good or excellent researchers. I believe the above is an indication of a department with a vital academic climate.

Public Responsibility

New Mexico Access: I do not know the exact percentage of our undergraduate students who are from New Mexico, but I am sure it is the clear majority of our students. Of our 71 graduate students, 27 percent are from New Mexico. We also explicitly encourage our local students to apply and we try to maintain local connections. In addition, we encourage our graduate students, many of whom are interested in cultural issues, to take advantage of the rich cultural heritage of New Mexico. Each year we have organized two multiple day trips for doctoral students, one to the four corners area and the other to the U.S./Mexico border. The people met have made the time spent in these different areas of New Mexico very worthwhile.

Outreach Efforts: There are a variety of outreach efforts within the department. I will touch on just a few of these. This past year we had 8 undergraduate 'interns' with backgrounds in forensics go out to area high schools to coach or assist in training the schools' debate teams. We also hosted a debate tournament for the local high schools. Our Business and Professional Speaking students go out and do speeches in the community (nonprofit groups, high schools, religious organizations, and so forth). We hosted the summer high school workshop which was sponsored by the New Mexico Press Association for New Mexico students interested in Journalism. A substantial number of the faculty participated in this event. In addition, our faculty speak to a variety of other groups, such as the students who are part of the Native American bridge program, a group called "Kids voting USA, and local high schools. We have a number of faculty who work very closely with KUNM and KNME. Our PR faculty and students work with nonprofit organizations to help them produce public relations campaigns (last year this included, MADD, Cystic Fibrosis, Johnson Gallery, Bridges for Women, and others) In addition, faculty members are involved in a number of 'health communication' related grants that help serve many of the rural Hispanic and Native American populations within the state

with such issues as drinking rehabilitation, cancer prevention and teenage smoking.

UNM Service: Excluding our new faculty, everyone of the 13 returning faculty members of the Communication and Journalism Department is currently involved in university committee work outside of the department. These committees include such things as the A & S Course and Curriculum Committee, the University International Education Advisory Committee; the A & S Junior and Senior Tenure and Promotion Committees; the Provost's Incident Assessment Task Force; the Vice-President of local Phi Beta Kappa, Alpha Chapter; members of committees for other programs, such as Women's Studies, Religious Studies, and Asian Studies; the Fulbright Campus Screening Committee; the Executive Committee of the CASAA Research Center; the University Student Conduct Committee; the University Dispute Resolution Center; the Human Subjects IRB Approval Committee; mentoring freshmen through the university one-on-one program; the Center for the Advancement of Scholarship in Teaching and Learning; and more. Perhaps this is normal, but I think that it speaks well for the value of our department within the university setting. Our members are, of course, all involved on departmental committees. In fact, I think everyone is on at least two. They are busy with their classes, working with interns and independent study students, helping our own graduate students, and maintaining a positive research program, and everyone is still involved in helping the university run smoothly as a whole.

Diversity

I do not know the full numbers for our majors, but based on last Spring's graduation list, 42 percent of our majors are U.S. ethnic minorities. Our graduate student body population is also quite diverse. Of our 45 Masters level students, 20 percent are Minority Students from the U.S. and another 24 percent are international students. We have 26 doctoral students, 19 percent of which are U.S. minority students and 35 percent of which are international students. Diversity at the faculty level in terms of traditional ethnicities is not as strong as we would like, and we have been working and will continue to work at improving this. However, in terms of academic diversity we are a very diverse department. We range from strict social scientists to those with more of a professional skills background to faculty who are solidly located within the humanities and more interpretist perspectives. With in the faculty we also have a strong emphasis on intercultural and diversity communication issues, so these concerns and the value of diversity are clearly valued.

Areas of Marked Distinction

National/International Recognition: Perhaps the most obvious mark of distinction is our **number one** ranking among doctoral programs in the most recent study (they do these about every five years) conducted by the National Communication Association (NCA is the largest communication association in our field). NCA conducted a peer based study of the nation's doctoral programs on a variety of topics and in the area of our specialty, intercultural communication, we were ranked first in the nation.

Another area of marked distinction is our department's Preparing Future Faculty (PFF) program. We are currently one of four communication programs in the U.S. to have PFF, and our program has been going very well (please see attached article). Janet Cramer is currently coordinating

this program.

Our faculty were recognized in a variety of ways this past year. Everett Rogers received the lifetime achievement award from the Intercultural/International Division of the International Communication Association. He and Karen Foss also received Outstanding Book Awards in the year 2000, one from the National Communication Association and the other from the Organization for the Study of Communication, Language, and Gender, respectively. Without trying to name each specific person, let me summarize a couple of other indicators of excellence in the department. Within the last year, the faculty received 6 different top research paper awards from national and international conferences. In the same time period the faculty was asked to be reviewers or editors for 15 different research journals. This does not include the many book reviews for publishing houses, nor does the 15 include the many overlaps in review responsibilities. For example, three members reviewed for the Western States Communication Journal, but I only counted this as one.

I already noted in this memo the recent thesis, dissertation, and other research awards that our graduate students have won, but our undergraduate students are also recognized. For example, I just got word within the last week that one of our students, Lliana Limon, was just selected as a winner of the 2001 Roy W. Howard National reporting competition.

Hopefully this has given you a little bit of a feeling for our department. I look forward to our visit on the fourth of September.

Teaching Quality Assessment: Communication & Journalism

Each of the faculty (Ken Frandsen was not evaluated as part of the department because his administrative responsibilities have taken him out of the classroom) are evaluated on the following point systems:

· Average ICES scores (based on instructor evaluation) for all courses taught during the year: 5.5+ = 8; 5.0-5.49 = 6; 4.5-4.49 = 4; 4.0-4.49 = 2; 3.9- = 0.

New course development and willingness to teach required classes: 2 = Exemplary; 1 = Does what is needed to get by; 0 = Uncooperative and turf-oriented.

University or national association sponsored teaching award = +2

Feedback to the chair (informal/unsolicited student compliments or complaints, peer reviews, other forms of teaching recognition): 2 = Multiple honors and positive recognitions over multiple semesters; 1 = Multiple honors and positive recognitions; 0 = No multiple feedback information that is either positive or negative or feedback that counterbalances itself; -1 = Multiple negative feedback.

Participation in mentoring TA's and PTI's: 2 = Active, regular class coordination for TA's/PTI's; 1 = Willing to assist as needed and partial involvement in training other teachers; 0 = Is not involved in mentoring type activities.

Independent studies and internships: 2 = High involvement (10+); 1 = Low involvement (1-9); 0 = no involvement (0).

Graduate advising as demonstrated through theses and dissertation hours registered under the faculty member's name: 2 = High involvement (12 SCH+); 1 = Low involvement (1-11 SCH); 0 = No involvement.

Overall Assessment: 13+ = Excellent; 8-12 = Good; 7- = Needs improvement

** This means that someone who has an average ICES score of 5.4 in the classes s/he teaches, works with 4 independent study courses, coordinates 5 internships, is the advisor of two doctoral dissertations and a master's thesis, has not had any complaints made about him or her, has developed a new course and is willing to teach whatever required courses are necessary for the department, and is actively involved in mentoring young teachers would *only* be considered a "good" teacher in our department.

Based on this criteria the Communication and Journalism department has 10 excellent teachers (3pts), 4 good teachers (2 pts), and 2 teachers that need improvement (1pt.), **for a departmental mean of 2.5**, *with 88% of our faculty being good or excellent teachers.*

ICES scores for *whole* department: faculty, TA's, and PTI's:

Fall 2000:	100-200 level	300-400 level	500-600 level
Content:	4.8	5.0	5.1
Instructor:	4.9	5.0	5.3
General:	4.8	4.8	5.1
Spring 2000:			
Content:	5.0	5.0	4.9
Instructor:	5.2	5.1	5.0
General:	4.9	4.9	5.0

Research Quality Assessment: Communication & Journalism

Each of the faculty (Ken Frandsen was not evaluated as part of the department because his administrative responsibilities have changed his research responsibilities, nor was Judith Hendry who has been a visiting faculty member without any specific research expectations) are evaluated on the following point systems:

Research publications (articles, research reports, etc.): 3 points each for top-line journal publications at the national or international level; 2 points each for mid-level publications, such as quality regional journals and certain annuals; 1 point each for lower quality publications in small journals, abstracts, proceedings, and so forth.

Research grants: 2 points for each new research grant from a source outside the University; 1 point each for continuing grants or University sponsored grants.

Research awards: 2 points for awards sponsored by the discipline in regards to research papers, articles, and books.

Review of research: Editor = 2, reviewer = 1 (2 points is the maximum amount from this category).

Books: 4 points for each academic book.

Conference papers/presentations: 1 point for each conference research paper; .5 of a point for each poster presentation or similar research presentation.

Overall Assessment: 12+ = Excellent; 5-11 = Good; 1-4 = Needs improvement.

** This means that someone who within one year's time has published two research articles in top quality, (inter)national journals, published a research report in a small journal, and presented a conference research paper in one conference, and a poster session at another conference, served as a reviewer for research journals, and won a national award for a previously published book would *only* be considered a "good" researcher in our department.

Based on this criteria the Communication and Journalism department has 5 excellent researchers (3pts), 8 good researchers (2 pts), and 2 researchers that need improvement (1pt.), **for a departmental mean of 2.2**, *with 87% of our faculty being good or excellent researchers.*

These 15 faculty members produced 386 SCH (Independent/Problems Courses & Thesis/ Dissertation Hours) for a department average of **25.7 per faculty member** (based on the 2000 year data).

Efficiency Quality Assessment: Communication & Journalism

The Dean's office already has the raw data for this category, but I would like to highlight a few items from this data. All of the following comments will pertain to the Fall, 2000 semester. This is the most recent data and virtually the same points could be made about each semester, so I will just highlight information from that particular report.

Majors: The 565 total undergraduate majors is the **3rd** largest (out of 20) in the college.

SCH: The total student credit hours generated is 9,281, which places C & J as the **5th** highest (out of 20) in the college. The total student credit hours generated for non-majors (service hours) is 6,352, which places us as 6th highest in the college. The total student credit hours for majors is 2,666, which places us 3rd highest in the college. The total student credit hours for undergraduate studies students is 263 which places us 4th in the college.

Thus, in terms of majors and student credit hours in all categories we are consistently in the top 15-30% of the college.

In addition, the department's average of failure or drop out rates for *all* categories of instruction is below the A & S average.

Finally, based on the budget per SCH that you provided, our department is **#1** in terms of cost effectiveness. Although I am sure that these numbers could be worked in various ways, I am confident that we would always be one of the very highest, if not always the highest, in terms of providing more SCH for less money. I know our faculty do a lot for relatively low pay as compared to our peers at other institutions.

Three Optional Items for Communication & Journalism: Highlighting University Service, Mentoring Excellence, and National Research Impact

1. Everyone of the 16 current members of the Communication and Journalism Department is involved in university committee work outside of the department. These committees include such things as the A & S Course and Curriculum Committee, the University International Education Advisory Committee, the A & S Junior and Senior Tenure and Promotion Committees, the Provost's Incident Assessment Task Force, the Vice-President of local Phi Beta Kappa, Alpha Chapter, members of committees for other programs such as Women's Studies, Religious Studies, and Asian Studies, the Fulbright Campus Screening Committee, the Executive Committee of the CASAA Research Center, the University Student Conduct Committee, the University Dispute Resolution Center, the Human Subjects IRB Approval Committee, mentoring freshman through the university ne-on-one program, the Center for the Advancement of Scholarship in Teaching and Learning, and more. Perhaps this is normal, but I think that it speaks well for the value of our department within the university setting. Our members are, of course all involved on departmental committees. In fact, I think everyone is on at least two. They are busy with their classes, working with interns and independent study students, helping our own graduate students, and maintaining a positive research program, and everyone is still involved in helping the university run smoothly as a whole.

2. Another sign of the vitality and worth of our department is reflected in the productivity and success of our graduate students. Last year our graduate students presented 34 full research papers at professional academic conferences. This is up from the 9 we had just four years ago, and the sheer number of graduate students has stayed relatively the same. In addition, six of those papers won awards for research excellence. The quality of work is also manifest in the fact that in 2000 we had a doctoral student win a national award for her dissertation and a master's student win the same national award for her thesis. Such a sweep had not been done before. Certainly most of the praise goes to our wonderful graduate students, but I do not believe this growth in the quality of research would have happened without a real commitment to mentoring by the faculty. This success is also reflected in the fact that each of the five graduating doctoral students seeking employment in academia have already received and accepted job offers at other universities (Small side note: The only one of these students who has shared with me the specifics of her offer will be making more her first year than over half of our current faculty are making right now).

3. The third sign of the worth of the department I will touch on is recognition by outside sources. I know you did not want us to identify specific faculty members, so I will just mention the awards in general. One person received the lifetime achievement award from the Intercultural/International Division of the International Communication Association. Two of our

faculty members received Outstanding Book Awards in the year 2000, one from the National Communication Association and the other from the Organization for the Study of Communication, Language, and Gender. The faculty received 6 different top research paper awards from national and international conferences. The faculty have been asked to be reviewers or editors for 15 different journals. This does not include the many book reviews for publishing houses, nor does the 15 include the many overlaps in review responsibilities. For example, three members reviewed for the Western States Communication Journal, but I only counted this as one. Finally, based on the National Communication Association's (the largest and most prestigious association in our field) most recent peer ranking of doctoral programs by topic specialization ranked our department as **number one** in the nation in intercultural communication (our departmental speciality).

I highlight these three areas because I believe they illustrate that (1) *our department plays a strong service role in the University as a whole,* (2) *that the outcome of our work with students as gauged by graduate student productivity and employment record is outstanding, and, finally,* (3) *that the excellence of the faculty is well-known and recognized by the larger discipline of Communication as a whole.*

8. A Critical Statement of the Unit's Standing

Essentially, this section provides a summary of the report. We organize this section by focusing on both our strengths and areas for improvement in the Department's graduate program. First, we focus on the strengths. Since the last program review in 1992, we have had a major change with the addition of the Ph.D. The Ph.D. program began in 1995 with the admission of our first doctoral students. Our Ph.D. program is the top-ranked program in Intercultural Communication, according to the National Communication Association. Additionally, we are ranked in the second tier in several other areas of communication (see Appendix T for details). Our reputation has enabled us to admit many excellent Ph.D. and M.A. students. We currently have 23 students working on their Ph.D. degrees. Our program prepares students for careers in academia, as well as in research and training. The addition of a Ph.D. program oftentimes means the end of a successful M.A. program. The M.A. program has remained strong. We currently have 38 students enrolled. These graduate students are planning for a variety of careers, including academia (i.e., Ph.D. programs), management, human resources, advertising, and public relations.

We have a very strong graduate program that is attractive to students. Our program has a niche in communication. We are one of a few programs that offers a program in intercultural communication. Given this fact and the strength of our program, we are able to attract many students to the program despite the comparatively low stipend we pay teaching assistants.

A second strength is that full-time students who receive assistantships are able to complete their degrees in a timely manner. From 1995-97, 14 out of 19 Ph.D. students who entered graduated (usually in three years). Four of the remaining students are currently working on their dissertations (they are taking longer to complete since they work outside of the university). In the M.A. program, 75 percent of the students graduate within 3 years. The majority of the rest complete degrees in three to five years as they work full-time outside of the university. Since 1996, only four students who have entered our graduate program are not on track to graduate. Three M.A. students dropped out of the program after one semester and one Ph.D. student decided not to complete her dissertation. We attribute this successful graduation rate to several factors: (a) effective advising regarding a program of studies; (b) caring faculty who mentor students through the program (we want students to finish and we try to identify problems early in students' programs and make adjustments); (c) a collegial atmosphere that encourages cooperation among students and support from faculty; and (d) a satisfactory faculty to student ratio (currently 3.4 graduate students to 1 full-time faculty).

Third, the level of scholarship, as indicated by the number of conference papers and publications, is rising. There were 34 graduate student conference papers in 2000 and six of these papers have received awards. Further, graduate students published nine articles/book chapters in 2000. We worked especially hard on papers and publications over the last few years. Starting in orientation, we encourage students to submit papers. We hold workshops on how to write and submit conference papers and publications. We provide students opportunities to work with faculty on research projects to learn the process of writing manuscripts. In addition, the faculty has set an example for the graduate students with 184 total publications (articles, chapters, and books) in the past seven years.

Fourth, teaching assistants have excellent opportunities to teach a variety of courses. Earlier in the present report, we described the courses that our graduate students teach. These classes include upper-division undergraduate courses, which allow Ph.D. students a great experience. Additionally, we have excellent teaching resources for TAs, including the Teaching Assistant Resource Center and the faculty facilitators for multi-section classes. We also provide the Preparing Future Faculty Program for doctoral students. We are one of four communication departments in the country that received a grant from the National Communication Association to support the PFF program. The TAs also benefit from award winning teachers, such as Brad Hall, Jan Schuetz, Jack Condon, and Jean Civikly-Powell, who won university-wide teaching awards.

Fifth, graduate students are highly involved in university service. Graduate students serve on a variety of university and departmental committees highlighted by our Commgrads Association. This group is the graduate student association in our department. They are very active and assist in a variety of ways, including organizing our colloquium and assisting with new student orientation and mentoring.

Finally, we provide excellent opportunities for students to learn. The unique nature of New Mexico allows students unique field opportunities. For example, we can take students to the US/Mexico border to gain a better understanding of border problems. We take students to any number of Native American reservations and pueblos across New Mexico and to small Hispanic communities in northern New Mexico. These field trips allow students to experience intercultural communication firsthand and provide graduate students with practical, as well as theoretical, experiences.

The result of these strengths is that graduate students are achieving many of the goals they establish. The tangible outcome of these strengths (and the program) is that former graduate students are gainfully employed. This employment includes numerous students in Ph.D. programs (from the M.A. program), as well as teaching positions at other universities (from the Ph.D. program).

Despite these strengths, we need to improve the quality of our graduate program. First, we need more faculty resources to support the graduate program. We currently have 17 regular faculty members. We will hire two tenure track faculty members and one lecturer for next year (2001-2002) and losing a current visiting professor (Hendry) and a full professor (Civikly-Powell). Additionally, one faculty member (Frandsen) has major administrative responsibilities and thus teaches only one class every other year at most. A second faculty member (Woodall) has research responsibilities via externally-funded grants and buys out most of his teaching responsibilities (all but one class per year). The money generated from these buyouts used to help fund two visiting lines, but is currently used only to help hire part-time instructors. Currently, we have 17 (essentially 15) faculty members to staff a program of 450 undergraduate majors and 60 graduate students. Six years ago, we had 22 faculty members teaching the same number of undergraduate students and only 30-35 M.A. students. Additionally, we have more undergraduate students taking our courses (an increase of 655 in the past three years) because of the inclusion of public speaking in the UNM core undergraduate curriculum. Thus our faculty resources are being pulled in many directions. We must persuade the UNM administration to increase our faculty lines. Additionally, we want to seek external funding for an endowed chair.

Second, we must improve the financial resources for graduate students. Specifically, we wish to receive at least one more TA line for our Ph.D. program. We currently have 17 TA lines and admit 6 students per year with funding for three years. The extra line would ensure that we could admit at least 6 students in each Ph.D. class. Additionally, our stipend makes it difficult to compete with other universities for excellent graduate students. Contributing to this problem is the fact that we cannot provide tuition for M.A. graduate students.

Third, we must improve the quality of our physical space. The Department is working to remodel the first floor of the C & J Building. The first floor was vacated by the Printing Services in 1997, and the space is now ours officially but is being used by other UNM units. However, the building requires a remodel before the space can be utilized. The cost is approximately $3.6 million. We are making efforts to acquire funding from external donors rather than wait for funding to come from the New Mexico Legislature.

Fourth, we want to continually improve our rapport with graduate students. There are numerous benefits to having a graduate program with an emphasis on intercultural communication. However, potential downfalls that result from misunderstandings and conflicts because of cultural differences. The Department is not immune to these potential pitfalls and thus we must continually work to build a harmonious multicultural community.

Fifth, we want to improve the tracking of our graduate alumni. We lost touch with a number of former graduate students from the past five years. We are currently trying to contact these former graduate students. These graduate students are vital contacts for us in two ways: (a) they can serve as excellent resources for current and potential graduate students; and (b) they can serve as excellent resources for the Department as we continually strive to find out what works and what does not. We are planning to contact these students in the next year or so to ask them to provide us with an evaluation of the graduate program now that they are out in the "working world."

Sixth, we want to improve our outcome assessment approach. Our current approach to outcome assessment is threefold: (a) Do students graduate?; (b) How good is their thesis/dissertation?; and (c) Do they find a "good" job? We believe we can improve this process. First, we are going to better track our graduate alumni to identify what they appreciated (or did not) about the graduate program. Second, we will implement an annual review process for our current graduate students. We are going to utilize a biographical form (much like faculty complete for annual merit raises) (see Appendix U for the form) to track current graduate students. This process will help to better understand our graduate students' goals. For example, if Juan wants to be a professor, we'll encourage him to write conference papers and attend Preparing Future Faculty workshops. In contrast, if Lisa wants to be a corporate trainer, we can encourage her to join a training society and help her obtain a summer internship at a local company.

External Review of the Graduate Program
Department of Communication
University of New Mexico

In April 2001, Dan O'Hair, Raymie McKerrow, and Orlando Taylor visited with faculty, students and staff associated with the graduate program in the Department of Communication at the University of New Mexico. The review committee was accompanied throughout these conversations by Professor Jose Rivera, the University's faculty representative to the external review team. The following report has been coauthored by the external reviewers. It will consider topics outlined in the Graduate Unit Review Procedures Handbook.

Executive Summary:

Program Strengths:

1. The Department has achieved a solid reputation for its graduate program, especially noteworthy given its short history with a doctoral program.
2. The Department has a very strong faculty with national/international reputations within the discipline.
3. Instructional quality, from classroom to thesis advising, is excellent.
4. The Department has done well in attracting qualified students to the program.
5. The Department is well positioned with able leadership to address the challenges it faces.

Program Challenges:

1. At the present time, issues of quantity rather than quality are driving programmatic decisions.
2. The level of university support for salaries and to upgrade facilities and technological aids needs to be significantly increased.
3. Rethinking the relationship between the M.A. program–its workload and advising requirements–and the demands imposed by the PhD. program is a critical need.
4. The Department, and the University, need to work together to create a proactive effort to increase diversity at the undergraduate, graduate and faculty levels.
5. The Department needs to develop an integrated plan to address these and other more specific concerns/recommendations in the report.

Overall Recommendation:

–The graduate program should be continued with suggestions for future directions.

Program Goals and Curriculum

The Department has achieved a solid reputation within the discipline in a very short time, especially at the Ph. D. level, which was not initiated until the early 1990's. Indeed, the Department is to be commended for having achieved the stature that it has, especially with respect to the emphasis in intercultural communication which, according to a recent survey by the National Communication Association, ranks third in the country. The primary focus of the graduate program on intercultural communication is an excellent decision, as this area is one of

present and continuing growth within the discipline. Moreover, the location of the university in a culturally and linguistically diverse region of the country makes UNM an ideal location for study and scholarship on communication between and among diverse cultures.

The Department, however, is faced with a significant number of challenges if it is to maintain and even enhance its reputation and quality. Central among these challenges are the demands placed upon the Department's faculty by the addition of a basic communication course among the new General Education requirements for undergraduates, the growth of the undergraduate major, the maintenance of an MA program that emphasizes a thesis, and a relatively large PhD program—all with relatively few, if any, increases in faculty lines in recent years. Indeed, it appears that there are actually fewer lines available in the Department than earlier years despite these increased challenges. That the system has not yet collapsed is testimony to the sheer hard work of faculty, staff, graduate students and part-time instructors (PTI's).

In general, the graduate curriculum is solid, but there is a need to consider, at an institutional level, the number of 400 only, as well as 4/5xx courses that a student might take as part of their program of study within the MA and PhD. program. As it stands, the requirement is for a minimum number of 5xx level courses, as opposed to limiting the number of 400 and 'bridge' courses that could comprise a student's program. As a consequence, the University's standards for instruction at the MA and PhD program are weaker than one might wish. The Department's standards are higher than the University's but the challenge to move toward a 'stand-alone' MA (reducing use of 'bridge' courses) is an issue that both the Department and University should consider.

The instruction, from classroom experiences to thesis and dissertation advising, is excellent. The faculty's commitment to the PFF (Preparing Future Faculty) program is also solid; this program is at the cutting edge of current doctoral training; the faculty is to be commended for their involvement in this nationally recognized program. While the impact of a reduced teaching load is not yet clear, this is a positive move by the faculty to ensure quality is maintained across teaching, research, and advising responsibilities.

As the program moves forward, it needs to consider the relevance of a stronger focus on health communication as this is an emerging area of importance within the discipline. Given the expertise available within the faculty, the presence and potential cooperation of a respected medical school and health sciences center, and the substantial medical needs of minority populations within the state and region, an emphasis on health communication would be a natural extension of their commitment to intercultural communication. Indeed, the potential interface between health between health communication and intercultural communication is an area of considerable national need, especially as the two areas relate to communicating to minority communities about health care and the prevention of illness and disease. In fact, the Department should consider intercultural health communication as a component of their hiring plan.

Demographic trends and hiring practices nationally point to a significant need for doctoral graduates with specializations in intercultural communication. UNM is well positioned to become one of the premier sources for such graduates, and from all accounts, seems aware of their responsibility for addressing these market needs. In sum, the Department is making good progress toward accomplishing the goals of their program.

Faculty

The Department has a very strong faculty with national/international reputations within the discipline. The program has made solid hiring decisions in connection with strengthening the emerging doctoral program. Research productivity is consistent with expectations for such a program. Students report that the faculty are well respected and admired among their cohort group.

While morale/collegiality is generally positive within the program, there are stresses that provide reason to be concerned about the continued well-being of the program. With faculty moving toward administration and grant-buyouts, and the absence of comparable replacement of their skills, the program is operating 2-3 persons below the tenure-track lines available to it. The potential inability to replace tenured, senior level faculty at the same level compounds the resource problem. Presently, the faculty is stretched very thin across teaching, research and service responsibilities. Continuing at the present workload level will be debilitating, and increases the potential of 'burn-out' or earlier than expected departure of younger faculty. Moving the program forward through additional support will be critical. To this end, developing a hiring plan that looks to the future of the program at the doctoral level emerges as a major focus for the Department. This plan might include, for example, the need for senior faculty in replacing retirements, building strength in its central programmatic area, etc. Recruitment of new faculty, as well as retention of current faculty, given below par salary levels, is a specific challenge.

A particular concern of the review team involves the amount of teaching expected of the faculty, particularly in view of the heavy responsibilities associated with directing master's theses (reportedly more than 95% of all maser's students). The usual faculty load appears to be 9 credits (3 courses) per semester. This load is higher than that usually expected in research universities where the load is generally 6 credits (2 courses) per semester. Moreover, many institutions have some type of formula whereby the number of thesis and dissertations directly contribute to the algorithm for reducing teaching loads even further. In sum, the review committee concludes that the faculty size needs to be increased in order to provide sufficient time for high quality supervision of theses and dissertations and for faculty research activity.

With respect to the direction of master's theses, the review committee was also of the impression that the Department should consider giving more attention—and credibility—to the non-thesis master's option. While it is laudatory that master's students are afforded a capstone research experience, a case could be made that for those students who are seeking a terminal master's degree and ultimately a non-research professional career in communication—which seems to be a majority of the master's students—a non thesis option with a capstone and

supervised professional experience may be a better choice for such students and a better use of faculty time.

Another concern of the committee involves the matter of faculty diversity. The committee was particularly disappointed to see so little faculty diversity within the Department—particularly in view of its intercultural focus. While the committee fully recognizes that there are a disproportionately small number of racial and linguistic minorities acquiring doctoral degrees in communication, the committee is of the belief that the Department needs to intensify its efforts to achieve greater faculty diversity. An important aspect of this strategy should include the development of a diversity strategic plan that, among other things, might include a systematic linkage with graduate programs that enroll a significant number of racial and linguistic minorities. Obviously, particular attention might be placed on Hispanic and Native American doctoral recipients, but attention should also be placed on the possible recruitment of African Americans to the faculty in view of their presence in the U.S. population. Another aspect of the plan will require greater involvement of the university's central administration in making competitive offers to potential minority faculty. Leadership by the Department in the area of faculty diversity could serve as a model for the entire university community.

Still another area of concern involves the use of—and preparation of incoming master's level students to teach undergraduate classes. While the Department has an excellent TA training program and excellent faculty leadership for it—albeit leadership from a faculty member that is about to retire—the committee had some concern with both the number of courses being taught by graduate students (especially master's students) which was reported to be two courses (6 credits) per semester. As stated earlier, such a load is comparable to a full-time teaching load at most research universities.

The committee was also of the opinion that clarity of University and Graduate School policy regarding good practice in the deployment of graduate student teaching, particularly at the master's level, needs to be established and strictly enforced. The committee was of the distinct impression that the Department has little choice but to use graduate students as they do because of the challenges presented above and the relatively small faculty size in relation to its teaching responsibilities. As an aside, the committee was informed—and impressed—with data provided by the acting dean of the College of Arts and Sciences with respect to the efficiency of the Department in terms of is utilization of its faculty resources, indeed among the best in the College. However, the cost of such efficiency seems to be the aforementioned high teaching loads of the faculty and extensive reliance on teaching assistants, especially at the master's level. Clearly, this situation calls for more commitment by the university for communication faculty lines and stricter attention to enrollment management issues as they relate to this Department.

At present, there is a relative imbalance in advising graduate students. The advising mission is quite centralized where a smaller number of faculty than is healthy assumes the majority load. Students report that they would prefer a higher level of professional interaction with the faculty, especially in the area of mentoring. At issue seems to be the relatively large proportion of graduate students selecting faculty for thesis and advisement purposes from a

somewhat limited subset of the faculty. Perhaps more administrative control of assigning advisors, together with a more careful alignment of graduate admits in relation to faculty size within specific specialization areas might help to attenuate this situation. The Department may want to consider where additional opportunities can be created for professional interaction with graduate students, especially in dyadic contexts.

Students

From the information provided, the Department has done well in attracting qualified students to the program, both at the M. A. and PhD levels. They have succeeded in getting the students they have offered support to. Students are very positive about the program and express an eagerness to work toward professional improvement. However, the signs of stress noted above regarding faculty applies equally, if not more, to students. The framework is present for working through natural stresses, but there are challenges ahead with respect to the number of courses taught by graduate students (one student taught four difference courses in one term; two taught three sections of the same course; another student taught three sections of one, and an additional separate course; others taught two different courses in a recent term). In addition, there is a marked tendency to assign far more 3xx level courses to graduate students than may be healthy for the undergraduate program. While the practice of multiple course assignments works to the student's advantage in proving experience when they apply for academic positions, the workload appears excessive on the way to completion of their studies. This is, at present, a by-product of the enormous undergraduate enrollment pressures on the Department.

Greater, more systematic attention to supervision, and the assignment of qualified students in specific courses will be a continuing challenge. As it stands now, assignment of students seems to be at the mercy of a growing undergraduate major and a burgeoning general education requirement. The Department may want to consider developing a strategic plan that can be used as a guide for allocating and assigning graduate students to courses based on expertise, talent, interests, and especially experience. Beyond the advantage of appropriating the proper match of graduate student to course content/level, such a plan will provide graduate teaching assistants with more realistic expectations of their instructional role throughout their professional career at UNM.

Recruiting minority students is a continuing challenge for the program. While the Department is to be commended for its recruitment of a substantial cohort of international students, considerably more work needs to be done to attract more domestic and permanent residence minorities to the Department for graduate study, especially at the doctoral level. This is a particular need—and opportunity--for potential Hispanic and Native American graduate students in view of the institution's location, but student diversity efforts should also be extended to potential African American students in view of their presence in the Albuquerque community and in the national population. This is a major national need within the communication discipline, particularly at the doctoral level, where there is a critical shortage of minority faculty members. UNM has an opportunity to assume national leadership in this area. Formal linkages with other minority serving institutions such as Historically Black Colleges and Universities (HBCU's) and other Hispanic Serving Institutions (HSI's) might provide an excellent source for

recruiting and enrolling more under-represented minority students. Greater articulation with the national McNair program might also facilitate greater graduate student diversity. If such initiatives are launched, greater articulation with university-wide diversity efforts will be required in order to make competitive offers to potential students.

The Department's Colloquium program, which features both faculty and student work, is an excellent feature. It instills a solid work ethic and respect for divergent approaches to scholarship, and also serves as a means of creating a stronger sense of community. Nonetheless, while the program also has done well in attracting international students to the program, integrating them into the graduate community is something that takes continued attention. There is a sense that some current students may feel somewhat isolated from others in the academic community.

During the external review team visit, it was strongly suggested by some faculty that the process for evaluating graduate students become more systematic, rigorous, and objective. While it appears that the Department takes the issue of student evaluation seriously, it was suggested that the process become more formalized and include the entire faculty on an annual basis. Areas of evaluation could include progress toward degree, professional development, and teaching performance.

Program Productivity

As mentioned above, graduate students in this Department are well-mentored in terms of teaching and research expectations. The Department has created a positive climate for active scholarship, especially with respect to collaborative research with graduate students. In fact, Department support for research, via colloquia and travel support to conferences, is better than support at other institutions. These factors, and the recognition accorded the faculty by others within the discipline, combine to produce a highly credible program; graduates are well served by the program's curriculum and faculty.

In addition to the colloquium series, the Department has done a fine job of instilling a desire for professional development among the students through their encouragement of participation in scholarly conferences. The graduate students in this program have made numerous presentations at regional, national, and international conferences. The titles of their papers as reported in the self-study reflect serious topics focusing on important and cutting edge areas of the communication discipline. The reputation of a graduate program grows exponentially when its graduate students are showcasing their research in these scholarly venues.

Also, the doctoral program has achieved a high and very appropriate placement rate for those seeking academic employment. The Department has done well in developing a 'niche' that is of prime importance to the discipline, especially in terms of providing qualified assistant professors in intercultural communication.

Financial Support

It probably comes as no surprise that financial support for the program is woefully inadequate. Initial faculty salaries lag behind peer institutions making recruitment and retention, especially in the area of minority hires, increasingly difficult. Salary compression also becomes a factor with respect to faculty morale.

The relatively low MA funding support is offset in part by the program's strength; students express a willingness to sacrifice monetary support to gain entrance into the program. Nevertheless, finding ways to increase funding opportunities for continuation of the MA program will become a critical need in the near future.

Additional support at the PhD level will be necessary to remain competitive with respect to stipend levels*; adding a new TA to the pool will help the program coordinate year-to-year recruitment of new students.

*Note: As recently cited on CRTNET (a communication listserv), a study of 10 graduate institutions (Minn, UGA, SIU, Wash., Illinois, Regent, Indiana, MSU, USC, FSU), indicates the lowest doctoral stipend is $10,000, while the highest is $13,800 (for a third year student). The average (mean) of the ten rates was $11,512. The median: $12,000.

The level of funded research, for a communication program, is substantial and easily ranks among the elite programs in the country who actively seek extramural support for research. The obvious benefits of funded research for graduate students include research assistantship, opportunities for mentoring, and field-based research experiences. The Department seems to be using those funds in the most efficacious manner, and it is through these funded research initiatives that the Department can develop expectations for moving to the next level of excellence in the communication discipline.

The Department's record of attracting high quality graduate students is somewhat remarkable in view of the low financial aid packages offered by the Department. Indeed, its record of success is probably a testament to the strong scholarly reputations of several of the Department's faculty members and the external reputation of the program. This notwithstanding, the Department and the university need to give serious consideration to increasing stipend levels for its graduate students. Over the long haul, it is quite possible that the Department will have difficulty in continuing to attract high quality graduate students without more competitive financial aid packages. In addition, low stipend levels will add yet another impediment to its ability to attract domestic minority students to the program who, more often than not, receive much more competitive packages from other universities. In order to be competitive with other research universities, the site visitors recommend a minimum stipend level of $10,000-12,000 for master's students (plus tuition) and $12,000—15,000 plus tuition for Ph.D. level students.

Although the Library staff is highly supportive of research, it's financial support is not as strong as it should be when compared across other units within the College. While a detailed analysis of library resources could not be made during such a short site visit, it did appear that the library has accumulated a critical mass of books and journals in communication and related

fields to support graduate study in the discipline. However, there may be a need to acquire more multiple copies of major books and journals in view of the Department's robust enrollment. There was some indication from graduate students that multiple copies of certain key books and journals would facilitate their research interests.

Facilities

Overall support for technology, from office staff support to instructional capability is exceptionally weak. It is safe to say that this Department lags well behind all of its peer institutions in terms of technological sophistication and support. While the Department is doing well with what it has, as a comm/journalism program, it feels the absence of technology more severely than other social science programs. Beyond the usual items -- overheads, decent chalkboards, and VCR/TV equipment -- there is NO equipment available within a classroom to access the web or to do PowerPoint presentations (much less teaches students how to use PowerPoint as a tool); ethernet connection, computer, LCD projector and screen are absent in the classrooms used most frequently by the Department. There are three classrooms for which this is a key need, for student presentations all the way from public speaking classes to graduate classes. The studio could use a DV VCR for play back and recording mini DV tapes. The current 'unoccupied' space within the communication building provides an excellent opportunity to maximize classroom space as well as integrate technology into the classroom. The Department computer lab is an excellent, and efficiently used, resource for the program. It is not equipped as a "smart, multi-media classroom," but is a step in the right direction with respect to contemporary uses of technology. As part of a comprehensive plan, the Department may consider the role of distance and/or web-based education in maximizing classroom utilization.

Overall Conclusions

As indicated above, this is a solid program, with a strong faculty and student base. The challenges we note below in terms of recommendations for improvement should not detract from the overall programmatic strength that is present. At the present time, issues of quantity rather than quality are driving programmatic decisions and resource allocation. Gaining control through strategic decisions is a critical issue for the Department at this juncture. The Department is in an ideal position to make a meaningful and proactive response to these challenges. With that in mind, there are several recommendations that the Department might consider as it moves forward.

Recommendations:

The most specific need is for the Department to develop an integrated plan for addressing the challenges and issues noted above. This plan should provide for, among other things, the following specifics:

Undergraduate Program:

– Control undergraduate enrollment, and develop a plan for the resolution of current backlog of student demand for specific courses. This may include creative, imaginative revisions in course offerings or delivery systems, including large lectures in place of current small sections and, possibly, distance learning.

– Work with established campus programs providing minority support to augment diversity at the undergraduate level (leading to moving those students toward advanced degree programs here or elsewhere; e.g., McNair Scholarship program).

Graduate MA Program:

– Provide for greater involvement by the journalism program and its faculty, esp. at the MA level; this might include the development of a professional track at the MA level that partners with area employers (e.g., corporate communication that combines journalism and organizational communication).

– Manage financial resources to augment MA stipend/tuition coverage (e.g., turning PTI funds into tuition coverage, seeking tuition coverage from area employers in return for internship assistance).

– Rethink the emphasis on a Thesis option for the MA; consider emphasizing the non-thesis track for students who wish to pursue a terminal master's and a professional (as opposed to a research) career through a comprehensive exam or research paper project alongside a professional internship. This would relieve time pressures on faculty and possibly address present imbalance.

– Rethink policies and required preparation governing independent teaching of undergraduate courses by master's students.

Doctoral Program:

– Increase the amount of stipends for master's and doctoral students to the $10,000-15,000 range, plus tuition, depending upon degree sought.

– Create Predoctoral and Postdoctoral Teaching/Faculty Preparation Internships, possibly using PTI funds, in collaboration with institutions that produce a critical mass of doctoral graduates from under-represented minority groups as a strategy for building faculty diversity.

– Develop a systematic creative approach to building feeder relationships for under-represented minority faculty and students with institutions with substantial numbers of such students, e.g., HBCUs, other MSIs, etc.

– Consider ways to improve assimilation of minority and international students into the community (e.g., training that goes beyond stereotyped 'do's and 'don'ts' for staff, students and faculty).

– Moving to a 4-year Doctoral program would give faculty and students more time to work toward problem-based learning (a key reason some were drawn to the program), as well as field-based work (there is strong support from students for increased community 'service-learning' types of involvement).

Faculty:

– Develop a strategic plan to maintain and enhance faculty strength in alignment with future retirements and vacancies, as well as with curricular emphases and diversity goals.

– Develop strategic initiatives to build more racial and ethnic diversity within the faculty, including linkages with institutions known to produce critical masses of under-represented minority persons in their doctoral programs.

– Develop a strategy for addressing the increased demand for teaching undergraduate General Education requirements within the context of faculty size and the Department's robust graduate enrollment; include consideration of increased utilization of distance learning delivery formats and more faculty lines from the university.

Facilities/Equipment:

– Integrate space and technology needs into an overall academic plan - to demonstrate how space will augment ability to mount creative programs serving the immediate area, as well as strengthening the overall program. Demonstrating tangible outcomes from renovation will be a pre-requisite for serious consideration.

– Increase attention to the use of technology in instruction and learning, especially in the preparation of graduate students in assuming responsibility for the use of technology in the classroom (as well as via distance education).

Strategic Resource Allocation:

– Consider ways to manage resource allocation (e.g., assigning graduate students) that uses all sources of information effectively (e.g., create a 'supervision committee that reviews course needs/student strengths).

–Consider ways to reduce reliance on MA's teaching multiple courses during their program of study; eliminate independent undergraduate teaching by master's students until they have acquired a minimum of 18 graduate credits in order to enhance the strength of their content knowledge.

– Balance supervision across multi-section and single-section courses for first-time graduate student instructors.

– Continue to improve annual review process for graduate students (faculty are to be commended for initiating this process as a means of tracking progress).

– Increase orientation for initial instruction at the outset of the academic year.

– In the absence of a university program for insuring international students' oral communication competencies (e.g., the SPEAK test), develop procedures through collaboration with ITARC to ensure English speaking competency before classroom assignment.

– Creating stronger links across the campus (e.g., with health science programs, with the McNair scholars program) will augment the Department's ability to leverage resources and earn university respect/support. Placing greater visible value on what currently is available in the way of grant support to the Department, and using that to leverage further assistance is an opportunity in need of utilization.

The University of New Mexico

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July 28, 2001

TO: Ken D. Frandsen, Chair, Senate Graduate Committee

FROM: Bradford 'J' Hall, Chair, Department of Communication & Journalism

RE: Response to Graduate Unit Review Written Report

The following is a brief summary of the unit's response to the recent Graduate Review Report on the Communication Graduate Program here at the University of New Mexico. The department is grateful for the hard work put in by the four reviewers and in general we are in agreement with the findings of the review team. There are a few items that I believe need some clarification. These will be discussed below in response to the most salient parts of the report, this will then be followed by a prioritized list of graduate program needs.

Before going to the specific recommendations of the committee, I do want to point out one mistake on page one. The committee notes that the department's intercultural program was recently ranked third in the nation by the National Communication Association. Actually, we were ranked *first*. I double checked this on the National Communication Association's online report today and will be glad to provide the e-mail address if you would like. The following areas and subsequent responses are covered in the order presented by the committee.

Undergraduate Program:
1. Control undergraduate enrollment/plan to resolve backlog of student demand, come up with ways to increase the number of students in our sections (large lecture, distant education) and work with campus programs to provide support for minority students. It is true that we have a high student demand for a variety of our courses. However, I do not believe large lecture classes are the answer. The classes we have shut outs in include such courses as public speaking classes, writing classes taught in the computer labs, senior level (400) required courses and a few select courses that have built a reputation through an intensive interaction element, such as mediation and intercultural communication. All of these courses require a very interactive format and heavy writing and grading responsibilities to accomplish their goals. A move to a large lecture format in such courses would be a disservice to our students and prevent us from effectively teaching what we claim to be teaching. If we were to raise the caps, we would also have to hire extra TA's or

PTI's to help handle the additional grading and interaction responsibilities. I am not sure that hiring two to handle a class of 80 is better than hiring one to teach a class of 40. I do believe that there may be some possibilities in terms of distant education or online courses. These options will need to be explored, but this will not be a panacea for all of the challenges created by student demand. We have also discussed raising the minimum GPA required for a student to become a major in our department. This would help to keep the numbers more manageable and is something we are likely to pursue. The other obvious alternative is to hire more instructors.

We are also very interested as a department in encouraging and supporting minority students. I have helped out with the "Bridge" program for Native American Students, one of our courses (125) was specifically designed to help minority students in their transition to the university (and is cross-listed with African-American Studies) and we currently have various faculty working with the McNair program. However, this is an important area and we can and will always work to improve in this area.

Graduate MA Program:

2. *Encourage greater involvement from the journalism faculty and perhaps include a professional track within the Master's program and rethink the emphasis on a thesis option for the MA.* We have made great strides in encouraging the faculty working on the journalism side of the department to participate in the graduate program. In fact, in the last two years every single faculty member on the journalism side has been given one or more graduate courses to teach. This has not yet translated into a significant increase in committee work for these faculty (and a reduction for the few who carry most of these responsibilities) as our graduate program is in "communication," not journalism and students select thesis committee members based on areas of interest. However, we have begun serious discussions of including a more professional track as an option at the MA level as well as including a comprehensive exam option. Although these ideas have not been met with favor in the past, the department faculty has changed enough over the years that these options appear to be much more realistic. If these are approved, I hope and expect that the graduate responsibilities will be better balanced across the faculty and that the heavy thesis advising which now falls on the shoulders of a few will be relieved in some ways.

3. Manage financial resources to augment tuition coverage for Master's level TA's as well as rethink the policies regarding undergraduate teaching by MA's. We would love to augment the nonexistent tuition coverage for Master's TA's, but with our current level of PTI funding and backlog of student demand for courses and high shut out rates it is hard to do this. When the Ph.D. program was initially approved it was done so with the explicit understanding that Master's level TA's could and would have tuition paid for out of the PTI budget. A couple of years later that was changed by Dean Fischer who indicated that tuition waivers could no longer be funded out of PTI money. In addition, our PTI budgets are such that it is no longer possible to do this, even if we were allowed to, and meet the minimal demands of teaching our undergraduate courses. In fact, we consistently have to rely on monies beyond our Arts & Sciences PTI budget to teach the courses we do now.

The review team indicates (especially on p. 5) that we may be overworking our TA's in regards to teaching loads. I do not believe that in terms of teaching load this is the case. We are comparable

to most universities and other departments. The committee indicate that they had visited with "one student [who had] taught four different courses in one term" and mentioned some other similar cases. I assume by term that they must mean year, because I cannot think of a single T.A. who has ever taught four courses in a semester and only a couple of very rare cases in which a T.A. has ever taught three. This has only happened upon their special request due to some special financial needs for one specific semester. Records can be checked to verify what I say, and I suspect the use of the word term is simply a misunderstanding. It is true that virtually all of our TA's teach four courses per *year*. The vast majority teach two sections of the same course any given semester. We do occasionally have to give someone two different courses to teach in a semester, however, it would be extremely rare for that to happen again the next semester or for the two new ones to be different than what had been taught in the first semester. I have gone back a few years in our records and I cannot find a case of this happening. A Master's student may have taught 4 different courses over the course of their two year stay, but even that would not be a normal case.

Doctoral Program:

4. *Increase the amount of stipends for Master's and Doctoral students. And create predoctoral and postdoctoral teaching/faculty internships using PTI funds and in collaboration with institutions producing a high number of minority doctoral students.* We would love to do both of these things. Both would require increased funding from the university. We cannot currently do these at our approved funding levels.

5. *Develop a systematic, creative approach to building feeder relationships for underrepresented minority faculty and students.* This again is a great idea and one that we will pursue in terms of exploring ways to do this. Although funding issues may again be a challenge in this area, I believe we can make improvements in these types of relationships through certain types of efforts that will not require significant money investments. This will be a topic for future faculty meetings.

6. *Consider ways to improve assimilation of minority and international students in the community.* This is a natural and ongoing concern and challenge within a department as diverse as ours. More than half our graduate student body falls into the categories noted above. For many years I would have said this was a real strength in the department. A few years ago we had some specific struggles that challenged our ability to develop and maintain the community we all want. I believe we have recently made great strides in this area. We have a very active graduate student organization and faculty who are committed to helping every person feel a part of the departmental community. The department sponsors a number of social and intellectual gatherings and will continue to do so. We will continue to make this area a priority.

7. *Move toward a 4 year doctoral program.* This would be problematic given our current number of regular teaching assistantships because we need to have at least 6 available for each new year. However, we will consider this.

Faculty:

8. *Develop a plan to maintain and enhance faculty strength, considering future retirements and curricular goals and increasing undergraduate teaching demands.* Last year we had one faculty

member pass away and two others retire. We have four more faculty who could retire at any point they wish to. One of these has been actively talking about it. This person is one of the major figures in the department in terms of intercultural communication and working with graduate students. Although further planning needs to and will be done, it is obvious that to maintain our current success and national reputation we will need to hire another person in the intercultural area at the Associate or Full Professor level who has an established reputation. One of the reasons we are able to attract such good graduate students and have so many of our first choices among graduate students choose to come here, even though our pay is not as competitive, is the reputation of our faculty in the intercultural field. Thus, hiring and keeping active, well-known faculty is essential for this department and program.

9. *Develop initiatives to build more racial/ethnic diversity within the faculty.* I believe this is an important recommendation. We have actively tried to do this over the last 5-10 years, but have not been able to be as competitive as we would like with some of the offers to our minority candidates in the past. However, this is an area the department is committed to working hard at. The university and area offer many other benefits beyond monetary concerns and I believe as we further develop our relationships with other programs that are producing diverse faculty that we will be better able recruit these faculty. We are also hopeful as a department to take advantage of the minority doctoral fellowship program that allows us to support a local minority student in her or his Ph.D. program and then have them join the faculty when they are finished with their program.

Facilities/Equipment:

10. *Integrate plans for space needs and the use of technology into the classroom, especially in ways that allow our graduate students to be better prepared for using technology in their future careers.* We do have serious space limitations. However, much of our building is sitting empty since the printing press moved. We are currently seeking funds for a building renovation that would take care of both space and many technology needs. We have made a number of fundraising attempts as a department, the faculty have all donated to fundraising efforts and we continue to work on this issue. We hope that the university will support us in these efforts as we believe this renovation will be beneficial in many ways. In the meantime we continue to do what we can to raise funds for both space and technology needs.

Strategic Resource Allocation:

11. *Consider ways to better manage our resource allocations in terms of graduate student training, assignments and review.* We currently have initiated a more detailed review of graduate student progress. This review will continue to be refined, but it is designed to help us help each of the graduate students reach their goals. Also, monitoring and training of teaching assistants has been in place, through course supervisors and orientation training weeks and workshops, and will continue to be implemented. The faculty will also continue to explicitly consider ways to use our resources to help our graduate students grow and develop in their own careers and in terms of appropriate service as teaching and research assistants within the department.

The overall conclusion of the review team was that this is a solid department with both strong faculty and students. I believe this is the case, however, as the review team noted there are areas

that need to be strengthened and better supported or the department cannot be expected to continue in the positive way it has so far. The priorities that exist within the department include:

1. Overhaul the Master's program. The department needs to look closely at a professional track and at the possibilities for comprehensive exams. In addition, the department will consider both (A) the number and use of 400 level bridge courses; and (B) whether or not to formally include health communication as an area of focus, as it already informally supports such a focus.

2. Increase the number of regular teaching assistantships. It is immediately important to add *one* new assistantship, so that we can offer six each year to the new Ph.D. students (six is the minimum number to make a class and it is difficult to have our required doctoral seminars meet minimum attendance numbers when we do not have that many assistantships. It would also be very useful to eventually have an additional three to four regular assistantships that we could commit to the very best Master's students. Each year we lose a couple of the very best Master's students because we are unable to offer assistantships that also pay for tuition (all of our peer institutions offer assistantships that pay for tuition, and it is only a very strong reputation in the field that allows us to attract the quality of students which we have). It would also help if the university was able to make the stipend associated with teaching assistantships even more competitive, but I realize that this is a difficult challenge.

3. Hire an associate or full professor in the intercultural area who has an established record, but still has a number of years of service ahead. Our reputation in the field is built on the reputation of our senior faculty and, as noted in the report, the two most well established members of the faculty that focus on our specialization of intercultural communication are past the age of retirement. The department is developing some very good junior faculty in this area, but we really need one more established professor to help in the upcoming transition period.

4. Begin to create stronger ties with other institutions that have a high number of domestic minority students and faculty to aid us in our student and particularly faculty recruitment process. Currently our student population is very diverse, but given our primary graduate program focus and area in which we live, we need to improve the overall diversity of our faculty. It would be particularly nice if the hire noted above could also begin this further diversification of the faculty.

5. Improve our facilities and equipment. Our current building is in desperate need of renovation. The space is there, but the funds are not. We will continue to focus on fundraising, but it is a slow process. In addition, the department continues to have serious needs in terms of equipment and technology to facilitate learning at all levels.

6. Finally, the department will continue to focus attention on creating a sense of community among our graduate students (through training, mentoring, tracking of current students and alumni, and inclusive fellowship) that is essential to a department dedicated to intercultural communication.

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Jul 2001 13:08:01 -0700 (PDT)
unm.edu
m.edu
cc: bjnall@unm.edu
Subject: Outreach info

Fritz, sorry to be a bit a slow in getting back with you on some of these outreach items, but here are some that have been done within the last semester (I think there are a few more, but people are out of town and I don't have the details).

1. We had 8 undergraduate "interns" with background in forensics/persuasion who went out to area high school's and coached their debate teams, providing training etc. This was coordinated by one of our faculty members, who also with help from other faculty and graduate students hosted a debate tournament.

2.Another faculty worked with a local braqnch of a national group called "Kids Voting USA." He has done workshop and was the keynote speaker at a recent convention.

3. A number of the faculty have participated in various panels and workshop to aid the New Mexico Press Association. Most recently (June) UNM hosted a high school workshop for high school students that is run throught the NMPA.

4. Our Business & Professional Speaking students go out and do speechs each year to high schools, nonprofit groups and religious organizations, as coordinated by faculty.

5. We had some graduate students who went out and did some free diversity training to some organizations (I'm not sure which).

6. Do you count Grant work?? If so we health Communication grants that work with Native American and Hispanic population in the northern part of the state, on drinking rehabilitation, cancer prevention and other health related items.

7. We have had faculty meet with high school students to discuss broadcasting and other types of communication careers.

8. Although we are not "officially" connected, we have many connections and service opportunities with KUNM.

9. Our PR faculty and students work with nonprofit organizations to produce Public Relations campaigns (last year we did MADD, Cystic Fibrosis, Bridges for Women, Jonson Gallery, and Susan's Legacy.

10. The department has also done sevice work places like Joy Junction and organizations that help underpriviledged children.

Hope this helps

Take care

Brad

THE ANNUAL REPORT OF THE DEPARTMENT OF EARTH AND PLANETARY SCIENCES

July 1, 2000 to June 30, 2001

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Department of Earth and Planetary Sciences

Annual Report

July 1, 2000 – June 30, 2001

Leslie D. McFadden, Chair

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I. GENERAL DEPARTMENTAL INFORMATION
(Calendar Year 2000)

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FACULTY AND STAFF

PROFESSORS:

Michael E. Campana, Ph.D., University of Arizona, 1975.
Laura J. Crossey, Ph.D., University of Wyoming, 1985.
John W. Geissman, Ph.D., University of Michigan, 1980.
Karl E. Karlstrom, Ph.D., University of Wyoming, 1981.
Cornelis ("Kase") Klein, Ph.D., Harvard University, 1965.
Barry S. Kues, Ph.D., Indiana University, 1974.
Leslie D. McFadden, Ph.D., University of Arizona, 1982.
James J. Papike, Ph.D., University of Minnesota, 1964. (Regents Professor)
Jane Selverstone, Ph.D., Massachusetts Institute of Technology, 1985. (Regents Lecturer)
Gary Smith, Ph.D., Oregon State University, 1986.

ASSOCIATE PROFESSORS:

Yemane Asmerom, Ph.D., University of Arizona, 1988.
Adrian J. Brearley, Ph.D., University of Manchester, (United Kingdom), 1984.
Maya Elrick, Ph.D., Virginia Tech. University, 1990.
David Gutzler, Ph.D., Massachusetts Institute of Technology, 1986. (Regents Lecturer)
Stephen P. Huestis, Ph.D., University of California, San Diego, 1976.
Zachary Sharp, Ph.D., University of Michigan, 1987.

ASSISTANT PROFESSORS:

Peter Fawcett, Ph.D., Pennsylvania State University, 1994.
Tobias Fischer, Ph.D., Arizona State University, 1999.
Grant Meyer, Ph.D., University of New Mexico, 1993.
Mousumi Roy, Ph.D., Massachusetts Institute of Technology, 1997.

SENIOR RESEARCH PROFESSORS:

Roger Y. Anderson, Ph.D., Stanford University, 1960.
Wolfgang E. Elston, Ph.D., Columbia University, 1953.
Lee A. Woodward, Ph.D., University of Washington, 1962.

RESEARCH PROFESSORS:

Horton Newsom, (Institute of Meteoritics), Ph.D., University of Arizona, 1981.
Franciscus J.M. Rietmeijer, (Institute of Meteoritics), Ph.D., Rijksuniversiteit-Utrecht, Netherlands, 1979.
Charles K. Shearer, Jr., (Institute of Meteoritics), Ph.D., University of Massachusetts, 1983.

PROFESSOR EMERITUS:

Rodney C. Ewing, Ph.D., Stanford University, 1974.
J. Paul Fitzsimmons, Ph.D., University of Washington, 1949.

RESEARCH STAFF:

Viorel Atudorei, Research Scientist III, Ph.D., University of Lausanne, Switzerland, 1998.
Lars Borg, Senior Research Scientist, (Institute of Meteoritics), Ph.D., University of Texas at Austin, 1996.
James Connolly, Research Scientist II, M.S., University of New Mexico, 1981.
John Husler, Research Scientist III, M.S., University of New Mexico, 1968.
Rhian H. Jones, Senior Research Scientist (Institute of Meteoritics), Ph.D., University of Manchester, Great Britain, 1986.
Victor Polyak, Research Scientist III, Ph.D., Texas Tech University, 1998.
Aurora Pun, Post-Doctoral Scientist, Ph.D., University of New Mexico, 1996.
Michael N. Spilde, Research Scientist III, (Institute of Meteoritics), M.S., South Dakota School of Mines and Technology, 1987.
Huifang Xu, Research Scientist III, Ph.D., Johns Hopkins University, 1993.

ADJUNCT PROFESSORS:

Bruce Allen, University of New Mexico, 1993.
Sidney Ash, Ph.D., The University, Reading, England, 1966.
Warren S. Baldridge, Ph.D., Caltech University, 1978.
M. Susan Barger, Ph.D., Pennsylvania State University, 1982.
James E. Bossert, Ph.D., Colorado State University, 1990.
Fraser E. Goff, Ph.D., University of California, Santa Cruz, 1977.
Grant H. Heiken, Ph.D., University of California, Santa Barbara, 1972.
Claudia J. Lewis, Ph.D., Harvard University, 1994.
Spencer G. Lucas, Ph.D., Yale University, 1983.
Sean McKenna, Ph.D., Colorado School of Mines, 1994.
Matthew Nyman, Ph.D., Virginia Polytechnic Institute and State University, 1992.
Donald Peterson, Ph.D., Stanford University, 1961.
Aurora Pun, Ph.D., University of New Mexico, 1996.
Walter C. Riese, Ph.D., University of New Mexico, 1980.
John Shomaker, Ph.D., University of Birmingham (United Kingdom), 1995.
Daniel B. Stephens, Ph.D., University of Arizona, 1979.
Gregory Valentine, Ph.D., University of California, Santa Barbara, 1988.
Erik Webb, Ph.D., University of Wisconsin, Madison.
Thomas Williamson, Ph.D., University of New Mexico, 1993.
Kenneth Wohletz, Ph.D., Arizona State University, 1980.

STAFF:

Mabel T. Chavez, Editorial Technician
Gilbert E. Griego, Harding Mine Maintenance Mechanic
Sally E. Hayes, Accounting Technician
Paula Holub, Department Administrator
Cindy Jaramillo, Administrative Assistant II
Sarah Lentz, Administrative Assistant III, Institute of Meteoritics
Robert Macy, Research Engineer

Florine Rietmeijer, Lab Assistant
Yolanda Skotchdopole, Administrative Assistant I, Institute of Meteoritics
Matt Nyman, Natural Science Coordinator
Anthony Velardez, Facilities Service Technician

VISITING SCIENTISTS:

Anne Alexandre, CNRS, CEREGE, Aix en Provence, France.
Luigi Dallai, University of Rome, Italy.
Yuri Dublyanski, Russian Academy of Science, Novosibirsk, Russia.
Jeff Heikoop, Los Alamos National Lab.
Jeff Kelly, US Forest Service, Albuquerque.
Marco Mola, University of Rome, Italy.
Tim Meehan, Humboldt State University.
Gary O'Brien, Northern Arizona University, Flagstaff.
Jim O'Neil, USGS Menlo Park, California.
Andreas Pack, University of Bonn, Germany.
Dr. Joseph McAuliffe, Desert Botanical Garden, Oct. 16-20, 2000 and Feb. 6-10, 2001.

DEPARTMENTAL STANDING COMMITTEES, 2000

GRADUATE COMMITTEE

A. BREARLEY
J.W. GEISSMAN
M. Campana
D. Gutzler
B. Kues
G. Meyer

UNDERGRADUATE COMMITTEE

G. SMITH
L. CROSSEY
S. HUESTIS
K. Karlstrom
M. Roy
J. Selverstone

SCHOLARSHIP COMMITTEE

M. ELRICK
T. Fischer
S. Huestis
J. Selverstone

FACILITIES COMMITTEE

Z. SHARP
A. BREARLEY
J.W. Geissman
J. Papike
C. Shearer

COMPUTER COMMITTEE

P. FAWCETT
J. Connolly
T. Fischer
D. Gutzler
M. Roy
M. Spilde
(Graduate student)

LONG RANGE STRATEGIC PLANNING COMMITTEE

J. PAPIKE
L.D. McFADDEN
L. Crossey
T. Fischer
J.W. Geissman
K. Karlstrom
Z. Sharp

FACULTY SALARY ADVISORY COMMITTEE

L.D. McFADDEN
D. Gutzler
J. Selverstone
P. Fawcett
G. Smith

COLLECTIONS COMMITTEE

C. KLEIN
B. Kues
G. Smith

GRADUATE ADVISORS

A. BREARLEY
J.W. Geissman

UNDERGRADUATE ADVISORS

S. HUESTIS
L. Crossey

HONORS ADVISOR

L. CROSSEY

LIBRARY LIAISON

B. KUES

SAW ROOM

T. FISCHER

VEHICLES

G. MEYER
P. Holub
(Graduate student)

ALUMNI RELATIONS

L.D. McFADDEN
L. Crossey
J.W. Geissman
Z. Sharp

APPOINTMENTS AND SEPARATIONS

APPOINTMENTS TO FACULTY

Tobias Fischer, Assistant Professor (untenured), January, 2000.
Grant Meyer, Assistant Professor (untenured), August, 2000.
Mousumi Roy, Assistant Professor (untenured), August, 2000.

SEPARATIONS FROM FACULTY

None.

APPOINTMENTS TO STAFF

Victor Polyak, Senior Research Scientist I, November, 2000.
Yolanda Skotchdopole, Institute of Meteoritics, July, 2000.

SEPARATIONS FROM STAFF

Yongxiang Guo, Senior Research Tech., May, 2000.
Mary Marcilla, Administrative Assistant I, IOM, June, 2000.
Mary Simmons, Editorial Tech., December, 2000.
Jennifer Loomis, Post-Doctoral Scientist, June, 2000.
Kamran Syed, Post-Doctoral Scientist, June, 2000.

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II. ACTIVITIES, ACHIEVEMENTS, AND PLANS

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INTRODUCTION

This annual report summarizes the activities, accomplishments and plans of the Department of Earth and Planetary Sciences (E&PS), including the Institute of Meteoritics (IOM), during the academic year, 2000-2001. Most details of faculty activities (Part III), however are derived from biographical supplements for 2000. As this is the only document that comprehensively summarizes the Department's history during the past year and it is used as a source of information by many people both within and outside of the University, we have endeavored to make it as complete as possible.

During most of 2000, the faculty of the Department of Earth and Planetary Sciences consisted of 20 regular tenured or tenure-track faculty, 3 Senior Research Professors, and 3 Research Professors. In addition, 9 Ph.D.-level research scientists (5 within IOM) filled a variety of non-faculty positions within the Department. Most were scientific staff with specific responsibilities relating to analytical laboratories and departmental research endeavors; a few were post-doctoral scientists. The Departmental faculty is thus augmented by a significant number of other geoscientists, with Ph.D., or Master's degrees, who in some cases participate in teaching and advising of graduate students, and add to the research capabilities and scholarly reputation of the Department.

Permanent scientific staff also includes several technicians and Research Associates, and the office administrative, clerical, and support staff also contribute vitally to the functioning of the Department. Several other geoscientists affiliated with other institutions were in residence in the Department for periods ranging from weeks to the entire year, conducting research as visiting scientists and working with faculty and staff members. The names of all these departmental personnel are included in the Appendix or are noted later in this section.

FACULTY AND STAFF ACCOMPLISHMENTS

Position Changes in Faculty

One new faculty member joined the Department in January of 2000, Assistant Professor Tobias Fischer.

Two new regular faculty members joined the Department in the Fall, 2000, Assistant Professors Grant Meyer and Mousumi Roy.

Impending Faculty Changes

In the Fall of 2001, the Department will be joined by Associate Professor, Louis Scuderi, who was formerly in the UNM Department of Geography. Dr. Scuderi's research interests included paleoclimatology, dendrology and applications of G.I.S. in various earth and environmental studies.

Other Position Changes

Fall of 2000, Dr. Victor Polyak accepted a position on the research staff in the Radiogenic Isotope Laboratory.

Faculty Advancement and Selected Honors

Although Section III contains all appropriate data concerning faculty advancement, activities and honors, we include here some selected highlights for 2000.

In Spring 2001, Associate Professor David Gutzler was recommended by the Dean and Provost for promotion to full Professor as of Fall 2001.

The faculty reviewed and recommended Associate Professors Adrian Brearley and Zachary Sharp for tenure promotions. In the Spring of 2001, the Department received news that positive tenure decisions were supported at the College and at higher administration structure levels.

In Spring 2001, the faculty reviewed the Department's three Research Professors (Horton Newsom, Frans Rietmeijer, and Chip Shearer), and renewed their two-year appointments.

Dr. Cornelis "Kase" Klein served as President of the Mineralogical Society of America. His term began in the Fall of 2000.

Dr. Adrian Brearley was elected to the Council of the Meteoritics Society.

Mike Campana continued his half-time appointment as Director of UNM's Master of Water Resources Administration program this year.

Dr. David Gutzler was named University of New Mexico Regents' Lecturer for 2000-2003.

Dr. Jane Selverstone served in a second year as a UNM Regent's Lecturer.

John Geissman served as President of the UNM Faculty Senate in the academic year 2000-2001.

Laura Crossey and Gary Smith served as Assistant Chairs of the Department during the academic year 2000-2001.

Laura Crossey completed a term as College of Arts and Sciences Associate Dean in August, 2001.

Les McFadden was the co-winner of the Farout El-Baz Award for Desert Research from the Quaternary Geology and Geomorphology Division of the Geological Society of America.

Sabbatical and Other Leaves

Dr. Yemane Asmerom has a sabbatical leave scheduled in two semesters of academic years 2000-01 and 2001-02. His sabbatical research will focus on development of new techniques in the use of radiogenic isotopes, purity in collaboration with colleagues at the University of Minnesota. He will also continue serving other ongoing research projects with graduate students and other researchers at UNM.

Dr. Barry Kues was on sabbatical leave during the 1999-2000 academic year, following an 8-year tenure as departmental chair. The leave was spent at UNM, mainly working on several research projects and publications that had been delayed because of administrative duties. Publications completed during the sabbatical include: 1) A monograph on a fauna of more than 150 Pennsylvanian gastropod species, 19 of them new, from near Taos (published in January, 2001 as a Paleontological Society Memoir); 2) A paper describing 2 new genera and 3 new species of Pennsylvanian gastropods from west Texas (in press, in the Journal of Paleontology); 3) A paper describing an unusually diverse Cretaceous crustacean fauna, with new genera and species, from the Socorro area (now in press in the Journal of Paleontology); 4) A paper summarizing New Mexico Pennsylvanian strata with some suggestions for changes in nomenclature (in press, in New Mexico Geology). In addition, research and several manuscripts on Cretaceous stratigraphy and paleontology in east-central New Mexico were begun during the sabbatical; these papers are in press in the New Mexico Geological Society's upcoming book on the geology of east-central New Mexico. A large new research endeavor, examining the stratigraphy and paleontology of strata around the Pennsylvanian-Permian boundary throughout New Mexico, was initiated, with Dr. Spencer Lucas, of the New Mexico Museum of Natural History. More than a month of the sabbatical was spent in the field in support of this study. Finally, planning, organizing and gathering materials for a new course (E&PS-250, Geology of New Mexico) were initiated. The course was taught in Fall, 2000, with an enrollment of 23.

Instructional Activities

1. Student enrollments

Student enrollments in Department of Earth and Planetary Sciences courses during the 2000-01 academic years, as indicated by total student credit hours (SCH), totaled 6752 for regular courses, and 7812 counting Natural Sciences courses (see Table below). These figures represent an increase of 4.5% for the regular courses, and an overall increase of 3.1% with Natural Sciences, compared to the previous year. These figures include academic year courses plus our three summer field courses (E&PS-319, -420, and -451). The Department's SCH figures for the past 7 years are given below. The declines in departmental SCH between 1995 and 1998 have to some extent mirrored similar declines in UNM enrollment, and perhaps too, an increase in transfer students who have fulfilled science requirements at other institutions.

Nevertheless, the increase in SCH observed in academic year 1999-2000 compared to past years was repeated in academic year 2000-01, although the size of the increase was not nearly as large. Two consecutive years of increased SCH have resulted in an overall increase of 17.8% (for E&PS courses only) since academic year 1998-99. In addition, overall E&PS SCH productivity returned to levels last observed during the academic year 1994-95. If one considers all courses taught in this department (i.e., including Natural Sciences courses), enrollment is up 23% since academic year 1996-97. Finally, fall, 2001 enrollment figures as of the preparation of this report indicate overall E&PS enrollments have returned to levels not witnessed since the early 1990s.

Year	SCH	SCH (with Natural Sciences)	% change from previous year	
			regular	Inc. N.S.
1994-95	6763	-	-6.7	-
1995-96	6524	-	-3.5	-
1996-97	6303	-	-3.4	-
1997-98	5882	6534	-6.7	+3.7
1998-99	5705	6777	-3.0	+3.7
1999-00	6464	7580	+13.3	+11.8
2000-01	6752	7812	+4.5	+3.1

As noted in last year's annual report, the Department had extensively discussed enrollment trends in the past two years, with a view towards determining causes for declining enrollments and measures that could be taken to continue to increase student enrollment. The report also identified and discussed numerous factors appear to be involved.

In the past few years, overall enrollment at UNM and in the College of Arts and Sciences has increased by a few percent per year. Because the enrollment increased in E&PS are much larger over that time period, it appears that some of the measures adopted by the Department to improve enrollments have worked. Inspection of enrollment figures suggests that one major factor has been significant improvement in 100-level, introductory E&PS courses. Presumably, offering these courses at prime times, coupled with dedicated efforts to improve the quality of our course offerings have been beneficial. Another factor that may be important, however, is the tendency of many students to defer enrollment in science courses until their junior or even senior years. Accordingly, many freshmen who come to UNM due to the lottery enrollment may only now be registering in courses required to fulfill their physical science core requirement.

The number of E&PS undergraduate majors or graduate students has not significantly enlarged, and so the SCH associated with upper division and graduate courses has not significantly changed over that time. With the initiation of the new Environmental Science B.S. degree program in the fall of 2001, however, it is hoped that the Department will be able to attract new students into this degree program. This would, in turn, produce a net increase in the overall number of Department SCH produced, presuming the increase in majors does not come at the expense of the pool of students who would otherwise become E&PS undergraduate majors. Finally, the Department will continue to develop new, exciting courses, as well as further develop the Natural Science Program as discussed in the previous Annual Report.

At the end of Spring, 2001, the number of declared undergraduate E&PS majors stood at 70. During Spring, 2001, 55 students were pursuing M.S. and Ph.D. degrees (see section 2 for additional, related data concerning students) in the Department.

2. Developments in Course Offerings

The faculty taught a very large majority of the courses offered by this department in 2000. A few new or modified courses were conducted this year.

E&PS 300, New Mexico Field Geology, formerly taught as a 200-level course, was offered. In its new format, the course is designed to fulfill the needs of E&PS-majors on the BA Program for a field geology course. Other majors, E&PS minors, or students having at least an introductory course in geology also can take the course. 23 students took the course taught by Drs. Karl Karlstrom and John Geissman, a relatively large enrollment for such a course. The "Material Science of Arts Objects", taught by Adjunct Associate Professor Susan Barger, was also offered as an E&PS-300 course. Students in Fine Arts could enroll in the course as a co-listed offering in their college. E&PS-250, "The Geology of New Mexico", a course not offered in many years, was taught by Dr. Barry Kues. It attracted a healthy enrollment of 23 students. "Mathematical Modeling in the Geoscience" was offered as an E&PS-400 course by Dr. Peter Fawcett. The success of this course has led Dr. Fawcett to develop the course as a formal course, E&PS-557L. Dr. Adrian Brearley also offered "Processes in the Earth's Interior" as an E&PS-400 class. Finally, one of our two new Assistant Professors, Dr. Mousumi Roy, offered E&PS-523, Topics in Tectonics. It attracted 12 students, a relatively healthy enrollment for their new and exciting class that considers tectonics from a more geophysical perspective. The success the Department has had offering such courses indicates to us that such courses are an effective way of increasing the diversity and attractiveness of E&PS courses at all levels, as well as indicating which new courses might be appropriately added as formal courses in our undergraduate and graduate curriculum.

The Department continued to assume responsibility for the Natural Sciences Program, which provides a series of three courses integrating the natural sciences for College of Education students who will become K-9 teachers in New Mexico's public schools. The intent of the program is to provide potential public school teachers with solid training in science and in the effective teaching of science to younger students. In the Fall of 2000, 8 classes were offered with a total enrollment of 133 students, producing 532 credit hours, a not insignificant contribution to the total SCH produced by the Department. The further integration of Natural Sciences Program and geoscience education into the Department continues to be one of several key issues in considering the future of the Department.

3. Summer Course Offerings

During Summer 1999 the Department conducted its 6-week Beginning and Advanced Field Geology sequence (E&PS-319 and E&PS-420). Both the field courses, but especially E&PS-319, experienced increases in enrollment. E&PS-319 attracted 39 students. E&PS 420 also maintained a healthy enrollment of 19, the maximum number of students that can be accommodated in this class. Another field course offered by the Department was "Field Volcanology" (E&PS-453/553L). This course is one of only a few such courses offered nationally, and it attracts students from many other institutions in the U.S. The course represents one important aspect of the UNM-LANL Volcanology Program. The Department also offered E&PS-101, -105, and 225 (Oceanography) during summer 2000, with the latter course of special interest to public school teachers and trainees.

4. Curriculum Changes and Outcomes Assessment

The UNM Faculty Search and ultimately UNM approved a proposal by the undergraduate committee for a Bachelor of Science degree in Environmental Sciences. This degree is offered through E&PS (in addition to our regular E&PS degree), and includes several required E&PS, math and outside science courses, an interdisciplinary menu of course options, and two new "core" environmental science courses. This degree program provides students rigorous training in the environmental sciences to better prepare them for careers in this rapidly maturing field. In the Fall of 2001, two courses in the new degree program: The Blue Planet (Env. Sc., 101) and Environmental Systems (Env. Sc. 330).

Outcomes assessment was not conducted by the Department during the academic year, owing to a decision by higher level administrator review and reconsider outcomes assessment.

Research and Publication

The faculty, research staff and students of the Department continued their high level of productivity in research in 2000. Research, contributing to human knowledge in one's discipline, is an essential and fundamental function of the Department of Earth and Planetary Sciences at UNM. The Department's status and respect within its discipline depends primarily on the quality and quantity of its research, just as a university's stature depends mainly on the scholarly activities of its entire faculty. In addition, active research programs form an essential teaching tool in keeping students up to date, in educating them not only about facts but also about how knowledge is gained, and (especially with graduate students) providing support for thesis/dissertation work and in the mentoring process of future geoscientists.

During calendar year 2000, members of the Department and Institute of Meteoritics (including faculty, research scientists and students) produced 150 publications, including books, scholarly papers in refereed journals, edited volumes, geologic maps, notes, extended abstracts and technical reports (see section 3). A significant fraction of these publications are papers published in major national and international journals or edited volumes (see "Faculty Publications and Creative Works, 2000). For example, tenure stream faculty produced 50 publications in peer-reviewed journals and edited volumes.

As in past years, graduate students and even some undergraduates participated significantly in the Department's publication effort (see section IV). Many refereed papers published in 2000 had student coauthors and students also contributed to many of the published abstracts based on presentations made at professional meetings; in many cases students were the presenters. This shows the importance the faculty places on involving students in research and in presenting the results of their research through professional talks and publications, an important part of their preparation for careers in the geosciences.

E&PS and IOM have and continue to be very successful in acquiring substantial amounts of funding from a variety of agencies in support of it's research and teaching mission. A significant number of these grants were funded by NSF, an especially notable point given the very low "success rate" associated with NSF proposals in the Earth and Planetary Sciences (typically less than 10-15%). In fact, 78% of the faculty are funded by NSF grants, a percentage that is probably double or even triple that of comparable "peer group" departments. The following information provides the basis for this assessment:

Contracts and Grants to the Department of Earth and Planetary Sciences and the Institute of Meteoritics in fiscal year 2000 equal $926,770. Total UNM indirect costs; E&PS - $167,464; IOM $142,115. Total indirect costs for fiscal year 2000 $309,579. Percent faculty members acquiring grants/contracts in 2000 – 78%. Percent faculty members with grant/contract active in 2000 – 78%.

In addition to this funding faculty members and research scientists in E&PS and IOM play an essential role in helping to attract very substantial amounts of funding to the College or the College of Engineering by virtue of (1) research expertise of some of these individuals that has enabled the development of highly interdisciplinary research groups, who in turn are able to acquire funding made available specifically for such interdisciplinary research; and (2) the availability of state-of-the-art analytical facilities that exist nowhere else on campus and that is essential to the research to the research of many scientists at UNM. The total amount of such funding associated with grants and contracts acquired or active in 2000 are $12.7 million.

Grants attracted to UNM that are currently active in which E&PS played essential and or critical role:

National Science Foundation "IGERT" grant (Supports Freshwater Interdisciplinary Doctor Programs in Biology and E&PS, offered jointly by UNM and the University of Alabama, UNM PI: Cliff Dahm, 5 collaborating investigators in E&PS) 2.7 million (1999-2004).

National Science Foundation FEGTEM grant, (PI is Abhaya Dayte, Engineering; Jim Papike and Huifang Xu were Co-PIs, Instrument located in E&PS-TEM Laboratory). $1.0 million (funded in 2000).

Additional current research grants and contracts that require the presence of the E&PS TEM laboratory to support research activities at UNM (approximate amounts).

College of Arts and Sciences

Department of Chemistry

J. Shelnutt:	$300,000
G. Lopez	300,000
R. Loehman	50,000
R. Payne	100,000

Biology

L. Barton	$250,000

College of Engineering

Civil Engineering

B. Thompson	$250,000

Chemical and Nuclear Engineering

T. Ward	$250,000
W. Lutze	100,000
A. Datye	1,352,000
J. Brinker	1,130,000

Research Centers

CMEM

W. Kroenke	$2,500,000

CHTM

K. Malloy	$ 899,000
M. Osinski	763,000
S. Hersee	416,000

In addition to publications and grant/contract-supported research, the E&PS faculty and research staff also pursued a wide variety of other research projects during 2000 that were not externally funded or published upon during the year (see Section 3).

Other Scholarly Activities

Most of the faculty and research staff participated widely outside the University in various professional activities at the state, national and international levels. These include service on the committees and panels of governmental agencies, as well as participation in professional organizations, such as presenting talks and posters at national meetings, organizing and chairing symposia, leading field trips, and serving as officers. Such activities are a form of service to the profession, but also increase professional recognition, the opportunity for collaborative research, and leads to greater visibility for UNM and the work of its faculty. This participation is shown in sections III and IV.

Participation by the faculty and research staff as Editors, Associate Editors, and on Editorial Boards of international journals was substantial in 2000 as it has been in the past. Also, several faculty participated in scholarly and professional activities in numerous foreign countries. Such activities help to advance UNM's reputation worldwide.

University and Public Service

Service to the College, University and to the public is an important component of the Department's activities. E&PS Faculty members are heavily involved in different areas of service to the College, University (C,U) and Community (Cm). The list below indicates the nature of such service (please note that under Community service I include a selection of examples for most faculty members); some more important examples of such services are in italics.

Yemane Asmerom (Associate Professor)
(Cm) – Involvement in Amnesty International and the Sierra Club.
(C.U) – UNM Graduate Studies Office Proposal Selection Committee.

Adrian Brearley (Associate Professor)
(CU) – Member, University RAC (2000-) and the *University Limited Competition Review Panel for NSF Nanoscale Science Program.*

(Cm) – Interviewed for article in Discover Magazine about meteorites; participated in Meteorite display for Astronomy Day at Winrock Mall, Albuquerque, NM.

Michael Campana (Professor)
(C,U) – *Director, Water Resources Program;* Member, Program Committee, WRP: *Co-Chair, Faculty Senate Curriculum Committee;* Member, Registrar Search Committee; *Member, Geography Department Review Committee;* Co-Chair, Strategic Committee on Graduate and Professional Education, Recruiting and Mentoring; Member, Search Committee, Director of Domestic Programs, Utton Transboundary Resource Center, School of Law.

(Cm) – Volunteer, Lifewater International and Team Leader-Panama Project (developing potable water resources for the Epera Indians); Member, Intel Corporation Community Advisory Panel.

Maya Elrick (Associate Professor)
(CU) – KUNM Radio Board.

Laura Crossey, Professor
(CU) – *Associate Dean, Student Academic Affairs* (through 8/00).
(Cm) – Member, New Mexico Partnership for Math and Science Education.

Peter Fawcett (Assistant Professor)
(Cm) – Interviewed by Science Reporters for the Albuquerque Journal, Albuquerque Tribune and prominently noted in resulting articles.

Tobias Fischer (Assistant Professor)
(Cm) – Numerous interviews (and resulting notice) with journalists and with BBC about active volcanoes.

John Geissman (Professor)
(CU) – *President of the UNM Faculty Senate* (2000-); Member, Faculty Senate Governmental Affairs Committee; *Chair College of Arts and Sciences Jr. Promotion and Tenure Committee (2000); College of Arts and Sciences Graduate Committee;* University North Central Association Steering Committee Member.
(Cm) – Alumni Advisory Board, University of Michigan; work with Career Enrichment Center, Albuquerque Public Schools; Geoscience Advisor, Albuquerque Petroglyphs National Monument Committee; several public interest talks (e.g., Rio Grande Civitan Club).

David Gutzler (Professor)
(CU) – *Faculty Senate Computer Use Committee.*
(Cm) – Interviewee on KUNM-TV: Drought in New Mexico; *Member, Science Advisory Committee for U.S. Representative Heather Wilson.*

Steve Huestis (Associate Professor)
(CU) – Arts and Sciences Undergraduate Committee and the Curriculum Committee.

Karl Karlstrom (Professor)
(CM) – Presented talk at the Albuquerque Gem and Mineral Society.

Cornelis Klein (Professor)
(Cm) – Member, Rotary Club of Albuquerque, and it's Program Committee.

Barry Kues (Professor and past Chair of E&PS)
(CU) – Faculty Senate Library Committee; Faculty Senate Budget Committee; *Chair, Arts and Sciences Senior Promotion Committee.*

Les McFadden (Chair and Professor)
(CU) – Member, Faculty Senate; Secretary, Caswell Silver Foundation Board; Member, Advisory Council of the Albuquerque Teachers Institute; *Member, Strategic Planning Committee on Support for Research, Scholarship and Creative Activity.*

(Cm) – Member, Coalition for Excellence in Science and Math Education.

Jim Papike (Director, Institute of Meteoritics) and Professor
(CU) – Director, Institute of Meteoritics.
(Cm) – Numerous discussions with media, public concerning issues of planetary science.

Jane Selverstone
(CU) – University Research Allocations Committee; Member, Committee to evaluate the UNM Library Dean; Regent's Lecturer Evaluation Committee (Arts and Sciences).

(Cm) – Judge, Earth Sciences Division; Northwest Regional Science Fair.

Zachary Sharp (Associate Professor)
(Cm) – Taught science classes at Zuni Elementary School.

Gary Smith (Professor)
(CU) – Member of the Caswell Silver Foundation Board and its Audit Committee.
(Cm) – Work with the U.S. BLM for establishment of the Kasha-Kasuwe Tent Rocks National Monument.

In 2000, many E&PS faculty and research scientists were featured in newspaper articles and radio and television reports on a variety of topics ranging from regional weather and climate issues to studies of meteorites, fossils and volcanoes.

An important resource provided by the Department to the University and the public is maintenance (without specified University support) of two public museums, one devoted to geology (rocks, minerals, fossils, New Mexico geology) and the other to meteorites. These museums are open each weekday, are free, and are visited by thousands of school children and adults each year. A free pamphlet provides information for a self-guided tour, and faculty and graduate students on occasion lead tours when arrangements have been made in advance. Thousands of recorded (group) visitors toured the Geology Museum in 2000; as many or more unrecorded (individual) visitors also visit the museum. These visitors include dozens of elementary, middle, and high school classes from around New Mexico, together with teachers and parents (see Appendix for a complete list). The Geology Museum and collections constantly receive donations of new materials, and donated funds are used to purchase several display-quality specimens each year. The Geology Museum was again represented by G. Smith at the Annual Tucson Gem and Mineral Show, the nation's largest, in February 2000.

The Department also maintains the Harding Pegmatite mine in southern Taos County, donated to UNM by Dr. Arthur Montgomery, as an unusual mineral-collecting locality and outdoor geological laboratory. Mr. Gilbert Griego, a Department staff member, is the long-time caretaker of the property. Over 1400 people visited the Harding property in 2000-01, and they came from all over the country (37 states) (see Appendix). Among the visitors were mineralogy and field geology classes from several other universities, in addition to students from UNM. Clearly, the Harding mine is very well known to geologists and amateur rock hounds and mineral collectors, and in maintaining and operating it, the University and Department perform a notable service for the public. The Department welcomes visitors, but permission from the E&PS Chair must be obtained before each visit. In the past academic year, the Department modified the permission form such that it enables visitors the opportunity to donate some money to help in the upkeep of this important university resource. To date, at least 200 dollars have been donated.

GENERAL DEPARTMENTAL ACTIVITIES

Facilities

1. Capital Improvements

As usual, with one exception indicated below there were no significant capital improvements to Northrop Hall this past year, although some are needed. We are pleased to see, however, the construction of a new "Chemistry-E&PS" building as a high university priority and that a formal request has been made to the legislature for allocation of funds to support preliminary plans for planning and design of such a facility. Renovation of our large lecture hall (Northrop Room 122), part of a larger plan that included renovation of the Biology Department's lecture hall and Woodward hall, was largely complete by the beginning of the spring semester, 2001. The upgraded facilities now enables lecturers to utilize computer aided illustration as well as proformally improve other aspects of the room. Unfortunately, owing to a predictable robbery of the essentially unprotected, expensive audio visual equipment worth several thousand dollars was lost. Later that spring, UNM initiated a program to provide better locks for the projection facility as well as install an alarm system.

In response to the Dean's request, the Department submitted its request for new equipment and minor capital improvements in February. The highest priorities for capital improvements are substantial repair and renovation of several heavily utilized classrooms, an upgrade of our radioactive mineral storage area, and replacement of the 55-year old, creaky main elevator. In the Fall of 2000, we again learned that there were no funds to respond positively to this request.

Although funds for capital improvement were not available, discussions amongst several key Department Committees provided strong arguments for the immediate need to dramatically upgrade the Departments Computer and Microscopy facilities, largely for the benefit of our graduate and undergraduate students. We ultimately developed a plan that entailed significant modifications to several offices and other spaces to accommodate the atoms. Utilizing Departmental funds to pay for the modifications and purchase of new materials, new computer and microscopy facilities were in place by the Fall of 2000. We continue to upgrade these facilities as appropriate. Faculty, staff, students and Department alumni have all indicated how much they appreciate these facilities. Students have commented how much they have improved their ability to conduct research, while faculty members note how teaching

has been favorably affected. Finally, with some minor modifications to the front office complex, our administrator has been moved to a much larger office to better accommodate needs and demands of this critical position.

2. Analytical Facilities

The Department and Institute of Meteoritics maintains an outstanding array of analytical facilities necessary to advanced research in many areas of the earth sciences. These facilities are also utilized extensively by other departments and high-tech centers on campus, as well as institutions outside UNM (e.g., the national labs, Intel Corp., etc.). Sustaining the operation and maintenance of the Department's analytical laboratories (mainly from grants and user fees) is for the most part successfully accomplished, but in some cases rather precariously. The costs of instructing students in these labs, service contracts and technician salaries is a persistent drain on their budgets, which may be exacerbated by declines in the user base. Relatively little assistance can be provided directly by the Department, and annual University support for the operation of out multi-user analytical labs, which are really university facilities, was nil this past year.

The newest addition to the Department's laboratories is the Volcanic and Geothermal Fluid Analyses Laboratory. This analytical facility provides a gas chromatography system for the simultaneous analyses of CO_2, CH_4, CO, N_2, He, Ar, H_2 and O_2, concentrations using a Thermal Conductivity Detector (TCD) and Flame Ionization Detector (TCD). An automatic titrator, specific ion electrodes and gravimetric techniques are used for the analyses of carbon and sulfur species as well as chlorine and fluorine concentrations in solution. This laboratory has been developed by Assistant Professor Tobias Fischer, with funding from N.S.F., the University of New Mexico and the Department.

In 2000-2001, a $1.75 million state-of-the-art field emission gun scanning transmission electron microscope was installed in the Electron Microbeam Analysis Facility in the Department of E&PS and IOM. This instrument adds a number of important new analytical capabilities that extend our already excellent electron microscopy capabilities. The instrument was purchased from funds provided by a grant from the National Science Foundation and matching funds from the University of New Mexico. The acquisition of such an instrument is a tribute to the high quality, diverse multidisciplinary research that has been carried using our existing analytical facilities. This new instrument will be at the core of new Nanoscience and Nanotechnology initiatives at UNM and elsewhere in New Mexico. The capabilities of the instrument have wide applications across the fields of earth sciences, chemistry, materials science, engineering and the biological sciences. The instrument provides us with subnanometer resolutions that will allow researchers to probe the structure and chemistry of a wide variety of materials (minerals, ceramics, catalyst, semiconductors, thin films) at atomic resolutions.

3. Computing Facilities

Over the past year the department has significantly updated it's computing facilities with the following additions to the student computer lab: Four new Dell Pentium III Windows 2000 workstations (two with CD-RW drives). Five new Gateway Pentium IV Windows 2000 workstations, a high-resolution slide and film scanner for 35mm slides and negatives, a high-resolution page scanner with auto document feeder, two notebook computers for use in projector-equipped classrooms, and a new high-resolution digital camera for field and lab use.

The Department purchased the Dell notebook computers and the two scanners. The Gateway computers were purchased from the College of Arts and Sciences funds to support our graduate students.

Last year, the Department web site averaged about 600 hits a week on our homepage. Since lots of sites in the department use this as their home page, perhaps about 200 of those are from non-UNM sources.

In the current academic year, the department hopes to expand network disk storage capabilities ($550), purchase two IMAC computers for the lab (about $2,200), and acquire a new system for our Web site (about $2,200).

4. Teaching Facilities

As discussed in a previous section, several modifications to our classrooms were made to enable development of vastly improved computer and microscopy laboratories.

Recruiting Visits

The Department did not host recruiters from companies such as Vastar Resources, Conoco, Exxon, and Arco Gas during 2000 as we have usually done in the past. Changes in the petroleum-sector economy in the past decade has severely limited hiring in this area and therefore diminished recruiting by such companies. However, in Spring, 2001, department alumnus, Dr. Rusty Riese, visited the department to discuss the possibility of future visits by his company representatives (British Petroleum). These are signs that suggest some renewed hiring of geology graduates by such companies.

Professional Lectures given in the Department during the 2000-2001 academic year are listed below:

Date	*Speaker*	*Title of Presentation*
9/1/00	Claudia I. Mora	University of Tennessee. "Digging Up Dirt On Ancient Atmospheres: The Soil Record of Atmospheric CO_2"
9/8/00	Stanley Ambrose	University of Illinois. "Diet Reconstruction With Stable Isotopes of Bones and Teeth: Experiments and Applications"
9/15/00	Lars Borg	Institute of Meteoritics, UNM. "Constraints on Martian Geological Processes From Isotopic Analysis of SNC Meteorites"
9/22/00	Jeffrey H. Tepper	Valdosta State University. "Reconstructing the Environmental History of a South Georgia Black-water Lake: The 50,000 Year Geochemical Record From Lake Louise"
9/29/00	Christopher Andronicos	University of Texas-El Paso. "Deep Crustal Structures Within the Coast Plutonic Complex, British Columbia"
10/6/00	Dawn Y. Sumner	University of California-Davis. "Tracing the Early Evolution of Cellular Processes: What Can We Really Say From the Rock Record?"
10/20/00	Abe Springer	Northern Arizona University. "Restoring Aquifer Recharge Through Landscape Restoration: Influence of Upland Grazing, Tree Thinning, and Fire on Riparian Ecosystems"
10/26/00	J. William Schopf	University of California, Los Angeles. Caswell Silver Distinguished Lecturer. "Earth's Earliest Fossils: Solution to Darwin's Dilemma"
10/27/00	J. William Schopf	University of California, Los Angeles. Caswell Silver Distinguished Lecturer. "Disparate Rates, Differing Fates: The Rules of Evolution Changed From the Precambrian to the Phanerozoic"
11/3/00	Rebecca Lange	University of Michigan. "The Origin of Andesite at Subduction Zones"
11/10/00	Andrew B. Heckert	Earth and Planetary Sciences, UNM. "Upper Triassic Microvertebrates From the Chinle Group, South-western USA, and the Early Evolution of Dinosaurs and Mammals"
12/1/00	Karen Prestegaard	University of Maryland. "Hydrological and Geomorphological Controls on Nitrate Delivery to Streams"

12/8/00	Kathy Cashman	University of Oregon. "Flow or Fracture? Crystallinity, Yield Strength, and Transitions in the Surface Morphology of Basaltic Lava Flows"
1/19/01	Rhian Jones	University of New Mexico. Institute of Meteoritics, Mineralogical Society of America Distinguished Lecturer. "Martian Meteorites: A Sneak Preview of Samples From our Neighbor Plane"
1/26/01	David Hilton	Scripps Institution of Oceanography. "Helium Isotope Investigations of Magma Sources, Volatile Fluxes and the Origin of Mantle Plumes: Examples from Hawaii, Iceland and the Lesser Antilles"
2/2/01	G. Randy Keller	University of Texas at El Paso. "Lithospheric Structure and Evolution of the Rio Grande Rift Region: A Global Perspective"
2/9/01	Jan Tullis	Brown University. "Ductile Strain Localization in the Crust; Insights from Experimental Deformation of Feldspathic Rocks"
2/16/01	Ray Kenny	New Mexico Highlands University. "Pleistocene-Holocene Climate From Southern South American Peat Bogs"
2/23/01	V.J.S. Tien Grauch	U.S. Geological Survey. "A Subsurface View of the Albuquerque Basin and Vicinity From Gravity and Aeromagnetic Data: Deep Subbasins, Shallow Faults, and Buried Igneous Rocks"
2/28/01	Fraser Goff	Los Alamos National Laboratory. "Heat Flow and System Models"
3/2/01	Michelle Hall-Wallace	University of Arizona. "Top 10 Reasons to Care About Geoscience Education: #1 It Will Revitalize Your Research Department...."
3/7/01	Fraser Goff	Los Alamos National Laboratory. "Geochemistry of Hydrothermal Systems, Waters"
3/8/01	Robert Berner	Yale University, Caswell Silver Distinguished Lecture. "Hyperoxia in the Late Paleozoic"
3/9/01	Robert Berner	Yale University, Caswell Silver Distinguished Lecture. "Biogeochemistry and the Phanerozoic Carbon Cycle"
3/30/01	Mike Arthur	Pennsylvania State University, Energy Exploration Education Lecturer. "What Do Carbon Isotopes Really Tell Us? A Cretaceous Paleoceanographic Perspective"
4/4/01	Fraser Goff	Los Alamos National Laboratory. "Geochemistry of Hydrothermal Systems, Gases"
4/5/01	David Buesch	U.S. Geological Survey. "Conceptual Development and Pragmatic Uses of Facies of Welded Ignimbrites at Yucca Mountain"
4/6/01	David Buesch	U.S. Geological Survey. "The Integrated Geologic and Hydrogeologic Framework at Yucca Mountain, Nevada"
4/13/01	Gary Gianniny	Fort Lewis College. "Gondawana Drummers and the Ancestral Rockies; The Depositional Dance of Pennsylvanian Carbonate-Siliciclastics Sequences, Paradox Basin, Utah and Colorado"
4/20/01	Eric Roden	University of Alabama. "Microbiological and Geochemical Controls on Bacterial Fe(III) Oxide Reduction: Links Between Surface Chemistry and Microbial Physiology"
5/4/01	Gary Glatzmaier	UNM Center for Advanced Studies Lecture, University of California, Santa Cruz. "Computer Simulations of Planetary Magnetic Fields"

ALUMNI PROGRAMS AND SUPPORT

As noted in the past Department Annual Reports, the Department is very fortunate in being supported by a large group of active and enthusiastic alumni. Individually and collectively these graduates provide generous financial, advisory and moral support for many departmental activities, which contribute significantly to our success in our educational and research missions.

Caswell Silver Foundation

First among sources of alumni support is the Caswell Silver Foundation. Funds generated by the investments of the Foundation in 2000 provided full-time support for the Leon Silver/Vincent Kelley graduate student Fellows (Kurt Steffen and David Vinson), and subsidized most of the travel of faculty to professional meetings. The Foundation also supports periodically an endowed faculty chair, the Caswell Silver Research Professor; however, there was no one in this position during the past academic year.

The Caswell Silver Foundation also supports the Caswell Silver Distinguished Lecturer series, which allows the Department to bring one or two National Academy of Sciences Members for lectures and visits with faculty and students. Last year, the faculty was able to support two distinguished lecturers. In the fall of 2000, the Department invited Dr. J. William Schopf, from the University of California at Los Angeles. Dr. Schopf is one of the world's foremost scientists involved in the study of the evolution of the earth's earliest and most primitive life. During his stay he was able to present two very well received lectures. In the Spring of 2001, the department hosted Dr. Robert Berner, from Yale University; Dr. Berner is widely considered to be one of the leading scientists in research concerning global climate and climate change as inferred through studies of geochemical processes. Visits of Distinguished Lecturers are welcomed by the Department both for the opportunities they provide us to interact with some of the most distinguished and influential geologists in the country, and to inform them about our department and the research and other academic activities we are pursuing.

As in previous years, the Silver Foundation made possible two $800 Meritorious Staff Awards, presented to two outstanding non-academic staff members. These awards allow the faculty to express in a tangible way its deep appreciation for the efforts of the staff in contributing to the effective operation, advancement and well being of the Department. Recipients of these awards, presented at the Department's May, 2000 and May 2001, Commencement Ceremonies, were respectively, Anthony Velardez (Facilities Service Technician), and John Husler (Research Scientist); received $500.00 each. During the 2001 the amount was increased to $800.00. Cindy Jaramillo (Administrative Assistant) and Bob Macy (Research Engineer) both received $800.00 each.

In addition to these major ways in which the Silver Foundation assisted the Department of Earth and Planetary Sciences during the past year, the Foundation also provided the means to accomplish other important functions, such as advertising and supporting the visits of top potential graduate students to the department, and sponsoring the reception for the Distinguished Lecturer. Support from the Caswell Silver Foundation benefits the Department in many different ways, and thereby strengthens the Department as a whole, as well as assisting individual faculty and students in their scholarly endeavors. In the last academic year, the Department and Foundation Board worked closely with Julie Weaks (Interim Provost for Business and Finance); Bill Britton (UNM Controller) and Nick Estes (UNM Legal Counsel) to develop a formal "Memorandum of Understanding" that sets forth in clear terms the formal nature of the relationship between the University and the Foundation as it continues to support the Department. Formal acceptance by the Foundation Board and presentation of the document to the Regents of the University is slated for the fall of 2001.

Alumni Support

Generous donations and contributions from alumni, faculty and friends of the Department support about a dozen scholarship funds, mostly managed by the UNM Foundation. The interest generated by these funds annually is utilized to award scholarships to undergraduate and graduate students. Such scholarships are augmented by other scholarships awarded by the Department, scholarships and research grants from institutions outside the University, and occasionally fellowship funds from the University. A full summary of scholarships and fellowships received by Earth and Planetary Sciences students is presented in Part IV of this report. These data show that during each of

these years, almost $50,000 of support is provided through funds such as Alumni Fellowship, Kelley, Miossec, Wanek, Rhodes, Vann and Wengerd Scholarships.

During the last academic year, the department received an especially large contribution ($50,000) from Ernest and Mary Rich. Many from these funds have been used to purchase badly needed new student microscopes for our new microscopy laboratory as well as a desktop computer to use in our large lecture hall. (The A.M. Kudo Lecture Hall) to enable increased use of the new computer-aided technology for projection. In addition, the department received news that $70,000 had been added to the Wanek Endowed Scholarship. Funds from our alumni have an profound effect on the ability of the Department to carry on its research and teaching mission, and the faculty, staff and students are grateful for the continued generosity of department alumni. Indeed, partly for this reason, significant progress has been made towards development of the first alumni newsletter in several years. Completion of the departmental newsletter is scheduled for Fall, 2001.

The Department also maintains contact with its alumni through gatherings at professional meetings, newsletters and many personal and professional contacts. Several alumni of the Department advanced significantly in their careers this past year.

PLANS AND GOALS

Many aspects of our plans and goals have been identified and characterized above. Nevertheless, as noted in the Department's last Annual Report, the Department remains committed to strategic plan it developed, with significant input from all faculty, staff and students, in 1999-2000. Of course, some of the goals described in the Department "Five-Year Plan" have already been accomplished, including development of new computer and microscopy labs, the hiring of Dr. Tobias Fischer, a volcanologist who assumes the role of Director of the UNM-LANL Volcanology Program; the hiring of a geophysicts Dr. Mousumi Roy; and the further integration of the Natural Sciences Program with the Department. Some remaining goals include:

- Filling the igneous petrology faulting position, replacing Dr. Bert Kudo, who passed away in January of 2000. This position is critical to the Department for many reasons, including support of the Department's Volcanology Program.

- Further development of the Natural Science Program and the Department's role in geoscience education and science education. This can be partly achieved through (a) hiring of a faculty member in the area of geoscience education; (b) creating a "lecturer" position for the Natural Science Coordinator, who currently is supported by a variety of soft funds and limited college support.

- Further development of the Department's new Environmental Science Degree Program, scheduled to formally begin in the Fall, 2001 semester with the offering of Environmental Science (Env. Sc. 101) and Environmental Systems (Env. Sc. 330). The latter course, taught by Dr. Michael Campana, is a newly developed course and a key "core course" in this degree program.

- Addition of state funds to the Department for increased staff support remains a key goal. As noted previously a strong research staff is one of the major reasons the department has been able to build several sophisticated and highly productive laboratories. These facilities are essential for our research, teaching and service missions.

- After a series of negotiations mostly the College Administration and the Department, Dr. Lou Scuderi, at his request, was transferred to the Department from the Department of Geography effective in Fall, 2001. The proposed transfer was approved unanimously by the department faculty. Dr. Scuderi is a physical geographer with research interests in paleoclimatology and environmental science. He utilizes Geographical Information Systems Technology, dendroclimatology and other tools in his wide-ranging research and teaching efforts. The addition of Dr. Scuderi to the department significantly increases the strength and breadth of it's Climate and Surface Processes Program (formerly known as the Quaternary Studies Program, as well as it's Environmental Science Program. Dr. Scuderi's addition also provides the basis for development of a graduate-level program in Environmental Science, the next logical step following the recent development and formal initiation of the Environmental Science B.S. degree program.

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III. ACTIVITIES OF THE FACULTY AND RESEARCH SCIENTISTS

(Calendar Year 2000)

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- Activities of Full, Associate and Assistant Professors
- Activities of Research Professors
- Activities of Senior Research Scientists and Staff

1. TEACHING ACCOMPLISHMENTS

Yemane Asmerom, Associate Professor

I was on regular faculty duty Spring 2000 and on sabbatical Fall 2000.

Courses taught

Spring: E&PS 101 - Physical Geology (90 enrolled)

Lab training UNM:

Victor Polyak
Brian Beirman
Larse Borg
Senait Ghebremicael
Tedros Tesfay
Angela McLain

Outside:

Claudia Lewis (Los Alamos)
Roger Gomez (Univ. of Iowa)
Rhawn Denniston (Cornell College, Iowa)

Graduate students supervised:

Brian Bierman
Beth Anker
Tedros Tesfay
Dezbah Tso

Graduate student committee:

Mindy Zimmer, (M.S.)
Angela McLain, (Ph.D. Soils; Sr isotope work in my lab)
Rebecca Gardner, (M.S., Low temperature geochemistry; Sr isotopes)
Jennifer Edmunson, (M.S.)

Faculty Advisor:

Amnesty International

Nicu-Viorel Atudorei, Research Scientist III.

Training students in the Stable Isotope Laboratory. About 50 individuals used the stable isotope laboratory in 2000 (more than a half undergraduate or graduate students from UNM).

M. Susan Barger, Adjunct Professor

Courses taught

Spring: E&PS 300.004/Art Hi. 429, "Materials Science of Art: Case Studies in the Detection of Art Fakes and Forgeries," (11 undergraduate students enrolled and 1 graduate student).

Ph.D. Committee:

Charles David Vaughan, Anthropology Department

Adrian Brearley, Associate Professor

Courses taught

Spring:	E&PS 101 – Introduction to Geology: How The Earth Works" (150 enrolled). E&PS 512 – High Temperature Geochemistry (7 enrolled). E&PS 552 – Problems (1 enrolled).
Fall 2000:	E&PS 400 – Topics in Earth Sciences "Processes in the Earth's Deep Interior (6 enrolled). E&PS 210 – Life in the Universe (21 enrolled). E&PS 552 – Problems (4 enrolled). E&PS 493 – Senior Thesis (1 enrolled). E&PS 491 – Problems (1 enrolled).

Guest Lectures

2 lectures in E&PS 301 (Fall, 2000).

Advisement and thesis committees:

Served as Advisor and M.S. committee member for Kate Duke, Neyda Abreu and PhD thesis advisor for Lysa Chizmadia.

Thesis Committee member for Tedros Tesfay, Brian Bierman, Nicole Bailey, Kurt Steffen, Toti Larsen, David Vaughan (Anthropology), Jim Karner, David Vinson, Mark Quigley and Beth Anker.

Ph.D. Exam Committee member for Brian Oetiker (Physics and Astronomy).

Lars Borg, Senior Research Scientist

Courses taught

Spring:	E&PS 365 - Exploring the Solar System (29 enrolled) Co-taught with Jim Papike.
Fall:	E&PS 465/565 - Mars Evolution (13 enrolled) Co-taught with Jim Papike.
	Co-taught Problems in Igneous Petrology (551).

Spring Seminar:

Institute of Meteoritics Seminar: "How Representative are the SNC meteorites of the Martian Surface?"

Fall Seminars:

Colloquium Lecturer (401):

"Constraints on Martian geological processes from isotopic analyses of SNC meteorites".

Institute of Meteoritics Seminars:

"Serial magmatism on the Moon"
"Isotopes and trace elements in the Martian meteorites"
"Earth-Isotopes and crust-mantle differentiation"

Michael E. Campana, Professor

Courses taught

Spring:	E&PS 401/501, Colloquium (15 enrolled) E&PS 467/567, Environmental Mechanics (6 enrolled) WR 572 (AOA Econ 545), Interdisciplinary Water Resources II: Use of Technical Models and Communications Laboratory (12 enrolled) (with D. Brookshire, R. Heggen, M. Minnis)
Summer:	WR 573, Interdisciplinary Water Resources III: Field-Based Problems and Communications Laboratory (12 enrolled)
Fall:	E&PS 401/501, Colloquium (25 enrolled) E&PS 476/576 (AOA WR 576), Physical Hydrology (16 enrolled) WR 571, Interdisciplinary Water Resources I: Basin Survey and Communications Lab (with J. Chermak, M. Minnis, O.P. Matthews) (13 enrolled)

Graduate students:

Student Advisement/Thesis/Dissertation/Professional Project Supervision:

MS: Susan Lucas, Senait Ghebremicael, MWR: Chris McLean, Linda I. Gordan, Casey Cook, William McDonald, Toby Walters, Joshua Nims, Sherry Evans-Carmichael, Frederic Shean and Danielle Diehl.

PhD: Lin Pan, Jason Tidwell and Ivan Thorsos (co-advisor).

Professional projects completed (MWR degree):

C. McLean, L. Gordan, W. McDonald, C. Cook and T. Walters.

Service on Thesis/Dissertation/Professional Project Committees:

MS: Laura Hagan, Claudia Borchert, Michael Gaud, David Mitchell, Patrick Florence, Susan Lucas, Senait Ghebremicael, MWR: Debbie Terry, Patricia Vardaro-Charles, Andrea Hunter, Kathy Grassel, Linda I. Gordan, Neil Gray, Kathy Smith, Robin Just, Kelly Bitner, Joy O'Neil, Toby Walters, William McDonald, Joshua Nims, Debra Mandeville, Jeff Cotter, Orlando Romero, Sherry Evans-Carmichael, Frederic Shean, Danielle Diehl, Louis Martinez

PhD: Richard Woodford, Ivan Thorsos, Armand Groffman, Drew Baird (Civil Engineering), and Steven Dominguez (Anthropology).

New Courses Developed:

E&PS 535 (AOA Biology 535) Freshwater Ecosystems
(co-developed with R. Wetzel, University of Alabama)

Laura J. Crossey, Professor

Courses taught

Spring:	E&PS 491 - Problems (1 enrolled)
	E&PS 495 - Senior Thesis (1 enrolled)
	E&PS 599 - Masters Thesis (2 enrolled)
	E&PS 699 - Dissertation (2 enrolled)
Summer:	E&PS 319L - Field Camp (20 enrolled) team-taught w/ J. Geissman
	E&PS 420L - Advanced Field (11 enrolled) team-taught with Karl Karlstrom
Fall:	E&PS 101 - Introductory Geology (120 enrolled)
	E&PS 415/515 - Geochem of Natural Waters (14;5 enrolled)
	E&PS 599 - Masters Thesis (3 enrolled)
	E&PS 699 - Dissertation (2 enrolled)

PhD Committees:

Deborah Bergfeld (chair)	Armand Groffman (chair)
Diana Northup (Biology)	Angela McLain (co-chair)
Mike Timmons	Carol Dehler
Jim Karner	Ivan Thorsos

MS Committees:

Laura Hagan (chair)	Dezbah Tso
Michele Kearney (chair)	Kate Duke Jones
Susan Block (chair)	Jake Armour
David Vinson (chair)	Marcia Jensen
Justin Hagerty	Tom Loveland

Undergraduate Sr. Thesis Committee/Research Supervision:

Rick Ortiz (chair)
Joan Otahal (chair)
Kathleen Dotson (chair)
Justin Christofferson
Mary Riley

Student Grant Support -- Graduate:

Armand Groffman (full)
Christy Fellows (partial)
Laura Hagan (partial)
Susan Block (partial)

Undergraduate:

Richard Ortiz	Paulo de sa Rega
Joan Otahal	Dayna Willwerth
Justin Christofferson	Mary Riley

Maya Elrick, Associate Professor

Courses taught

Spring: E&PS 102 - Historical Geology (43 enrolled)

Fall: E&PS 304 - Sedimentology-Stratigraphy (17 enrolled)
(half-time appointment starting Fall 2000)

Graduate Students Advisement:

Carol Dehler, Ph.D.

Thesis committees:

Andy Heckert, Ph.D.

Exam committee:

Annie McCoy
Kurt Steffan

Wolfgang E. Elston, Senior Research Professor

Participated in UNM German Summer School, Taos Ski Valley, June 27-30, 2000. Gave talk, "Goethe's Reise nach Taos" ("Goethe's visit to Taos"), distributed essay "Geothes Beiträge zum Basalt Streit," ("Goethe's contributions to the basalt controversy"). Led field trip to Taos Gorge.

Peter J. Fawcett, Assistant Professor

Courses taught

Spring: E&PS 103 - Earth's Environment and Global Change (43 enrolled)
E&PS 439 - Paleoclimatology (22 enrolled)
E&PS 551 - Problems (2 enrolled)

Fall: E&PS 400 - Problems in Quaternary Paleoclimatology (6 enrolled)
E&PS 552 - Problems (1 enrolled)

Graduate Students Supervised:

David Mitchell (M.S. co-advisor Frank Pazzaglia, defended Spring 2000)
Dale Henderson (M.S., supported with NSF funding (1/2 time))
Jake Armour (M.S., supported with NSF funding)
Peter Castiglia (M.S., supported with NSF and NUCOR funding)
Anne Tillery (M.S., supported with NSF funding (1/2 time))

Graduate Thesis Committees:

M.S.: Tom Loveland, Nicole Bailey, Kate Ziegler
Ph.D.: Missy Eppes, Andy Heckert, Jennifer Pierce, Richard Woodford

Tobias Fischer, Assistant Professor

Courses taught

Spring:	E&PS 101: Introduction to Geology. 3 Credit hours (46 enrolled).
Summer:	E&PS 453L Field Studies in Volcanology: Co-teaching with Dr. Smith and Dr. Goff. 4 Credit hours (18 enrolled).
Fall:	E&PS 450L/550L. Volcanology 4 Credit hours (11 enrolled). E&PS 552 Problems (Pfeffer and Zimmer).

Graduate Students supervised:

Melissa Pfeffer, MS
Mindy Zimmer, MS

Graduate Committee:

Brian Bierman, MS
Tedros Tesfay, MS

Exam Committee:

Andy DuFrane, MS
Anne Tillery, MS
Susan Lucas, MS

John W. Geissman, Professor

Courses taught

Spring:	E&PS 300 - Field Geology of New Mexico (27 enrolled) E&PS 490 - Presentations (12 enrolled)
Summer:	E&PS 319L - Introductory Field Geology (23 enrolled)
Fall:	E&PS 490 - Geologic Presentations (9 enrolled) E&PS 300 - Field Geology of New Mexico (16 enrolled) E&PS 523 - Nuts a Bolts of Paleomagnetism (7 enrolled)

Graduate students supervised:

Alex Castrounis, MS
James Ashby, MS
Jason Rampe, MS
Gordon Keating, PhD

Exam committees:

Annie McCoy, MS
Andy DuFrane, MS

Graduate Students financially supported:

Gordon Keating
Alex Castrounis
Jason Rampe

Course Development

Continued to organize a non-credit weekly "seminar" meeting for the users of the paleomagnetism laboratory, focusing on laboratory improvements, current research by users of the laboratory, and controversial research topics in paleomagnetism. Continued continue to modify/improve undergraduate field geology course (E&PS 319L).

"Guest" lecturer in E&PS 101 sections and E&PS 103.

Undergraduate Research Advising:

Ken Marshall
Serenity Nehring
Chris Purcell

Graduate Theses Completed:

Keating, G.N., Multiphase thermal modeling in volcanic and contact metamorphic terranes, Ph.D.

Reader

Jess Moore, MS

David Gutzler, Professor

Courses taught

Spring:	E&PS/Geography 251 – Meteorology (51 enrolled) E&PS 570 – Physical Climatology (6 enrolled) E&PS 599 – Thesis (1 enrolled)
Summer:	E&PS 551 – Weighing Environmental Risks (5 enrolled) [new course] This seminar was offered to APS middle school and high school teachers as part of UNM's Albuquerque Teachers Institute. E&PS 599 – Thesis (1 enrolled)
Fall:	E&PS 436/536 – Climate Dynamics (14 enrolled at UNM) [new course] This course is required for Ph.D. students in the IGERT program at both UNM and the University of Alabama, and was broadcast to students in Alabama from Dane Smith Hall (13 enrolled) E&PS 491 – Problems (1 enrolled)

Supervision of graduate students:

* Students receiving financial support from my grants;

D. Etheredge* (M.S., degree completed in June)
J. Weiss* (M.S., entered program Fall 2000)
R. Woodford (Ph.D.)

Supervision of undergrad students:

C. Thornbrugh* (data analysis, summer and fall).
L. Neidel (analyzing radar data, fall)

Other graduate thesis committees:

J. Armour, P. Castiglia*, D. Henderson*, A. Tillery* (M.S.)

Other graduate exam committees:

S. Block (M.S.)

Funding for Curriculum Development:

Development of laboratory exercises for weather and climate classes for teachers
New Mexico Committee for Excellence in Teacher Preparation Program
Six months (January 01-June 01), $12K.

Stephen P. Huestis, Associate Professor

Courses taught

Spring:	E&PS 101 - Introduction to Geology (139 enrolled). E&PS 115 - Geological Disasters (63 enrolled).
Summer:	E&PS 225 - Oceanography (50 enrolled).
Fall:	E&PS 101 - Introduction to Geology (120 enrolled). E&PS 115 - Geological Disasters (39 enrolled).

M.S. thesis committee:

Dale Henderson

Exam committees:

Peter Castiglia, Kate Zeigler and Toti Larson.

John Husler, Research Scientist III.

Courses taught

Prepared instructional methods for use of RIGAKU 2100 X-Ray fluorescence instrument and laboratory procedures for analysis of micro powder. Provided department laboratory safety instruction to incoming faculty and staff.

Thesis guidance

Four students.

Rhian Jones, Senior Research Scientist

Courses taught

Spring:	E&PS 365 - Exploring the Solar System (29 enrolled) team taught
Fall:	E&PS 465/565 - Mars Evolution (13 enrolled) team taught
Guest Lecture:	E&PS 210 - Life in the Universe

Student advisement:

Advisor, Rae Carey (undergraduate)
Committee member, Neyda Abreu (M.S.)
Committee member, Lysa Chizmadia (Ph.D.)

Karl E. Karlstrom, Professor

Courses taught

Spring:	E&PS 307/307L - Structural Geology (17 enrolled)
	E&PS 300 - Field Geology of New Mexico (22 enrolled) (with J. Geissman)
	E&PS 551 - Problems Lower Gorge River Trip (12 enrolled)
	E&PS 661 - Dissertation (1 enrolled)
Summer:	E&PS 420 - (8 enrolled), (with L.J. Crossey)
	E&PS 520 - (3 enrolled), (with L.J. Crossey)
Fall:	E&PS 300 - Field Geology of New Mexico (12 enrolled) (with J.W. Geissman)
	E&PS 551 - Problems (Graduate Seminar in Colorado; 6 enrolled)
	E&PS 661 - Dissertation (2 enrolled)
	E&PS 599 - Masters Thesis (1 enrolled)
	E&PS 495 - Senior Thesis (1 enrolled)
	E&PS 493 - Independent Study (1 enrolled)

New Courses taught

E&PS 300, Field Geology of New Mexico was a new course designed to give BA students an overview of the field geology of the Albuquerque region (replaced E&PS 255).

Students supervised:

Ph.D., Colin Shaw (NSF funding - $15,200); Mike Timmons (NSF funding - $5719; ½ TA).

M.S., Annie McCoy (NSF - $8019, ½ TA); Mark Quigley (NSF - $2682; ½ TA); Micah Jessup (NSF - $1526; TA); Amanda Tyson (NSF - $929; TA).

B.S., Eb Crawford ($4000 statemap); Diana Stickland, Jason Ray, Josh Swarts, (Field assistant, NSF - $1200; Brown University).

B.S., Senior Honors Thesis completed:

Diana Stickland: Proterozoic evolution of the Zuni Mountains, New Mexico: Peridotites, granites, rhyolites, shear zones, and a reactivation history through the present (co-supervised with Jane Selverstone).

Jason Ray: Analysis of the Cabin Canyon Shear Zone in the Virgin Mountains: Implications for an early accretionary province boundary and a later transpressional zone.

Ph.D. Committee: Carol Dehler, Toti Larson.
M.S. Committee Aaron Cavosie, Kurt Steffan, Jamie Barnes, Jason Rampe.
B.S. Committee (in Progress): Steve Rogers (Honors Thesis), Linda Doran (Honors Thesis), Cindy Gallagher (Honors Thesis).

Cornelis Klein, Professor

Courses taught

Spring:	E&PS 105L – Physical Geology Labs (faculty coordinator, 96 enrolled) E&PS 204 – Gem Minerals and Gems (evening class; 17 enrolled; ICES global items: 5.6; 5.8; 5.8).
Fall:	E&PS 101 – Physical Geology (114 enrolled; ICES global items: 4.9; 5.2; 4.7). E&PS 301 – Mineralogy (24 enrolled; ICES global items 5.1; 5.4; 5.1). E&PS 302 – Lab sessions T, W, R, (two lab sessions each, in the afternoons).

Graduate student committee:

Christopher Herd, (Ph.D)
Aaron Cavosie, (M.S.)
Andy DuFrane, Kate Zeigler, Senait T. Ghebremicael and David Vinson, (M.S.)

Barry S. Kues, Professor

Courses taught

Spring:	Sabbatical leave; E&PS-699 (1 enrolled).
Fall:	E&PS 250 - Geology of New Mexico (23 enrolled). E&PS 411 - Invertebrate Paleontology (12 enrolled). E&PS 493 - Undergraduate Honors Study (1 enrolled). E&PS 599 - Masters Thesis (1 enrolled). E&PS 699 - Ph.D. Dissertation (1 enrolled).

Graduate Students - Coadvised with Dr. S.G. Lucas: Andy Heckert, Ph.D., Kate Zeigler, M.S., and Shirley Libed, M.S.

Grant A. Meyer, Assistant Professor

Courses taught

Fall:	E&PS 4/581L - Geomorphology and Surficial Geology, (8 enrolled).

Graduate students supervised:

Jennifer L. Pierce (PhD) – primary advisor, supported on RA through NSF grant EAR-0000905.
Rick Ortiz (MS, spring 2001) – primary advisor, supported on RA through Bureau of Reclamation contract 00-FC-40-4670.
Tim Gere, Anne Tillery (MS) – reader on thesis committees.

Leslie D. McFadden, Chair and Professor

Courses taught

Spring:	No class taught
Fall:	E&PS 485/585 - Soil Stratigraphy and Morphology (6 enrolled)

Guest Lecturer:

Community and Regional Planning 470/570 - Semiarid lands Development, Planning and Restoration Community and Regional Planning (Department of Architecture and Planning) - Soil geomorphic and ecologic studies in NE Arizona.

Graduate Students Supervised or Co-supervised:

Angela McLain (Ph.D.)
Martha Eppes (RA - College of Arts and Sciences supported) (Ph.D.)
Tim Gere and Nicole Bailey (M.S.)
Ann Tillery (co-supervised with Dr. P. Fawcett) (M.S.)

M.S. Thesis Committees:

Devin Etheridge (Defended, 6/00)
Luis Guzman (Department of Biology)

Ph.D. Committees:

Armand Groffman
Chuck Buxbaum (Department of Biology)

Horton E. Newsom, Research Professor

Courses taught

Spring:	E&PS 365 - Exploring the Solar System (29 enrolled) Co-taught with Jim Papike

Fall: E&PS 465/565 - Mars Evolution (13 enrolled)
Co-taught with Jim Papike
E&PS 491 problems - (1 enrolled)

Research advisor for the following students:

Justin Hagerty (M.S.)
Ivan Thorsos (Ph.D.)
Bill Robertson (College of Ed.) (Ph.D.)
Carmen Sorge (College of Ed.) (Ph.D.)

Students supported by grants:
Undergraduate students: Erica Vasquez
Graduate students: Justin Hagerty, Ivan Thorsos, Gerald Garley (College of Ed.)

Committee member for the following graduate students:

Justin Hagerty (M.S.)
Ivan Thorsos (Ph.D.)
Bill Robertson (College of Ed.) (Ph.D.)
Carmen Sorge (College of Ed.) (Ph.D.)

Matthew Nyman, Natural Science Coordinator

Courses taught

Spring: Natural Science 261 – Physical Science (42 enrolled).

Fall: Natural Science 261 – Physical Science (42 enrolled).

James J. Papike, Director (Institute of Meteoritics) and Professor

Courses taught

Spring: E&PS 365 - Exploring the Solar System (29 enrolled)

Fall: E&PS 465/565 - Mars Evolution (13 enrolled)

Graduate student committee:

M.S. Advisor for Justin Hagerty and Jennifer Edmunson
Ph.D. Advisor for Christopher D.K. Herd and James Karner

Aurora Pun, Post-Doctoral Scientist

Courses taught

Spring: E&PS 101 - Physical Geology (35 enrolled)
E&PS 203 - Earth Resources and Man (11 enrolled)

Summer: E&PS 101 - Physical Geology (39 enrolled)

Fall: E&PS 101- Physical Geology (17 enrolled)

Frans J.M. Rietmeijer, Research Professor

Guest lecturer

Spring:
E&PS 365 – Exploring the Solar System, Comets
E&PS 365 – Exploring the Solar System, Cosmic Dust
Research Seminar Series, Solar System Sodium (IOM)

Mousumi Roy, Assistant Professor

Courses taught

Fall:
E&PS 523 – Evolution and Dynamics of Continental Lithosphere (12 enrolled)
E&PS 493 – Independent study (1 enrolled)
E&PS 551 – Problems in Geophysics (1 enrolled)

Students Advised: (*- provided support)

Nancy Natek* – Senior Thesis, 2000-2001 – continuing
Annie McCoy – Work on gravity modeling of the Colorado Mineral Belt - continuing
Nicole Hoffman – Independent Study in Geophysical Modeling

Jane Selverstone, Professor

Courses taught

Spring:
E&PS 303 – Igneous and Metamorphic Petrology (21 enrolled)
E&PS 303L – Petrology lab with optical mineralogy (21 enrolled)
E&PS 552 – Problems (2 enrolled)
E&PS 493 – Independent Study (1 enrolled)

Fall:
E&PS 101 – Physical Geology (116 enrolled)
E&PS 521 – Metamorphism (17 enrolled)
E&PS 552 – Problems (3 enrolled)

Undergraduates supervised:

Diana Strickland, Senior thesis (co-advisor with K. Karlstrom): "Proterozoic evolution of the Zuni Mountains, New Mexico: Peridotites, granites, rhyolites, shear zones, and a reactivation history through the present", 46 pp., May, 2000.
Eileen Embid, Independent study.

Graduate students supervised: (* supported by my NSF funding)

*Aaron Cavosie, MS in progress
*Kurt Steffen, MS in progress (Kelly-Silver fellow and NSF)
Jaime Barnes, MS in progress

Thesis and dissertation committees: (in addition to students listed above)

Colin Shaw, PhD
Christopher Herd, PhD
Toti Larson, PhD

Shannon Baer, MS at NM Tech
Annie McCoy, MS
Jason Rampe, MS
Micah Jessup, MS
Mark Quigley, MS
Amanda Tyson, MS
Mindy Zimmer, MS

Exam committees:

Toti Larson, Ph.D
Annie McCoy, MS
Mark Quigley, MS

Charles K. Shearer, Research Professor

Courses taught

Fall: E&PS 465 - Mars Evolution (15 enrolled)

Graduate Student Committees:

Jim Karner
Chris Herd

Ph.D. Advisor:

Justin Hagerty
Jennifer Edmunson

Ion Microprobe Instruction:

6 students-faculty-staff

Zachary Sharp, Associate Professor

Courses taught

Spring: E&PS 505 - Stable Isotope Geochemistry (15 enrolled)
Biology 402 - Stable Isotope Seminar (12 enrolled)

Fall: E&PS 103 - Earth's Environment and Global Change (44 enrolled)
E&PS 106 - Evolution and Age of the Earth (9 enrolled)

Curricula developed in 2000:

Extremely complete notes are available for all students prior to lecture. They are freely available on the web site, thereby eliminating departmental photocopy costs. Students are encouraged to print-out the notes and have them in hand for the appropriate lectures. The following sites give the outlines:

E&PS 103 Earth's Environment and Global Change –
http://epswww.unm.edu/facstaff/zsharp/103/syllabus.htm
E&PS 106 Evolution and Age of the Earth - http://epswww.unm.edu/facstaff/zsharp/106/eps106.htm
E&PS 407/507 Thermodynamics - http://epswww.unm.edu/facstaff/zsharp/405/syllabus%20407.htm
E&PS 505 Stable Isotope Geochemistry - http://epswww.unm.edu/facstaff/zsharp/505/Default.htm

Graduate Students supervised:

Marcia Jensen, (MS)
Kate Zeigler (MS)
Scott 'Andy' Dufrane (MS)
Toti Larson (PhD)
Raffaele Lucchini, (PhD) 50% at Univ. Lausanne, funded by Lausanne – Swiss NSF to Sharp

Postdoctoral fellows:

Tomasz Durakiewicz
Andreas Pack

Completed thesis:

Marcia Jensen (MS)

Exam Committee member:

Jamie Barnes, M.S.
Mindy Zimmer, M.S.
Susan Block, M.S.
Aaron Cavosie, M.S.
Melanie Edwards, Ph.D. (Biology)
Carol Dehler, Ph.D.
Michelle Kearney, M.S.
Kurt Steffen, M.S.
Lysa Chizmadia, Ph.D.
Richard Woodford, Ph.D.
Deb Bergfeld, Ph.D.
Peter Castiglia, M.S.
Mike Timmons, Ph.D.

Undergraduate Student Projects:

Katherine F. Smith - Physiological factors controlling the $\delta^{18}O$ values of body water for coexisting endotherms and ectotherms (Sharp, J. Brown (Biology) co-Directors). funded by NSF to Sharp.

Timothy Meehan – Stable isotope geochemistry of raptor feathers (Sharp, Director).

Jerimiah Wright – Stable isotope geochemistry of selected dinosaurs: herbivores vs. carnivores (Sharp, Director).

Amy Plunkett – Nitrogen isotope variations in plants and soils from the Seviletta site (J. Gosz, Director).

Graduate student research:

Aaron Cavosie Oxygen isotope studies of quartz veins; Two abstracts and one paper in final preparation (Selverstone, Advisor).

J. Barnes Oxygen and hydrogen isotopes of metamorphic minerals in shear zones (Selverstone, Advisor).

Carol Dehler, Ph.D., 2001. Ongoing research on Chuar group carbonates and organic matter. One paper published, one in submission.

Melanie Edwards, Ph.D. (Biology). Carbon, nitrogen and sulfur isotopes of fish in the Rio Grande. One abstract published.

Michelle Kearney. Nitrogen isotope measurements of dissolved diatomic nitrogen in groundwaters (Campana/Crossey, Advisor).

Jake Armour, Carbon isotope stratigraphy of shallow lake cores (Fawcett, Advisor).

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Michael N. Spilde, Research Scientist III.

Guest lecturer:	Guest lecture and SEM/microprobe demonstration for Anthropology 570 "Ceramic Analysis Class".
Tutorial training:	SEM for undergraduate students (5enrolled) SEM for undergraduate students (3 enrolled) SEM for post-doctoral fellows (2 enrolled)

Gary A. Smith, Professor

Courses taught

Spring:	E&PS 441/541 – Advanced Sedimentology (12 enrolled) E&PS 599 – Masters Thesis (2 enrolled) E&PS 482 – Geoarchaeology (22 enrolled)
Summer:	E&PS 453/553 – Field Studies in Volcanology (18 enrolled) ANTH 375L – Field School in Southwestern Archaeology (guest lecture).
Fall:	E&PS 102L – Historical Geology (30 enrolled) E&PS 493 – Independent Study (1 enrolled) E&PS 552 – Problems (1 enrolled) E&PS 599 – Masters Thesis (2 enrolled)

Developed companion web site for students enrolled in E&PS 102L (posted on www.classpage.com).
Developed a series of interactive computer presentations for physical and historical geology and distributed them to E&PS faculty.

Student Advisement - (*assistantship support provided)

Gordon Keating, Multiphase thermal modeling in volcanic and contact metamorphic terranes (co-advised with G.A. Valentine - LANL), (Ph.D.)

Ph.D. Dissertation and/or Comprehensive Examination Committee:

Carol Dehler
Michael Timmons
James Karner
Philippe LaTourneau (Anthropology).

M.S. Students Advised:

Jessica Moore, Tectonics and volcanism during deposition of the Oligocene-Lower Miocene Abiquiu Formation, Rio Grande Rift, Northern New Mexico
Claudia Borchert
Patrick Florence*
Michael Gaud*

M.S. Thesis and/or Examination Committee:

Tim Gere

B.S. Honors Students Advised:

Sharon Sparks

Huifang Xu, Research Scientist III.

Courses taught

Spring: E&PS 538L - Analytical Electron Microscopy (10 enrolled)

2. 2000 PUBLICATIONS

(E&PS tenure-track Faculty are underlined; ** = research scientists; * = students

Book Authored

Manual of Mineral Science, 22nd edition.
C. Klein
John Wiley and Sons, 672 pp. (2001).

[Review of] Inverse Problems: Activities for Undergraduates by C.W. Groetsch.
Huestis, S.P.
Mathematical Intelligencer, v. 23 #1, p. 70-72 (2001).

Edited Book

Dinosaurs of New Mexico.
Lucas, S.G., and *Heckert, A.B. (editors)
New Mexico Museum of Natural History and Science Bulletin 17, University of New Mexico Press, Albuquerque, 240 p. (2000).

Refereed Journal Papers

Lithospheric Mantle Melting Constrained by Pa-Th-U Isotopic Data.
Asmerom, Y., Cheng, H., Thomas, R., Hirschmann, M., and Edwards, R.L.
Nature, v. 406, p. 293-296 (2000a).

The half-lives of uranium-234 and thorium-230.
Cheng, H., Edwards, R.L., Hoff, J., Gallup, C.D., Richards, D.A., and Asmerom, Y.
Chemical Geology, v. 169, p. 17-33 (2000).

Speleothem records of early and late Holocene vegetation dynamics in the Ozark Highlands, U.S.A.
Denniston, R.F., González, L.A., Asmerom, Y., and Reagan, M.K.
Quaternary International, v. 67, p. 21-27 (2000).

Speleothem evidence for changes in Indian summer monsoon precipitation over the last 2300 years
Denniston, R.F., González, L.A., Asmerom, Y., Sharma, R.H., and Reagan, M.K.
Quaternary Research, v. 53, p. 196-202 (2000).

U-Pb dating of MVT ore-stage calcite: implications for fluid flow in a Mesozoic extensional basin from Iberian Peninsula
Grandia F., Asmerom Y., Getty S., Cardellach E., and Canals A.
Journal of Geochemical Exploration, v. 69, p. 377-380 (2000).

Bleached chondrules: Evidence for Widespread aqueous processes on the parent asteroids of ordinary chondrites
Grossman, J.N., Alexander, C.M.O'D., Wang J., and Brearley, A.J.
Meteoritics and Planetary Science 35, p. 467-486 (2000).

Iron-rich aureoles in the CM carbonaceous chondrites, Murray, Murchison and ALH81002: Evidence for in situ alteration
Hanowski, N.P., and Brearley, A.J.
Meteoritics and Planetary Science 35, p. 1291-1308 (2000). -

MAC88107, ungrouped carbonaceous chondrite with affinities to CM-CO clan: evidence for in situ growth of fayalite and hedenbergite.
Krot, A.N., Petaev, M.I., Brearley, A.J., Kallemeyn, G.W., Sears, D.W.G., Benoit, P.H., Hutcheon, I.D. and Keil, K.
Meteoritics and Planetary Science 35, p. 1365-1386 (2000).

Terminal electron accepting processes in the alluvial sediments of a headwater stream.
Morrice, J.A., C.N. Dahm, H.M. Valett, P.V. Unnikrishna and M.E. Campana
Journal of the North American Benthological Society, v. 19, no. 4, p. 593-608 (2000).

Evidence for geomicrobiological interactions in Guadalupe (NM) Caves.
Northup, D.E., Dahm, C.N., Melim, L.A., **Spilde, M.N., Crossey, L.J., Lavoie, K.H., Mallory, L., Boston, P.J., Cunningham, K.I., and Barns, S.M.
Journal of Cave and Karst Studies, v. 62, p. 149-160 (2000).

Diagenesis in the Point Lookout Sandstone, San Juan Basin, NM and CO: Influence of Depositional Conditions, Cyclic Stratigraphy, and Changing Hydrologic Regime.
Larsen, D., Loomis, J.L., and Crossey, L.J.
The Mountain Geologist, v. 37, pp.109-133 (2000).

Mechanism for accommodation of Miocene extension: Low-angle normal faulting, magmatism, and secondary breakaway faulting in the southern Sacramento Mountains, southeastern California.
Campbell-Stone, E., John, B.E., Foster, D.A., Geissman, J.W., and Livaccari, R.F.
Tectonics, v. 19, p. (2000).

Relations between hinterland and foreland shortening. Sevier orogeny, central North American Cordillera
W.J. Taylor, J.M. Bartley, M.W. Martin, J.W. Geissman, J.D. Walker, P.A. Armstrong, and J.E. Fryxell
Tectonics, v. 19, p. 1124-1143 (2000).

Paleomagnetism and magnetostratigraphy of the Permian Dewey Lake Formation, southeast New Mexico.
Molina-Garza, R.S., Geissman, J.W., and Lucas, S.G.
Physics of the Earth and Planetary Interiors, v. , p. (2000).

Evaluating global warming: A post-1990s perspective.
D. S. Gutzler
GSA Today, v. 10, no. 10, p. 1-7 (2000).

Covariability of spring snowpack and summer rainfall across the American Southwest.
D. S. Gutzler
Journal of Climate, v. 13, p. 4018-4027 (2000).

Taxonomy, phylogeny, biostratigraphy, biochronology, paleobiogeography, and evolution of the Late Triassic Aetosauria (Archosauria:Crurotarsi).
*Heckert, A.B., and Lucas, S.G.
Zentralblatt für Geologie und Paläontologie Teil I, Heft 11-12, p. 1539-1587 (2000).

Global correlation of the Triassic theropod record.
*Heckert, A.B., and Lucas, S.G.
Gaia, v. 15, p. 63-74 (2000)

Oxygen isotopic compositions of chondrule olivine and isolated olivine grains in the CO_3 chondrite, ALHA77307.
R.H. Jones**, J. M. Saxton, I.C. Lyon and G. Turner
Meteoritics and Planetary Science, p. 849-857 (2000).

The Chuar Group of the Grand Canyon: Record of break up of Rodinia, associated change in the global carbon cycle, and ecosystem expansion by 740 Ma.
Karlstrom, K.E., Bowring, S.A., *Dehler, C.M., Knoll, A.H., Porter, S.M. , Des Marais, D.J., Weil, Sharp, Z.D., A.B., Geissman, J.W., Elrick, M.B., Timmons, J.M., Crossey, L.J., and Davidek, K.L.
Geology, v. 28, p. 619-622 (2000).

Porphyroblast inclusion trail geometries in the Grand Canyon: Evidence for rotation and non-rotation?
*Ilg, B.R., Karlstrom, K.E., and Williams, M.L.
Journal of Structural Geology, v. 22, p. 231-243 (2000).

Inversion of Proterozoic extensional faults: An explanation for the patterns of Laramide and Ancestral Rockies intracratonic deformation, U.S.A.
Marshak, S., Karlstrom, K.E., and *Timmons, M.J.
Geology, v. 28, p. 735-738 (2000)

Implications of Jurassic, Cretaceous, and Proterozoic piercing lines for Laramide oblique-slip faulting in New Mexico and rotation of the Colorado Plateau: Reply.
Cather, S.M., and Karlstrom, K.E.
Geological Society of America Bulletin, v. 112, p. 783-788 (2000).

Influence of Parent Material and Grain Size On Carbonate Formation in Gravelly Soils in a Desert Piedmont, Sevilleta LTER, Palo Duro Canyon, New Mexico.
*Treadwell-Steitz, C., and McFadden, L.D.
Geoderma, v. 94, p. 1-22 (2000).

Fun is not enough - Attitudes of Hispanic middle school students toward science and scientists.
*Sorge, C., **Newsom, H.E. and *Hagerty, J.J.
Hispanic Journal of Behavioral Sciences, v. 22, p. 332-345 (2000)

W-Hf isotope Systematics and the Origin and Early Evolution of the Earth-Moon System.
**Shearer, C., and **Newsom, H.E.
Geochimica et Cosmochimica Acta, v. 64, p. 3599-3613 (2000).

Small is beautiful: The analysis on nanogram-sized astromaterials.
M.E. Zolensky, C. Pieters, B. Clark, and J.J. Papike
Meteoritics and Planetary Science, v. 35, p. 9-29 (2000).

Metamorphic diogenite GRO 95555: Mineral chemistry of orthopyroxene and spinel and comparisons to the diogenite suite.
Papike J.J., **Shearer C.K., **Spilde M.N. and *Karner J.M.
Meteoritics and Planetary Science, v. 35, p. 875-879 (2000).

Clays in Caves of the Guadalupe Mountains, New Mexico.
V.J. Polyak** and N. Güven
Journal of Cave and Karst Studies, v. 62, p. 120-126 (2000).

Summary of the timing of sulfuric-acid speleogenesis for the Guadalupe caves based on ages of alunite.
V.J. Polyak** and P.P. Provencio
Journal of Cave and Karst Studies, v. 62, p. 72-74 (2000).

Authigenesis of trioctahedral smectite in Carlsbad Cavern and other nearby caves.
V.J. Polyak** and N. Güven
Clays and Clay Minerals, v. 48, p. 317-321 (2000).

Collected extraterrestrial materials: constraints on meteor and fireball compositions.
F.J.M. Rietmeijer** and J.A. Nuth III
Earth, Moon, and Planets, v. 82/83, p. 325-350 (2000).

Recognizing Leonid meteoroids among the collected stratospheric dust.
F.J.M. Rietmeijer** and P. Jenniskens
Earth, Moon, and Planets, v. 82/83, p. 505-524 (2000).

Interrelationships among meteoric metals, meteors, interplanetary dust, micrometeorites, and meteorites.
F.J.M. Rietmeijer**
Meteoritics and Planetary Science, v. 35, p. 1025-1041 (2000).

Refractory comet dust analogues by laser bombardment and arc discharge production: A reference frame for "dusty experiments" on-board ROSETTA.
A. Rotundi, F.J.M. Rietmeijer**, J.R. Brucato, L. Colangeli, V. Mennella, P. Palumbo and E. Bussoletti
Planetary and Space Science, v. 48, p. 371-384 (2000).

Laboratory studies of silicate smokes: Analog studies of circumstellar materials.
J.A. Nuth III, S.L. Hallenbeck and F.J.M. Rietmeijer**
Journal of Geophysical Research, v. 105, no. A5, p. 10,387-10,396 (2000).

Crustal rheology and faulting at strike-slip plate boundaries, 1, An analytic model.
Roy, M. and L.H. Royden
Journal of Geophysical Research, v. 105, p. 5583-5597 (2000).

Crustal rheology and faulting at strike-slip plate boundaries, 2, Effects of lower crustal flow.
Roy, M. and L.H. Royden
Journal of Geophysical Research, v. 105, p. 5599-5613 (2000).

Middle Proterozoic reactivation of an Early Proterozoic transcurrent boundary in the northern Colorado Front Range: Implications for ca. 1.7 and 1.4 Ga tectonism.
Selverstone, J., *Hodgins, M., Aleinikoff, J.N., and Fanning, C.M.
Rocky Mountain Geology, v. 35, p. 139-162 (2000).

The effects of diagenesis on the oxygen isotopic composition of biogenic phosphates.
Sharp, Z.D., **Atudorei, V., and Furrer, H.
American Journal of Science, v. 300, p. 34-55 (2000).

The effect of diagenesis on oxygen isotope ratios of biogenic phosphates.
Sharp, Z.D., **Atudorei, V., and Furrer, H.
American Journal of Science, v. 300, p. 222-237 (2000).

Fluid-inclusion and stable-isotope evidence for fluid infiltration and veining during metamorphism in marbles and metapelites.
Frezzotti, M.L., Dallai, L., and Sharp, Z.D.
European Journal of Mineralogy, v. 12, p. 231-246 (2000).

Chemical and oxygen isotope composition of natural and artificial pseudotachylites: Role of water during frictional fusion.
O'Hara, K.D., and Sharp, Z.D.
Earth and Planetary Science Letters, v. 184, p. 393-406 (2001).

Origin of vein hydrothermal carbonates in triassic limestones of the Espadán Ranges (Iberian Chain, E Spain).
Tritlla, J., Cardellach, E., and Sharp, Z.D.
Chemical Geology, v. 172, p. 291-305 (2000).

Vein and karst barite deposits in the western Jebilet of Morocco: Fluid inclusion and isotope (S, O, Sr) evidence for regional fluid mixing related to central Atlantic rifting.
Valenza, K., Moritz, R., Mouttaqi, A., Fontignie, D., and Sharp, Z.D.
Economic Geology, v. 95, p. 587-606 (2000).

Surinamite, a high-temperature metamorphic beryllosilicate from Lewisian kyanite-orthopyroxene-quartz-K-feldspar gneiss at South Harris, NW Scotland.
Baba, S., Grew, E.S., **Shearer, C.K., and Sheraton, J.W.
American Mineralogist, v. 85, p. 1474-1484 (2000).

Granulite-facies beryllium pegmatites in the Napier complex in Khmara and Amundsen bays, western Enderby Land, East Antarctica.
Grew, E.S., Yates, M.G., Barbier, J., **Shearer, C.K., Sheraton, J.W., Shiraishi, K., and Motoyoshi, Y.
Polar Geoscience, v, 13, p. 1-40 (2000).

Tetrahedrally coordinated boron in a tourmaline: Boron-rich olenite from Stoffhutte, Koralpe, Austria.
Hughes, J.M., Ertl, A., Dyer, M.D., Grew, E.,**Shearer, C.K., Yates, M.G., and Guidotti, C.V.
Can. Mineral., v. 38, p. 861-868 (2000).

New Views of the Moon: Improved Understanding through Data Integration.
Jolliff, B.L., Gaddis, L.R., Ryder, G., Neal, C.R., **Shearer, C.K., Elphic, R.C., Johnson, J.R., Keller, L.P., Korotev, R.L., Lawrence, D.J., Lucey, P.G., Papike, J.J., Pieters, C.M., Spudis, P.D., and Taylor, L.A.
EOS, v. 81, no. 349, p. 354-355 (2000).

Ancient hillslope deposits: Missing links in the study of climate controls on sedimentation.
J. Pederson*, F. Pazzaglia, and G.A. Smith
Geology, v. 28, p. 27-30 (2000).

The Channeled Scabland: Back to Bretz?: Comment.
B.F. Atwater, G.A. Smith, and R.B. Waitt
Geology, v. 28, p. 574-575 (2000).

Recognition and significance of streamflow-dominated piedmont facies in extensional basins
G.A. Smith
Basin Research, v. 12, p. 399-412 (2000).

Evidence For Microbial Involvement in Pool Finger Precipitation, Hidden Cave, New Mexico.
Melim L.A., Shinglman K.M., Boston P.J., Northup D.E., Spilde M.N.**, and Queen J. M.
Geomicrobiology Journal, in press (2000).

Crystallization sequence and microstructure evolution of Synroc samples crystallized from $CaZrTi_2O_7$ melts.
Huifang Xu** and Yifeng Wang
Journal of Nuclear Materials, v. 279, p. 100-106 (2000).

Zeolite-supported Ni and Mo catalysts for hydrotratments: II. HRYEM observations.
Dien Li, Huifang Xu** and George D. Guthrie, Jr.
Journal of Catalysis, v. 189, p. 281-296 (2000).

Using electron energy-loss spectroscopy (EELS) associated with transmission electron microscopy to determine oxidation states of Ce and Fe in minerals.
H. Xu**
Geological Journal of China Universities, v. 6, p. 137-144 (2000).

Environmental Mineralogy: Application of mineralogy in environmental sciences studies.
H. Xu**
Geological Journal of China Universities, v. 6, p. 233-244 (2000).

Investigation of invisible Au in Au-bearing FeS_2 microcrystals from Carlin gold ore deposit, Nevada, USA: TEM study and geochemical modeling.
H. Xu**
Geological Journal of China Universities, v. 6, p. 523-531 (2000).

Cuprian clinochlorite: a new Cu-rich variety of chlorite.
Chunxi Shi, Yuchuan Zhang, Gufeng Luo and H. Xu**
Journal of Nanjing University, Natural Sciences, v. 36, p. 780-782 (2000).

Paper in Edited Volumes

The Lower – Middle Triassic carbon isotope excursion in Dobrogea
**Atudorei, V.
Guidebook to field excursion, International Conference on the Lower-Middle Triassc boundary, Tulcea, Romani, p. 34-38 (2000).

Re-Os isotopic systematics of primitive lavas from the Lassen region of the Cascade are, California
**Borg, L.
Earth and Planetary Science Letters, v. 177, p. 301-317 (2000).

Chronology and isotopic constraints on lunar evolution. In: Origin of the earth and Moon
**Borg, L.
The University of Arizona Space Science series, p. 361-396 (2000).

Geology and mineral occurrences of the mineral districts of Hidalgo County, New Mexico, in Southwest Passage: A Trip Through The Phanerozoic.
W.E. Elston, T.F. Lawton, N.J. McMillan, V.T. McLemore, eds.
New Mexico Geological Society Guidebook 51, p. 253-262 (2000).

Geologic time scale.
Palmer, A.R., and Geissman, J.W.
McGraw-Hill Encyclopedia of Science and Technology (2000).

Specimens of Gomphotherium in the New Mexico Museum of Natural History and Science and the species-level taxonomy of Gomphotherium
*Heckert, A.B., Lucas, S.G., and Morgan, S.G.
New Mexico Museum of Natural History and Science Bulletin 16, p. 187-194 (2000)

Triassic dinosaurs in New Mexico.
*Heckert, A.B., Lucas, S.G., and Sullivan, R.M.
New Mexico Museum of Natural History and Science Bulletin 17, p. 17-26 (2000)

Stratigraphy, taphonomy, and new discoveries from the Upper Jurassic (Morrison Formation: Brushy Basin Member) Peterson quarry, central New Mexico.
*Heckert, A.B., Lucas, S.G., *Zeigler, K.E., Peterson, R.E., Peterson, R.E., and D'Andrea, N.V.
New Mexico Museum of Natural History and Science Bulletin 17, p. 51-60 (2000)

Preliminary description of coelophysoids (Dinosauria: Theropoda) from the Upper Triassic (Revueltian: early-mid Norian) Snyder quarry, north-central New Mexico.
*Heckert, A.B., *Zeigler, K.E., Lucas, S.G., Rinehart, L.F., and Harris, J.D.
New Mexico Museum of Natural History and Science Bulletin 17, p. 27-32 (2000).

Occurrence of the dinosaurian ichnogenus Grallator in the Redonda Formation (Upper Triassic: Norian) of eastern New Mexico.
*Heckert, A.B., Hunt, A.P., Lucas, S.G., and Lockley, M.G.
New Mexico Museum of Natural History and Science Bulletin 17, p. 39-41 (2000)

Dinosaurs of New Mexico: An overview.
*Heckert, A.B., and Lucas, S.G.
New Mexico Museum of Natural History and Science Bulletin 17, p. 1-4 (2000).

Dinosaurs of New Mexico: A popular guide.
*Heckert, A.B., and Lucas, S.G.
New Mexico Museum of Natural History and Science Bulletin 17, p. 5-6 (2000)

Jurassic dinosaurs in New Mexico.
*Heckert, A.B., and Lucas, S.G.
New Mexico Museum of Natural History and Science Bulletin 17, p. 43-45 (2000)

Probable turtle from the Upper Triassic of east-central New Mexico.
*Heckert, A.B., Lucas, S.G., and Hunt, A.P.
Neues Jahrbuch für Geologie und Paläontologie Monatshef, (5), p. 287-300 (2000)

Cretaceous dinosaurs in New Mexico.
*Heckert, A.B., Lucas, S.G., and Sullivan, R.M.
New Mexico Museum of Natural History and Science Bulletin 17, p. 83-91 (2000)

The Rondan jacket support clamp and jacket transport sled.
*Heckert, A.B., Peterson, R.E., and D'Andrea, N.V.
New Mexico Museum of Natural History and Science Bulletin 16, p. 281-288 (2000).

Formation of chondrules and CAIs: Theory versus observation.
R.H. Jones**, T. Lee, H.C. Connolly Jr., S.G. Love and H. Shang
In "Protostars and Planets IV", eds. V.G. Mannings, A.P. Boss and S.S. Russell. University of Arizona Press, p. 927-962 (2000).

Geochemistry and Petrology of some Proterozoic banded iron-formations of the Quadrilátero Ferrífero, Minas Gerais, Brazil.
C. Klein and A.E. Ladeira
Economic Geology, v. 95, p. 405-428 (2000).

The soil survey and soil geomorphology.
V.T. Holliday, L.D. McFadden, E.A. Bettis, and P.W. Birkeland, in D. Helms (ed.).
History of the National Cooperative Soil Survey, Iowa State University Press, in press, (2000).

Siderophile Elements in the Earth and Moon: Metal/Silicate Partitioning and Implications for Core Formation.
Walter, M.J., **Newsom, H.E., Erterl, W., and Holzheid, A.
The Origin of the Earth and Moon, (Canup, R.M. and Righter, K. eds.) Univ. of Arizona Press, p. 265-289 (2000).

Interplanetary Dust Particles.
F.J.M. Rietmeijer**
McGraw-Hill Yearbook of Science and Technology 2001, p. 208-211 (2000).

Nucleation, growth, annealing and coagulation of refractory oxides and metals: Recent experimental progress and applications to astrophysical systems.
J.A. Nuth, F.J.M. Rietmeijer**, S.L. Hallenbeck, P.A. Withey and F. Ferguson
In Thermal Emission Spectroscopy and Analysis of Dust, Disks and Regoliths (M.L. Sitko, A.L. Sprague and D.K. Lynch, eds.), Astron. Soc. Pacific Conf. Series, v. 196, p. 313-332 (2000).

Collected extraterrestrial materials: constraints on meteor and fireball compositions.
F.J.M. Rietmeijer** and J.A. Nuth III
In Leonid Storm Research (P. Jenniskens, F.J.M. Rietmeijer, N. Brosch and M. Fonda, eds.)
Kluwer Acad. Publ., Dordrecht, the Netherlands, p. 325-350 (2000).

Recognizing Leonid meteoroids among the collected stratospheric dust.
F.J.M. Rietmeijer** and P. Jenniskens
In Leonid Storm Research (P. Jenniskens, F.J.M. Rietmeijer, N. Brosch and M. Fonda, eds.)
Kluwer Acad. Publ., Dordrecht, the Netherlands, p. 505-524 (2000).

Metastable eutectic Equilibrium in Natural Environments: Recent Developments and Research Opportunities.
F.J.M. Rietmeijer**, J.A. Nuth III, M. Jablonska M. and J.M. Karner*
In Trends in Geochemistry, v. 1, p. 29-51 (2000).

What we can expect to learn from robotic exploration of a comet nucleus surface.
F.J.M. Rietmeijer**
Space 2000 Proceedings of the Conference American Society of Civil Engineers, p. 695-702 (2000).

Neogene through Quaternary hillslope records, basin sedimentation, and landscape evolution of southeastern Nevada
J.L. Pederson*, F.J. Pazzaglia, G.A. Smith, and Y. Mou
Great Basin and Sierra Nevada, D.R. Lageson, S.G. Peters, M.M Lahren, eds.
Geological Society of America Field Guide 2, p. 117-134 (2000).

Evolution of the Moon's mantle and crust as reflected in trace-element microbeam studies of lunar magmatism.
**Shearer, C.K., and Floss, C.
In Origin of the Earth and Moon (eds. K. Righter, R. Canup), p. 339-360 (2000).

Preliminary description of coleophysoids (Dinosauria: Theropoda) from the Upper Triassic (Revueltian: early-mid Norian) Snyder quarry, north-central New Mexico, in Lucas, S.G., and Heckert, A.B., eds.
*Heckert, A.B., *Zeigler, K.E., Lucas, S.G., Rinehart, L.F., Harris, J.D.,
Dinosaurs of New Mexico, New Mexico Museum of Natural History Bulletin no. 17, pp. 27-32 (2000).

Stratigraphy, taphonomy, and new discoveries from the Upper Jurassic (Morrison Formation: Brushy Basin Member) Peterson quarry, central New Mexico, in Lucas, S.G., and Heckert, A.B., eds.
*Heckert, A.B., Lucas, S.G., *Zeigler, K.E., Peterson, R.E., Peterson, R.E., D'Andrea, N.V.
Dinosaurs of New Mexico, New Mexico Museum of Natural History Bulletin no. 17, pp. 51-59 (2000).

Notes, Extended Abstracts, and Other Publications

Sr-Nd isotopic systematics of the Martian meteorite DaG 476 (abstract).
**Borg, L.
Lunar and Planetary Science Conference XXXI #1036 (2000).

Carbonates in the CM1 chondrite ALH84034: Mineral chemistry, zoning and Mn-Cr systematics.
Brearley, A.J., and Hutcheon, I.D.
Lunar and Planetary Science XXXI, Abstract CD ROM, p. 1407 (2000).

Hydrous phases in ALH84001: Further evidence for preterrestrial alteration and a shock-induced thermal overprint.
Brearley, A.J.
Lunar and Planetary Science XXXI, Abstract CD ROM, p. 1203 (2000).

Transmission electron microscope observation of phyllosilicate development during experimental aqueous alteration of Allende.
Jones, C.L., and Brearley, A.J.
Lunar and Planetary Science XXXI, Abstract CD ROM, p. 1204 (2000).

Forsteritic olivine matrix with refractory inclusions trapped by a Type A/B CAI from the reduced CV chondrite Efremovka: New Type of pristine material with evidence for preaccretionary alteration.
Ulyanov, A.A., Krot, A.N., Meibom, A., Brearley, A.J., and Keil, K.
Lunar and Planetary Science XXXI, Abstract CD ROM, p. 1439 (2000).

Policy conflicts and sustainable water resources development in New Mexico's Rio Grande Basin.
Campana, M.E., O.P. Matthews, R. DeSimone and D. DeSimone (eds.)
Water Resources Program, University of New Mexico, Pub. No. WRP-2 (2000).

Warm Climates in Earth History.
Fawcett, P.J., (review)
GSA Today, v. 10, p. 27 (2000)

Magnetostratigraphy.
Geissman, J.W.
in Oxford Companion to the Earth, edited by P. L. Hancock and B.J. Skinner
Oxford University Press, p. 632-633 (2000)

Paleomagnetism and Continental Drift.
Geissman, J.W.
in Oxford Companion to the Earth, edited by P. L. Hancock and B.J. Skinner
Oxford University Press, p. 781-782 (2000)

Paleomagnetism and polar wander.
Geissman, J.W.
in Oxford Companion to the Earth, edited by P. L. Hancock and B.J. Skinner
Oxford University Press, p. 783 (2000)

Paleomagnetism, local deformation.
Geissman, J.W.
in Oxford Companion to the Earth, edited by P. L. Hancock and B.J. Skinner
Oxford University Press, p. 782 (2000).

Paleomagnetism, past intensity of the field.
Geissman, J.W.
in Oxford Companion to the Earth, edited by P. L. Hancock and B.J. Skinner
Oxford University Press, p. 782-783 (2000).

Paleomagnetism, Techniques, and Remanent Magnetization.
Geissman, J.W.
in Oxford Companion to the Earth, edited by P. L. Hancock and B.J. Skinner
Oxford University Press, p. 783-786 (2000).

Add global warming, and what do you get?
Dahm, C., D. Gutzler, R. Parmenter, and W. Pockman
Albuquerque Tribune (2000).

Chemistry and petrology of chondrules from the Mokoia CV chondrite.
R.H. Jones** and A.J. Schilk
Lunar and Planetary Science Conference XXXI, Abstract #1400 (2000).

Evolution and Creationism--Scientists speak out: The battle to win back New Mexico.
McFadden, L.D.,
The Geological Society of America Website,
http://www.geosociety.org/criticalissues/ev_McFadden.htm, 2000.

Addressing the Misconceptions of Middle School Students About Becoming a Scientist or Engineer.
**Newsom, H.E., *Sorge, C. and *Hagerty, J.J.
Lunar and Planetary Science XXXI, #1515 (2000).

Sampling Fossil Aqueous and Hydrothermal Environments in a Large Martian Impact Crater in the Isidis Rim (Libya Montes) Landing Zone.
**Newsom, H.E., and *Thorsos, I.E.
Lunar and Planetary Science XXXI, #1519 (2000).

The Search for Life on Mars in Surface Samples: Lessons from the 1999 Marsokhod Field Test.
**Newsom, H.E., J. L. Bishop, C. Cockell, T. Roush, and J. R. Johnson
Lunar and Planetary Science XXXI, #1931 (2000).

Hydrothermal Activity at the Lonar Lake Impact Structure: Implications for the Formation of the Martian Soil.
*Hagerty, J.J., **Newsom, H.E., and **Spilde, M.N.
Lunar and Planetary Science XXXI, #1686 (2000).

Geological Characterization of Remote Field Sites Using Visible and Infrared Spectroscopy Results from the 1999 Marsokhod Field Test.
Johnson, J.R., S.W. Ruff, J. Moersch, T. Roush, K. Horton, J. Bishop, N.A. Cabrol, C. Cockell, P. Gazis, H.E. **Newsom, H.E., and C. Stoker
Lunar and Planetary Science XXXI, #1370 (2000).

New views of the Moon: Improved understanding through data integration.
B.L. Jolliff, and J.J. Papike
EOS, v. 81, p. 349-352 (2000).

Experimental constraints on the Cr content, oxygen fugacity, and petrogenesis of EETA 79001 Lithology A.
C.D.K. Herd*, J.H. Jones**, and J.J. Papike
Lunar and Planetary Science XXXI, Abstract No. 1387 (2000)

Sr-Nd Isotopic systematics of the martian meteorite DAG476.
L.E. Borg**, L.E. Nyquist, H. Wiesmann, Y. Reese, and J.J. Papike
Lunar and Planetary Science XXXI, Abstract No. 1036 (2000).

Systematics of Ni and Co in olivine from planetary melt systems: Martian basalts Dar al Gani 476 and EETA 79001.
C.D.K. Herd*, C.K. Shearer** and J.J. Papike
Lunar and Planetary Science XXXI, Abstract No. 1390 (2000).

Compositional dichotomy of the Mg suite, origin and implications for the thermal and compositional structure of the lunar mantle.
C.K. Shearer**, and J.J. Papike
Lunar and Planetary Science XXXI, Abstract No. 1405 (2000).

Trace element behavior of Fe-Ti oxides from high-Ti mare basalts.
C.K. Shearer**, J.J. Papike, and J.M. Karner*
Lunar and Planetary Science XXXI, Abstract No. 1410 (2000).

Fire in the sky: The 1999 Leonid Multi-instrument Aircraft Campaign (MAC) (editorial).
F.J.M. Rietmeijer**
Meteoritics and Planetary Science, v. 35, p. 647 (2000).

Metastable eutectic equilibrium brought down to Earth.
F.J.M. Rietmeijer** and J.A. Nuth III
Transactions American Geophysical Union, EOS, v. 81, no. 36, p. 409+ 414-415 (2000).

Metastable eutectic behavior observed during dynamic pyrometamorphism in the matrix of an aggregate IDP.
F J.M. Rietmeijer**
Lunar and Planetary Science XXXI, CD ROM #1051, Lunar and Planetary Institute, Houston (2000).

Tungsten partitioning in silicates. A key to understanding the early evolution of the Moon.
**Shearer, C.K., and Righter, K.
Lunar and Planetary Science XXXI, CD-ROM (2000).

Trace elements and cathodoluminescence in refractory forsterites from Allende and Kaba.
S. Klerner, R.H. Jones**, H. Palme and C.K. Shearer**
Lunar and Planetary Science Conference XXXI, Abstract #1689 (2000).

Trace elements and cathodoluminescence in refractory forsterites from Allende and Kaba.
Klerner, S., **Jones, R.H., Palme, H., and **Shearer, C.K.
Lunar and Planetary Science XXXI, CD-ROM (2000).

Field guide to an outcrop analogue of subsurface heterogeneity.
G.A. Smith
SEPM/IAS Research Conference, Environmental Sedimentology: Hydrogeology of Sedimentary Aquifers, p. 29, (2000).

Geologic map of the Santa Fe quadrangle, Santa Fe County, New Mexico.
A. Read*, S. Ralser, G.A. Smith, and P. Bauer
New Mexico Bureau of Mines and Mineral Resources Digital Open File Map OFDM-32, scale 1:24,000 (2000).

TEM and SFM of exsolution and twinning in an alkali feldspar
H. Xu**, D.R. Veblen, P.R. Buseck and B.L. Ramakrishna
American Mineralogist, v. 85, p. 509-513 (2000).

Microstructure and composition of Synroc samples crystallized from a $CaCeTi_2O_7$ chemical system: HRTEM/EELS investigation.
H. Xu**, Y. Wang, R. L. Putnam and J. Gutirriez
Scientific Basis for Nuclear Waste Management, v. 23, p. 461-466 (2000).

Oxidative alteration of spent fuel in a silica-rich environment: SEM/AEM investigation and geochemical modeling.
H. Xu** and Y. Wang
Scientific Basis for Nuclear Waste Management, v. 23, p. 67-74 (2000).

Thermodynamic stability of actinide pyrochlore minerals in deep geological repository environments.
H. Xu**, and Y. Wang
Scientific Basis for Nuclear Waste Management, v. 23, p. 367-372 (2000).

TEM Investigation of U^{6+} and Re^{7+} Reduction by Desulfovibrio desulfuricans, a Sulfate-Reducing Bacterium.
H. Xu**, L.L. Barton, P. Zhang and Y. Wang
Scientific Basis for Nuclear Waste Management, v. 23, p. 299-304 (2000).

Technical Reports

Investigating groundwater systems on regional and national scales.
Campana, M.E.
National Research Council, Committee on U.S. Geological Survey Research
National Academy Press, Washington, DC, p. 143 (2000).

Abstracts

Pa-Th-U Constraints on Melting and Material Recycling in Subduction Zones: A Case Study of the Philippine Arcs.
Asmerom, Y., Mukasa, S., Cheng, H., and Edwards, L.
Goldschmidt 2000, Journal of Conference Abstracts, v. 5, no. 2, p. 166 (2000).

The plume component in continental basalts.
Asmerom, Y., *Tesfai, T., and Beirman, B.
EOS, American Geophysical Union Transactions, v. 81 (2000b).

Uranium-Lead Dating of Pleistocene Corals, and Evidence for Accelerated Coral Extinction Rates in Costa Rica.
Getty, S., Asmerom, Y., and Quinn, T.
EOS, American Geophysical Union Transactions, v. 80 (2000).

Assessing Caribbean Climate Variability from Jamaican Speleothems
Gomez, R., Gonzalez, L., Asmerom, Y., and Reagan, M.
GSA Abstract (2000).

Speleothem record of late Holocene climate change in the southwestern USA.
V.J. Polyak** and Y. Asmerom
EOS Transactions, American Geophysical Union, v. 81, no. 48, p. F7 (2000).

Stable isotope evidence from a Costa Rican speleothem for variation in the Central American monsoon.
M.S. Lachniet, G.O. Seltzer, W.P. Patterson, Y. Asmerom, V.J. Polyak**, and C.M. Moy
EOS Transactions, American Geophysical Union, v. 81, no. 48, p. F593 (2000).

Preterrestrial phyllosilicate phases in ALH84001: Evidence for Water-bearing fluids during and after carbon formation.
Brearley, A.J.
Abstracts for 1st Astrobiology Conference, NASA Ames, p. 243 (2000).

Mn-Minerals in Lechuguilla Cave, NM; Potential biomarkers.
M.N. Spilde**, A.J. Brearley, and J.J. Papike
Meeting Abstracts, 1st Annual Astrobiology Conference, NASA/AMES California, p. 274 (2000).

Potential biosignitures in caves: Mn-minerals in Lechuguilla Cave, New Mexico.
**Spilde, M.N., Boston, P.J., Brearley, A.J., Northup, D.E., and Papike, J.J.
Journal of Cave and Karst Studies, v. 62, no. 3, p. 199 (2000).

Mn- minerals in Lechuguilla Cave, NM: Potential Biomarkers.
**Spilde, M.N., Brearley, A.J., and Papike, J.J.
Abstracts for 1st Astrobiology Conference, NASA Ames, p. 243 (2000).

Origin of calcium-iron-rich pyroxenes in Allende matrix: clues from rare-earth-element abundances.
Brearley, A.J., and Shearer, C.S.
Meteoritics and Planetary Science, v. 35, p. A33-34 (2000).

Carbonates in the CM carbonaceous chondrite, Allan Hill 81002: Occurrences and compositional variations.
Brearley, A.J.
Meteoritics and Planetary Science, v. 35, p. A34 (2000).

Phyllosilicates in ALH 84001: Constraints on a martian origin from TEM observations.
Brearley, A.J.
Geological Society of America Abstracts with Programs, v. 32, p. A239 (2000).

Evidence of progressive weakening and strengthening due to the interaction of metamorphic and deformational processes in a low crustal shear zone in the Alps.
Brearley, A.J., *Steffen, K., and Selverstone, J.
Geological Society of America Abstracts with Programs, v. 32, p. A98 (2000).

Ground-water development potential in the karst region of Belize.
Campana, M.E.,
Karst Abstracts (2000).

Microbial interactions in punk rock and corrosion residues in Lechuguilla Cave, Carlsbad Caverns National Park, New Mexico.
Northup, D.E., **Spilde, M.N., Schelble, R.T.*, Bean, L.E., Barns, S.M., Mallory, L., Boston, P.J., Crossey, L.J., Dotson, K.E.* and Dahm, C.N.
Journal of Cave and Karst Studies, v. 62, no. 3, p. 199 (2000).

Geochemical Investigations at Carlsbad National Park: Implications for the Origin of Cave Corrosion Residue.
*Dotson, K.E., Schlble, R.T., **Spilde, M.N., and Crossey, L.J.
Proceedings Volume, New Mexico Geological Society Annual Spring Meeting, p. 14 (2000).

Interannual Geochemical Variations of a Shallow Alluvial Aquifer.
*Ortiz, R.M., Crossey, L.J., and *Groffman, A.R.
Proceedings Volume, New Mexico Geological Society Annual Spring Meeting, p. 23 (2000).

Paleoenvironmental and C-isotope Analysis of the Red Pine Shale, Uintah Mtn. Gp., NE Utah: Offshore Deposition in a Neoproterozoic Sea.
Crossey, L.J., *Dehler, C.M., and **Autudorei, V.
Geological Society of America Annual Meeting, Abstracts with Programs, v. 32, p. A-375 (2000).

Evaluation of Natural and Mining-related Sources of Contamination to the Red River System, Northern New Mexico.
*Hagan, L., *Otohal, J., Crossey, L.J., *Groffman, A.R., and Allen, B.
Geological Society of America Annual Meeting, Abstracts with Programs, v. 32, p. A-341 (2000).

Interannual Variation in the Hydrochemical Structure of Shallow Groundwater Along a Flow Path: Near Stream to Far-Stream Aquifer Dynamics.
*Groffman, A.R., Crossey, L.J., and Dahm. C.N.
Geological Society of America Annual Meeting, Abstracts with Programs, v. 32, p. A-123 (2000).

Biogenic Influence on Mineral Corrosion and Deposition at Lechuguilla and Spider Caves, New Mexico.
**Spilde, M.N., Crossey, L.J., *Dotson, K., *Schleble, R., Northup, D., Barnes, S., and Dahm, C.N.
Geological Society of America Annual Meeting, Abstracts with Programs, v. 32, p. A-257 (2000).

Preliminary Biogeochemistry of a Shallow Alluvial Aquifer: A Comparison in Flooded and Non-Flooded Bosques of the Middle Rio Grande.
*Block, S.E., Crossey, L.J., and Allen, B.D.
American Geophysical Union Fall Meeting, EOS Transactions, v. 81, p. F473 (2000).

Cyclostratigraphy of the Mid-Neoproterozoic Chuar Group (~800-742 MA), Grand Canyon: A Record of Climatic and Tectonic Transitions into the Sturtian Glacial and During Rodinia Breakup.
*Dehler, C.M., Elrick, M.E., Karlstrom, K.E., Crossey, L.J., and Smith, G.A.
Geological Society of America Annual Meeting, Abstracts with Programs, v. 32, p. A-375 (2000).

Deep-water stratigraphic cyclicity and carbonate mud mound development in the Middle Cambrian Marjum Formation, House Range, Utah.
Elrick, M.B., and *Snider, A.C.
Geological Society of America Abstracts with Programs, v. 32, p. A-278 (2000).

Climatic mechanisms contributing to asynchronous advances of continental ice sheets and mountain glaciers in the Western United States.
Fawcett, P.J., Meyer, G.A., and *Castiglia, P.J.
EOS, Transaction American Geophysical Union, v. 81, p. 593 (2000).

Drought cycles in the American Southwest and their influence on geomorphic processes.
Scuderi, L., McAuliffe, J., Fawcett, P.J., McFadden, L.D., and *Tillery, A.
Geological Society of America Annual Meeting, Abstracts with Programs, v. 32, p. 119 (2000)

Climatic, lithologic and other geomorphic controls on late Holocene landscape evolution in northeast Arizona.
*Tillery, A., Fawcett, P.J., McFadden, L.D., Scuderi, L., and McAuliffe, J.
Geological Society of America Annual Meeting, Abstracts with Programs, v. 32, p. 119 (2000)

Regional elevational response to glacial and mid-Holocene climate perturbations in New Mexico.
Fawcett, P.J., Anderson, R.Y.**, Armour, J.*, and Allen, B.D.
Geological Society of America Annual Meeting, Abstracts with Programs, v. 32, p. 473 (2000)

A late Pleistocene and Holocene high-resolution glacial and paleoclimate record from northern New Mexico.
*Armour, J., Fawcett, P.J., and Geissman, J.W.
Geological Society of America Annual Meeting, Abstracts with Programs, v. 32, p. 473 (2000).

Degassing processes within the Karymsky Volcano-Akademy Nauk Caldera System, Kamchatka Volcanic Belt, Russia.
Fischer, T.P., and Roggensack, K.
IAVCEI General Assembly, Bali, Indonesia (2000).

Gas Geochemistry of the Volcano-Hydrothermal System of Everman Volcano.
Taran, Y.U., Fischer, T.P., and Marin, M.
Socorro Island, Revillagigedo Archipelago, Colima State, México Colima Meeting (2000).

The State of the Arc Meeting 2000 Taupo New Zealand. Volatile discharges from Volcanoes: the state of the arc.
Fischer, T.P.
(2000).

A paleomagnetic study of the Grand Canyon Supergroup, Arizona: Implications for Laurentia's APWP and tectonic history.
Weil, A.B., R. Van der Voo, and J.W. Geissman
European Geophysical Union (2000)

Testing an association between remagnetization and orogeny: the effect of Ancestral Rocky Mountain deformation on the paleomagnetism of Paleozoic and Precambrian rocks in the western Cordillera.
Geissman, J.W., and S.S. Harlan
Geological Society of America Abstracts with Programs, v. 32, p. A-465 (2000).

Preliminary geochronology and paleomagnetic results from an Early Proterozoic dike in the southern Wind River Mountains.
Harlan, S.S., J. W. Geissman and W.R. Premo
Geological Society of America Abstracts with Programs, v. 32, p. A453 (2000).

Paleomagnetic and geochronologic results bearing on the timing of fold and thrust belt deformation in the Lombard thrust sheet along the southern margin of the Helena Salient, south central Montana.
Schmidt, C.J., S.C. Whisner, S.S. Harlan and J.W. Geissman
Geological Society of America Abstracts with Programs, v. 32, p. A170 (2000).

Long-lived (1.8 to 1.0 Ga) convergent orogen in southeastern Laurentia: Its extensions to Australia and Baltica and implications for refining Rodinia.
Karlstrom, K.E., K.-I. Ahall, M.L. Williams, J. McLelland, S.S. Harlan and J.W. Geissman
Geological Society of America Abstracts with Programs, v. 32, p. A317 (2000).

Dextral transcurrent foreland deformation along the eastern margin of the Colorado plateau.
*Wawryzniec, T., J.W. Geissman, M. Melker, and M. Hubbard
Geological Society of America Abstracts with Programs, v. 32, p. A42 (2000).

Paleomagnetism of the latest Cretaceous Whitehorn granodiorite and host strata, south-central Colorado.
Nehring, S., and J.W. Geissman
EOS, Transactions of the American Geophysical Union, v. 81, p. F363 (2000).

Paleomagnetism of the Pennsylvanian-Permian Sangre de Cristo Formation, Sangre de Cristo Mountains, southern Colorado: An evaluation of Laramide deformation.
Marshall, K., and J.W. Geissman
EOS, Transactions of the American Geophysical Union, v. 81, p. F363 (2000).

Paleomagnetism of Permian and younger red beds in north-central New Mexico and the kinematics of deformation along the eastern margin of the Colorado Plateau.
Castrounis, A.D., J.W. Geissman, and T.F. Wawrzyniec*
EOS, Transactions of the American Geophysical Union, v. 82, p. F364 (2000).

Further paleomagnetic results bearing on crustal extrusion mechanisms in northern Indochina.
Geissman, J.W., B.C. Burchfiel, L. Chen and J. Yin
EOS, Transactions of the American Geophysical Union, v. 82, p. F1145 (2000).

Preliminary paleomagnetic data from the Neoproterozoic Uinta Mountain Supergroup, Sheep Creek Canyon area, northeast Utah.
*Ashby, J.M., A.B. Weil and J.W. Geissman
EOS, Transactions of the American Geophysical Union, v. 82, p. F364 (2000).

Seasonal predictability of summer precipitation in Southwest North America derived from land surface anomalies.
D.S. Gutzler
Meteorology at the Millennium, Cambridge, England (2000).

Isotopes in precipitation: a new diagnostic tool for research on the North American Monsoon.
Gutzler, D., Sharp, Z.D., and **Atudorei, V.
Proceedings of the Twenty-Fourth Annual Climate Diagnosis and Prediction Workshop, Tucson, p. 88 (2000).

Tempo and trends in Triassic dinosaur evolution.
*Heckert, A.B.
GSA Abstracts with Programs, v. 32 (2000).

Phytosaurs (Archosauria: Crocodylotarsi) from the Upper Triassic Owl Rock Formation, Arizona, and their biochronological significance.
*Heckert, A.B., and Lucas, S.G.
Mesa Southwest Museum Bulletin, v. 7, p. 37 (2000).

A giant, incomplete Redondasaurus skull from the Redonda Formation (Upper Triassic: Apachean) of east-central New Mexico.
*Heckert, A.B., Harris, J.D., and Lucas, S.G.
Mesa Southwest Museum Bulletin, v. 7, p. 59 (2000).

Additions to the fauna of the Upper Triassic Snyder Quarry, Petrified Forest Formation (Revueltian:early-mid Norian), north-central New Mexico.
*Heckert, A.B., Harris, J.D., Lucas, S.G., and *Zeigler, K.E.
New Mexico Geology, v. 22, p. 46 (2000).

Diplodocid (Dinosauria:Sauropoda) skull and jaw material from the Upper Jurassic Morrison Formation, central New Mexico.
*Heckert, A.B., Lucas, S.G., Peterson, Ronald E., Peterson Rodney E., and D'Andrea, N.V.
New Mexico Geology, v. 22, p. 51 (2000).

Late Triassic phytosaur skulls from Arizona in the USNM collection and their biostratigraphic significance.
Lucas, S.G., and *Heckert, A.B.
Mesa Southwest Museum Bulletin, v. 7, p. 57 (2000).

Probable protosuchid crocodylomorph from the Early Jurassic Navajo Sandstone of north-central Arizona.
Rinehart, L.F., *Heckert, A.B., Bryant, G., Cushman, R., and Lucas, S.G.
GSA Abstracts with Programs, v. 32 (2000).

Geologic Evolution of the North Virgin Mountains, Southeast Nevada and Northwest Arizona.
*Quigley, M.C., Karlstrom, K.E., and Hook, S.J.
An integrated structural, remote sensing, and petrologic study: American Geophysical Union Fall Meeting, v. p. F1216 (2000).

Seismic evidence for lithosphere structure across the Archean-Proterozoic boundary, Wyoming-Colorado: the CD-ROM project.
Mprozova, E.A., Wan, X., Smithson, S.B., Johnson, R, and Karlstrom, K.
American Geophysical Union Fall Meeting, p. F1196 (2000).

In Situ monazite age mapping and dating by microprobe: Timing the pulses of Proterozoic tectonism in southwestern Laurentia.
Williams, M.L., Jercinovic, M.J., and Karlstrom, K.E.
Geological Society of America Abstracts with Programs, v. 32, no. 10, p. A-317 (2000)

Laramide cooling histories of the Grand Canyon, Arizona, and the Front Range, Colorado
Kelley, S.A., Chapin, C.E., and Karlstrom, K.E.
Geological Society of America Abstracts with Programs, v. 32, no. 10, p. A-42 (2000).

Geometry, kinematics, and protracted deformation along the Colorado Mineral Belt mylonite network.
McCoy, A.M., Shaw, C., Karlstrom, K.E., Williams, M.L., and Jercinovic, M.J.
Geological Society of America Abstracts with Programs, v. 32, no. 10, p. A-230 (2000).

Proterozoic evolution of the Zuni Mountains, New Mexico, and a history of reactivation through the present.
Strickland**, D., Karlstrom, K.E., Selverstone, J., and Heizler, M.T.
Geological Society of America Abstracts with Programs, v. 32, no. 10, p. A-453 (2000).

Ancestry of the Ancestral Rocky Mountains
Heizler, M.T., *Timmons, M.J., and Karlstrom, K.E.
Geological Society of America Abstracts with Programs, v. 32, no. 10, p. A-465 (2000).

Significance of Proterozoic ultramafic rocks in the Yavapai Orogen, Upper Granite Gorge, Grand Canyon.
*Buscemi, P.A., Seaman, S.J., Williams, M.L., Karlstrom, K.E., and Bowring, S.A.
Geological Society of America Abstracts with Programs, v. 32, no. 10, p. A-435 (2000).

Genesis of world-class high-grade iron and manganese deposits: What we do and don't know.
Beukes, N.J., Gutzmer, J., and C. Klein
Abstracts with Programs, GSA, p. A-3 to A-4 (2000).

Type sections of the Upper Pennsylvanian Bruton and Bursum Formations, Socorro County, New Mexico.
S.G. Lucas, B.S. Kues, G.L. Wilde and K. Krainer.
New Mexico Geology, v. 22, p. 40 (2000).

Recommendations for revision of Pennsylvanian lithostratigraphic nomenclature in NM.
B.S. Kues
New Mexico Geology, v. 22, p. 40 (2000).

Invertebrate fauna of the Bursum Formation (Lower Wolfcampian) at its type section, Hansonburg Hills, Socorro County, New Mexico.
B.S. Kues, S.G. Lucas, G.L. Wilde and K. Krainer.
New Mexico Geology, v. 22, p. 45 (2000).

Stratigraphy and facies of the Pennsylvanian-Permian transition at Robledo Mountain, Dona Ana County, New Mexico.
K. Krainer, S.G. Lucas and B.S. Kues
New Mexico Geology, v. 22, p. 51 (2000).

Fire, storms, and erosional events in the Idaho batholith.
Pierce, J.L.*, Meyer, G.A., and Wood, S.H.
Geological Society of America Abstracts with Programs, v. 32, no. 7, p. 118 (2000)

Processes, magnitude, and timing of fire-related sedimentation events in the western Idaho Batholith.
*Pierce, J.L., Meyer, G.A., and Wood, S.H.
EOS, Transactions American Geophysical Union, v. 81, no. 48, p. 497 (2000).

The evolution of desert piedmont surfaces: Studies of the origin of desert pavements and soils.
McFadden, L.D., *Eppes, M., Wells, S., and Gillespie, A.
Abstracts with Programs, Geological Society of America Annual Meeting (The Farouk El Baz Award in Desert Research Presentation, Quaternary Geology and Geomorphology Division), v. 32, p. A-222 (2000).

Contributions of multidisciplinary geomorphic, ecologic and soils studies to research in landscape ecology.
McFadden, L.D., and McAuliffe, J.
Abstracts with Programs, Geological Society of America Annual Meetings, v. 32, p. A-326 (2000).

Late Quaternary geomorphic evolution of two drainage basins in the Jemez Mountains, New Mexico.
*Gere, T., and McFadden, L.D.,
Abstracts with Programs, Geological Society of America Annual Meeting, v. 32, p. A-26 (2000).

Effects of soil development on tectonic landforms, north flank of the San Bernardino Mountains, Southern California.
*Eppes, M., McFadden, L.D., Matti, J., and Powell, R.
Abstracts with Programs, Geological Society of America Annual Meeting, v. 32, p. A-222 (2000).

Soil spatial variability on the middle Rio Grande floodplain related to vegetation type and flood frequency.
*Bailey, N., and McFadden, L.D.
Abstracts with Programs, Geological Society of America Annual Meeting, v. 32, p. A-226 (2000).

Sr isotope and mineralogic studies of soils in the Mojave Desert, Ca: implications for the relative roles of chemical weathering and atmospheric dust deposition.
*McLain, A., McFadden, L.D., and Asmerom, Y.
Abstracts with Programs, Geological Society of America Annual Meeting, v. 32, p. A-525 (2000).

Potential for Hydrothermal Deposits in Large Martian Impact Craters.
Thorsos, I.E.,**Newsom, H.E., and Davies, A.
Division of Planetary Sciences of the American Astronomical Society Meeting (2000).

Aladdin: Exploration and sample return of the moons of Mars.
Pieters, A. Cheng, B. Clark, S. Murchie, J. Mustard, J.J. Papike, and M. Zolensky
Workshop Abstracts, Lunar and Planetary Institute (2000).

Recommendations for preserving the integrity of samples collected on Mars and returned to Earth for analysis.
C.R. Neal, B.L. Jolliff, J.J. Papike, and G. MacPherson
Workshop Abstracts, Lunar and Planetary Institute (2000).

A balanced model for exploration of the terrestrial planets: Lessons from the lunar experience.
B.L. Jolliff, L.P. Keller, G.A. MacPherson, C.R. Neal, D. Papanastassiou, G. Ryder, C.K. Shearer, and J.J. Papike
Workshop Abstracts, Lunar and Planetary Institute (2000).

Stalagmites from less humid zones – How useful are they as paleoclimate indicators?
V.J. Polyak**, H.R. Karlsson, and J.C. Cokendolpher
Karst Studies and Problems: 2000 and Beyond, Proceedings of the joint meeting of Friends of Karst, Theoretical and Applied Karstology and IGCP 448, Onac, B.P. and Tămaş, T., eds., Cluj-Napoca: Romania, p. 95-96 (2000).

Fossilized bacteria in the Rusticle Stalactites of Lechuguilla Cave.
P.P. Provencio and V.J. Polyak**
Journal of Cave and Karst Studies, v. 62, p. 38 (2000).

The importance of Grand Canyon caves and mines to the evolution of the Colorado River system.
C.A. Hill, V.J. Polyak*, W.C. McIntosh and P.P. Provencio
Grand Canyon region, Grand Canyon National Park, p. 33 (2000).

Assessment of Technology-Enhanced Conceptual Learning in Physical Geology.
**Pun, A., Powell, K., and Smith, G.A.
School Science and Mathematics Association (2000).

Crustal structure beneath the San Gabriel Mountains, California: towards a self-consistent model based on gravity and seismic velocities.
Roy, M. and R. Clayton
Geological Society of America Meeting (2000).

Constraints on the SCEC 3D Velocity Model from Gravity Data: Two-Dimensional Gravity Modeling of the Central and Eastern Transverse Ranges in the Los Angeles Region.
Natek, N. and M. Roy
Southern California Earthquake Center Meeting (2000).

How much rock uplift in the Colorado Plateau can be attributed to post-Laramide erosion and its isostatic response?
J. Pederson* and M. Roy
Geological Society of America Meeting (2000).

Trace element characteristics of lithology C in martian meteorite EET 79001: Implications for the composition of martian soils.
C.K. Shearer, M.N. Rao, J.J. Papike, D.S. McKay, and C.S. Schwandt
Meeting Abstracts, 1st Annual Astrobiology Conference, NASA/AMES California, p. 248 (2000).

Fluid involvement in strengthening and embrittlement of high-temperature shear zones.
Axen, G.J., Selverstone, J., and *Wawrzyniec, T.
Geological Society London, Weak Faults meeting (2000).

Episodic weakening and strengthening during synmetamorphic deformation of a deep crustal shear zone in the Alps.
*Steffen, K. and Selverstone, J.
Geological Society London, Weak Faults Meeting (2000).

The crust of the Colorado Plateau: evidence from the xenolithic record.
Selverstone, J., Condie, K.C., and Van Schmus, W.R.
Geological Society of America, Abstracts with Programs, v. 32, p. A386 (2000).

Oxygen-isotopic ratios of bulk chondrules from the Mokoia CV3 chondrite.
R.H. Jones**, T. Durakiewicz, Z.D. Sharp and A.J. Schilk
Meteoritics and Planetary Science, v. 35, p. A84-A85 (2000)

Application of a stable isotope geobarometer: coexisting aluminosilicates in isotopic equilibrium from the northern Colorado Front Range.
*Cavosie, A., Sharp, Z., and Selverstone, J.
Geological Society of America, Abstracts with Programs, v. 32, p. A115 (2000).

Fluid and deformation regime during wrenching and extension, Paleozoic of Graz, Eastern Alps, Austria.
Bojar A.-V., Fritz H., Sharp Z.D., Loizenbauer J., and Bojar H.-P.
European Soc. Isotope Res. p. 12-15 (2000).

Empirical calibration of isotope thermometer δD_{chert} - δD_{water}. Isotope Workshop V.
Durakiewicz, T., Migaszewski, Z.M., and Sharp, Z.D.
European Soc. Isotope Res. p. 37-39 (2000).

Isotopic composition of dinosaur tooth enamel – application to Upper Cretaceous relative humidity estimations.
Durakiewicz, T., and Sharp, Z.D.
European Soc. Isotope Res. p. 40-43 (2000).

Measurement of $\delta^{17}O$ and $\delta^{18}O$ values of extraterrestrial materials by laser ablation.
Durakiewicz, T., Sharp, Z.D., and Halas, S.
European Soc. Isotope Res. p. 44-46 (2000).

Anti-phase radial periodicity in oxygen and hydrogen isotope ratios of chert nodules from Holy Cross Mts, SE Poland.
Durakiewicz, T., Sharp, Z.D., Migaszewski, Z. M., and **Atudorei, V.N.
Geological Society of America, Abstracts with Programs, v. 32, p. A-347 (2000).

Trace element and oxygen isotopic modification of ocean island basalts by crustal assimilation: Tenerife, Canary Islands.
Grandy, J. S., Wolff, J. A., Marti, J., and Sharp, Z.D.
Geological Society of America, Abstracts with Programs, in press (2000).

A new diagnostic tool for research on North American monsoon.
Gutzler, D.S, Sharp, Z.D., and **Atudorei, V.
Proceedings of the 24th Annual Climate Diagnostics and Predictions Workshop, v. 24, p. 88 (2000).

Migrating Cretaceous theropods? Evidence from oxygen isotope geochemistry, Canada and New Mexico.
*Jensen, M.L., Sharp, Z.D., and Lucas, S.G.
Dinosaurs of New Mexico, Museum of Natural History and Science Bulletin, v. 17, p. 91 (2000).

Oxygen isotope ratios of bulk chondrules from the Mokoia CV3 chondrite.
**Jones, R.H., Durakiewics, T., Sharp, Z.D., and Schilk, A.J.
Meteoritics and Planetary Science, v. 35, p. A84-A85 (2000).

Trace element and oxygen isotopic modification of ocean island basalts by crustal assimilation: Tenerife, Canary Islands.
Larson, P.B., Grandy, J. S., Wolff, J. A., Marti, J., and Sharp, Z. D.
Geological Society of America, Abstracts with Programs, v. 32, p. A-323 (2000).

Isotopic disequilibrium in the classic triple-point localities of New Mexico.
*Larson, T., and Sharp, Z.D.
Geological Society of America, Abstracts with Programs, v. 32, A-297 (2000).

Using stable isotopes to estimate the origins and destinations of migratory raptors.
Lott, C.A., T.D. Meehan, and Z.D. Sharp
Raptor Research Foundation Annual Meeting. Jonesborough, Arkansas (2000).

Stable oxygen isotope analysis of modern and fossil lingulid brachiopods.
Rodland, D.L., Kowalewski, M., Sharp, Z.D., and Dettman, D.L.
Geological Society of America, Abstracts with Programs, v. 32, p. A-97 (2000).

Hydrogen and carbon isotope ratios of tree-ring series – Monitoring metals and sulfur dioxide in the environment.
Savard, M.M., Bégin, C., Smirnov, A., Marion, J., Parent, M., Luzincourt, M.R., Heinz, M., and Sharp, Z.D.
Geological Society of America, Abstracts with Programs, v. 32, p. A-93 (2000).

Rapid method for the determination of hydrogen and oxygen isotope ratios from water and solid hydrous substances.
Sharp, Z.D., **Atudorei, V., and Durakiewicz, T.A.
European Soc. Isotope Res. p. 167-169 (2000).

Paleohumidity estimates from oxygen isotope ratios of dinosaur teeth.
Sharp, Z.D., and Durakiewicz, T.
Geological Society of America, Abstracts with Programs, v. 32, p. A-299 (2000).

Subducted Components and Mantle Melting in the Central and Eastern Aleutian Arc: Insights from the Trace Element and Isotopic Composition of Basalt.
Singer, B., Leeman, B., Thirlwall, M., Ryan, J., Sharp, Z.D., and Rogers, N.
Geological Society of America, Abstracts with Programs (2000).

Origin of Ca-Fe-rich pyroxenes in Allende matrix: Clues from rare earth elements.
Brearley, A.J., and Shearer C.K.
Meteoritical Society Meeting, in press (2000).

W isotopes, Hf-W partitioning, and the duration of magma ocean crystallization.
Shearer, C.K.
Abstracts with Programs (2000).

Trace element crystal chemistry of magmatic minerals in a new sample of the Martian crust: DHOFAR 019.
Shearer C.K, Papike, J.J., Taylor, L.A., Nazarov, M.A., and Ivanova, M.A.
GSA Abstracts with Programs (2000).

Lithium in coexisting micas and tourmaline from W. Maine.
Guidotti, C.V., Grew, E.S., Yates, M.G., Dyar, M.D., Francis, C.A., Fowler, G., **Husler, J., and Shearer, C.K.
GSA Abstracts with Programs (2000).

An outcrop analogue of alluvial aquifer heterogeneity.
M.N Gaud*, G.A. Smith, and S.A. McKenna
Environmental Sedimentology: Hydrogeology of Sedimentary Aquifers, Program and Abstracts, p. 13 (2000).

Sensitivity of groundwater flow patterns to parameterization of object-based models of fluvial aquifers.
S.A. McKenna, and G.A. Smith
Environmental Sedimentology: Hydrogeology of Sedimentary Aquifers, Program and Abstracts, p. 29 (2000).

Long-term hillslope sedimentary records: Implications for understanding overall landscape responses to climate change.
J.L. Pederson*, F.J. Pazzaglia, and G.A. Smith
Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-182 (2000).

Oligocene onset of Santa Fe Group sedimentation near Santa Fe, New Mexico.
G.A. Smith
New Mexico Geology, v. 22, p. 43 (2000).

Evaluation of technology-based conceptual learning in physical geology
A. Pun, K. Powell, and G.A. Smith
Society of Science and Mathematics Educators, Annual Meeting, Program (2000).

A garden inside out: Microbial mats in springs, wall muds, and ceiling formations in a sulfur dominated cave, Cueva de Villa Luz, Tabasco, Mexico.
Boston, P.J., Soroka, D.S., Kleina, L.G., Lavoie, K.H., **Spilde, M.N., Northup, D.E., and Hose, L.D.
Journal of Cave and Karst Studies, v. 62, no. 3, p. 198 (2000).

A garden inside out: Dense microbial mats in springs, wall muds, and ceiling formations in a sulfur dominated cave.
Boston, P.J., Soroka, D., Kleina, L., Lavoie, K., Spilde, M.**, and Northup, D.
Proceedings of the First Annual Astrobiology Conference, p. 389 (2000).

Evidence For Microbial Involvement in Pool Finger Precipitation, Hidden Cave, New Mexico.
Shinglman K.M., Melim L.A., Boston P.J., Northup D.E., Spilde M.N.**, and Queen J. M.
Geological Society of America Abstracts with Programs, v. 32, p. A279 (2000).

Preliminary taphonomy of the Snyder Quarry and signicant concentrations of titanium in the specimens
*Zeigler, K.E., *Heckert, A.B., Lucas, S.G.
New Mexico Geology, v. 22, p. 51-52 (2000).

The aetosaur Desmatosuchus from the Upper Triassic Snyder quarry, northern New Mexico, and its biochronological significance
*Zeigler, K.E., *Heckert, A.B., and Lucas, S.G.
New Mexico Geology, v. 22, p. 46 (2000).

Preliminary taphonomy of a unique late Triassic bonebed from north-central New Mexico
*Zeigler, K.E., *Heckert A.B., and Lucas, S.G.
GSA Abstracts with Programs, v. 32, no. 7, p. 220 (2000).

The aetosaur Desmatosuchus from the Upper Triassic Snyder quarry, northern New Mexico, and its biochronological significance.
*Zeigler, K.E., *Heckert, A.B., and Lucas, S.G.
New Mexico Geology, v. 22, 46 (2000).

Preliminary taphonomy of the Upper Triassic Snyder quarry and significant concentrations of titanium in the specimens.
*Zeigler, K.E., *Heckert, A.B., and Lucas, S.G.
New Mexico Geology, v. 22, p. 51-52 (2000).

Preliminary taphonomy of a unique Upper Chinle bonebed from north-central New Mexico.
*Zeigler, K.E., *Heckert, A.B., and Lucas, S.G.
GSA Abstracts with Programs, v. 32 (2000).

3. EXTERNALLY FUNDED RESEARCH GRANTS AND CONTRACTS

Awarded in January 1, 2000 – June 30, 2001

Quantifying and identifying groundwater recharge to Lake Tahoe
J. Thomas, Y. Asmerom and T. Kraemer
National Science Foundation
$70,324; 2000-2001, Administered though DRI

Reconstructing Changes in Indian Summer Monsoon Intensity, central Nepal
Y. Asmerom and L.A. González
National Science Foundation
$10,000

Formation and alteration of histories of chondritic materials
A.J. Brearley
NASA Cosmochemistry Program
$190,000; 5/00-5/03

NM Alliance for Minority Participation, College of Arts and Sciences
L.J. Crossey and Kimbell (Co-PI)
New Mexico State University
$5,000; 12/4/00

New Mexico Alliance for Minority Participation – College of Arts and Sciences
L.J. Crossey
New Mexico State University
$2,000; 6/19/01

Water quality and sustainability in the Sandia Basin, East Mountain Area, central New Mexico
M.E. Campana
U.S. Department of Commerce-NOAA
$10,000; 6/23/00-2/16/01

An integrated GIS framework for water reallocation and decision-making in the Upper Rio Grande Valley
U.S. Environmental Protection Agency
M.E. Campana, O.P. Matthews, D. Brookshire and L. Scuderi
$410,000; 6/1/00-5/31/03

Sustainable water resources development: valuation of water in the Americas
M.E. Campana, O.P. Matthews and D. Brookshire
U.S. Department of Commerce-NOAA
$20,000; 4/24/00-5/31/01

Preliminary assessment of the transient distribution of deuterium and oxygen-18 in the ground water of the Roswell Basin, southeastern New Mexico
M.E. Campana
UNM Research Allocations Committee
$7,500; 4/1/00-9/30/00

A quantitative assessment of the economic and institutional impacts of climate change on the Upper Rio Grande Valley using an integrated GIS framework
L. Scuderi, O.P. Matthews, M. Campana, D. Brookshire and J. Chermak
National Science Foundation
$675,000; 1/1/00-12/31/02

New Mexico Collaborative for Excellence in Teacher Preparation (continuation)
L. Crossey, D. Flores and R. Casillas
National Science Foundation
$590,000; 9/1/00-5/31/02

Alliance for Minority Programs: Undergraduate Research Support
L. Crossey and R. Jacquez
$20,000; 11/1/00-10/31/01

A Partnership in Modeling Earth System History
P.J. Fawcett
The Pennsylvania State University (subcontract)
National Science Foundation
$70,056; 05/01/00-04/30/02

STC: Center for Modeling Earth System History
P.J. Fawcett
Penn State University
$35,028; 8/18/00

STC: Center for Modeling Earth System History
P.J. Fawcett
Penn State University
$51,591; 6/20/01

Volitile Flux from Active Margins: The Central American Volcanic Arc
T. Fischer
National Science Foundation
$51,076; 8/15/00-6/01

Volitile Flux from Active Margins: The Central American Volcanic Arc
T. Fischer
National Science Foundation
$5,500; 3/22/01

Collaborative Research: Resolving Mantle, Crustal and Slab Fluxes to Arcmagmatism in Central America Using Geothermal Fluids
T. Fischer
National Science Foundation
$67,281; 1/15/01

Hydrocarbons in Active Volcanic Environments
T. Fischer
American Chemical Society
$25,000; 4/2/01

Paleomagnetic investigation of sedimentary rocks of the Neoproterozoic Uinta Mountain Supergroup, Uinta Mountains, northeast Utah
J.W. Geissman
UNM Research Allocations Committee
$1,955.00; 7/1/00-12/20/00

Climatic Factors Modulating Warm Season Precipitation in Southwest North America
D. Gutzler
NOAA Office of Global Programs
$57K/year; 7/00-6/03

Biocomplexity Incubation Activity: Drought in mesic and arid environments – climatology, biotic responses, and feedbacks
D. Gutzler, C. Dahm, A. Ward, L. Gough and M. Ward
NSF Ecological Studies Program
$100K; 11/00-4/02

Climatic Factors Modulating Warm Season Precipitation in Southwest North America
D.S. Gutzler
National Oceanic and Atmospheric Administration
$56,785; 8/18/00

Collaborative Research: Great Unconformity of the Southwestern USA – Ar-Ar K-feldspar Thermochronologic and Structural Studies of a Billion Years of Regional Exhumation
K.E. Karlstrom
National Science Foundation
$5,935; 1/3/01

Contrasting Styles of Ca 1.4 Ga Tectonism in the Southern Rockies: Evidence for a Fossil Rheologic Transition in a Deeply Exhumed Intracontental Orogen
K.E. Karlstrom
National Science Foundation
$90,242, 1/5/01

Lithospheric Structure and Evolution of the Rocky Mountains: Phase II: Geodynamic Processes
K.E. Karlstrom
National Science Foundation
$110,483; 3/9/01

Collaborative Research: Relationship between ultramafic rocks and crustal sutures in the North American Southwest
K.E. Karlstrom and S. Seaman
National Science Foundation
$21,798; 1/1/01-12/31/02

Collaborative Research: Lithospheric structure and evolution of the Rocky Mountains--Phase 2: Geodynamic processes
K.E. Karlstrom and others
National Science Foundation
$65,000 to K.E. Karlstrom; total grant = $700,000; 1/1/01-12/31/01

Supplement to Grand Canyon Research grants: acquisition of trailers for transport of boats
K.E. Karlstrom
National Science Foundation
$5935

Study of the Pennsylvanian-Permian boundary in New Mexico.
B.S. Kues
UNM Research Allocations Committee Grant.
$2360

Geomorphic impacts of catastrophic fire in ponderosa pine ecosystems: Modern and Holocene perspectives from granitic mountains of central Idaho
G. Meyer
National Science Foundation (EAR-0000905)
$137,566; 6/15/00-12/31/02

Cooperative Agreement for Technical Assistance in Water Resource Investigations
G. Meyer
Department of the Interior
$40,000; 12/18/00

Cooperative Agreement for Technical Assistance in Water Resource Investigations
G. Meyer
Department of the Interior
$10,000; 4/20/01

REU: Geomorphic Impacts of Catastrophic Fire in Ponderosa Pine Ecosystems: Modern and Holocene Perspectives
G. Meyer
National Science Foundation
$3,600; 6/5/01

Exploring the Solar System, a Research and Activity-Based Course for Teachers
H.E. Newsom
New Mexico Collaborative for Excellence in Teacher Preparation
$12,084, one year

Martian impact crater hydrothermal systems, Clues from the Lonar India crater
H.E. Newsom
NASA
$50,721, 2 years.

Minority University Education and Research Partnership Initiative in Space Science 2000, Stars on Earth, Space Science Research Experience and College Preparation for Underrepresented Secondary Students
H.E. Newsom
NASA- OSS, OEOP
$114,447, 2 years.

Development of Class Activity Manual for Natural Science Program
M. Nyman
NM-CETP Mini-Grant:
$2000.00; Summer 2000

French Award
M. Nyman
New Mexico State University
$2000.00; Spring 2000

Microbeam Studies of Planetary Materials
J.J. Papike, L. Borg, R. Jones and C. Shearer
NASA
$233,000; 2/15/00-2/15/01

Institute for the Study of Biomarkers in Astromaterials
J.J. Papike
NASA
$50,000; 5/14/00-5/13/01

Spinels as Recorders of Planetary Basalt Evolution: Martian Samples
J.J. Papike and C. Herd
NASA
$22,000; 7/15/00-7/14/01

Mineralogy of fine-grained primitive extraterrestrial materials
F.J.M. Rietmeijer
National Aeronautics and Space Administration Cosmochemistry Program
$108,000; 4/1/00-3/31/01

Gravity and geologic constraints on the structure and geometry of the Colorado Mineral Belt, Southern Rocky Mountains, Colorado
M. Roy, A. McCoy, R. Keller and K. Karlstrom
5/01

Two and Three Dimensional Modeling of Gravity, Topography, and Seismic Data in the Los Angeles Region
M. Roy
University of Southern California
$15,027; 5/17/01

Interactions between deformation and metamorphism: Controls on shear zone rheology and metamorphic memory
J. Selverstone and A. Brearley
National Science Foundation
$143,608; 6/1/00-5/31/03

An oxygen isotope study of aluminum silicate 'triple point' rocks
Z. Sharp
National Science Foundation
$158,000; 1/01-12/03

Chemical-mechanical processes responsible for the formation of 'crack-seal' veins
D. Wiltschko and Z. Sharp
National Science Foundation
12/00, 3 year duration.

Collaborative Research: Integrated Structural and Geochemical Investigation of Arkansas, Switzerland Alternate Origins for "Crack-Seal" Veins
Z.D. Sharp
National Science Foundation
$22,373; 5/17/01

Development and Use of Dynamic Presentations and Student Tutorials in Introductory Geology
G.A. Smith
UNM Teaching Allocations Subcommittee
$550.00; 1/00-12/00

Development of Alternative Curriculum Materials for College Level Physical Geology
G.A. Smith, A. Pun and K. Powell
National Science Foundation
$30,000; 1/00-6/01

Transmission Electron Microscopy Investigation of Mesoporous Materials
H. Xu
Sandia National Laboratories
$25,530; 1/31/01

HRTEM and STEM investigation of Minerals Associations from Naturita site.
H. Xu
Sandia National Laboratories
$15,023; 12/00-12/01

Quantify crystallinity of cellulose materials in transuranic waste.
H. Xu
Sandia National Laboratories
$10,000; 4/00-4/01

Grants and Awards current in January 1, 2000 – June 30, 2001 (continued from previous years).

^{231}Pa-^{235}U Fractionation During Intra-Plate Mantle Melting and Magma Transport
Y. Asmerom
National Science Foundation
$98,000 UNM, $50,000 (UMN); 11/99-10/01

The Role of Mantle Plumes in Formation of New Tectonic Plates: Constraints from Basalt Geochemistry and Geochronology
Y. Asmerom, C. Lewis and S. Baldridge
$~25,000; 1999-2000 (renewed)

Increasing Minority Ph.D.s in Geochemistry
Y. Asmerom
The Sloan Foundation
$55,000; 1999-2001

U-series Isotope Systematics of Continental Rift Basalts (2 yrs)
Y. Asmerom
National Science Foundation
$127,000; 1997-1999; extended to 2000

Chronology of submerged speleothems from the Blue Hole, Belize: Implication for sea level and tropical climate change through time
Y. Asmerom
National Science Foundation
$50,000; 1998-2000

U-Pb Geochronology in Marine Carbonates; A New Approach for Age Dating in Paleoclimate Reconstruction
S. Getty and Y. Asmerom
National Science Foundation
$154,995; 1997-2000

Microstructural studies bearing on the origin of carbonates and associated minerals in Martian meteorite, ALH 84001
A.J. Brearley
NASA Ancient Martian Meteorite Program
$78,000, 7/1/97-7/31/00

Phase transformations involving olivine, β-phase and spinel in the mantle transition zone: experimental studies of transformation mechanisms in Mg_2SiO_4 and $(MgFe)_2SiO_4$
A.J. Brearley
National Science Foundation
$102,175, 8/1/95-7/31/00

Mechanisms and kinetics of aqueous alteration reactions in chondritic meteorites
A.J. Brearley
NASA Origins of Solar Systems Program
$20,000; 5/15/99-5/14/00

Geochemical signatures of melt segregation in static s dynamic environments
A.J. Brearley
National Science Foundation
$42,940; 6/1/97-5/30/01

A multi-level approach to modeling ground and surface water exchange in agriculturally-dominated settings
W.A. McKay, E.A. Jacobson, and E.V. McDonald and M.E. Campana
U.S. Geological Survey - Western Regional Competitive Grants Program
$741,000 (UNM share: $165,000, including CS); 9/1/98-8/31/01

Policy conflicts and suatainable water resources development in New Mexico's Rio Grande Basin
M.E. Campana and O.P. Matthews
U.S. Dept. of Commerce-NOAA
$15,000; 6/1/99-2/15/00

Geomicrobial Interactions of Microbial Communities in Cave Deep Subsurface Environments: A Novel Extreme Environment
L. Crossey, C. Dahm and D. Northup
National Science Foundation
$292,134; 8/1/98-7/31/01

IGERT– Freshwater Sciences Interdisciplinary Doctoral Program
L. Crossey, C. Dahm, M. Molles, C. Crawford, T. Turner, Z. Sharp, D. Gutzler, M. Campana and L. McFadden
National Science Foundation, IGERT
$1,350,000; 8/1/99-7/31/04

Alliance for Minority Programs: Undergraduate Research Support
L. Crossey and R. Jacquez
N.M. State University
$20,000; 11/1/99-10/31/00

Nested GCM/mesoscale model studies of large rapid Holocene and late glacial climate changes: synthesis with the Greenland ice core records
P.J. Fawcett
National Science Foundation
$84,514; 6/1/97-5/31/00

Modeling the effects of land surface forcing on summer rainfall in southwest North America
D. Gutzler and P.J. Fawcett
Los Alamos National Laboratory
$40,593; 8/15/98-8/15/01

Observations and Modeling of large-scale controls on summer rainfall in Southwest North America
D. Gutzler and P.J. Fawcett
National Science Foundation
$130,580; 2/1/98-1/31/2001

Thermal modeling of cooling ash-flow sheets and mafic intrusions: Implications for the role of fluids and the rate of change of the geomagnetic field during a reversal
J.W. Geissman, G. Keating and G.A. Valentine
IGPP Program, Los Alamos National Laboratory
$36,830; Third year of a three-year program

Collaborative Research: Assessing the style, evolution of large-magnitude intracontinental deformation, and the role of extrusion tectonics, eastern Himalayan Syntaxis, Yunnan, China
J.W. Geissman and C. Burchfiel
National Science Foundation
$181,103 (UNM component); 7/1/97-6/30/00 (extended to 30 June, 2001)

Collaborative Research: Great Unconformity of the Southwestern U.S.A.: Ar-Ar K-feldspar thermochronologic and structural studies of a billion years of regional exhumation
K.E. Karlstrom and M. Heizler
$76,866 awarded to UNM, 7/15/99-6/30/02 (EAR-9902955)

Continent Dynamics proposal: Lithospheric structure and evolution of the Rocky Mountain transect of the western U.S.: an integrated geological/geophysical investigation ($2,700,000 awarded)
K.E. Karlstrom, F.J. Pazzaglia and others
$335,000 to UNM, total grant = $3,000,000, 10/1/97 - 9/30/2000 (EAR-9614787)

Postglacial climate and alluvial system processes in the arid Bighorn Basin, Wyoming: Insights through comparison to adjacent high-elevation systems
G. Meyer
Geological Society of America Gladys W. Cole Memorial Research Award
$11,000; 4/99

NASA-PreCollege Awards for Excellence in Mathematics, Science, Engineering and Technology
H.E. Newsom
(PACE/MSET)
$298,000, three years.

Support of UNM/SNL Ion Microprobe Facility
J.J. Papike and C. Shearer
National Science Foundation
$80,000; 8/1/99-8/1/00

Spinels as Recorders of Planetary Basalt Evolution: Martian Samples
J.J. Papike and C. Herd
NASA
$22,000; 7/15/99-7/14/00

Microbeam Studies of Planetary Materials
J.J. Papike, A. Brearley, R. Jones and C. Shearer
NASA
$219,000; 12/15/99-2/13/00

Mineralogy of fine-grained primitive extraterrestrial materials
F.J.M. Rietmeijer
National Aeronautics and Space Administration Cosmochemistry Program
$110,000; 4/1/99- 3/31/00

Constraints on the SCEC 3D Velocity Model from Gravity Data
M. Roy
Southern California Earthquake Center
1/99 to

Geomorphic and geodynamic response to extension in convergent orogens
J. Selverstone, M. Roy and F. Pazzaglia
National Science Foundation
$38,743; 6/1/99-5/31/01

Proterozoic assembly of the northern Colorado Front Range
J. Selverstone
National Science Foundation
$128,000; 6/1/98-5/31/00

How Does the Earth Work?
G.A. Smith and A. Pun
National Science Foundation
$12,500; 1/00-6/00

Outcrop characterization of heterogeneity: explicit linkage of hydrological and sedimentological properties
G.A. Smith and M.E. Campana
National Science Foundation
$120,000; 8/97-1/01

Acquisition of a stable isotope mass spectrometer and tandem UV-CO_2 laser extraction line
Z. Sharp
National Science Foundation
$369,000; 6/1998-6/2000

4. RESEARCH PROJECTS IN PROGRESS
(Calendar Year 2000-2001)

Yemane Asmerom, Associate Professor

Manuscripts in review

A high-resolution speleothem record of climatic variability during the Allerød-Younger Dryas transition in Missouri, central United States
Denniston, R.F., González, L.A., Asmerom, Y., and Reagan, M.K.
Palaeogeography, Palaeoclimatology, Palaeoecology, (in review).

A wetter and cooler Late Holocene climate in the southwestern USA from mites preserved in stalagmites
Polyak, V., Cokendolpher, J., Norton, R., and Asmerom, Y.
Geology (in review).

Manuscripts in preparation

^{231}Pa ^{235}U and ^{230}Th ^{238}U Isotopic Constraints on Timing of Multiple Enrichment Events in Philippine Arc Mantle
Asmerom, Y., Mukasa, S., Cheng, H., and Edwards, R.L.
(to be submitted to Science).

Climatic variations in the SW United States from high resolution speleothem data
Polyak, V., and Asmerom, Y.
(to be submitted to Science).

Long-lived effects of Miocene subduction rollback in the western Mediterranean: Lithospheric thinning and alkaline volcanism in northeastern Iberia
Lewis, C., Baldridge, S., and Asmerom, Y.
(to be submitted to Journal of Geophysical Research).

The plume component in continental basalsts
Asmerom. Y., Tesfay, T., and Bierman, B.
(to be submitted to Earth and Planetary Science Letters).

Nicu-Viorel Atudorei, Research Scientist III.

Manuscripts submitted

Insights into Wilson's Warbler Migration from Analyses of Stable Hydrogen Isotope Ratios
Kelly, J.F., Atudorei, V., Sharp, Z.D., and Finch, D.M.
(in review, Ecology).

Potential climate signals from the deep-sea gorgonian coral Primnoa resedaeformis, Heikoop, J.M., Risk., M.J., Hickmott, D.D., Shearer, C.K., and Atudorei, V.
(submitted to Hydrobiologia).

Manuscripts in preparation

Geochemical markers and the ecological recovery from the end-Permian mass extinction
Atudorei, V., Baud, A., Gradinaru, E., Shields, G., Sharp, Z.D., Gaetani, M., Bucher, H, Stille, P.
(for Geology).

The Early-Middle Triassic carbon isotope event
Atudorei, V., Gradinaru, E., Baud, A., Gaetani, M., Mirauta, E.
(for Palaeogeography, Palaeoecology, Palaeoclimatology).

The Lower Triassic sulfur isotope anomaly
Atudorei, V. and Lucas, S.
(for Chemical Geology).

Antiphase hydrogen and oxygen isotope periodicity in chert nodules. Implications for thermal instabilities in sedimentary basins
Durakiewicz, T., Sharp, Z.D., Migasewski, Z.M. and Atudorei, V.

Ongoing collaborations

Stable isotope geochemistry of Triassic sedimentary rocks of Western Canada. With Mike Orchard, Geological Survey of Canada (4-years project pending on funding by the Geological Survey of Canada).

Chemostratigraphy of the Thaynes Formation (SE Idaho). With Jean Guex, University of Lausanne, partly funded by the Swiss National Foundation.

Geochemical characterization of Devonian-Mississippian marine shales: integration of stable isotope geochemistry and organic petrography. With Dr. Sue Rimmer, University of Kentucky, Lexington, funded by NSF (Sue Rimmer PI).

Radiometric calibration of the Triassic timescale. With Dr. Mihai Ducea, University of Arizona.

M. Susan Barger, Adjunct Professor

Work with David Vaughan and Professor Ann Ramenofsky (Anthropology) on materials from excavation at Comanche Springs, New Mexico.

Adrian Brearley, Associate Professor

Articles in press

Aqueous alteration of chondrules in the CM carbonaceous chondrites, Allan Hills 81002
Hanowski, N.P., and Brearley, A.J.
Geochimica et Cosmochimica Acta (in press), 2001.

Episodic weakening and strengthening during synmetamorphic deformation of a deep crustal shear zone in the Alps. In The Nature and Tectonic Significance of Fault Zone Weakening' Geological Society of London
Steffen, K., Selverstone, J., and Brearley, A.J.
Special Volume (in press) 2001.

Zoned chondrules in Semarkona.
Grossman, J.N., Alexander, C.M.O'D., Wang, J., and Brearley, A.J.
Meteoritics and Planetary Science (in revision) 2001.

Oxygen fugacity of martian basalts from electron microprobe oxygen and TEM-EELS analyses of Fe-Ti oxides
Herd, C.D.K., Papike, J., and Brearley, A.J.
American Mineralogist (in revision) 2001.

Manuscripts in preparation

The effect of cooling rate on the protoenstatite to orthoenstatite inversion: an experimental and transmission electron microscope study (with Rhian Jones).

A shock induced origin for magnetites in martian orthopyroxenite ALH 84001.

A TEM study of chondrules in the CM carbonaceous chondrites, Lewis Cliff 90500 – new constraints for the aqueous alteration of chondrules (with Nick Hanowski).

Chondrule serpentines as indicators of aqueous alteration in CM carbonaceous chondrites (with Nick Hanowski).

Hydrous phases of martian origin in ALH 84001.

An experimental study of rapid melt segregation in the crust: Geochemical signatures and petrologic implications.

Michael E. Campana, Professor

Manuscripts in press

Marketing Western water: can a process based geographic information system improve reallocation decisions?
Matthews, O.P., L. Scuderi, D. Brookshire, K. Gregory, S. Snell, K. Krause, J. Chermak, B. Cullen and M. Campana
Natural Resources Journal, in press.

Compartmental model approaches to groundwater flow simulation, In W. Mook (ed.), Environmental Isotopes in the Hydrological Cycle: Principles and Applications
Campana, M.E., G.A. Harrington and L. Tezcan
v. vi, ch. 3, p. 37-73, UNESCO/IAEA, in press.

Compartment model simulation of ground-water flow systems. In Y. Yurtsever (ed.), International Atomic Energy Agency Technical Document TECDOC.
Campana, M.E.
in press.

Unsupported research

International Atomic Energy Agency Coordinated Research Programme on Isotope Response of Hydrological Systems to Long-Term Exploitation (funding provided only for travel to research group meetings).

Laura J. Crossey, Professor

Manuscript in press

Neoproterozoic Chuar Group (~800-742Ma), Grand Canyon: A Record of Cyclic Marine Deposition During Global Climatic and Tectonic Transitions
Dehler, C.M., Elrick, M.E., Karlstrom, K.E., Smith, G.A., Crossey, L.J. and Timmons, M.J., Sedimentary Geology, in press (2001).

Maya Elrick, Associate Professor

Manuscripts in press

Estimating the mineralogical composition of precursor sediments of strongly diagenetically altered rhythmites, Munnecke, A., Westphal, H., Elrick, M. B., and Reijmer, J.J.G.
International Journal of Earth Sciences, in press.

Neoproterozoic Chuar Group (~800-742 Ma), Grand Canyon: A record of cyclic marine deposition during global climate and tectonic transitions
Dehler, C.M., Elrick, M.B., Karlstrom, K.E., Smith, G.A., Crossey, L.J., and Timmons, M.J., Sedimentary Geology, Special Issue, in press 2001.

Deep-water stratigraphic cyclicity and carbonate mud mound development in the Middle Cambrian Marjum Formation, House Range, Utah
Snider, A.C. and Elrick, M.B.
Journal of Sedimentary Research, submitted.

Manuscripts in preparation

Neoproterozoic Chuar Group (800-742 Ma), Grand Canyon: Large-scale fluctuations in C-isotopic composition of organic carbon and dolomites and implications for pre-Sturtian climate change.
Dehler, C.M., Elrick, M.B., Karlstrom K.E., Crossey, L.C., Sharp, Z., Smith, G.A.

Proposals submitted

Developing a "real world" undergraduate laboratory exercise for learning geologic subsurface mapping techniques.
Teaching Allocations Subcommittee, 2000-2001, $1030.00, accepted.

Wolfgang E. Elston, Senior Research Professor

Continued Research

Continued research on Bushveld Igneous Complex, South Africa.

Peter J. Fawcett, Assistant Professor

Manuscripts in preparation

Effects on an impact induced ring system on the Earth's climate
P.J. Fawcett and Boslough, M.B.E.
Submitted to Journal of Geophysical Research, Atmospheres.

Origin of the Greenland Summit secondary warm peak
P.J. Fawcett, C.A. Shuman, R.B. Alley, and A.M. Agustsdottir
To be submitted to Geophysical Research Letters.

Global precipitation minus evaporation (P-E) over the last 280 Myr: A comparison of climate model results with the geologic record
P.J. Fawcett, P.A. Reese, A.M. Ziegler, M.L. Hulver, and E.J. Barron
To be submitted to Geological Society of America Bulletin.

The climatic evolution of India and Australia from the Late Permian to Recent: A comparison of climate model results to the geologic record
P.J. Fawcett and E.J. Barron
To be submitted to Paleoclimates: Data and Modeling.

Unsuccessful research proposals

Science and Technology Center: Center for Modeling Earth System History
P.J. Fawcett UNM P.I., (E.J. Barron, Penn State University Project P.I.)
National Science Foundation Science and Technology (Integrated Partners)
Proposed Dates: 12/01/00-12/31/05; $355,752

Unsupported research projects

Climate-vegetation-landscape evolution in the late Pleistocene and Holocene, Black Mesa, Arizona region.

Tobias Fischer, Assistant Professor

In peer-reviewed journals

Delmelle, P., Bernard, A., Kusakabe, M., Fischer, T.P., Takano, B., (2000). The crater lake system of Kawah Ijen volcano, Indonesia: insights from chemical and isotopic compositions obtained between 1990 and 1996. Journal of Volcanology and Geothermal Research, v. 97, p. 31-54.

In press

Evaluation of results from Forth and Fifth IAVCEI Field Workshop on Volcanic Gases, Vilcano Island, Italy and Java, Indonesia
Giggenbach W.F., Tedesco D., Sulisiyo Y., Caprai A., Cioni R., Favara R., Fischer T.P., Hirabayashi J., Korzhinsky M., Martini M., Menyailov I., and Shinohara H.
Journal of Volcanology and Geothermal Research

Volcanic flux of nitrogen from the earth
Sano Y., Takahata N., Nishio, Y., Fischer T.P., and Williams, S.N.
Chemical Geology

Variations in the chemical and isotopic composition of fumarole gases and spring discharges from Cumbal volcano, Colombia
Lewicki, J., Fischer, T.P., and Williams, S.N.
Bulletin of Volcanology, submitted Nov., 1997

Other research projects

Development of Volcanic and hydrothermal fluids analyses laboratory. (May 2000-present).

Sampling and analyses of aerosols emitted from passively degassing volcanoes (Melissa Pfeffer, MS student).

Mico-biology and gas geochemistry research project at Yellowstone National Park in collaboration with Washington University at St Louis. (June 2000-present).

The chemical and isotopic composition of hydrothermal gas discharges on Dominca, Lesser Antilles: implications for monitoring of volcanic activity. Supported in part by the Seismic Research Unity, University of West Indies. (November 2000-present).
Investigations of the geochemistry of gas discharges from Tungurahua and Guagua Pichincha Volcanoes, Ecuador. Supported in part by the Instituto Geophisico, Quito, Ecuador. (August 1988-present).

Volcanic gas chemistry and isotopic compositions of fluids along the Sunda Volcanic Arc, Indonesia. Collaboration with Scripps Institute of Oceanography. (November 2000-present).

The geochemistry of fluids released from Everman Volcano, Socorro Island Mexico. Collaboration with Yuri Taran, UNAM.

Publications related to other research projects (in preparation)

"The hydrothermal system of Everman, an intraplate ocean island volcano, Mexico" by Taran Y., Fischer T., Sienfuegos E., and Morales P.

"Collection and analyses of volcanic gas samples" by Fischer, T. Simoes, M., and Zimmer, M.

Unsuccessful proposals

SURP: The Control of Degassing Processes on Eruption Styles of Large Calderas and on Volatile Contributions to the Atmosphere: Valles Caldera, New Mexico.

John W. Geissman, Professor

Papers in press

Proterozoic multistage (~1.1 and ~0.8 Ga) extension in the Grand Canyon Supergroup and extablishment of northwest and north-south tectonic grains in the southwestern United States
Timmons, J.M., Karlstrom, K.E., Dehler, C.M., Geissman, J.W., and Heizler, M.T.
Bulletin of the Geological Society of America, (2001).

Paleomagnetic data bearing on style of Miocene deformation in the Lake Mead area, southern Nevada
Wawrzyniec, T. F., J.W. Geissman, and R. E. Anderson
Journal of Structural Geology, (2001).

Long-lived (1.8 -0.8 Ga) Cordilleran type orogen in southern Laurentia, its extensions to Australia and Baltica, and implications for refining Rodinia
Karlstrom, K. E., Harlan, S.S., Williams, M.L., McLelland, J., Ahall, K.-I., and Geissman, J.W.
Precambrian Research, (2001).

Paleomagnetism and geochronology of an Early Proterozoic quartz diorite in the southern Wind River Mountains, Wyoming
Harlan, S. S., J. W. Geissman, and W.R. Premo
Tectonophysics, (2001).

Assessing vertical-axis rotations in large-magnitude extensional regimes: a transect across the Death Valley extended terrane, California
Petronis, M. S., Geissman, J.W., Holm, D.K., Wernicke, B., and Schauble, E.
Journal of Geophysical Research, (2001).

Large-magnitude extension along metamorphic core complexes of western Arizona and southeast California: Evidence with Paleomagnetism
Livaccari, R. F., and J.W. Geissman
Tectonics, (2001).

Constructing a master PSV curve for western North America during the late Pleistocene: the paleomagnetic record from Lake Estancia, central New Mexico
Rowe, H.D., Allen, B.D., Geissman, J.W., and Anderson, R.Y
Quaternary Research, 1999.

Evolution of the Potrillo volcanic field, Rio Grande rift, southern New Mexico, U.S.A. Part I. Geochemistry, 3He surface exposure dating, and paleomagnetism.
E.Y. Anthony, W. Chen*, W.J.W. Williams*, J. Poths, M.J. Whitelaw, J.W. Geissman, and M.A. Oimette*
Journal of Geophysical Research, 1999.

Proposals in review

Upgrading the UNM Earth and Planetary Sciences Paleomagnetism Laboratory, DC SQUID conversion for the superconducting rock magnetometer and addition of a high-sensitivity susceptibility unit
J.W. Geissman
National Science Foundation, Instrumentation and Facilities
$74,790 (request), with UNM cost-match of $50,000.

Mapping of the transition zone between the Rio Grande rift and Colorado Plateau, eastern margin of the Lucero Uplift (CLTZ)
EDMAP
$14,980.10 (request)

Manuscripts in review

Dextral shear along the eastern margin of the Colorado Plateau--a kinematic link between the Laramide orogeny and Rio Grande rifting (ca. 75 to 13 Ma)
Wawryzniec, T. F., Geissman, J.W., Melker, M.A., and Hubbard, M.
Journal of Geology, (2001).

The Moenave Formation and Wingate Sandstone revisited: Paleopoles, magnetostratigraphy, and anomalous field behavior
Molina-Garza, R.S., and Geissman, J.W.
Journal of Geophysical Research, (2001).

Paleomagnetic and 40Ar/39Ar geochronologic data bearing on the structural history of the Silver Peak Range, west-central Nevada
Petronis, M.S., Geissman, J.W., Oldow, J.S., and McIntosh, W.C.
Geological Society of America Bulletin (2001).

"Multiphase modeling of contact metamorphic systems and application to transitional field changes during a geomagnetic reversal
Keating, G.N., Geissman, J.W., and Zyvoloski, G.A.
Earth and Planetary Science Letters (2001).

Manuscripts in preparation

Paleomagnetic data from Jurassic through lower Tertiary redbeds in western Yunnan, China: Testing spatial variability in large-magnitude intracontinental deformation
Geissman, J.W., Burchfiel, B.C., and Chen, L. (1999).

Lathrop Wells volcanic center: geology, geomorphology, and paleomagnetism" (title approximate)
DePaolo, D.J., Perry, F. V., Wells, S.G., McFadden, L.D., Geissman, J.W., Crowe, B.M., and others?
Geological Society of America Bulletin (2001).

A new late Quaternary high-resolution paleoclimate record from northern New Mexico, USA
Armour, J., P.J. Fawcett, and J.W. Geissman
For Geology.

Paleomagnetism and rock magnetism of large sandstone pipes in the Middle Jurassic Summerville Formation near Mesita, west-central New Mexico
Geissman, J.W., and S.S. Harlan
For New Mexico Geology

Age and paleomagnetism of contractile structures in the Cottonwood Mountains, Death Valley area, southeast California
Snow, J.K., J.W. Geissman, and B.P. Wernicke
intended for Tectonics

Paleomagntism of the Mesoproterozoic Pikes Peak batholith, southern Front Range, Colorado,
Feig, A.D., Geissman, J.W., Harlan, S.S.
intended for Precambrian Research.

Precambrian paleointensity of the geomagnetic field: Examples from the late Archean Stillwater Complex and MesoProterozoic Laramie Anorthosite Complex
C.J. Hale, J.W. Geissman, and S.S. Harlan

On the paleomagnetic signature of crystalline crust in extensional terranes
J.W. Geissman
intended for Tectonics

Paleomagnetic data from the Hoover Dam area document approximately 45 degrees of counterclockwise rotation related to slip along the Lake Mead Fault System
J.W. Geissman
intended for Tectonics

Applications of Paleomagnetism in the Basin and Range province, western U.S.A., and relevance to models for crustal extension
J.W. Geissman
intended for Reviews of Geophysics (invited).

An example of interacting magnetite grains carrying a MesoProterozoic magnetization, Laramie Anorthsite Complex, Wyoming
J.W. Geissman and S.S. Harlan
intended for Geophysical Research Letters

Paleomagnetism of the Latest Archean Stillwater Complex, Beartooth Mountains, southern Montana
J.W. Geissman
intended for Journal of Geophysical Research.

Paleomagnetism and geochronology of Proterozoic mafic dikes, southern Tobacco Root Mountains, southwestern Montana
S.S. Harlan, J.W. Geissman, L.W. Snee
intended for Journal of Geophysical Research.

Tectonic significance of widespread late Paleozoic remagnetization of the western North America Miogeocline and platform
J.W. Geissman and Nesbitt, B.E.
intended for Geology.

Paleomagnetism and rock magnetism of late Miocene intrusions, Paiute Ridge, Nevada
C.D. Ratcliff, J.W. Geissman, F.V. Perry, B.M. Crowe, and P. Zeitler
intended for Journal of Geophysical Research.

Partial late Paleozoic remagnetization of the Cambro-Ordovician Ignacio Formation, southwest San Juan Mountains, Colorado
J.W. Geissman
intended for Geophysical Research Letters.

Paleomagnetism of mafic dikes in the Roberts Mountains and Cortez Range, Nevada: Implications for structural history of the northern Nevada rift
J.W. Geissman, G.A. Acton, and M. Schneider*
intended for Tectonics.

Late Paleozoic magnetizations from Archean and Proterozoic crystalline rocks, Rocky Mountains, and implications for Late Paleozoic remagnetization processes
J.W. Geissman and S.H. Harlan
intended for Earth and Planetary Science Letters.

The rock magnetic record of silicic magma emplacement, Obidian Domes, California.
J.W. Geissman, J.C., Eichelberger, S.S. Harlan, and C. McCabe
intended for Journal of Geophysical Research.

Paleomagnetic and thermochronologic evidence for footwall tilt during extensional core complex development, Mineral Mountains, central Utah
D.S. Coleman, J.W. Geissman, J. D.Walker, J.M. Bartley, and K.V. Hodges
intended for Geological Society of America Special Paper, invited.

Paleomagnetic results from Cenozoic volcanic rocks in the Walker Lane area, west-central Nevada, and their bearing on mechanics of Basin and Range extension
J.T. Callian*, J.W. Geissman, J.S. Oldow, and R.F. Hardyman.

Further paleomagnetic results from Mesozoic plutons of the Walker Lane area, west-central Nevada, and tectonic implications
J.W. Geissman, J.T. Callian* and J.S. Oldow
Tectonophysics.

Paleomagnetism of the Jurassic Humboldt Lopolith, west-central Nevada: Results from extrusive equivalent metavolcanic rocks
M.R. Hudson and J.W. Geissman
Geological Society of America Bulletin.

Paleomagnetic and rock magnetic data from plagioclase -- olivine cumulate rocks of the Banded Series, Stillwater Complex, Montana, and their bearing on the age of regional serpentinization and nature of platinum-group element mineralization.
J. Saxton and J.W. Geissman
Econ. Geol.

Unsuccessful proposals for grants

Non-sponsored Research:

"Generic" paleomagnetic and rock magnetic investigations of: Cenozoic volcanic rocks (Arizona, Nevada, California, New Mexico)
Lower Paleozoic plutons (New Mexico, Colorado)
Mesozoic sedimentary rocks (New Mexico, Colorado, West Texas, Nevada)
Paleozoic sedimentary rocks (Nevada, New Mexico, Colorado, Utah)
Meteorite ejecta blankets (West Germany)
Cenozoic intrusions (Utah, Nevada, New Mexico)
Mesozoic intrusions (Nevada, Colorado, California)

David Gutzler, Professor

Unsuccessful proposals

Earth Science Computational Facility (co-PIs: M. Roy, P. Fawcett, D. Gutzler, J. Connolly)
Intel Corporation.
Center for Studies of the Causes and Effects of Drought in Freshwater Ecosystems
A. Ward, M. Ward, L. Gough (U. Alabama), C. Dahm and D.S. Gutzler (UNM)
National Science Foundation, Science and Technology Centers Program.

Manuscripts in press

Temperature and precipitation patterns associated with the 1950s drought in the U.S. Southwest
H.F. Diaz and D.S. Gutzler
A chapter of "The 1950s drought in the American Southwest:
Hydrological, Ecological and Socioeconomic Impacts",
to be published by U. Arizona Press (J. Betancourt, editor).

Human response to environmental disruption: A climatological perspective
D. S. Gutzler
A chapter of "Environmental Disruption and the Archeology of
Human Response", to be published by U. New Mexico Press
(R. Reycraft and G. Bawden, editors).

Stephen P. Huestis, Associate Professor

Manuscript in review

A Fourier method for computing the perturbation of a two-dimensional electric potential by a conductor of arbitrary shape
S.P. Huestis
Numerical Methods for Partial Differential Equations.

Manuscript in preparation

Understanding the origin and meaning of the radioactive decay equation
S.P. Huestis
Submitted to Journal of Geoscience Education.

John Husler, Research Scientist III.

On going research activity

UNM E&PS, Misc. Contracts and Grants, 1 year, $3100.00.
Other UNM Departments, Misc. Contracts and Grants, 1 year, $1200.00.
Solv-Ex. Corp., Recovery Product Analysis, 1 year, $1050.00.

Los Alamos National Laboratory, Rock Analysis, 1 year, $1500.00.
Pacific Northwest National Laboratory, Water Analysis, 1 month, $470.00.

NanoPore Corp., Micropowder Analysis, 1 year, $960.00.

Lovelace Respiratory Lab, Inhalation Toxicology, 3 months, $605.00.
SiNaF Corp., XRF, Chemical Analyses, 1 year, $2460.00.

Cal Tech, Chemical Analyses, 1 month, $280.00.
Outside UNM, Misc. Analyses, 1 year, $290.00.
Superior Micropowder, Purity Evaluations, 1 years, $735.00.

Rhian Jones, Senior Research Scientist

Manuscripts in press

Meteorites.
R.H. Jones**
Encyclopedia of Physical Science and Technology, Third Edition. Academic Press.

Manuscripts in preparation

Disequilibrium partial melting experiments on the Leedey L6 chondrite: Textural controls on melting processes.
S.N. Feldstein, R.H. Jones** and J.J. Papike.
In preparation for Meteoritics and Planetary Science.

Karl E. Karlstrom, Professor

Manuscripts in press

Paleoproterozoic rocks of the Granite Gorges, in Beus, S.S. and Morales, M., eds., Grand Canyon Geology
Karlstrom, K.E., Ilg*, B.R., Williams, M.L., Hawkins, D.P., Bowring, S.A., and Seaman, S.J.
Oxford University Press, second edition, in press, 2001.

Geologic structure of the Grand Canyon Supergroup, in Beus, S.S., and Morales, M., eds., Grand Canyon Geology
Timmons*, M.J., Karlstrom, K.E., and Sears, J.W.
Oxford University Press, second edition, in press, 2001.

Proterozoic multistage (~1.1 and ~0.8 Ga) extension in the Grand Canyon Supergroup and establishment of northwest and north-south tectonic grains in the southwestern United States:
Timmons*, M.J., Karlstrom, K.E., Dehler*, C.M., Geissman, J.W., and Heizler, M.T.
Geological Society of America Bulletin, v. 113, no. 2, p., 2001.

Long-lived (1.8-0.8 Ga) Cordilleran – type orogen in southern Laurentia, its extensions to Australia and Baltica, and implications for refining Rodinia
Karlstrom, K.E., Harlan, S.S., William, M.L., Mclelland, J., Geissman, J.W., and Ahall, K-I.
Precambrian Research, in press, 2001.

Laramide cooling histories of the Grand Canyon, Arizona, and the Front Range, Colorado, determined from apatite fission-track thermochronology, Young, D. ed., Grand Canyon monograph
Kelley, S.A., Chapin, C.E., and Karlstrom, K.E.
in press.

Geologic Maps in press

Preliminary geologic map of Isleta Reservation and continuous areas: U.S. Geological Survey open-file map
Maldonado, F., Love, D.W., Connell, S.D., Slate, J.L., Karlstrom, K.E., and Williams, V.S.
in press, 2001.

Manuscripts in review

Electrum microprobe monazite dating of ca. 1710-1630 Ma and ca. 1380 Ma deformation in the Homestake shear zone, Colorado: Origin and evolution of a persistent intracontinental tectonic zone:
Shaw* C., Karlstrom, K.E., Williams, M.L., Jercinovik, M.J., and Mccoy* A.
Geology, submitted.

Differential Incision of Grand Canyon due to slip on the Hurricane-Toroweap fault system:
Pederson, J., and Karlstrom, K.E.
Geology, submitted.

Cornelis Klein, Professor

Collaborative research with Professor Clark Johnson, University of Michigan, 2-year NSF grant (1999 – 2001) on "Iron Isotopes in the transition from a pre-oxygenated Earth: evidence from banded iron-formations."

Barry S. Kues, Professor

Manuscripts in press

Middle Pennsylvanian gastropods from the Flechado Formation, north-central New Mexico
B.S. Kues and R.L. Batten
Journal of Paleontology

The Pennsylvanian System in New Mexico: Overview with recommendations for changes in nomenclature
B.S. Kues
New Mexico Geology

Dedication to Vincent C. Kelley
B.S. Kues
Revised edition of Albuquerque, Scenic Trips to the Geologic Past (P. Bauer et al., eds.), N.M. Bureau of Mines and Mineral Resources

Upper Cretaceous (Turonian) decapod crustaceans from central New Mexico
E.K. Toolson* and B.S. Kues
Journal of Paleontology

Manuscripts in review

New genera and species of Middle Pennsylvanian gastropods from west Texas
B.S. Kues
Journal of Paleontology

Manuscripts in preparation

Micromolluscs from the Madera Group (Late Pennsylvanian), Jemez Springs area, New Mexico
B.S. Kues and T. Yancey
For Journal of Paleontology

Middle Pennsylvanian bivalves from the Flechado Formation, north-central New Mexico
B.S. Kues
For Journal of Paleontology

New species of Early Permian gastropods from central New Mexico
B.S. Kues
For Journal of Paleontology

Some Pennsylvanian "scaphopods" reidentified as nautiloids
E. Yochelson, B.S. Kues and R. Mapes
For Journal of Paleontology

Fauna of the nearshore, sandy facies of the Tucumcari Formation (Lower Cretaceous, Albian), Quay County, New Mexico
B.S. Kues and S.G. Lucas
For New Mexico Geological Society, Guidebook 52

Day 1, Day 2, and Day 3 Road logs
B.S. Kues and others
For New Mexico Geological Society, Guidebook 52

Catalogue and bibliography of New Mexico invertebrate and plant fossils
B.S. Kues
For New Mexico Museum of Natural History Bulletin

Other research

Continuing Studies of Pennsylvanian – Permian boundary strata and paleontology in New Mexico.

Grant A. Meyer, Assistant Professor

Manuscripts in press

Geomorphic control of persistent mine impacts in a Yellowstone Park stream and implications for the recovery of fluvial systems
Marcus, W.A., Meyer, G.A., Nimmo, D.R.
Geology, v. 29, no. 4, p. 355-358, 2001.

Recent large-magnitude floods and their impact on valley-floor environments of northeastern Yellowstone: Geomorphology
Meyer, G.A.
in press.

Manuscripts submitted or in review

Yellowstone fires and the physical landscape, in Wallace, L.L., ed., After the Fires: Over a decade of research on the Yellowstone Fires
Meyer, G.A.
Yale University Press

Manuscripts in preparation

Inflation and deflation cycles of the Yellowstone caldera based on Yellowstone lake and river changes in post-glacial time
Pierce, K.L., Cannon, K.P., and Meyer, G.A.
in preparation for Geological Society of America Bulletin

Multiple controls on channel planform change along Soda Butte Creek, Yellowstone National Park
Mowry, A.D., and Meyer, G.A.
in preparation for Geomorphology

Fires, storms, and sediment yield in the Idaho batholith: in preparation for special journal issue on Wildfires and Surficial Processes
Meyer, G.A., Pierce, J.L., and Wood, S.H.
H. Elsenbeer, editor

Unsupported research projects

Equilibrium line altitudes of late-Pleistocene glaciers in the interior northwestern U.S.: Implications for general circulation, climate, and asynchronous advances of mountain and continental ice sheets, with P.J. Fawcett (UNM) and W.W. Locke (Montana State University).

Climatic and lithologic influences on Holocene geomorphic processes, northeastern Arizona, with L.D. McFadden, L.J. Crossey, P.J. Fawcett, L. Scuderi (UNM), J. Gosse (U. Kansas), J McAuliffe (Desert Botanical Garden).

Leslie D. McFadden, Chair and Professor

Manuscripts in press or accepted for publication in refereed publications

Soil inorganic carbon modeling
McFadden, L.D. and Amundson, R.
Encyclopedia of Soil Science, New York, NY, Marcel Dekker, Inc.

Regional response of alluvial fans to the Pleistocence-Holocence climatic transition, Mojave Desert, California
McDonald, Eric D., McFadden, L.D., Wells, S.G.
Geological Society of America Special Paper (accepted for publication)

Manuscripts submitted or in review

The influence of dust and lithology on the origin and evolution of desert pavements on alluvial fans
McDonald, E.V., McFadden, L.D., and Wells, S.G.
Geological Society of America Bulletin (revise and re-submit).

Manuscripts in preparation

Geochronology of a small volume basaltic eruption center near Yucca Mountain, Nevada; DePaolo, D.J., Perry, F.V., Poths, J., Heizler, M. Murrel, M., Geissman, J., Wells, S.G., and McFadden, L.D.
(submittal to the Journal of Geophysical Research)

Pedogenic iron oxide, clay, organic matter content and accumulation in soils of the Pajarito Plateau, New Mexico: cation exchange chemistry and metal mobility
Watt, P. and McFadden, L.
Environmental Geology

Geoarchaeological Investigations at the Rio Rancho Folsom Site, New Mexico
Bruce B. Huckell, Leslie D. McFadden, James P. Holmlund, and Lisa W. Huckell
Current Research in the Pleistocene

Horton E. Newsom, Research Professor

Manuscripts in press

The search for life on Mars in surface samples, lessons from the 1999 Marsokhod rover field experiment
Newsom, H.E., Bishop, J.L., Cockell, C., Roush, T.L., and Johnson, J.R.
Journal of Geophysical Research (Planets), in press, 2001.

Geological Characterization of Remote Field Sites Using Visible and Infrared Spectroscopy: Results from the 1999 Marsokhod Field Test. J.
Johnson, J.R., S.W. Ruff, J. Moersch, T. Roush, K. Horton, J. Bishop, N.A. Cabrol, C. Cockell, P. Gazis, H.E. Newsom, and C. Stoker
Geophysical Research (Planets), in press, 2001.

Manuscripts submitted

Location and sampling of aqueous and hydrothermal deposits in Martian impact craters, Astrobiology
Newsom, H.E., Hagerty, J.J., and Thorsos, I.E.
Submitted, 2001.

Unsuccessful proposals

Principal Investigator Horton E. Newsom
Source: NASA, Cosmochemistry Program.

Title: Mobile-element transport and deposition in the crust and surface of Mars, clues from terrestrial analogues and Martian meteorites.
Amount requested: $$187,954
Period covered: July 1, 2001 - June 30, 2004
Person-months: One per year
Location of research: University of New Mexico
Source: NASA, Mars Data Analysis Program.

Title: Mobile-element transport and deposition in the crust and surface of Mars, clues to the origin of the Martian soil.
Amount requested: $171,196
Period covered: July 1, 2001 - June 30, 2004
Person-months: two per year
Location of research: University of New Mexico
Source: NASA, Mars Data Analysis Program.

Title: Quantitative evaluation of the aqueous and hydrothermal potential, and landing site suitability of large Martian impact craters.
Amount requested: $139,902
Period covered: July 1, 2000 - June. 30, 2002
Person-months: two per year
Location of research: University of New Mexico

James J. Papike, Director (Institute of Meteoritics) and Professor

Manuscripts in press

Trace Element Partitioning between Immiscible Lunar Melts. An example from naturally occurring lunar melt inclusions.
C.K. Shearer, J.J. Papike, and M.N. Spilde
American Mineralogist (in press) (2001).

Manuscripts submitted or in review

Oxygen fugacity of martian basalts from electron microprobe oxygen and TEM-EELS analyses of Fe-Ti oxides.
C.D.K. Herd, J.J. Papike, and A.J. Brearley
American Mineralogist (in review).

Manuscripts in preparation

Partial melting experiments on the Leedey L6 chondrite: The textural controls of melting.
S.N. Feldstein*, R.H. Jones**, and J.J. Papike (2001).

Victor Polyak, Senior Research Scientist I.

Manuscripts in press

Byproduct materials related to H_2S-H_2SO_4-influenced speleogenesis of Carlsbad, Lechuguilla, and other caves of the Guadalupe Mountains, New Mexico
V.J. Polyak and P.P. Provencio
Journal of Cave and Karst Studies

Iron oxide-rich filaments: Possible fossil bacteria in Lechuguilla Cave
P.P. Provencio and V.J. Polyak
Geomicrobiology Journal

Seasonal and Site-Specific Bait Preferences of Crickets and Diplurans in Hidden Cave, NM.
J.C. Cokendolpher, R.K. Lawrence and V.J. Polyak
Texas Memorial Museum Speleological Monographs

Manuscripts in review

A wetter and cooler late Holocene climate in the southwestern USA from mites preserved in stalagmites
V.J. Polyak, J.C. Cokendolpher, R.A. Norton, and Y. Asmerom
Geology.

Silicates in carbonate speleothems, Guadalupe Mountains, New Mexico, U.S.A.
V.J. Polyak and N. Güven
For GSA Special Publication.

Manuscripts in preparation

Late Holocene paleoclimate for southwestern USA from annual bands in Carlsbad Cavern stalagmites
V.J. Polyak and Y. Asmerom
For Science

Cave dolomite from the Guadalupe Mountains, New Mexico
V.J. Polyak, H.R. Karlsson, and P.P. Provencio
For Carbonates and Evaporites

Other research

Advances on the age and origin of the Grand Canyon from the study of caves and mines.
Authigenic dioctahedral smectite from Rincon Hills, New Mexico.

Frans J.M. Rietmeijer, Research Professor

Manuscripts in press

Identification of Fe-rich meteoric dust
F.J.M. Rietmeijer
Planetary and Space Science

Serpentine by hydrogenation of Fe-rich ferromagnesiosilica PCs in aggregate IDPs
F.J.M. Rietmeijer and J.A. Nuth III
Lunar and Planetary Science conference XXXII

Heat-treatment of MgSiO smokes of astrophysical interest: Possible implications for olivine-pyroxene-silica assemblages in chondritic aggregate IDPs
F.J.M. Rietmeijer, J.A. Nuth III and S.L. Hallenbeck
Lunar and Planetary Science conference XXXII

Fine-grained Barite in coal fly ash from the Upper Silesian Industrial Region
M. Jablonska, F.J.M. Rietmeijer and J. Janeczek
Environmental Geology

Manuscripts submitted

Collected extraterrestrial materials: Interplanetary dust particles, micrometeorites, meteorites and meteoric dust
F.J.M. Rietmeijer
In Meteor Science (E. Murad and I.P. Williams, eds.), Cambridge University Press.

Experimental astromineralogy: Circumstellar ferromagnesiosilica dust in analogs and natural samples
F.J.M. Rietmeijer and J.A. Nuth III
Space Research

Manuscripts in preparation

Dynamic pyrometamorphism of Fe,Ni-sulfides in IDPs
F.J.M. Rietmeijer
Intended for Meteoritics and Planetary Science

Gas to solid condensation in a Mg-SiO-H_2-O_2 vapor: Metastable eutectics in the MgO – SiO_2 phase diagram
F.J.M. Rietmeijer, J.A. Nuth III, J.M. Karner* and S.L. Hallenbeck
Intended for Journal of Chemical Physics

Amorphous magnesiosilicate smokes annealed in vacuum: The evolution of magnesium silicates in circumstellar and cometary dust
F.J.M. Rietmeijer, S.L. Hallenbeck, J.A. Nuth III and J.M. Karner*
Intended for Icarus

Unsupported research

Analytical and Transmission Electron microscope study of airborne dust in Silesia, in cooperation with Prof. J. Janeczek and Dr. M. Jablonska, Faculty of Earth Sciences, The Silesian University, Sosnowiec, Poland.

Petrology of gas-to-solid condensed carbon phases in cooperation with Prof. A. Rotundi, Osservatorio Astronomico, Naval University, Naples, Italy.

Proposals submitted

Kinetically-controlled circumstellar dust condensation experiments
F.J.M. Rietmeijer (Principal Investigator)
National Aeronautics and Space Administration Origins of Solar Systems Program
$146,000; April 1, 2001 to March 31, 2004.
Collection, Identification and Laboratory Analysis of Interstellar Dust
Dr. G.J. Flynn (SUNY) (Principal Investigator) and F.J.M. Rietmeijer (Co-Investigator) National Aeronautics and Space Administration Cosmochemistry Program
$62,500; January 1, 2001 to December 31, 2002.

Mousumi Roy, Assistant Professor

Papers in preparation

Shear at a strike-slip plate boundary: the stress-heatflow paradox revisited
M. Roy
estimated completion, August, 2001.

River incision: Models of accompanying deformation in an elastic and viscoelastic crust
M. Roy
estimated completion, May 2001.

Topographic Evolution of the Rio Grande Rift, New Mexico
M. Roy
estimated completion, May, 2001.

Uplift and exhumation along the Rio Grande Rift, New Mexico: Implications of apatite fission-track and (U-Th)/He cooling ages
M. House, S. Kelley, and M. Roy
estimated completion, August, 2001.

Constraints on crustal structure across the Transverse Ranges, California, based on gravity and seismic velocities
N. Natek and M. Roy
estimated completion, August, 2001.

Proposals submitted to funding agencies

Southern California Earthquake Center, January 2000, Gravity models in the LA Region, successful.
Intel Computer Grant, June 2000, unsuccessful.
Dell Computer Corporation proposal, August 2000, semi-successful.
National Science Foundation, Continental Dynamics Program, Baja, June 2000, pending.
National Science Foundation, Continental Dynamics Program, CDROM, June 2000 (with K. Karlstrom and J. Selverstone), pending.
National Science Foundation, Tectonics Program, Sandia Mountains, December, 2000, pending.
Chevron, equipment, November, 2000, pending.

Jane Selverstone, Professor

Manuscripts in press

High-temperature embrittlement of extensional Alpine mylonite zones in the midcrustal ductile-brittle transition
Axen, G.J., Selverstone, J., and Wawrzyniec, T.F.*
Journal of Geophysical Research, 2001.

Repeated strengthening and weakening of a deep-crustal shear zone in the Alps
Steffen, K.*, Selverstone, J., and Brearley, A.
Geol. Soc. London special volume, 2001.

Manuscripts in review

Controls on footwall rheology during extension in the eastern and central Alps
Wawrzyniec, T.F.*, Selverstone, J., and Axen, G.J.
Tectonics.

Tectonic significance of an Early Proterozoic ophiolite fragment in the Colorado Front Range: Remnant of an oceanic fracture zone?
Cavosie, A.* and Selverstone, J.
Geology.

Manuscripts in preparation

Tectonometamorphic perspectives on steady-state vs. non-steady-state exhumation in the eastern and central Alps, Selverstone, J., in prep.

Can we distinguish denudational exhumation from tectonically driven exhumation? Moore, J.D.*, Wawrzyniec, T.F.*, Eppes, M.C.*, Wisniewski, P.A.*, and Selverstone, J., in prep.

Compositional polarity and fluids in replacement tourmaline – an example from the Tauern Window, Eastern Alps. Henry, D., Dutrow, B., and Selverstone, J., in prep.

Unsupported research projects

Fluid sources and fluid channeling during deep crustal shearing – a field, petrologic, and stable isotopic study from shear zones in the Alps and New England. With J. D. Barnes, graduate student.

Zachary Sharp, Associate Professor

Unsuccessful proposals

Evaluating dinosaur metabolism and behavior using stable isotopes
National Geographic
$11,175

Dinosaur metabolism and behavior – oxygen isotope constraints
National Science Foundation
$102,793

Gary A. Smith, Professor

Manuscripts in press

Sedimentologic and geomorphic evidence for teeter-totter subsidence of an accommodation-zone basin, Rio Grande rift, New Mexico
G.A. Smith, W.C. McIntosh, and A.J. Kuhle*
Geological Society of America Bulletin (in press).

Alluvial-slope deposits of the Skull Ridge Member of the Tesuque Formation, Española Basin, New Mexico
A.J. Kuhle*, and G.A. Smith
New Mexico Geology (in press).

Development of a pyroclastic apron adjacent to rhyolite domes in a subsiding basin: Upper Miocene Peralta Tuff, Jemez Mountains, New Mexico
G.A. Smith
Volcanoes of New Mexico, L. Crumpler, editor
New Mexico Museum of Natural History and Science Bulletin (in press).

Comparing the modern, Quaternary, and Neogene records of climate-controlled hillslope sedimentation in southeast Nevada
J.L. Pederson*, G.A. Smith, and F.J. Pazzaglia
Geological Society of America Bulletin (in press).

Neoproterozoic Chuar Group (~800-743 Ma), eastern Grand Canyon: Cyclic shallow marine deposition inboard of the developing Cordilleran rift margin
C.M. Dehler*, M. Elrick, K.E. Karlstrom, G.A. Smith, and L.J. Crossey
Precambrian Research (in press).

Geologic map of the Squawback Ridge quadrangle, Deschutes and Jefferson Counties, Oregon
M.L. Ferns D.E. Stensland and G.A. Smith
Oregon Department of Geology and Mineral Industries Geologic Map Series, scale 1:24,000 (in press).

Geologic map of the Bend 30' x 60' quadrangle, central Oregon
D.R. Sherrod, E.M. Taylor, M.L. Ferns, W.E. Scott, R.M. Conrey and G.A. Smith
U.S. Geological Survey Geologic Investigations Map I-2683, scale 1:100,000 (in press).

Manuscripts submitted or in review

Middle to Late Cenozoic development of the Rio Grande rift and adjacent regions in northern New Mexico
G.A. Smith
Geology of New Mexico, G. Mack, K. Giles, and V. Lueth, editors
Special Publication, New Mexico Geological Society

The volcanic foundation of Cochiti Dam, Sandoval County, New Mexico
G.A. Smith
Guidebook to New Mexico Geology for Decision Makers, P. Johnson, editor
New Mexico Bureau of Mines and Mineral Resources

Geologic map of the Opal City quadrangle, Jefferson County, Oregon
G.A. Smith, M.L. Ferns
Oregon Department of Geology and Mineral Industries Geologic Map Series, scale 1:24,000 (in review).

Manuscripts in preparation

Observations on the origin of gas-escape pipes in ignimbrites
F. Goff and G.A. Smith
to be submitted to Bulletin of Volcanology.

Geology of the Kasha-Kasuwe Tent Rocks National Monument, Sandoval County, New Mexico
G.A. Smith
invited for submission to New Mexico Geology.

Sedimentology of a volcaniclastic alluvial fan, Eocene-Oligocene Espinaso Formation, New Mexico
S.B. Taylor, G.A. Smith and D. Larsen
to be submitted to Journal of Sedimentary Research.

The Cerrilos uplift, the La Bajada constriction, and hydrogeologic connection between the Española and Santo Domingo basins of the Rio Grande rift, New Mexico
D.A. Sawyer, B.D. Rodriguez, V.J.S. Grauch, S.A. Minor, M. Descz-Pan, R.A. Thompson, D.P. Dethier, and G.A. Smith
U.S. Geological Survey Professional Paper, in preparation.

How does the Earth Work?
G.A. Smith and A. Pun
Prentice-Hall Incorporated (textbook contract).

Unsupported Research Projects

Tectonics and sedimentation of the transition from Laramide compression to Neogene extension in northern New Mexico.

Stratigraphic and structural evidence for the rupturing of hanging-wall hinge zones, San Luis and Española basins, Rio Grande rift, New Mexico.

Origin of stratification in pyroclastic-fall deposits, Peralta Tuff, Jemez Mountains, New Mexico.

Huifang Xu, Research Scientist III.

Manuscript in press

Prediction of trace metal partitioning between minerals and aqueous solutions: A linear free energy correlation approach
Y. Wang and H. Xu**
Geochimica et Cosmochimica.

Chromiun (VI) reduction by hydrogen sulfide in aqueous media: Stoichiometry and kinetics
C. Kim, Q. Zhou, B. Deng and H. Xu**
Environmental Science and Technology.

Manuscripts submitted

Intergrowth structure in U- and Hf-bearing pyrochlore and zirconolite: TEM investigation
Huifang Xu**
Journal of Nuclear Materials

Se-bearing colloidal particles produced by sulfate-reducing bacteria and sulfide-oxidizing bacteria: TEM study
H. Xu** and L.L. Barton
Journal of Contaminant Hydrology

"Iron oxide" coatings on sand grains from the Atlantic coastal plain: HRTEM and energy-filtering TEM characterization
R.L. Penn , C. Zhu , H. Xu** and D.R. Veblen
Geology

Manuscripts in preparation

Energy-filtering TEM imaging of ZrB_2/SiC composite - An ultrahigh temperature ceramic for thermal protection.
Huifang Xu** and Jianping Zhai.

HRTEM and AEM investigation of invisible Au in Au-bearing arsenopyrite.
H. Xu**, W. Hu and W. Zhang.

Mineral coatings in groundwater aquifers: TEM investigation
H. Xu**.

Unsuccessful proposals for grants

Study of mineral replacement fronts: A test for hypothesis of stress-coupled mineral growth and dissolution (National Science Foundation).

5. ACTIVITIES IN PROFESSIONAL SOCIETIES

Yemane Asmerom, Professor

Professional meetings attended

The Geochemical Society Goldschmidt Conference, Oxford University, Oxford, UK.
Fall 2000 Meeting, American Geophysical Union.

Nicu-Viorel Atudorei, Research Scientist III.

Professional societies

Member of GSA and SEPM.

Adrian Brearley, Associate Professor

Professional meetings attended

31st Lunar and Planetary Science Conference, Houston, Texas, March 13-17, 2000.
1st Astrobiology Meeting, NASA Ames, California, April 16-19, 2000.
Meteoritical Society Meeting, Chicago, August 27-31, 2000.
Geological Society of America Meeting, Reno, Nevada, November 13-16, 2000.

Talks presented

Presented talk, "Carbonates in the CM1 chondrite ALH84034: Mineral chemistry, zoning and Mn-Cr systematics." 31st Lunar and Planetary Science Conference, Houston, Texas, March 13-17, 2000.

Presented talk, "Hydrous phases in ALH84001: Further evidence for preterrestrial alteration and a shock-induced thermal overprint." 31st Lunar and Planetary Science Conference, Houston, Texas, March 13-17, 2000.

Coauthored talk with Catherine L. Jones "Transmission electron microscope observation of phyllosilicate development during experimental aqueous alteration of Allende." 31st Lunar and Planetary Science Conference, Houston, Texas, March 13-17, 2000.

Coauthored poster presentation: "Forsteritic olivine matrix with refractory inclusions trapped by a Type A/B CAI from the reduced CV chondrite Efremovka: New Type of pristine material with evidence for preaccretionary alteration." 31st Lunar and Planetary Science Conference, Houston, Texas, March 13-17, 2000.

Presented poster: "Preterrestrial phyllosilicate phases in ALH84001: Evidence for Water-bearing fluids during and after carbon formation." Abstracts for 1st Astrobiology Conference, NASA Ames, California, p. 243.

Coauthored poster: "Mn-minerals in Lechuguilla Cave, NM: Potential Biomarkers." Abstracts for 1st Astrobiology Conference, NASA Ames, California, p. 243.

Presented poster: "Origin of calcium-iron-rich pyroxenes in Allende matrix: clues from rare-earth-element abundances." Meteoritical Society Meeting, Chicago, August 27-31, 2000.

Presented talk: "Carbonates in the CM carbonaceous chondrite, Allan Hill 81002: Occurrences and compositional variations." Meteoritical Society Meeting, Chicago, August 27-31, 2000.

Presented talk: "Phyllosilicates in ALH 84001: Constraints on a martian origin from TEM observations." Geological Society of America Meeting, Reno, Nevada, November 13-16, 2000.

Coauthored talk with Kurt Steffan and Jane Selverstone "Evidence of progressive weakening and strengthening due to the interaction of metamorphic and deformational processes in a low crustal shear zone in the Alps." Geological Society of America Meeting, Reno, Nevada, November 13-16, 2000.

Society Committees

Associate Editor, American Mineralogist (1994-2000).
Associate Editor, Mineralogical Magazine (1998-2000).
Abstractor for Mineralogical Abstracts, abstracted papers from Analytical Chemistry.
Member, Meteoritical Society Meteorite Nomenclature Group.
Member, NASA Cosmochemistry Review Panel.
Member, Mineralogical Society Committee on Committees.
Counciller, Meteoritical Society.

Lars Borg, Senior Research Scientist

Professional meetings attended

Lunar and Planetary Science Conference (March 2000), presented: "Sr-Nd isotopic systematics of the Martian meteorite DaG 476".

Workshop on Martian Geochronology (June 2000), presented: "Evidence for disturbed SNC meteorite isochrones".

Meteoritical Society Annual Meeting (September 2000).

New Views of the Moon III (October 2000) presented: "Problems with the lunar magma ocean model from Sm-Nd isotopic systematics of ferroan anorthosites".

Michael E. Campana, Professor

Society committee

Secretary-Treasurer and Member, Board of Directors, Association of Ground-Water Scientists and Engineers.

Member, Board of Directors, Universities Council on Water Resources.

Vice President for Academic Affairs, American Institute of Hydrology.

Chair, Association of Ground Water Scientists and Engineers Annual Conference, Ground Water: A Transboundary, Strategic and Geopolitical Resource, Las Vegas, Nevada, December 2000.

Technical Program Co-Chair, Rocky Mountain - South-Central Sections Joint Annual Meeting, Geological Society of America, Albuquerque, April 30 - May 2, 2001.

Member, Publishing Oversight Committee, National Ground Water Association (publishes the journals Ground Water, Ground Water Monitoring and Remediation, and Water Well Journal).

UNM Delegate, Commission on Food, Energy and Renewable Resources, National Association of State Universities and Land-Grant Colleges (NASULGC).

Lead UNM Delegate, Universities Council on Water Resources.

Chair, Membership Committee, Association of Ground Water Scientists and Engineers.

Member, Credentials Committee, National Ground Water Association.

Laura J. Crossey, Professor

Society Committees

American Association of Petroleum Geologists, Membership Committee (since 1989)
Association for Women Geoscientists (lecturer (since 1989))
Society for Sedimentary Geology, Academic Liaison (since 1991)
Society for Sedimentary Geology, Research Committee (since 1996)
Geochemical Society, Clark Medal Selection Committee (1997-99)
Geological Society of America, Joint Technical Program Committee, Annual Meeting (1998-1999).

Maya Elrick, Associate Professor

Meetings attended

Presented paper, Geological Society of America, Reno Nevada, Nov 8-13, 2000.

Wolfgang E. Elston, Senior Research Professor

Meetings attended

Attended 51st Field Conference, New Mexico Geological Society, Lordsburg and Deming, New Mexico, October 18-20, 2000. Leader on Day 1, Pyramid Mountains and Lightning Dock Known Geothermal Resources Area.

Attended annual meeting, Geological Society of America, Reno, Nevada, November 12-16, 2000, Attended Senior Fellows Reception.

Peter J. Fawcett, Assistant Professor

American Geophysical Union

Presented one paper at the Fall 2000 AGU Meeting, San Francisco, California.

Geological Society of America

Presented one paper at the 2000 Annual GSA Meeting in Reno.
Co-authored three other papers including two student papers.

Tobias Fischer, Assistant Professor

Meetings attended

Attendance of IAVCEI State of the Arc meeting, January 2000.
Presented paper: Fischer, T.P. Volatile discharges from Volcanoes: the state of the arc (2000). The State of the Arc Meeting 2000, Taupo, New Zealand, 1999.

Attendance of IAVCEI Gas sampling workshop, Satsuma Iwojima, Japan, October 2000. Presented paper: Fischer, T.P. and Roggensack, K. (2000). Degassing processes within the Karymsky Volcano-Akademy Nauk Caldera System, Kamchatka Volcanic Belt, Russia.

John W. Geissman, Professor

Professional talks

Crustal extrusion mechanisms in northern Indochina, paleomagnetic results, University of Michigan, Ann Arbor.

What can the paleomagnetic record tell us about magma emplacement processes? A tale of three volcanic centers, John A. Dorr Annual Lecture, University of Michigan, Ann Arbor.

This old house: The geologic evidence for an old earth, American Association for the Advancement of Science sponsored Teaching of Evolution conference, University of Kansas, Lawrence, Kansas.

Geomagnetic field reversals, generalities and details, New Mexicans for Science and Reason

How and why to red beds become remagnetized? Institute for Rock Magnetism Conference, Santa Fe, New Mexico.

Paleomagnetic data bearing on the interaction between the Colorado Plateau and the North American craton: results from Pennsylvanian and Permian strata, Rob Van der Voo Symposium, Ann Arbor, Michigan.

Two paleomagnetic tales—large magnitude rotations along the eastern Syntaxis and surprising rotations along the eastern margin of the Colorado Plateau, University of Arizona

Testing an association between remagnetization and orogeny: the effect of Ancestral Rocky Mountain deformation on the paleomagnetism of Paleozoic and Precambrian rocks in the western Cordillera, Geological Society of America Annual Meeting, Denver, Colorado.

Further paleomagnetic results bearing on crustal extrusion mechanisms in northern Indochina, Fall American Geophysical Union meeting, San Francisco, California.

Paleomagnetic data bearing on extrusion mechanisms in Indochina: successes and failures, Massachusetts Institute of Technology.

John Husler, Research Scientist III.

Meeting attended

American Chemical Society, attended local chapter meeting.

Rhian Jones, Senior Research Scientist

Meetings attended

Presented talk, "Chemistry and petrology of chondrules from the Mokoia CV chondrite." 31st Lunar and Planetary Science Conference. Houston, Texas, March, 2000.

Presented talk, "Oxygen-isotopic ratios of bulk chondrules from the Mokoia CV3 chondrite". 63rd Meteoritical Society meeting. Chicago, Illinois, August 2000.

Fellow of Mineralogical Society of America and Meteoritical Society.

Member of Mineralogical Society of Great Britain and American Geophysical Union.

Mineralogical Society of America Distinguished Lecturer, 2000-2001. Titles of talks presented: "From stardust to asteroids: Meteorites and their record of solar system formation" and "Martian meteorites: A sneak preview of samples from our neighbor planet".

Karl E. Karlstrom, Professor

Meetings attended/Talks presented

Invited speaker for special session: Characterization of small-scale crustal heterogeneity: AGU Fall meeting, San Francisco, California.

Convenor of Theme Session: Proterozoic evolution of western Laurentia: Continental accretion to breakup of Rodinia, GSA National Meeting, Reno Nevada; delivered opening talk, see abstracts.

Convenor of Theme Session: Lithospheric Structure and Evolution of the Rocky Mountains: AGU Fall meeting, San Francisco, California.

Attended fieldtrip at GSA National Meeting entitled: Neoproterozoic glacial record in the Death Valley Region.

Attended NMGS fall field conference, Southwest Passage, a trip through the Phanerozoic.

Cornelis Klein, Professor

Committee membership

President, Mineralogical Society of America, November 2000 – November 2001.
Vice President, Mineralogical Society of America, November 1999 – November 2000.
Chairman, Committee on Committees, Mineralogical Society of America, 1999 – 2000.
Chairman, Executive Committee, Mineralogical Society of America, 2000 – 2001.
Chairman, Search Committee, for new co-editor of American Mineralogist, Mineralogical Society of America, 2000.
Treasurer, International Mineralogical Association, 1995 – 2002.

Member, Commission on History and Teaching, International Mineralogical Association.
Consultant Editor, Merriam Webster Encyclopedia on Geology, Mineralogy, and Meteorology, 1997 – 2000.

Barry S. Kues, Professor

Committees

University: Faculty Senate Library Committee; Faculty Senate Budget Committee.
College: Arts and Sciences Senior Promotion Committee (Chair).
Department: Graduate Committee; Curator of Departmental Collections.

Presented papers

New Mexico Geological Society: Presented two papers at annual Spring meeting, April 7, 2000.

Grant A. Meyer, Assistant Professor

Invited talks

Oregon State University Department of Geosciences, Corvallis, OR, February 10, 2000.
University of Oregon Department of Geological Sciences, Eugene, OR, February 18, 2000.
Portland State University Department of Geosciences, Portland, OR, February 23, 2000.
Quaternary Research Center/Joint Institute for the Study of the Atmosphere and Oceans Workshop, "Environmental Change and Natural Hazards in the Northwest: Lessons from the Past", University of Washington, Seattle, May 4, 2000.
Presented talk at "Hot Topic" discussion on "Wildfires in the West", Geological Society of America Annual Meeting, Reno, Nevada, Nov. 15, 2000.

Society committees

Elected member of Geological Society of America Quaternary Geology and Geomorphology Panel for 2000-2002 (reviews papers for Kirk Bryan Award).
Elected Councilor for Terrestrial Processes, American Quaternary Association.

Leslie D. McFadden, Chair and Professor

Talks presented

The evolution of desert piedmont surfaces: Studies of the origin of desert pavements and soils: Geological Society of America Annual Meetings (The Farouk El Baz Award in Desert Research Presentation, Quaternary Geology and Geomorphology Division), Reno, Nevada.

Contributions of multidisciplinary geomorphic, ecologic and soils studies to research in landscape ecology; McFadden, L., Geological Society of America Annual Meetings - The interaction between soil and biologic processes in landscape and ecosystem dynamics, Reno, Nevada.

Professional meetings attended

Binghamton Conference in Geomorphology, NY State University at Binghamton, Binghamton, New York, October 12-15.
Annual Meeting, Geological Society of America, Reno, NV, November 12-16.

Horton E. Newsom, Research Professor

Professional meetings attended

XXI Lunar and Planetary Science Conference, Houston, Texas, presented one talk and one poster session, chaired one session, March 14 -19, 2000.

Space 2000 and Robotics Conference, Albuquerque, New Mexico, attended one committee meeting, February 29, 2000.

Attended the NASA MU-SPIN conference in Atlanta Georgia, and presented one invited talk, September 11-14, 2000.

Attended the annual Meeting of the Division of Planetary Sciences of the American Astronomical Society, in Pasadena, California, October 25-27, 2000.

James J. Papike, Professor

Professional meetings attended

NASA Mars Exploration Program Advisory Group, (MEPAG) Meeting, JPL, Pasadena, California, January 10-12, 2001.

NASA, Mars Exploration Program Advisory Group, (MEPAG) Meeting, JPL, Pasadena, California, February 21-24, 2001.

NASA, Space Science Advisory Committee (SScAC), February 28, 2001.
Meeting, Washington, D.C., March 2, 2001.

31st Lunar and Planetary Science Conference, Houston, Texas, March 11-18, 2001.

NASA, Mars Briefing Meeting, Johnson Space Center, (JSC), Houston, Texas, May 25-26, 2001.

NASA, Space Science Advisory Committee (SScAC), Meeting, Washington, D.C., July 9-12, 2001.

Lunar Initiative Meeting , Houston, Texas., October 11-15, 2001.
NASA, Space Science Advisory Committee (SScAC), October 31, 2001.
Meeting, Jet Propulsion Laboratories (JPL), Pasadena, California, November 3, 2001.

Society committee

Member, NASA, Cosmochemistry, Management and Operations Working Group (MOWG). 1997-2000.

Member, NASA/JSC, Astromaterials Working Group (AWG) Reports to Center Director. 1998-2001.

Member, NASA Space Science Advisory Committee (SScAC). 1999-2002.

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Victor Polyak, *Senior Research Scientist I.*

Professional meetings attended

American Geophysical Union, Fall meeting, December 15-19, San Francisco, California: presented 2 poster papers.
A working conference on the Cenozoic geologic evolution of the Colorado River system and the erosion chronology of the Grand Canyon region, June 7-9, 2000, Grand Canyon National Park, Arizona: presented poster paper.

Karst Studies and Problems: 2000 and Beyond, Proceedings of the joint meeting of Friends of Karst, Theoretical and Applied Karstology and IGCP 448, July 14-22, 2000, Cluj-Napoca, Romania: presented paper.

Aurora Pun, Post-Doctoral Scientist

Talks presented

Presented talk at the Annual NMCETP meeting, October 18-19, 2000, Albuquerque, NM.

Presented talk at 2000 Annual Meeting of the School Science and Mathematics Association, Oct. 20-21, 2000, Albuquerque, NM.

Frans J.M. Rietmeijer, Research Professor

Professional papers read

What we can expect to learn from robotic exploration of a comet nucleus surface, Space 2000 and Robotics 2000, Albuquerque, New Mexico.

Metastable eutectic behavior observed during dynamic pyrometamorphism in the matrix of an aggregate IDP, 31st Lunar and Planetary Science Conference, Houston, Texas.

Predictable metastable eutectic behavior to constrain the silicate dust in circumstellar atmospheres and interplanetary dust particles with constraints on comet dust analogs, IAU Colloquium #181, COSPAR coll. #11, University of Kent, Canterbury, United Kingdom.

Hierarchical accretion of non-chondritic circumstellar dusts and parent-body modification: The compositions of cometary nanometer to cm-sized meteors. Leonid MAC-99 Workshop, University of Tel Aviv, Tel Aviv, Israel.

Astromineralogy: Observations and experiment, Department of Astronomy, University of Amsterdam, Amsterdam, the Netherlands.

Interplanetary Dust Particles, Department of Physics and Astronomy, Free University Amsterdam, the Netherlands.

The scientific case for sample return from a primitive near-Earth asteroid. The Near-Earth *Asteroid Sample Return Workshop, Houston, Texas.*

Professional meetings attended

Space 2000 and Robotics 2000, Albuquerque, New Mexico, February 27-March 2.
31st Lunar and Planetary Science Conference, Houston, Texas, March 13-17.

IAU Colloquium #181, COSPAR, Dust in the solar system and other planetary systems, University of Kent, Canterbury, United Kingdom, April 10-14.
Leonid MAC-99 Workshop, University of Tel Aviv, Tel Aviv, Israel April 16-19.
The Near-Earth Asteroid Sample Return Workshop, Houston, Texas December 11-12.

Mousumi Roy, Assistant Professor

Professional meetings and presentations

Southern California Earthquake Center Annual Meeting, Palm Springs, September 2000; Abstract, poster - Natek and Roy.

National Science Foundation MARGINS Workshop, Puerto Vallarta, Mexico, October, 2000, poster with Axen et al.

National Science Foundation Plate Boundary Observatory Workshop, Palm Springs, October, 2000.

Geological Society of America Annual Meeting, Reno, November, 2000; Abstract, oral, Roy and Clayton.

Geological Society of America Annual Meeting, Reno, November, 2000; Abstract, oral, Pederson and Roy.

Service in Professional Organizations:

National Earthquake Hazards Reduction Program Panel Meeting – Portland, Oregon, July 2000, Reviewed 25 proposals.

Wrote Geodynamics section for National Science Foundation MARGINS Science Plan for Rupturing Continental Lithosphere Program.

Reviewed 2 papers for Journal of Geophysical Research, 2 for Geology, 1 for Geophysical Research Letters.

Editorial Boards

Elected to 2nd Vice-Chair of the Geophysics Division of the Geological Society of America.

Jane Selverstone, Professor

Presented talks

"The crust of the Colorado Plateau: evidence from the xenolithic record", Geological Society of America annual meeting, Reno, NV, Nov. 2000.

"Ideas on the origin of hornblende Garbenschiefer in the Zillertal Alps", Festkolloquium für Prof. Dr.-Ing. Giulio Morteani, Technische Universität München, Germany, July 21, 2000.

"Proterozoic assembly of the northern Colorado Front Range: New insights into the amalgamation of North America", University of Arizona, October 6, 2000.

"Interactions between metamorphism and deformation in a deep crustal shear zone in the Alps: Rheological cycling in space and time", University of Arizona, October 6, 2000

Committees

Chair to Past Chair, Geological Society of America Structural Geology and Tectonics Division
Member, Geological Society of America Committee on Nominations
Member, Geological Society of America Joint Technical Program committee; scheduled 450 abstracts for national meeting.

Charles K. Shearer, Research Professor

Professional meetings attended

31th Lunar and Planetary Science Conference, Houston, Texas.
1st Astrobiology Science Conference, Moffett Field, California.
New Views of the Moon III, Houston, Texas.
Geological Society of America Fall Meeting, Reno, Nevada.

Committees

Member, CAPTEM
Chair, CAPTEM Lunar sub-committee
Member, USRA review committee for the Lunar and Planetary Institute.
Member, USRA search committee for the director of the LPI.
Organizer, New Views of the Moon III Meeting
Associate Editor, American Mineralogist.

Zachary Sharp, Associate Professor

Committees

Instrumentation and Facilities (Chairman)
Long Range Strategic Planning Committee
Alumni committee
Mineralogical Society of America Awards Committee
E&PS Faculty Mt. Taylor Quadrathalon Team

Editorships

Geology
American Journal of Science
Lithos

Invited Lectures

U.T. Lubbock
University of Rome

Conferences

European Society of Isotope Research (5 presentations).

Michael N. Spilde, Research Scientist III.

Presented talks

Presented talk: "Potential biosignitures in caves: Mn-minerals in Lechuguilla Cave, New Mexico," Annual Meeting of the National Speleological Society, Elkins, West Virginia, June 27, 2000.

Presented talk: "Biogenic influence on mineral corrosion and deposition at Lechuguilla and Spider Caves, New Mexico," Annual Meeting of the Geological Society of America, Reno, Nevada, November 14, 2000.

Presented poster: "Mn-minerals in Lechuguilla Cave, NM: Potential biomarkers," First Annual Astrobiology Conference, NASA Ames Laboratory, California, April 3-5, 2000.

Gary A. Smith, Professor

Meetings attended

Presented talk "Oligocene onset of Santa Fe Group sedimentation near Santa Fe, New Mexico," New Mexico Geological Society Spring Meeting, Socorro, New Mexico, April 7, 2000.

Attended New Mexico Geological Society Fall Field Conference, Lordsburg and Deming, New Mexico, October 18-21.

Led field trip to Tent Rocks for the Albuquerque Geological Society (and UNM Geology Club), April 22, 2000.

Co-convenor and field-trip leader, SEPM (Society of Sedimentary Geology) and International Association of Sedimentologists, Research Conference, "Environmental Sedimentology: Hydrogeology of Sedimentary Aquifers", Santa Fe, New Mexico, September 24-27, 2000.

Society committees

Elected Fellow, Geological Society of America.

Executive Committee (Past-President) and Nominating Committee, New Mexico Geological Society.

Huifang Xu, Research Scientist III.

Presented talks

"Prediction of thermodynamic properties of Pu-zircon and Pu-pyrochlore" International Conference on Plutonium and Actinides, Santa Fe, New Mexico, July, 2000.

"Microstructures and thermodynamics of zirconolite- and pyrochlore-dominated Synroc samples: HRTEM and AEM investigation", International Conference on Plutonium and Actinides, Santa Fe, New Mexico, July, 2000.

"Immobilizing U from solution by immobilized sulfate-reducing bacteria of Desulfovibrio desulfuricans", International Conference on Plutonium and Actinides, Santa Fe, New Mexico, July, 2000.

"A novel equation for prediction of stability constants of aqueous metal complexes and actinide binding to protein", International Conference on Plutonium and Actinides, Santa Fe, New Mexico, July, 2000.

"Using electron energy-loss spectroscopy (EELS) associated with transmission electron microscopy to determine oxidation states of Ce and Fe in minerals", Y2000 Meeting on Mineralogy, Petrology, and Geochemistry, Nanjing, China, May, 2000.

"Investigation of invisible Au in Au-bearing FeS_2 microcrystals from Carlin gold ore deposit, Nevada, USA: TEM study and geochemical modeling", Y2000 Meeting on Mineralogy, Petrology, and Geochemistry, Nanjing, China, May, 2000.

"Environmental Mineralogy: Application of mineralogy in environmental sciences studies" Y2000 Meeting on Mineralogy, Petrology, and Geochemistry, Nanjing, China, May, 2000.

6. OTHER PROFESSIONAL ACTIVITIES
(Calendar Year 2000)

Yemane Asmerom, Associate Professor

Manuscript reviews: Geochimica Cosmochimica Acta, Earth and Planetary Science Letters; Science Review grant proposals for the National Science Foundation.

M. Susan Barger, Adjunct Professor

Proposals reviewed:

Institute of Museum and Library Services, Conservation Project Support Programs, Spring, 2000, Smithsonian Institution Research Grants, January, 2000.

Consultancies:

New Mexico Council on Photography, Preparation and Planning for a Conservations/Contents Survey for all Public New Mexico Photographic Collections.

Amon Carter Museum, Fort Worth, Texas, Examination of a daguerreotype.

Examination of Spanish Colonial Art for Fred R. Kline Gallery, Santa Fe, New Mexico.

Other:

Taught two day-long workshops in Albuquerque and Las Cruces on the care of photographic collections for the New Mexico Historic Records Review Board, as part of a state-wide grant from the National Historic Publications and Records Commission grant to provide training for archivists and librarians in the state of New Mexico.

Participated for the State Archives in the "Preservation Roadshow" in Portales, NM. This was a program sponsored by the State Historic Preservation Office, December 2, 2000.

Member of the Board of Directors, Graduate and Research Alumni Society, The Pennsylvania State University. Member of Committee on Graduate Fellowships, Meetings, March and September, 2000.

Professional meeting attended:

Annual Meeting, American Institute for Conservation, June 6-11, 2000, Philadelphia, PA.

Regional reporter for Western Association of Art Conservators (WAAC).
Abstractors, Art and Archaeology Technical Abstracts.
Local arrangements for ArtTable, Santa Fe, New Mexico

Adrian Brearley, Associate Professor

Reviewed scientific papers submitted to Meteoritics and Planetary Science (1), Earth and Planetary Science Letters (1), American Mineralogist (2), European Journal of Mineralogy (1), Journal of Geomicrobiology.

Reviewed 12 proposals submitted to NASA Planetary Materials and Geochemistry Program.
Reviewed 1 proposal submitted to NSF Instrumentation and Facilities Program.
Reviewed 1 proposal submitted to NSF Petrology and Geochemistry Program.
Reviewed 1 proposal submitted to Austrian Science Foundation.

Lars Borg, Senior Research Scientist

Colloquium Speaker at the University of Texas at Austin (March 2000), "Constraints on Martian geological processes."

Built class 100 clean room for separation of minerals from lunar and meteorite samples.
Built O2 bleed system for thermal ionization mass spectrometer.
Built and calibrated ion exchange columns for chemical separation.

Michael E. Campana, Professor

Editorial duties

Associate Editor, Environmental and Engineering Geoscience.
Associate Editor, Ground Water.
Book Editor, Ground Water.

Reviews

Reviewed manuscripts for Journal of the North American Benthological Society (2); Hydrogeology Journal (1); Hydrological Processes (1); Water Resources Research (3); Journal of Hydrology (2); Environmental and Engineering Geoscience (2); Journal of Hydraulic and Drainage Engineering (1); Limnology and Oceanography (2); Ground Water (3).

Reviewed proposals for: National Science Foundation (4); Los Alamos National Laboratory (1).

National committees

Member, National Research Council Committee on U.S. Geological Survey Water Resources Research.
Member, National Research Council Committee on Opportunities to Improve the U.S. Geological Survey's National Water Quality Assessment (NAWQA) Program.

Member, Program Development and Review Board, New Mexico Water Resources Research Institute.

Fulbright Senior Scholar Review Committee - Canada-Caribbean-Central America-Mexico Region.

Campus Coordinator, U.S. Environmental Protection Agency National Network for Environmental Management Studies (NNEMS) Fellowship Program.

Steering Committee, National Water Initiative Task Force. This is a group of about 15 academicians seeking to increase Federal sponsored research on water resources by $500,000,000 per year (organized under the aegis of NASULGC).

Laura J. Crossey, Professor

Reviews

Manuscripts
Geology (2)
Geochimica et Cosmochimica Acta (2)

Proposals
American Chemical Society/Petroleum Research Fund (1)
National Science Foundation (4)

Maya Elrick, Associate Professor

Journal reviews

Journal of Sedimentary Research (2)
Geological Society of America (1)
Sedimentology (1)
Petrology book chapter (1)

Proposal reviews

National Science Foundation (2)

Peter J. Fawcett, Assistant Professor

Invited presentations at other meetings and departments

Department of Geosciences, Pennsylvania State University, State College, PA., May 2000
Albuquerque Gem and Mineral Club, Albuquerque NM, July 2000
New Mexicans for Science and Reason, Albuquerque NM, August 2000
Department of Atmospheric and Ocean Sciences, McGill University, Montreal, Canada, September 2000
Department of Geological Sciences, University of Texas, Austin, TX (2 talks given), October 2000

Reviewed manuscripts and proposals

Reviewed scientific manuscripts submitted to: Paleoceanography (1), Oceans and Rapid Past and Future Climate Changes, AGU Volume.

Reviewed 2 proposals submitted to the National Science Foundation.

Tobias Fischer, Assistant Professor

Reviews

Reviews of 4 NSF proposals (Petrology and Geochemistry, Polar Research Program) and 6 scientific manuscripts for EPSL, GCA, Chemical Geology, Bull. Volc., Journal of Volcanology and Geothermal Research.

Off campus talks

Scripps Institute of Oceanography, Invited talk for Geochemistry colloquium
Washington University, Invited talk for departmental colloquium.

John W. Geissman, Professor

Reviews of manuscripts and proposals

Reviewed proposals for National Science Foundation (10), American Chemical Society (3), The Third World Academy of Sciences (2), Lithoprobe, Canada (1), Australian Research Council (1).

Reviewed manuscripts for Journal of Geophysical Research (3), Earth and Planetary Science Letters (1), Geophysical Research Letters (1), Economic Geology (1), Tectonics (1), Canadian Journal of Earth Science (1), Precambrian Research (1), Geophysical International (2), Geology (4), Tectonophysics (1)

Editorial duties

Editor, Monthly Faculty Senate Meeting minutes
Editor, Bulletin, Geological Society of America
Member, Publications Committee, Geological Society of America
Member, Annual Program Committee, Geological Society of America
General Chair, Geological Society of America Rocky Mountain/South Central Section Meeting, ABQ
Associate Editor, Journal of Geophysical Research
Member, American Geophysical Union "Committee of 50"
University of New Mexico representative, DOSECC, Inc.
Geoscience "consultant", Albuquerque Petroglyphs, U.S. Park Service
Member, New Mexicans for Science and Reason, and Technical Consultant
Member, Coalition for Excellence in Science Education
Chair, AGU Public Affairs Committee on Creationism/Evolution Policy Statement
Organizer, Fifth Institute for Rock Magnetism Conference, Santa Fe

Consultancies

Adjunct or associate-type positions at other institutions
Adjunct Full Professor, University of Michigan, Ann Arbor

Other

Technician (half-time), UNM Paleomagnetism and Rock Magnetism Laboratory.

David Gutzler, Professor

Invited presentations

University of Arizona, "Land surface forcing of the North American monsoon", May 19.
University of Alabama, "The North American Monsoon", September 14.
Participation in joint A&S/COE/APS "Strengthening and Sustaining Teachers Initiative" Conference, December 6.
Participation in and presentation to LANL NUCOR investigators conference, UNM South Campus, November 16.
Member, New Mexico State Weather Modification Commission.

Numerous short interviews for New Mexico newspapers and television stations regarding summer rainfall, El Niño/La Niña, and other weather-related and climate-related topics.

Founding member, Science Planning Team for proposed NOAA North American Monsoon Experiment.

Manuscript and Grant Proposal Reviews

Journal of Climate: 4 manuscripts.
Geophysical Research Letters: 2 manuscripts.
Monthly Weather Review: 1 manuscript.
National Science Foundation: 3 proposals.
NOAA Office of Global Programs: 1 proposal.

Stephen P. Huestis, Associate Professor

Reviewed manuscript for Inverse Problems.

Rhian Jones, Senior Research Scientist

Reviewed 1 manuscript for Earth and Planetary Science Letters, 1 manuscript for Meteoritics and Planetary Science, 1 manuscript for Science, one book proposal for Cambridge University Press and four science proposals for NASA's Cosmochemistry Program.

Karl E. Karlstrom, Professor

Editorial duties

Member of Editorial Board for PRECAMBRIAN RESEARCH, 1-90 to present.
Member New Mexico Geologic Mapping Advisory Board, 1995-present.
Steering Committee and workshop coordinator for U.S. Array, a component of the NSF-Earthscope initiative.
Science editor for GSA Today, January 2000-2003.
Panelist for NSF special panel to evaluate IRIS proposal (2000).
Member Pan-Lithoprobe subcommittee (2000-2003).

Organized CD-ROM (Continental Dynamics of the Rocky Mountains) 4th Annual Workshop, April 16-18, 2000 in Boulder, Colorado (42 participants).

Invited talks

University of Arizona
Arizona State University

Review Activities (Manuscripts)

Geology (2)
Precambrian Research (2)
Tectonics (1)

Review Activities

NSF Proposals (3)

Cornelis Klein, Professor

Reviewed manuscripts for Precambrian Research and for the International Association of Sedimentologists.
Adjunct Curator, New Mexico Museum of Natural History, Albuquerque, New Mexico.

Barry S. Kues, Professor

Editorial Board, New Mexico Geology
Adjunct Curator, New Mexico Museum of Natural History and Science.

Grant A. Meyer, Assistant Professor

Reviews

Member of editorial board, GEOLOGY (reviewed 3 manuscripts).
National Science Foundation – Geosciences Postdoctoral Fellowship Proposal Review Panel for 2000 (reviewed and ranked 43 proposals).
Reviewed manuscripts for Geomorphology, Radiocarbon, American Journal of Science, and Arctic, Antarctic, and Alpine Research.

Leslie D. McFadden, Chair and Professor

Reviews

Peer Reviews of Articles and Proposals
Reviewed 1 paper for the Geological Society of America Bulletin
Reviewed 1 manuscript for Geology
Review 1 National Science Foundation Proposal.

Editorial duties

Editorial Activity
Editorial Board Member, Catena
Chairman, Quaternary Geology and Geomorphology Division (Geological Society of America Quaternary) Nominations Committee
Scholarly Expert Activity

Deposee in lawsuit concerning evaluation of scientific merit of desert scientist's research.

Off-campus activity

Panel Member, Roundtable America! Symposium, "Science and the Media", Albuquerque, NM.
"Forming a desert pavement: a new hypothesis for the mechanical weathering of surface clasts", presented at the Ghost Ranch Conference Center, NM, July 27.

Horton E. Newsom, Research Professor

Visited NASA Headquarters in Washington D.C., and met with the program director for PACE, Dr. Maryanne Stoutsenberger, July 25, 2000.

Professional offices held

Associate Editor, Geochimica et Cosmochimica Acta, Journal of the Geochemical Society and the Meteoritical Society.
Review panel member, NASA Office of Space Sciences Education and Public Outreach Program, Spring 2000, Fall 2000.

Other activities

Reviewed scientific papers submitted for publication in Geochimica et Cosmochimica Acta (1 paper), Meteoritics and Planetary Science (2), Geology (1).

Reviewed grant proposals submitted to NASA (10), National Science Foundation (2).

Member of the scientific team for the 1999 Marsokhod Rover test, Ames Research center.

May 16, 2000, Presented a talk at the New Mexico Museum of Natural History "Where to look for life on Mars".

Publicity

UNM Press release, New study of mid school students offers clues about low numbers choosing technical careers, September 8, 2000.

Story in Albuquerque Public Schools, Perspectives, "New study of mid school students offers clues about low numbers choosing technical careers", October 2, 2000.

"Who, me a scientist?" interview and segment about outreach to middle school students aired on KRQE-TV, October 15, 2000.

UNM Campus News, p. 3, "Fun not enough to attract youth to science, UNM study reveals", October 16, 2000.

UNM Press release, Stars on Earth Program receives three-year grant to provide research experience to high school students, December 14, 2000.

Albuquerque Journal, and AP wire story: "SIPI Students to help ID meteorites" regarding a new NASA grant with the Southwest Indian Polytechnic Institute, December 19, 2000.
Discussed background science for different topics with reporters from the BBC, and with science reporter John Fleck of the Albuquerque Journal.

James J. Papike, Director (Institute of Meteoritics) and Professor

Reviewed (10) proposals
Reviewed (7) papers.

Aurora Pun, Post-Doctoral Scientist

Reviewer of papers, Meteoritics and Planetary Sciences.
Adjunct Assistant Professor, Dept. Earth & Planetary Sciences, University of New Mexico.

Frans J.M. Rietmeijer, Research Professor

Book editing

Leonid Storm Research, 606 p., P. Jenniskens, F.J.M. Rietmeijer, N. Brosch and M. Fonda, Editors, Kluwer Academic Publishers, Dordrecht, the Netherlands.

Peer review scientific papers

American Mineralogist
Deep Sea Research
Earth, Moon, and Planets
Planetary and Space Science
Proceedings Bioastronomy-1999

Proposal review

National Aeronautics and Space Administration, Cosmochemistry Program (4)
National Aeronautics and Space Administration, Origins of Solar Systems Program (1)
National Aeronautics and Space Administration, Planetary Instrument Definition and Development Program (2)
Los Alamos National Laboratory IGPP (1)

International adjudication

Ph.D. thesis entitled "Exploration and exploitation strategy for corundum at Wira Khammam District, Andhra Pradesh, India", submitted to the Andhra University, Visakhapatnam, India

Panel memberships

National Aeronautics and Space Administration, Cosmic Dust Working Group.
31st Lunar and Planetary Science Conference Program Committee.

Professional services

Volunteer Editor for the Journal of Geophysical Research, American Geophysical Union

Mousumi Roy, Assistant Professor

Invited off-campus talks

Department Colloquium, Earth and Planetary Sciences, Harvard University, February, 2000.
Department Colloquium, Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology, February, 2000.
Department Colloquium, Geological Sciences, University of Oregon, February, 2000.
Department Colloquium, Geological Sciences, Arizona State University, March, 2000.
Department Colloquium, Geological Science, University of Illinois, Urbana-Champagne, April, 2000.
Department Colloquium, Earth and Environmental Science, New Mexico Tech, April, 2000.
Department Colloquium, Geology, San Diego State University, October, 2000.

Jane Selverstone, Professor

Editorial board member

Journal of Metamorphic Geology

Manuscripts reviewed

Science, Geology, Geological Society of America Bulletin, Tectonics, Geological Society of London special publication, Journal of Metamorphic Geology.

Proposals reviewed

NSF Tectonics program, NSF Petrology and Geochemistry program, NSF Continental Dynamics program.

Invited talk

"Proterozoic assembly of the northern Colorado Front Range: New insights into the amalgamation of North America", New Mexico State University, February 2, 2000.

Charles K. Shearer, Research Professor

Interviews given to numerous news media. These include interviews with the Associated Press, BBC, local affiliates for NBC, CBS, and ABC, Albuquerque Journal.

Reviewer for Geochimica Cosmochimica Acta, Canadian Mineralogist, Canadian Journal of Earth Science, American Mineralogist, Mineralogical Association of Canada, Nature.

Organizer and Chair for "New views of the Moon III meeting in Houston, TX.

Zachary Sharp, Associate Professor

Reviewed papers

Journal of Metamorphic Geology, EPSL, (2000).

Reviewed proposals

NERC proposal (2)
Canadian Research Council (2)
NSF (4)

Collaborative efforts with following research scientists:

Jeff Heikoop, Los Alamos National Laboratory
Jeff Kelly, Forest Service
Casey Lott, Hawk Watch International, Salt Lake City
Chris Berg, University of Kentucky
Dave Moecher, University of Kentucky
John Chesley, University of Arizona
Henry Fricke, Colorado College
Gary O'Brienn, Arizona North University
Nacho Querejeta, University of California, Riverside

Other projects:

Isotopic variability of the Rio Grande fish as a monitor of anthropogenic change (with T. Turner, Department of Biology)

Characterization of Biomarkers (with J. Papike, Institute for the Study of Biomarkers in Astromaterials)

Isotopic signatures of reptiles and mammals (with J. Brown, Department of Biology; funded by NSF to Sharp).

Migration patterns of songbirds and raptors using stable isotope geochemistry (with J. Kelly, USDA Forest Service; funded by grant from USDA).

Origins of hematite iron deposits, Hammersley, Australia (with N. Oliver, James Cook Univ.; funded by Australian NSF).

Constraints on pathways of ultrafine particles in the human body using stable isotopes (with G. Oberdörster, U. Rochester; funded by NIH).

Michael N. Spilde, Research Scientist III.

Appeared in the January 2000 issue of the National Geographic Magazine in an article entitled: "Life Beyond Earth."

Interviewed by Houston Chronicle reporter for an article on cave research. Article appeared in the Sunday Special "Texas" Section, July 16, 2000.

Presented a public talk at Carlsbad Caverns National Park: "The search for life on other planets, right here at Carlsbad Caverns," as part of the Park Week Program, a series of public lectures presented by the National Park Service, April 16, 2000.

Served on Cave Conservation Panel at the National Speleological Society 2000 Meeting, Elkins, West Virginia, June 26, 2000.

Presented a talk to state and national cave resource managers: "Geologic and mineralogic significance of caves" at the National Speleological Society 2000 Meeting, Elkins, West Virginia, June 28, 2000.

Worked with a BBC TV film crew for a segment of the British TV Series "Space: The Final Frontier," November 30 and December 1, 2000. The program will be aired in the US on the Discover Channel, Fall 2001.

Gary A. Smith, Professor

Associate Editor, Geological Society of America Bulletin.
Adjunct Curator of Geology, New Mexico Museum of Natural History and Science.
Research Associate, New Mexico Bureau of Mines and Mineral Resources.
UNM Geology Museum exhibit, Tucson Gem and Mineral Club, Tucson, Arizona, February 9-14, 2000.

Professional meetings attended

Attended US Geological Survey Middle Rio Grande Basin Project Workshop, Albuquerque, NM, Feb. 15-16, 2000.

Presented talk, "Geology of the Jemez Mountains," Albuquerque Gem and Mineral Club, February 28, 2000.

Attended 45th Annual New Mexico Water Conference, Albuquerque, NM, December 5, 2000. Answered geology questions for online science-education service "Wonderquest."

Reviews

Reviewed research proposals for the National Science Foundation (3) and the American Chemical Society, Petroleum Research Fund (2)
Reviewed manuscripts for: Geological Society of America Bulletin (6), International Association of Sedimentologists Special Publication (1), Quaternary Research (1), Basin Research (1), Sedimentology (1), Journal of Geology (1), Journal of South American Earth Sciences (1), SEPM Special Publication (1).

Huifang Xu, Research Scientist III.

Talks presented

Presented talk "Incorporation of trace and toxic elements during crystallization of minerals: geochemical modeling", Nanjing University, Nanjing, China, May, 2000.

Presented talk "Application of TEM and AEM in geological studies", Nanjing University, Nanjing, China, May, 2000.

Presented talk, "Application of mineralogy and petrology in environmental science studies", Institute of Geochemistry, Chinese Academy of Sciences, June, 2000.

Presented talk, "Transmission electron microscopy in geochemical and materials sciences studies", Zhongshan University, Guangzhou, China, June, 2000.

Presented talk "Incorporation of trace and toxic elements during mineral crystallization: geochemical modeling", Zhongshan University, Guangzhou, China, June, 2000.

Collaborative Research on "Invisible gold in Fe-sulfide minerals: HRTEM/AEM investigation" (supported by NSF of China).

7. NON-TEACHING UNIVERSITY SERVICE
(Calendar Year 2000-20001)

Yemane Asmerom, Associate Professor

Department service

Facilities Committee
Graduate Committee
Search Committee: Geomorphology
Library Representative

Adrian Brearley, Associate Professor

Departmental service

Presented seminar to Department of Physics and Astronomy, UNM "Life on Mars: Alive and Kicking or Dead in the Water."

Director, Earth and Planetary Sciences Transmission Electron Microscope and X-ray Diffraction Laboratories.
Chairman, Department of Earth and Planetary Sciences Facilities Committee.
Co-chair, Department of Earth and Planetary Sciences Graduate Committee.
Member, Department of Earth and Planetary Sciences Long Term Strategic Planning Committee.

University service

Member, University Research Allocation Committee (2000-).
Member, University Limited Competition Review Panel for NSF Nanoscale Science Program.

Michael E. Campana, Professor

University service

Director, Water Resources Program (0.50 FTE)
Member, Program Committee, Water Resources Program
Co-Chair, Faculty Senate Curricula Committee (through 6/30/00)
Member, Registrar Search Committee
Member, Geography Department Review Committee
Co-Chair, Strategic Committee on Graduate and Professional Education, Recruiting and Mentoring
Member, Search Committee, Director of Domestic Programs, Utton Transboundary Resource Center, School of Law

Departmental committee

Graduate committee

Speaker series

Responsible for arranging colloquium speakers, Spring-Fall 2000.

Laura J. Crossey, Professor

Departmental service

Associate Chairman
Alumni Relations Committee
Scholarship Committee
Undergraduate Committee
Undergraduate Advisor: E&PS BS/BA, Environmental Science BS
Department Representative to the Minority Engineering, Math, and Science Program

College

Associate Dean, Student Academic Affairs (2/3 time appointment; through 7/31/00).

Maya Elrick, Associate Professor

Departmental committees

Chair Geomorphology Search Committee
Co-chair Graduate Committee
Graduate Advisor
Chair Scholarship Committee

University committees

KUNM Radio Board.

Peter J. Fawcett, Assistant Professor

Departmental service

Chair, Computer committee
Member, Geomorphologist Search Committee
UNIX facility administrator

Tobias Fischer, Assistant Professor

Departmental service

Computer committee
Scholarship committee
Long Range Planning Committee

Computer committee
Scholarship committee
Long Range Planning committee
Rock saw room supervisor

Coordinator, UNM-LANL Volcanology Program.

John W. Geissman, Professor

Departmental service

Department Graduate Committee, Co-Chair, Fall, 1998-
Department Facilities Committee, Fall, 1996-
Department Long Range Planning Committee, 1999-
Department Vehicle Committee, 1999-2000
Department Alumni Affairs Committee, 1999-

University service and activities

President, Faculty Senate, 2000-
Member, Faculty Senate Governmental Affairs Committee, 1999-
Chair, College of Arts and Sciences Junior Promotion and Tenure Committee, 2000
College of Arts and Sciences Graduate Committee
University North Central Association Steering Committee Member

Special projects

Administrative Positions

Other service

Member, Strategic Planning Task Force, 2000.

David Gutzler, Professor

Departmental committees

Computer Committee (Chair, Spring).
Graduate Committee, Fall.
Undergraduate Committee, Spring.
Faculty Salary Advisement Committee.

University committee

Faculty Senate Computer Use Committee (Chair, Spring).
E&PS representative on an ad hoc planning committee to design video/audio/computer renovations to the Kudo lecture hall, 122 Northrop Hall.
E&PS representative on steering committee for the UNM Center for Advanced Studies, Fall.
Initial Departmental Student Advisor for the new E&PS undergraduate degree program (B.A. and B.S.) in Environmental Science (approved by the Regents in September, first students to be accepted Fall 2001).
Interviewee about drought in New Mexico, KNME-TV "In Focus", 21 April.

Stephen P. Huestis, Associate Professor

Departmental service

Undergraduate Committee
Scholarship Committee
Undergraduate Advisor

Committees

Arts and Sciences Undergraduate Committee.
Arts and Sciences Curriculum Committee.

Other university activities

Virginia Creepers String Band university performances:
UNM International Students event, Grace Church, April 7, 2000.
American Studies 313 – American Folklore and Folklife- April 13, 2000.
Presidential Scholarship Dinner, April 12, 2000.
American Studies 200 – Introduction to Folklore Studies, December 1, 2000.

John Husler, Research Scientist III.

Performed chemical analyses for:

Safety, Health and Environment Division
CMEM
Chemical and Engineering
Biology
Pharmacy
CeRAM
Medical School

Rhian Jones, Senior Research Scientist

Departmental service

Manager of Experimental Petrology Laboratory.
Curator of Meteorite Collection.

University service

Member of UNM Museum Directors Committee

Karl E. Karlstrom, Professor

Departmental service

Undergraduate committee
Member, Faculty Productivity and Salary Advisory Committee (Spring, 2000)
Member, Long Range Planning Committee (Fall, 2000)

Cornelis Klein, Professor

Departmental service

Departmental peer reviewer of the teaching of Professor Adrian Brearley. Attended three of his lectures in two different courses and composed a review of his teaching qualifications for his tenure dossier.

Member, Collections Committee, E&PS.
Member, Undergraduate Committee, E&PS (September 2000).

Grant A. Meyer, Assistant Professor

Departmental service

Member of Graduate Committee.
Department rep. at Graduate Student Open House, September 14, 2000.
Department rep. at Majors Fair, November 20, 2000.
Assisted in promotion of new Environmental Science major.

Leslie D. McFadden, Chair and Professor

Reviewed Asst. - Professor at Bar-Ilan University, Israel, for promotion and tenure.
Senator, UNM Faculty Senate.
Chairman of the Department of Earth and Planetary Sciences (since July 1 1999).
Secretary, Caswell Silver Foundation Board.
Member, Advisory Council of the Albuquerque Teachers Institute.
Member, Planning Committee on Support for Research, Scholarship and Creative Activity (part of UNM Strategic Planning effort).

Horton E. Newsom, Research Professor

Departmental service

Departmental assignment, Research Professor.
Member, New Mexico Space Grant Faculty Advisory Board (Facilitated successful application of students Justin Hagerty, and Jim Karner).
Educational Outreach Coordinator, Institute of Meteoritics.
Assisted with Astronomy day activities at Coronado Mall, May 22, 2000.
Met with numerous members of the public who brought in suspect meteorites.
Presented IOM seminar talk "Siderophile elements and planetary and nebular heterogeneity", September 18, 2000.
Hosted visit of Dr. Bevan French, Smithsonian Institution, September 27-29, 2000.
Audited Civil Engineering 551-011 Geochemistry of Mine Waste Management, Spring 2000.
Audited Earth and Planetary Science 505, Stable Isotope Geochemistry, Spring 2000.

Matthew Nyman, Natural Science Coordinator

Departmental service

Developed lab manuals for Natural Science courses, summer 2000.

James J. Papike, Director (Institute of Meteoritics) and Professor

Departmental service

Director of the Institute of Meteoritics.
Member of EPS Facilities Committee.
Chair, EPS Long Range Planning Committee.

University service

Director, Institute of Meteoritics.

Aurora Pun, Post-Doctoral Scientist

Departmental service

Assisted Geology Museum Curator at Tucson Gem and Mineral Show.
Assisted Geology Museum Curator at Albuquerque Gem and Mineral show.

Mousumi Roy, Assistant Professor

Departmental service

Computer Committee.
Undergraduate Committee.

Jane Selverstone, Professor

Departmental committees

Long-Range Strategic Planning committee
Undergraduate committee
Scholarship committee

University committees

Research Allocations Committee
Committee to evaluate candidates for the position of Regents' Lecturer
Committee to evaluate Dean of the Library

Other service

Hosted research visit of Dr. Gemma Alías (Barcelona, Spain), 11/1/99-3/15/00.

Charles K. Shearer, Research Professor

Departmental service

Manager SIMS laboratory
Department Facilities Committee

Zachary Sharp, Assistant Professor

Departmental service

Hosted visitors to the Laboratory:
Mr. Louis Bucci (University of Western Australia)
Dr. Luigi Dallai (University of Rome)
Gregory Dipple, UBC, Vancouver, Canada

Dr. Yuri Dublyansky, Novosibirsk, Russia
Prof. Gunter Oberdörster, D.V.M. (University of Rochester)
Dr. Marta Mangiron, Barcelona, Spain

Michael N. Spilde, Research Scientist III.

Departmental service

Manager of the Electron Microprobe and Scanning Electron Microscope Labs.
Served on the Department of Earth and Planetary Sciences Computer Committee.
Presented research seminar UNM Biology Department with D. Northup "Microbial interactions in punk rock and corrosion residues in Lechuguilla Cave" March 22, 2000.
Presented IOM Research Seminar "Microbial interactions in corrosion residues in Lechuguilla Cave," March 27, 2000.
Presented talk at the Geology Club Green Chili Seminar Series with D. Northup "Rock eating microbes in caves," April 21, 2000.
Performed microprobe and SEM analyses for UNM Departments of Anthropology, Biology, Chemical and Nuclear Engineering, Civil Engineering, Earth and Planetary Sciences, Mechanical Engineering, Physics and Astronomy, NM Engineering Research Institute, and Center for Microengineered Materials.
Performed microprobe and SEM analyses for 8 local businesses, Los Alamos National Laboratory, Sandia National Laboratory, Western Illinois University, and the University of Memphis.

Gary A. Smith, Professor

Departmental service

Associate Chair, Department of Earth and Planetary Sciences.
Chair, Undergraduate Committee, Department of Earth and Planetary Sciences.
Collections Committee, and co-curator, Department of Earth and Planetary Sciences.
Member of the Board, and Audit Committee, Caswell Silver Foundation.
Advisor, Geology Club.
Department of Earth and Planetary Sciences curatorial duties including specimen acquisition and cataloging and preparation of Geology Museum exhibits for the Tucson Gem and Mineral Show and the Albuquerque Gem and Mineral Show.
Cover design and digital layout, Department of Earth and Planetary Sciences brochure.
Presented UNM Geology Club "Green Chile Seminar" on "The 1980 Eruption of Mt. St. Helens", February 25, 2000.
Led field trip for UNM Geology Club to Tent Rocks, April 22, 2000.
Co-led planning field trip to Abiquiu-Ghost Ranch for CETP workshop, April 24, 2000.

8. SCHOLASTIC HONORS AND FELLOWSHIPS

Adrian Brearley, Associate Professor

Elected to the Council of the Meteoritical Society.

David Gutzler, Associate Professor

Named UNM Regents' Lecturer for 2000-2003, May.

John Husler, Research Scientist III.

Caswell Silver Employee Award
NW Regional Science Fair Outstanding Senior Certificate (19 year)
Continuing Education MS Excel Class 5720 CA, January-February, 2000
Perkin-Elmer, Dionex, Jarrell-Ash, Metrohm Spectroscopy and ion chromatography seminars.

Rhian Jones, Senior Research Scientist

Mineralogical Society of America Distinguished Lecturer, 2000-2001.

Leslie D. McFadden, Chair and Professor

Co-recipient of the 2000 Farouk El-Baz Award in Desert Research (with Steve Wells), from the Quaternary Geology and Geomorphology Division of the Geological Society of America.

Jane Selverstone, Professor

UNM Regents' Lecturer, 1998-2001.
Promoted to Full Professor, UNM, Summer 2000.

9. SABBATICALS AND TRAVEL
(Calendar Year 2000)

Yemane Asmerom, Associate Professor

Sabbatical Activity: worked on my NSF-funded research work both here and at the University of Minnesota. Based on results I gave talks at the Goldschmidt conference at Oxford and the Fall meeting of the American Geophysical Union meetings. Lab management and administration.

Fall 2000. Part of the time I spent at the University of Minnesota.
Did field work in Northern Arizona, summer 2000.
Zuni Bandera volcanic field, New Mexico, Spring and Fall, 2000.
Lake Tahoe, Nevada, Summer, 2000.

Nicu-Viorel Atudorei, Research Scientist III.

Professional travel

Dipartimento Scienze della Terra, visiting scientist; May 8-16 2000.
Università di Roma "La Sapienza", Italy.
Utah State University, Logan, invited speaker; September, 28 2000.
Uinta Mountains, N Utah, samples collecting, July (4 days).
SE Idaho, samples collecting, October 1-8.

Adrian Brearley, Associate Professor

Professional travel

31st Lunar and Planetary Science Conference, Houston, Texas, March 13-17, 2000.
1st Astrobiology meeting, NASA Ames, California, April 16-19, 2000.
NASA Cosmochemistry Review Panel, Lunar and Planetary Institute, Houston Texas, August 14-18, 2000.
Meteoritical Society Meeting, Chicago, August 27-31, 2000.
Geological Society of America Meeting, Reno, Nevada, November 13-16, 2000.

Michael E. Campana, Professor

Travel

Washington, D.C., to attend meeting of the National Research Council Committee on Opportunities to Improve the U.S. Geological Survey's National Water Quality Assessment Program, February 3-4, 2000.

Washington, D.C., to attend meeting of the National Research Council Committee on U.S. Geological Survey Water Resources Research, February 7-8, 2000.

La Jolla, California, to attend meeting of the National Research Council Committee on Opportunities to Improve the U.S. Geological Survey's National Water Quality Assessment Program, May 1-2, 2000.

Santa Fe, New Mexico, to attend mid-year meeting of the Board of Directors, Association of Ground Water Scientists and Engineers, May 3-6, 2000.

La Jolla, California, to attend meeting of the National Research Council Committee on Opportunities to Improve the U.S. Geological Survey's National Water Quality Assessment Program, May 1-2, 2000.

Boise, Idaho, to attend meeting of the National Research Council-Water Science and Technology Board Committee on U.S. Geological Survey Water Resources Research, July 17-19, 2000.

New Orleans, Louisiana, to attend annual meeting of the Universities Council on Water Resources, August 2-5, 2000.

Reno, Nevada, to conduct ground-water sampling, August 9-17, 2000.

Woods Hole, Massachusetts, to attend meeting of the National Research Council Committee on Opportunities to Improve the U.S. Geological Survey's National Water Quality Assessment Program, August 24-25, 2000.

Marmaris, Turkey, to attend and present poster at the Karst 2000 Conference and Field Seminar, September 15-26, 2000.

Woods Hole, Massachusetts, to attend meeting of the National Research Council-Water Science and Technology Board Committee on U.S. Geological Survey Water Resources Research, October 12-13, 2000.

Washington, D.C., to attend meeting of the National Research Council Committee on Opportunities to Improve the U.S. Geological Survey's National Water Quality Assessment Program, November 9, 2000.

Caracas, Venezuela, to hold workshop on Valuation of Water in the Americas, November 11-15, 2000.

Washington, D.C., to attend meeting of the Fulbright Senior Scholar Review Committee, Canada-Caribbean-Central America-Mexico region, November 20, 2000.

Las Vegas, Nevada, to attend annual conference and Board of Directors meetings, National Ground Water Association and Association of Ground Water Scientists and Engineers, December 12-16, 2000.

Laura J. Crossey, Professor

Meetings Attended/talks presented/field trips

NSF-Collaboration for Excellence in Teacher Preparation, site visit, Las Cruces, New Mexico February 8, 2000.
Grand Canyon UNM Spring Trip, March 11-17, 2000.
New Mexico Geological Society, Socorro, New Mexico, April 7, 2000.
Uinta Mountain Group, Field Trip, NE Utah, July 25-30, 2000.
Grand Canyon Research Trip, September 7-17, 2000.
Blue Gap, Arizona Research Trip, September 22-24, 2000.
GSA Field Trip: Pahrump Group, Death Valley California, November 2000.
Geological Society of America Annual Meeting; Reno, Nevada, November, 2000.
American Geophysical Union Fall Meeting, San Francisco, California, December 13-19, 2000

Peter J. Fawcett, Assistant Professor

Professional travel

Penn State University, research meeting, May 21-24, 2000.
Sonora Mexico, field research, June 20-23, 2000.
Penn State University, research meeting, August 24-27, 2000.
Montreal, Canada, talk, September 8-12, 2000.
Chinle, Arizona, field research, September 22-24, 2000.
Austin, Texas, talk, October 11-13, 2000.
Mesa Chivato, New Mexico, field research, October 26, 2000.
Reno, Nevada, annual GSA meeting, November 11-16, 2000.
San Francisco, California, fall AGU meeting, December 14-18, 2000.

Tobias Fischer, Assistant Professor

Professional travel

New Zealand: January 2000.
San Diego, CA: April 2000.
Yellowstone: June 2000.
Japan: October 2000.
St. Louis, MO: November 2000.
Dominica: November 2000.

John W. Geissman, Professor

Professional travel

Ann Arbor, Michigan, University of Michigan, Invited talk, February 16-20.
Boulder, Colorado, GSA Publications Committee Meeting, February 24-26.
Santa Fe, New Mexico, Annual Tibet Freedom March, March 10.
Field work, northern New Mexico, March 13-15.
Rio Rancho, Rio Rancho High School Career Day, April 11.
Lawrence, Kansas, Evolution Symposium, April 13-16.
New Mexico, southern Colorado, UNM Introductory Field Geology course, May 14-June 4.
Field sampling, northern New Mexico, June 9-12.
Wyoming, University of Michigan, Field Camp, June 20-July 7.
Field work, southern Colorado, July 12-16.
Santa Fe, New Mexico, Rock Magnetism Conference, July 20-23.
Utah,Wyoming, field work, July 24-31.
Ann Arbor, Michigan, Van der Voo Symposium, August 4-7.
Field work, southern Colorado, August 13-17.
Field work, northern New Mexico, September 10.
Field work, southern California, September 14-17.
Field work, central New Mexico, September 24.
Ann Arbor, Michigan, University Alumni Advisory Panel, September 28–October 1.
Berkeley, California, Evolution Conference, October 5-8.
Northern New Mexico, October 12, field work.
Tucson, Arizona, University of Arizona, Invited Talk, October 19-21.
Field work, central Colorado, October 25-29.
Reno, Nevada, Geological Society of America Annual Meeting, November 11-16.
Cambridge, Massachusetts, work at MIT, December 3-7.
San Francisco, California, AGU Fall Meeting, December 16-19.

Summer teaching

University of Michigan Camp Davis, Geological Sciences 440, Advanced Field Geology, June 20-July 6.

David Gutzler, Professor

Professional travel

Meeting with NUCOR project collaborators at LANL, Los Alamos New Mexico, April 20 - September 7.
Invited presentation and visit to Institute for Study of Planet Earth at University of Arizona, Tucson Arizona, May 18-19.
Meteorology at the Millennium Conference, Cambridge, United Kingdom, July 4-15.
Invited presentation and visit to University of Alabama, Tuscaloosa Alabama, September 13-17.

Rhian Jones, Senior Research Scientist

Professional travel

31st Lunar and Planetary Science Conference. Houston, Texas. March 13-17, 2000.

63rd Meteoritical Society Meeting, Chicago IL. August 28-September 1, 2000.

MSA Distinguished Lecturer Tour. University of Toronto; Brock University, Ontario; University of Western Ontario. October 2-6, 2000.

MSA Distinguished Lecturer Tour. Indiana State University; University of West Virginia; Denison University, Ohio. November 27 – December 1, 2000.

Karl E. Karlstrom, Professor

Professional travel

Talk at Arizona State University, February 23.
River Trip, Problems Class, March 11-18.
Talk at University of Arizona, March 24-25.
CD-ROM Workshop, Boulder, Colorado, April 15-19.
Field work in Gold Butte area (with Mark Quigley), May 30-June 1.
E&PS 420, Advanced Field Geology, June 5-27.
Visit University of Massachusetts, Monazite Dating, July 23-31.
Research in Uinta Mountains, August 6-11.
Part of Graduate Student Seminar/Fieldtrip to Colorado, E&PS 551, August 11-17.
Grand Canyon Research Trip, Quaternary Incision and Neotectonics, September 7-17.
NMGS Fall Field Conference, October 17-21.
NSF Special Emphasis Panel (Iris), Seattle, Washington, November 1-3.
GSA Fieldtrip, Death Valley, November 9-12.
GSA National Meeting, Reno, Nevada, November 13-17.
AGU National Meeting, San Francisco, California, December 17-19.

Cornelis Klein, Professor

Professional travel

During the Annual Geological Society of America meetings, November 11-16, 2000 in Reno, Nevada, I attended as Vice President and subsequently President of the Mineralogical Society the following sessions:

MSA Management Committee, November 11.
MSA Council Breakfast, November 12.
MSA 2000 Council Meeting, November 12.
MSA 2001 Council Meeting, November 12.
MSA Council Dinner, November 12.
MSA President's Breakfast, November 13.
MSA Awards Luncheon, November 14.
MSA Business Meeting, November 14.
MSA Presidential Address, November 14.
MSA/Geochemical Society joint reception, November 14.

During the Spring AGU/MSA, I attended the joint meetings in Washington, D.C., May 30 – June 3, 2000, and the Spring Council meeting, of MSA as Vice President.

Barry S. Kues, Professor

Sabbatical leave

Spring, 2000.

Professional travel

New Zealand, geological observations and photography, December 17, 1999 - January 4, 2000.
Oscura Mountains, stratigraphy/paleontology research, January 20.
Oscura Mountains, stratigraphy/paleontology research, February 4.
Oscura Mountains, stratigraphy/paleontology research, February 16.
El Paso area and Derry Hills, stratigraphy/paleontology research, February 18-20.
Lucero uplift, stratigraphy/paleontology research, March 3.
Oscura Mountains, stratigraphy/paleontology research, March 20.
New Mexico Geological Society Spring meeting; presented 2 papers, April 7.
San Andres Mountains, stratigraphy/paleontology research, April 20-24.
Taos area, stratigraphy/paleontology research, May 21.
Taos area, stratigraphy/paleontology research, July 9.
Tucumcari/Amarillo areas, road-logging and stratigraphy/paleontology research, August 4-6.
Joyita Hills, stratigraphy/paleontology research, September 29.
Southern San Andres Mountains, stratigraphy/paleontology research, October 12-14.

Grant A. Meyer, Assistant Professor

Professional travel

Oregon State University, Corvallis, Oregon, invited talk, February 10, 2000.
Portland State University, Portland, Oregon, invited talk, February 23, 2000.
Central Nevada, reconnaissance for geomorphology research, March 22-24, 2000.
University of Washington, Seattle, presented paper, May 3-5, 2000.
Central Idaho, geomorphology research, June 10-17, 2000.

Cerro Grande fire area, Los Alamos, geomorphology research, July 2-3, 2000.
Grants-Mt. Taylor area, reconnaissance for geomorphology research, July 14-16, 2000.
Chinle-Blue Gap Arizona area, geomorphology research, September 22-24, 2000.
Geological Society of America Annual Meeting, Reno, Nevada, presented talk, attended division and AMQUA business meetings, November 10-18, 2000.

Leslie D. McFadden, Chair and Professor

Professional travel

Fieldwork in the central Mojave Desert, California, February 25-26.
Fieldwork and overview of M.S. graduate student's research in NE Arizona, March 13-14.
Fieldwork in the Sevilleta Wildlife Refuge, New Mexico, May 4.
Fieldwork in the West Mesa Folsom Man archeological site, near Rio Rancho, New Mexico, May 16-23.
Fieldwork in the NE Arizona, June 5-6.
Fieldwork in the western Mojave Desert and overview of Ph.D., graduate student's research, June 13-16.
Fieldwork on the West Mesa "Boca Negra"site, near Rio Rancho, New Mexico, June 28 and July 7.
Presentation of paper at Ghost Ranch Conference Center, New Mexico, July 27.
Fieldwork and overview of M.S. graduate student's research in NE Arizona, September 22-24.
Participation in and presentation of invited paper at the NSF-CTEP symposium, Albuquerque, New Mexico, October 18.
Presentation of invited paper at the Binghamton Symposium in Geomorphology, Binghamton, New York, October 12-15.
Attend Geological Society of America Annual Meetings, Reno, Nevada, November 12-16.
Review fieldwork, research of Ph.D. graduate student, western Mojave Desert, California, November 12-13.

Horton E. Newsom, Research Professor

Professional travel

XXI Lunar and Planetary Science Conference, Houston, Texas, presented one talk and one poster session, chaired one session, March 14-19, 2000.

Visited NASA Headquarters in Washington D.C., and met with the program director for PACE, Dr. Maryanne Stoutsenberger, July 25, 2000.

Attended the NASA MU-SPIN conference in Atlanta, Georgia and presented one invited talk "Fun is not enough, encouraging middle school students to pursue careers in MSET", September 11-14, 2000.

Attended the annual Meeting of the Division of Planetary Sciences of the American Astronomical Society, in Pasadena, California, October 25-27, 2000.

Aurora Pun, Post-Doctoral Scientist

Professional travel

Attended Tucson Gem and Mineral Show, Tucson, Arizona, February 2000.
Attended Albuquerque Gem and Mineral Show, March 2000.

Frans J.M. Rietmeijer, Research Professor

Professional travel

Lunar and Planetary Institute, Houston, Texas, January 13-17, 2000.
Space 2000 and Robotics 2000, Albuquerque, New Mexico, February 27-March 2, 2000.
31st Lunar and Planetary Science Conference, Houston, Texas, March 12-17, 2000.
University of Kent, Canterbury, United Kingdom, April 9-14, 2000.
University of Tel Aviv, Tel Aviv, Israel, April 15-20, 2000.
University of Amsterdam and the Free University of Amsterdam, Amsterdam, the Netherlands, November 4-12, 2000.

Mousumi Roy, Assistant Professor

Professional travel

Pennsylvania State University, State College, Pennsylvania.
University of South Carolina, Columbia, South Carolina.
Harvard University, Cambridge, Massachusetts.
Massachusetts Institute of Technology, Cambridge, Massachusetts.
February 2000: 4 trips.

University of Oregon, Eugene, Oregon.
Arizona State University, Phoenix, Arizona.
March 2000: 2 trips.

University of Colorado, Boulder, Colorado.
University of Illinois, Urbana-Champagne.
New Mexico Tech, Socorro, New Mexico.
April 2000: 3 trips.

Scripps Institution of Oceanography, La Jolla, California - collaboration meeting, May 2000.
National Earthquake Hazards Reduction Program meeting, Portland, Oregon, July 2000.
California Institute of Technology, Pasadena - collaboration meeting, August, 2000.

San Diego State University, San Diego, California.
Puerto Vallarta, Mexico (NSF MARGINS Workshop).
Palm Springs, California (NSF Plate Boundary Observatory Workshop).
October, 2000: 3 trips.

Reno, Nevada for the annual Geological Society of America meeting, November, 2000.

Off campus teaching

Instructor for SAGE (Summer of Applied Geophysical Experience) – operated by Los Alamos National Laboratory and the University of California; one week of summer salary funded by the National Science Foundation.

Jane Selverstone, Professor

Professional travel

GSA Division Chairs' meeting, Boulder, Colorado, February 26-27, 2000.

Geological Society of London conference on Fault Zone Weakening and Reactivation Processes, London, England, March 4-11, 2000.
Attended conference in München and conducted geologic fieldwork in the Alps, Germany, Austria and Italy, July 2000.
Geological Society of America annual meeting, Reno, Nevada, November 11-16, 2000.

Zachary Sharp, Associate Professor

Field work

One week with Toti Larson (Truchas Mountains, New Mexico), 2000.
Ten days with Andy DuFrane (Wind River Range, Wyoming), 2000.

Michael N. Spilde, Research Scientist III.

Professional travel

Field work in Lechuguilla Cave, Carlsbad Caverns National Park, January 12-16, 2000.
Guadalupe Mountains, New Mexico for field sampling in several caves, March 3-5, 2000.
First Annual Astrobiology Meeting, NASA Ames Research Center, California, April 2-5, 2000.
Field sampling at Barrancas and Spider Caves and presented talk at Carlsbad Caverns National Park, April 14-16, 2000.
Field sampling and interview/photo shot with Houston Chronicle reporter in Spider Cave, Caverns National Park, May 21-23, 2000.
Annual Meeting of the National Speleological Society, Elkins, West Virginia, June 25-30, 2000.
Field work in Barrancas Cave, Guadalupe Mountains, New Mexico, August 10-13, 2000.
Field sampling in Spider Cave, Carlsbad Caverns National Park, October 13-15, 2000.
Annual Meeting of the Geological Society of America, Reno, Nevada, November 12-17, 2000.
Field work in Barrancas Cave, Guadalupe Mountains, New Mexico, November 22-26, 2000.
Traveled to El Malpais National Park with BBC film crew to film in lava tube caves, December 1, 2000.

Gary A. Smith, Professor

Professional travel

Field trip in Jemez Mountains for Dr. Julius Dasch, NASA, January 31.
Attended Tucson Gem And Mineral Show, Tucson, Arizona, February 9-14.
Attended New Mexico Geological Society Spring Meeting, Socorro, April 7.
Led field trip to Tent Rocks for the Albuquerque Geological Society and UNM Geology Club, April 22.
Planning field trip to Abiquiu-Ghost Ranch for CETP workshop, April 24.
Information trip for media to UNM's Young Ranch, May 24.
Field research in Peralta Canyon, Jemez Mountains, June 9-11.
Field research in Santa Fe and Rio Arriba Counties, NM, July 7-12.
Attended SEPM/IAS Research Conference, "Environmental Sedimentology: Hyrdogeology of Sedimentary Aquifers", Santa Fe, New Mexico, September 24-27.
Attended New Mexico Geological Society Fall Field Conference, Lordsburg and Deming, New Mexico, October 18-21.

10. PUBLIC SERVICE
(Calendar Year 2000)

Yemane Asmerom, Associate Professor

Amnesty International; The Sierra Club; UNM Earth Day.

M. Susan Barger, Adjunct Professor

Negotiated the gift and transfer of the Kedra Deerenee Lovette Library from Baltimore, MD to the Gerald R. Ford Regional Conservation Center, Nebraska State Historical Society, Omaha, Nebraska: 11,000 volumes on paper, paper making and related technologies and paper and book conservation.

Talk given, "How to Give Things Away," El Castillo Retirement Residence, Santa Fe, New Mexico, April 27, 2000.

Adrian Brearley, Associate Professor

Participated in meteorite display for Astronomy Day at Winrock Mall, Albuquerque, April, 2000.

Identified numerous suspect meteorites and provided information on meteorites for members of the public from both within and outside New Mexico.

Interviewed for article in Discover Magazine about Meteorites.

Michael E. Campana, Professor

Occasionally provided water resources and related information to the general public.

Volunteer, Lifewater International, and Team Leader - Panama Project, which seeks to develop potable water supplies for the Epera Indians. Spent three weeks in country during 2000 training Indian well drilling crew, locating drilling sites, purchasing supplies, etc.

Member, Intel Corporation Community Advisory Panel.

Laura J. Crossey, Professor

Member of the New Mexico Partnership for Math and Science Education.

Wolfgang E. Elston, Senior Research Scientist

Reviewed paper for Geochimica et Cosmochimica Acta.
Responded to inquiries by the public about geologic topics.

Peter J. Fawcett, Assistant Professor

Interviewed by Science reporters for the Albuquerque Journal, Albuquerque Tribune.

Tobias Fischer, Assistant Professor

Interview with Canadian TV reported about volcanoes.
Interview with book journalist about Galeras Volcano.
Provided middle school teacher with tectonic plate motion data.
Participation in Earth Day.
Interview with New Scientist journalist about Kudryavy Volcano.
Interview with BBC crew about a possible show on "Horizon" about Mining Volcanoes.
Supervision of High School Student who is working in my laboratory for 5 hrs/week.

John W. Geissman, Professor

Alumni Advisory Board, University of Michigan.
Worked with the Career Enrichment Center, APS, to establish "Geology of New Mexico".
Geoscience Advisor, Albuquerque Petroglyphs National Monument committee.
Geologic field excursion leader, miscellaneous Elementary school groups.
Participant, Jefferson Middle School, Special Educational Events Day.
Participant, Rio Rancho High School Career Days.
Three public interest talks, New Mexicans for Science and Reason, Rio Grande Civitan Club, Manzano del Sol Retirement Center.
Member, Project Dragonfly, National Forum for Young Investigators.
Member, Coalition for Excellence in Science Education.

David Gutzler, Professor

Member, Science Advisory Committee for U.S. Rep. Heather Wilson (NM district 1).

John Husler, Research Scientist III.

Guided and provide equipment for four science fair students.
Chemical demonstration to Mark Twain Elementary school students.
Lecture on sound to Mark Twain Elementary students.
Organized a four day fence-building project for orphanage in Juarez, Mexico.
Worked with youth at La Mesa and Rio Rancho Presbyterian Churches.

Rhian Jones, Senior Research Scientist

Coordinated and gave tours of Meteorite Museum for visiting school students, UNM classes, and community groups.
Identified about 200 suspect meteorites and answered enquiries about meteorites for members of the public.
Gave talk about meteorites to the Friends of Paleontology, Natural History Museum, July 19, 2000.
Coordinated meteorite exhibit at Albuquerque Gem and Mineral Show, March 23-26, 2000.
Coordinated meteorite exhibit at Astronomy Day, Coronado Mall, April 29, 2000.
Interviewed in the Meteorite Museum by Bill Wood, Channel 13 news. March 1, 2000.

Karl E. Karlstrom, Professor

Delivered talk at Albuquerque Gem and Mineral Society.
Delivered talk at Los Alamos Geological Society.

Cornelis Klein, Professor

Talk entitled "Some Impressions on Southern Africa", December 1, 2000 to the E&PS Geology Club at the Friday Green Seminar.
Hosted Professor Clark Johnson, University of Michigan, January 26-29, 2000, as one of our Colloquium (401) speakers. He spoke on "Iron isotope biosignatures".

Hosted Caswell Silver Distinguished Lecturer Professor J. William Schopf, UCLA, October 26-30. He gave two lectures at UNM entitled "Earth's earliest fossils: Solution to Darwin's dilemma" and "Disparate rates, differing fates: the rules of evolution has changed from the Precambrian to the Phanerozoic." On October 30 he gave a talk entitled "Evolution vs. Creationism" at the Rotary Club of Albuquerque.

Arranged with Kash Heitkamp (Librarian at Centennial) a book exhibit for the spring semester featuring the long history of publication of the Manual of Mineralogy, dating back to J.D. Dana at Yale, 1848.

Member of the Rotary Club of Albuquerque, since 1990.
Member of the Program Committee of the Rotary Club of Albuquerque.

Barry S. Kues, Professor

Identified geological specimens and answered geological questions for the public.

Leslie D. McFadden, Chair and Professor

Participating member, Coalition for Excellence in Science Education (CESE).

Responded to several requests for advice and assistance from the public concerning issues related to soils and geology.

Horton E. Newsom, Research Professor

Developed educational outreach and teacher training initiatives for the Institute of Meteoritics: We have received funding from the Space Telescope Science Institute, the New Mexico Collaborative for Excellence in Teacher Preparation, and the Minority University Education and Outreach Division of NASA. In particular, the UNM PACE project has successfully demonstrated the valuable role that our University-based outreach program can have in improving student attitudes about science and technology. The total number of students reached by the program last year was greater than 4,000. We have worked primarily with student groups from the New Mexico Math Engineering Science Achievement (NM MESA) program. The approach takes advantage of the unique facilities at the University of New Mexico, such as the scanning electron microscope, and our Meteorite Museum. Our program also provides role models for the students in the form of a diverse population of undergraduates, graduate students, and university faculty. An important synergistic element of the program is the inclusion of programs for both students and teachers. Another key element is the use of evaluation instruments to better understand the needs of the students, and to guide future efforts.

Assistant Scoutmaster, Merit Badge Advisor, Boy Scout Troop 119, Albuquerque NM.

Matthew Nyman, Natural Science Coordinator

Developed lab manuals for High School and Middle School Earth Science Classes.
Organized seminar for Middle School Earth Science, Summer 2000.
Science Fair Judge, San Antonito Elementary School, April 2000.

James J. Papike, Director (Institute of Meteoritics) and Professor

Numerous discussions with the media concerning planetary issues.

Aurora Pun, Post-Doctoral Scientist

Provided tours of the Meteorite and Geology Museums, Department Earth and Planetary Sciences.

Frans J.M. Rietmeijer, Research Professor

Volunteer IOM Exhibit for the "Astronomy Day at the Mall", April 29.

Lecture "Sampling comets and Asteroids" to the Albuquerque Gem and Mineral Club, New Mexico Museum of Natural History, September 25.

Identification of an Alabama rock find (report to D. Spalding, Sandia National Laboratories, Albuquerque) (in collaboration with Dr. R. Jones, IOM).

Identification of a metallic objected found on Aruba (in collaboration with Dr. R. Jones, IOM).

Jane Selverstone, Professor

Judge, Earth Science Division, Northwestern Regional Science Fair, March 17, 2000.

Taught classes on rock cycle, with critical thinking exercises, to four 6th grade science classes (110 students), Taft Middle School, April, 2000.

Zachary Sharp, Associate Professor

Served as NSF Review Panelist, Petrology and Geochemistry (2000).
Judge for Department of Energy, Basic Earth Science panel (2000).
Awards committee member, Mineralogical Society of America (1998, 2000).
Science teaching at Zuni elementary school.
Coordinating development of Departmental brochure.
Participant for "Society of Mexican American Engineers and Scientists" annual meeting (2 times).
Board Member, European Society of Isotope Research.

Michael N. Spilde, Research Scientist III.

Conducted Microprobe and SEM lab tours and demonstrations for several elementary and junior high school groups.
Examined mineral and meteorite specimens for the public.

Gary A. Smith, Professor

Identification of mineral and fossil specimens for department visitors.
Provision of rock and mineral specimens to Albuquerque Public Schools teachers.
Provided geological rationale to the U.S. Bureau of Land Management for establishing the Kasha-Kasuwe Tent Rocks National Monument.

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IV. GRADUATE PROGRAMS AND STUDENT SCHOLARSHIPS
(Calendar Year 2000-2001)

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SUMMARY OF THE GRADUATE PROGRAM

As noted in the introductory section of this annual report, the total number of graduate students has increased significantly in the past few years, rising from 42 students in the Fall of 1997 to 55 by the Spring of 2000. As of the Fall of 2000, 55% of the graduate students were women. Twenty-five percent of the graduate students are in the doctoral program. Relevant data for the graduate program are included in Tables 1-3 and other lists (i.e. scholarship and award recipients) included in this section.

The Department of Earth and Planetary Sciences regards the education and training of graduate students as modern scientists, as important and integral teaching and research functions. Through classrooms, laboratory, and field experiences, graduate students acquire the mentoring, expertise, and skills required to become successful professional scientists in a spectrum of employment opportunities, including industry, environmental and geological consulting companies, governmental organizations, and academia. Individualized teaching opportunities in a broad range of undergraduate level seminars, and the opportunity to present the results of their graduate research at professional earth science meetings and in numerous publications all further enhance interpersonal skills and abilities of graduate students to discuss their knowledge of and research in earth and planetary science in a range of settings and situations.

Over the past decade, we believe the quality of the graduate program has increased in several key ways. For example, in the past year, five of our graduate students won prestigious national, fellowships or awards, including Christopher Herd (NASA Graduate Fellowship); Jaime Barnes (NSF Graduate Fellowship), incoming graduate student Lynne Elkins (National Defense Scholarship), Martha Eppes (GSA Quaternary Geology and Geomorphology Division "Kirk Bryan Award"); and Kate Jones (The Amelia Earhart Zonta International Scholarship). Other graduate students won scholarships or awards from Sigma Xi, the Geological Society of America, the American Association of Petroleum Geologists, and the New Mexico Geological Society and the New Mexico Space Grant Consortium. In addition, two of our students, Lysa Chizmadia and the aforementioned Martha Eppes won an important internal (UNM) award, the prestigious Office of Graduate Studies Fellowship. Other graduate students were successful in winning SRAC awards in support of their research and related travel.

As might be expected from graduate students of this caliber, they have also succeeded in publishing numerous papers in many journals, some as senior authors and some in very prestigious journals in the earth sciences. They are also co-authors on numerous published abstracts. Such student co-authors are indicated by an asterisk in papers included in section III. A survey of this information shows that no fewer than a dozen graduate students appear as co-authors. A few students, such as Kate Zeigler, published papers with adjunct professors in the Department, such as Dr. Spencer Lucas.

TABLE 1. Master's, Doctoral , and Bachelor Students, Fall, 2000 – Spring, 2001.

M.S. Students

(2000)

Catherine L. Jones
David K. Mitchell
Devin A Etheredge
Dezbah A. Tso
Jessica D. Moore
Marcia L. Jensen

(2001)

Aaron J. Cavosie
Justin J. Hagerty
Laura B. Hagan

Doctoral Students

Deborah Bergfeld
Gordon Neal Keating
Timothy Wawrzyniec

Carol M. Dehler
Christopher D.H. Herd
Colin A. Shaw

Bachelor of Arts

Adam S. Erenstein
Eric J. Wilkins
Marisa L. Salazar
Maxwell J. Consola

Jason L. Ray
Michael D. Cook
Sally S.C. Johnson

Bachelor of Science

David L. Johnson
Diana B. Strickland (Dept. Honors)
Emily E. Clary
Elizabeth S. Langenburg (Dept. Honors)
Joan M. Otahal (Dept. Honors)
Kathleen E. Dotson (Dept. Honors)
Michael Leger
Richard M. Ortiz (Dept. Honors)

Anna C. Morzinski
Carolyn J. Aramovich (Dept. Honors)
Justin M. Christofferson
John F. Thorne
Kendra L. Keepers
Nancy H. Natek (Dept. Honors)
Steven A. Rogers (Dept. Honors)
Serenity Nehring

...BLE 2. Department of Earth and Planetary Sciences – Summary of Graduate Student Admissions, Fall 2000-2001, Spring 2000-2001. UG – Undergraduate; G = Graduate.

SPRING 2000 GRADUATE APPLICANTS									
APPLICANTS TOTAL		ADMITTED		% ADMITTED		ACCEPTED		% ADMITTED / ACCEPTED	
1	MS	1	MS	100%	MS	1	MS	100%	MS
1	PHD	1	PHD	100%	PHD	0	PHD	0 %	PHD
2	TOTAL	2	TOTAL	100%	TOTAL	1	TOTAL	50%	TOTAL

FALL 2000 GRADUATE APPLICANTS									
APPLICANTS TOTAL		ADMITTED		% ADMITTED		ACCEPTED		% ADMITTED / ACCEPTED	
51	MS	21	MS	41%	MS	12	MS	57%	MS
16	PHD	11	PHD	69%	PHD	7	PHD	64%	PHD
67	TOTAL	32	TOTAL	48%	TOTAL	19	TOTAL	59%	TOTAL

SPRING 2001 GRADUATE APPLICANTS									
APPLICANTS TOTAL		ADMITTED		% ADMITTED		ACCEPTED		% ADMITTED / ACCEPTED	
1	MS	1	MS	100%	MS	1	MS	100%	MS
1	PHD	1	PHD	100%	PHD	1	PHD	100%	PHD
2	TOTAL	2	TOTAL	100%	TOTAL	2	TOTAL	100%	TOTAL

TABLE 3. Earth and Planetary Sciences – Sources and Amounts of Support for Graduate Students, July .. June 30, 2001.

Type of Support	Amount of Support ($ x 1000)
1. University	
Departmental Teaching Assistantships (salary*)	$ 183,000
Tuition Waiver (T.A.'s)	32,000
TOTAL	$ 215,000
2. Department	
Research Assistantships (Salary)	$ 174,000
TA Tuition	41,000
Silver/Kelley Fellowship and Research Support	32,200 + 6000
Alumni Fund and other Fellowships	26,000
TOTAL	$ 279,200.
TOTAL	$ 494,200.

Many Graduate and Undergraduate students were supported by scholarships, fellowships, and other awards during the 2000-2001 year fact are mentioned in the UNM Foundation and that totals almost $50,000. Many scholarships are derived from various funds that have been established for thispurpose by alumni and other friends of the Department. The Department augments these awards with travel scholarships that partially offset the expenses of traveling to professional meetings (and often provides free use of vehicles to these meetings), and other scholarships supporting use of the analytical instruments and other research expenses. Recipients of these awards are listed below.

Undergraduate Scholarships and Awards

Harry and Mabel Leonard Scholarship

(2000)

Catalina Bryant	Elva Carey	Kelly Clayton	Crystal Dodson
Joshua Johnson	Elizabeth Langenburg	Kenneth Marshall	Serenity Nehring
Steven Rogers	Rachel Shelble	Sharon Sparks	John Thorne
Eric Wilkins	Dayna Willwerth		

(2001)

Carrie Aramovich	Clarke Conde	Crystal Dodson	Linda Doran
Shannon Duran	Blake Eldridge	Eileen Embid	Leandro Habib
James Hyatt	Danielle Katcher	Nathan Kolb	Michelle Leister
Celina Martinez	Kenneth Marshall	Nancy Natek	Andrew Roarke
Chrys Ross	Rachel Schelble	Beth Snesko	Sharon Sparks
Dayna Willwerth	Nicole Zayas		

General Thomas Campbell Scholarships

(2000)

Carolyn Aramovich	Linda Brown	Kathleen Dotson	Eileen Embid
James Hyatt	Dave Johnson	Sally Johnson	Nancy Natek
Richard Ortiz	Joan Otahal	Jason Ray	Marisa Salazar
Tamara Sciacca	Diana Strickland	John Whalen	Nicole Zayas

(2001)

Elva Rae Carey	Kelly Clayton	Leandro Habib	Nathan Kolb
Michelle Leister	Celina Martinez	Rachel Schelble	Beth Snesko
Sharon Sparks			

James Drew Pfeiffer Memorial Award

Linda Brown (2000) James Hyatt (2001)

Outstanding Student of the Year Award

Stuart A. Northrop, Outstanding Senior (Brunton Compass) – Kathleen Dotson (2000), Nancy Natek (2001).
Sherman A. Wengerd, Award (Hand Lens) – Nancy Natek (2000), Eileen Embid (2001).
J.P. Fitzsimmons, Award (Estwing Hammer) – Rachel Schelble (2000), Beth Snesko (2001)
V.C. Kelly Outstanding Field Geologist – (Estwing Hammer) – Elizabeth Langenburg (2000), Steven Rogers (2001).

Other Undergraduate Student Awards

Patrick and Jean McKinney Gratton Fellowship: Susan Block (2000); Carol Dehler (2001).
New Mexico Geological Society Beverly Wellnitz Memorial Scholarship: Chris Herd (2000); Toti Larson (2001).
New Mexico Geological Society, Lucille H. Pipkin Undergraduate Award: Eileen Embid, Nancy Natek, Richard Ortiz (2000); Nancy Natek (2001).
Paleontological Society of America Award: Kate Zeigler, Marcia Jenson (2000).
Hoover Mackin Award: Missy Eppes (2000).
Southern California Earthquake Center Award: Nancy Natek (2000).
Jerry Harbour Memorial Endowed Scholarship: Jeremy Weiss (2001).
Paul Kukla Memorial Scholarship: Missy Eppes (2001).
New Mexico Geological Society, Lucille H. Pipkin Book Scholarship: Carrie Aramovich, Anna Morzinski, Nicole Zayas (2001).

Several undergraduate students graduated with Departmental Honors, which requires original research, and Honors Thesis on this research, and a presentation to the Department. These students are:

Kathleen E. Dotson, magna cum laude, Spring, 2000 – Geochemical Investigations at Carlsbad Caverns National Park: Implications for the Origin of Cave Corrosion Residue (Dr. Laura J. Crossey and Dr. Cliff Dahm, Advisors).

Elizabeth S. Langenburg, cum laude, Spring, 2000 – The Depositional and Digenetic History of Chuar Group Dolomites, Eastern Grand Canyon, Arizona (Dr. Maya Elrick, Advisor).

Richard M. Ortiz, cum laude, Spring, 2000 – Interannual Geochemical Variations of a Shallow Alluvial Aquifer (Dr. Laura J. Crossey, Advisor).

Joan M. Otahal, magna cum laude, Spring, 2000 – Alluvial Aquifer Metal Precipitates within a Mineralized Region, Northern New Mexico (Dr. Laura J. Crossey, Advisor).

Diana B. Strickland, summa cum laude, Fall, 2000 – Proterozoic Evolution in the Zuni Mountains, New Mexico: Peridotites, Granites, Shear Zones, and Reactivation History Through the Present (Dr. Karl E. Karlstrom and Dr. Jane Selverstone, Advisors).

Carolyn J. Aramovich, magna cum laude, Spring, 2001 – Possible Causes for Late-Stage Reaction Textures Associated with Pyroxferroite and Metastable Pyroxenes in the Basaltic Martian Meteorites (Dr. James J. Papike, Advisor).

Sally S.C. Johnson, cum laude, Spring, 2001 – Fish of the Kinney Quarry, (Late Pennsylvanian), Central New Mexico (Dr. Barry S. Kues and Dr. Spencer Lucas, Advisors).

Nancy H. Natek, summa cum laude, Spring, 2001 – Constraints on the Southern California Earthquake Center (SCEC) Velocity Model: Gravity Modeling in Southern California (Dr. Mousumi Roy, Advisor).

Steven A. Rogers, cum laude, Spring, 2001 – New Structural Interpretation and Constraints on Timing of Deformation in the Central Manzano Mountains, New Mexico (Dr. Karl E. Karlstrom, Advisor).

Graduate Student Scholars and Awards

Geology Alumni Fellowship Fund

(2000)

Jake Armour	Nicole Bailey	Susan Block	Peter Castiglia
Alex Castrounis	Aaron Cavosie	Missy Eppes	Mike Gaud
Tim Gere	Senait Ghebremicael	Marcia Jensen	Michelle Kearney
Toti Larson	Annie McCoy	Mark Quigley	Michael Timmons
Anne Tillery	Kate Zeigler		

(2001)

Neyda Abreu	James Ashby	Nicole Bailey	Jaime Barnes
Peter Castiglia	Alex Castrounis	Aaron Cavosie	Lysa Chizmadia
Carol Dehler	Andy DuFrane	Senait Ghebremicael	Dale Henderson
Micah Jessup	Annie McCoy	Rick Ortiz	Lin Pan
Melissa Pfeffer	Mark Quigley	Jason Rampe	Anne Tillery
Michael Timmons	Amanda Tyson	Kate Zeigler	Mindy Zimmer

Jean-Luc Miossec Memorial Scholarship (Geomorphology/Sedimentology)

Anne Tillery (2000)
Nicole Bailey (2001)
Rick Ortiz (2001)

Vincent C. Kelley Scholarship

Andy Heckert (2000)
Christopher Herd (2001)

Richard P. Vann Memorial Scholarship (Paleontology)

Kate Zeigler (2000)
Shirley Libed (2001)

Rodney C. Rhodes Memorial Scholarship

Melissa Pfeffer (2001)

Alexander and Geraldine Wanek Scholarship

(2000)

Senait Ghebremicael
Annie McCoy
Michelle Kearney
Mark Quigley

(2001)

Aaron Cavosie
Annie McCoy
Mark Quigley
Senait Ghebremicael
Lin Pan
Mindy Zimmer

Sherman A. Wengerd Traveling Fellowship

(2000)

Peter Castiglia — Aaron Cavosie
Missy Eppes

(2001)

Peter Castiglia — Micah Jessup
Michael Timmons

Graduate Student Awards – Professional Organizations

Albuquerque Gem and Mineral Club Scholarship

Nancy Natek (2000)

James Hyatt (2001)
Rachel Schelble (2001)

New Mexico Geological Society, Outstanding Senior Award

Kathleen E. Dotson (2000)

Nancy Natek (2001)

New Mexico Geological Society, Fall Field Conference Scholarship

Susan Lucas (2000)
Michelle Kearney (2000)

Linda Doran (2001)
Toti Larson (2001)

Sigma Xi, Ph.D., Award

Andy Heckert (2000)

Geological Society of America Grants

(2000)

Peter Castiglia
Toti Larson
Michael Timmons

Alex Castrounis
Anne Tillery

Colorado Scientific Society Award (2000)

Jake Armour

Los Alamos National Laboratories, Field Conference Award

Sally Johnson (2000)

Cindy Gallagher (2001)

Association for Women Geoscientists Award

Kathleen Dotson (2000)	Nancy Natek (2001)
Angela McLain (2000)	Carol Dehler (2001)

UNM Office of Graduate Studies Graduate Fellowships (2000)

Peter Castiglia	Justin Hagerty
Michelle Kearney	Annie McCoy

Graduate Degrees Awarded

The following students received M.S. and Ph.D. degrees in Earth and Planetary Sciences, between Fall 2000-2001 and Summer 2000-2001. Thesis/dissertation titles and faculty advisors are also indicated.

Master of Science

Devin A. Etheredge, Fall, 2000 – The Role of the North American Monsoon in the Landscape Evolution of the Southwest United States (Dr. David Gutzler, Advisor).

Marcia L. Jensen, Fall, 2000 – Oxygen Isotope Analysis of Sympatric Crocodile and Theropod Tooth Enamel: Evidence for Ectothermic Theropod Dinosaurs (Dr. Zachary Sharp, Advisor).

Catherine L. Jones, Fall, 2000 – Aqueous Alteration of Chondritic Meteorites: Insights from Experimental Low Temperature Hydrothermal Alteration of Allende (Dr. Adrian J. Brearley, Advisor).

David K. Mitchell, Fall, 2000 – Stream Power and Incision of Five Mixed Alluvial-Bedrock Streams, Northern New Mexico (Dr. Frank J. Pazzaglia and Dr. Peter Fawcett, Advisors).

Jessica D. Moore, Spring, 2000 – Tectonics and Volcanism During Deposition of the Oligocene – Lower Miocene Abiquiu Formation, Northern New Mexico (Dr. Gary A. Smith, Advisor).

Dezbah A. Tso, Spring, 2000 – Uranium Mass Transfer and Groundwater Mixing as Determined by $\delta^{234}U$ Measurements at the Tuba City Uranium Mill Tailings Remediation Action Project (UMTRAP) Site Northeastern Arizona (Dr. Yemane Asmerom, Advisor).

Aaron J. Cavosie, Spring, 2001 – Tectonic Evolution of an Early Proterozoic Ophiolite Fragment and Stable Isotope Study of Co-Existing Aluminum Silicates in Quartz Veins, Northern Colorado Front Range (Dr. Jane Selverstone, Advisor).

Laura B. Hagan, Spring, 2001 – Natural and Mining-Related Sources of Metal Contamination, Red River, Northern New Mexico: A Hydrogeochemical Investigation of Surface Water and Groundwater (Dr. Laura J. Crossey, Advisor).

Justin J. Hagerty, Spring, 2001 – Hydrothermal alteration at the Lonar Lake impact structure: Implications for impact cratering on Mars (Dr. James J. Papike and Dr. Horton Newsom, Advisors).

Doctor of Philosophy

Deborah Bergfeld, Fall, 2000 – Geothermal Systems and CO_2 Degassing: The Geysers-Clear Lake, and Dixie Valley Regions of California and Nevada (Dr. Laura Crossey and Dr. Fraser Goff, Advisors).

Gordon Neal Keating, Spring, 2000 – Multiphase Thermal Modeling in Volcanic and Contact Metamorphic Terranes (Dr. Gary A. Smith, Advisor).

Timothy J. Wawrzyniec, Fall, 2000 – Dextral Transcurrent Deformation of the Eastern Margin of the Colorado Plateau (USA) and the Mechanics of Footwall Uplift Along the Simplon Normal Fault (Switzerland/Italy). (Dr. Jane Selverstone, and Dr. John W. Geissman, Advisors).

Carol M. Dehler, Spring, 2001 – From Supercontinent Rifting to a "Snowball" Earth? Insight from the Neoproterozoic Chuar Group (~800 – 742 Ma), Eastern Grand Canyon, Arizona (Dr. Maya Elrick, Advisor).

Christopher D.K. Herd, Spring, 2001 – Insights into Martian Magmatism Gained from Martian Meteorites: Emphasis on Spinel, Olivine, and Phase Equilibria Studies (Dr. James J. Papike, Advisor).

Colin A. Shaw, Spring, 2001 – Genesis and Evolution of Proterozoic Crustal Boundaries in the Southern Rocky Mountains" (Dr. Karl E. Karlstrom, Advisor).

Outcomes

Study in the Department's graduate programs prepares students for a wide variety of careers in the geosciences and related fields. Below are listed the positions obtained by Ph.D. and M.S. students who graduated in 2000-2001:

Ph.D.

• Deborah Bergfield	Employed with Los Alamos National Laboratory (LANL).
• Gordon Neal Keating	Post-Doc Research Assistant at Los Alamos National Laboratory (LANL).
• Timothy Wawrzyniec	Research Scientist at the Bureau of Economic Geology at the University of Texas, Austin.
• Carol M. Dehler	Research Assistant Professor at Utah State University.
• Christopher D.K. Herd	Post-Doc Associate at the Lunar and Planetary Institute and Johnson Space Cener, Houston.
• Colin A. Shaw	Working as visiting Assistant Professor at New Mexico Tech in Socorro in Petrology/Tectonics.

M.S.

• David K. Mitchell	USGS Geologist, Washington State.
• Jessica D. Moore	Geologist, Exxon Mobile, Houston.
• Dezbah A. Tso	Working for a DOE Contractor in Grand Junction, Colorado.
• Devin A. Etheredge	Ph.D., student at Oregon State University.
• Marcia L. Jensen	Resides in Seattle area.
• Catherine L. Jones	Working as staff Scientist in the Environmental Earth Science Group, Los Alamos National Laboratories, Espanola, NM
• Aaron J. Cavosie	Ph.D., student at the University of Wisconsin.
• Laura B. Hagan	Employed with John Shomaker Company in Albuquerque, New Mexico.
• Justin J. Hagerty	Ph.D., student at the University of New Mexico (Institute of Meteoritics). Also, Laboratory Technician in the SIMS Lab.

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V. DONATIONS TO DEPARTMENT
(Calendar Year 2000-2001)

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DONATIONS TO DEPARTMENT

January 1, 2000 to June 30, 2001 Fiscal Year

Geology Chair's Account

Mr. John L. Berkley
Dr. Theodore J. Bornhorst
Mrs. Elaine S. Brouillard
Mr. Mark R. Cameron
Mr. William C. Carrigan
Mr. William L. Chenoweth
Ms. Helen W. Folger
Dr. Sarah Brewster George
Mr. Malcolm L. Goode
Mr. Harry J. Graff
Mr. Ronald L. Hershey
Mr. Jack W. House
Ms. Birgit Landin
Mr. David A Lopez
Dr. Bill P. Lovejoy
Dr. James L. Martin
Dr. Jane Nuli Pedrick
Mr. James L. Renshaw
Mr. Brian L. Salem
Ms. Paula J. Slavin
Ms. Joyce Whelchel

Harding Pegmatite Mine

Mr. William W. Anderson
Mr. David E. Baker
Ms. Kimberly Black
Mr. Carl H. Bolton III
Ms. Linda Dalrymple
Mr. Larry A. Daniels
Ms. Deborah S. Evan
Ms. Nancy Fox
Ms. Marian Furman
Mrs. Stephen Glahn
Mr. Glen Graves
Ms. Debra Guevara
Mrs. Robert McClelland
Mr. Kevin C. Myers
Ms. Wanda Puempel
Ms. Lois Tarlow

Ernest I Rich Fund for E&PS

Mr. Ernest I. Rich

Sherman and Florence Wengerd Traveling Fellowship

Mr. Eugene R. Caprio
Mrs. Florence M. Wengerd
Exxon Mobil Foundation

Museum and Collections

Mr. George H. Fullas

Jerry Harbour Memorial Endowed Scholarship

Mrs. Carol H. Harbour

Mr. Ward A. Vandenberg
Mr. Todd A. Vanduren
Mr. Stephen B. Vardeman
Mr. Richard Warner
Dr. Samuel Watkins
The Crystal Circle, LLC

Albert M. Kudo Memorial Scholarship

Mr. and Mrs. Seth Abrahamson
Dr. Yemane Asmerom
Mr. and Mrs. F.W. Bachhuber
Mr. and Mrs. Bruce A. Black
Mr. and Mrs. Lee Brouillard
Mr. Frederick J. Carey
Mr. and Mrs. George Carnako
Dr. Tracey Cascadden
Mr. and Mrs. David M. Comer
Mr. and Mrs. Robert Cooper
Mr. and Mrs. Randall T. Cygan
Mr. Leonard J. DeLayo, Jr.
Mr. and Mrs. Harold C. Dotson, Jr.
Mr. and Mrs. Clarence H. Dykema
Mr. and Mrs. Rodney Ewing
Dr. and Mrs. Peter J. Fawcett
Mr. W.R. Fawcett
Mr. and Mrs. Frank B. Feather
Ms. Maureen Flaherty
Dr. and Mrs. Robert J. Gherardi
Mr. Robert H. Gorham, III
Dr. David S. Gutzler
Mr. and Mrs. Richard A. Haines
Mr. and Mrs. S. Hamada
Mr. and Mrs. R. Hamada
Mr. and Mrs. John Hawley
Ms. Sally Hayes
Mr. and Mrs. William E. Holub, Jr.
Mr. and Mrs. John W. Husler
Mr. and Mrs. Kenneth J. Jackson
Mrs. Anne R. Kelley
Dr. and Mrs. Cornelis Klein
Mr. and Mrs. H. Koyanagi
Mr. George Krueger
Mr. and Mrs. G.A. Kudo
Mr. and Mrs. Robin Lease
Mr. Richard P. Lozinsky
Mr. and Mrs. Leslie D. McFadden
Mrs. Nancy Natek
Dr. and Mrs. James Papike
Ms. Caryl V. Peterson
Mr. Michael Petronis
Mrs. Ruth Power
Mr. and Mrs. Donald A.M. Power
Mrs. Alice Quattrocchi
Mr. and Mrs. Otto L. Schumacher
Dr. Jane Selverstone
Mr. and Mrs. Thomas Servilla
Ms. Luann Steele
Ms. Kathleen Verhage
Mr. and Mrs. Richard G. Warren
Dr. and Mrs. Lee A. Woodward

Albert M. Kudo/Don a.
Power Memorial Scholarship

Mr. and Mrs. Wade Black
Mr. and Mrs. John F. Black
Mr. and Mrs. Robert Donatelli
Mr. and Mrs. Rusty Hiller
Mr. and Mrs. John W. Husler
Mr. E.A. Kurivchack
Mr. and Mrs. Richard Maguire
Mr. and Mrs. Brian Peterson
Mr. and Mrs. Richard W. Rice

Atkinson and Co. Ltd.
Charles Stephen and Company
Concrete Systems, Inc.
Hilltop Landscape Architects and Contractors
Jaynes Corporation
Kaufman Fire Protection System, Inc.
Kinney Agency, Inc.
Seven Bar Flying Services, Inc.
Western Building Supply Co., Inc.
Westwood Realty, LTD.

APPENDIX I

MUSEUM AND HARDING PEGMATITE LOG

2000-2001

Geology Museum Register
JULY 1, 2000 – JUNE 30, 2001

DATE	ORGANIZATION	GRADE	# OF STUDENTS	# OF ADULTS
7-5-00	ESCUELA ALEGRE PRE SCH.	PRE-SCH.	7	3
7-10-00	FIRST BAPTIST CHURCH	1ST-6TH	60	2
7-10-00	MARTINEZ TOWN	1ST-5TH	6	1
7-14-00	ISLETA COMMUNITY CENTER	1ST-5TH	40	10
JULY, 2000 TOTAL			**113**	**16**
8-22-00	UNM ELDER HOSTEL			20
AUGUST, 2000 TOTAL				**20**
9-1400	NATURAL SCIENCE UNM			22
9-14-00	FREEDOM HIGH SCHOOL	10TH – 12TH	35	2
9-19-00	CLEVELAND MID SCHOOL	8TH	100	10
9-29-00	ANNUNCIATION SCHOOL	5TH	20	2
SEPTEMBER 2000 TOTAL			**155**	**36**
10-5-00	WILSON MID SCHOOL	8TH	100	10
10-9-00	"MEXICO" HIGH SCHOOL	10TH – 12TH	60	6
10-12-00	CLEVELAND MID SCHOOL	8TH	60	5
10-19-00	ERNIE PYLE MID SCHOOL	8TH	100	10
10-23-00	UNM ELDER HOSTEL			25
10-31-00	BOSQUE MID SCHOOL	8TH	16	2
OCTOBER, 2000 TOTAL			**336**	**58**
11-2-00	BOSQUE MID. SCHOOL	6TH-8TH	17	2
11-3-00	GEORGIA O'KEEFE	1ST	50	8
11-3-00	BOSQUE MID SCHOOL	8TH	17	2
11-8-00	SIERRA VISTA	5TH	24	6
11-9-00	GEORGIA O'KEEFE	1ST	80	5
11-10-00	HOPE CHRISTIAN	5TH - 6TH	30	5
11-13-00	DARLIN ARIAS	KINDER	44	6
11-16-00	MONTE VISTA	KINDER	17	3
11-16-00	MONTE VISTA	KINDER	17	3
11-27-00	SOMBRE DEL MONTE	5TH	125	18
NOVEMBER, 2000 TOTAL			**421**	**58**
12-6-00	APACHE ELEM.	1ST	18	5
12-7-00	MITCHELL ELEM.	3RD	20	2
DECEMBER, 2000 TOTAL			**38**	**7**

Geology Museum Register
JULY 1, 2000 – JUNE 30, 2001

DATE	ORGANIZATION	GRADE	# OF STUDENTS	# OF ADULTS
1-17-01	EUGENE FIELD ELEM.	8TH	20	5
1-18-01	SAN ANTONITO	2ND	40	10
JANUARY, 2001 TOTAL			**60**	**15**
2-5-01	GRIEGOS ELEM.	5TH	23	5
2-8-01	NATURAL SCIENCES UNM			21
2-14-01	CHILDREN'S CHOICE	PRE – 5TH	60	6
2-15-01	ABQ COUNTRY DAY SCH.	3RD – 4TH	13	5
2-16-01	MONTE VISTA ELEM.	KINDER	16	5
2-16-01	MONTE VISTA ELEM	KINDER	16	5
2-20-01	COLLETTE PARK ELEM.	5TH	40	5
2-28-01	SKY DANCER MONTESORI	5TH	20	4
FEBRUARY, 2001 TOTAL			**188**	**56**
3-9-01	EMERSON ELEM.	2ND	22	2
3-14-01	COTTONWOOD MONTESORI	1ST – 2ND	24	5
3-14-01	WILSON MID SCHOOL	8TH	13	2
MARCH, 2001 TOTAL			**59**	**9**
4-6-01	LA MESA ELEM	2ND	20	2
4-12-01	VISTA MID SCHOOL	7TH	45	3
4-20-01	SANTO DOMINGO ELEM.	2ND – 3RD	60	5
4-24-01	MCCULLUN ELEM.	1ST – 2ND	92	15
4-24-01	BELLEHAVEN	2ND	24	6
4-25-01	TOME ELEM.	4TH	20	2
APRIL, 2001 TOTAL			**261**	**33**
5-1-01	HODGINS ELEM.	4TH	18	4
5-1-01	ESPANMOLA MESA MID	8TH	30	5
5-4-01	JACKSON MID SCHOOL	8TH	25	2
5-4-01	MONTE ZUMA	4TH	25	3
5-14-01	CHAPPARAL	2ND	42	7
5-15-01	LOWELL ELEM.	4TH	20	5
5-17-01	LAVALAND	4TH	20	3
MAY, 2001 TOTAL			**180**	**29**

530

Geology Museum Register
JULY 1, 2000 – JUNE 30, 2001

DATE	ORGANIZATION	GRADE	# OF STUDENTS	# OF ADULTS
6-6-01	LULAC	8TH – 9TH	30	2
6-12-01	CHILDS GARDEN	K-5	15	5
3-13-01	CHILDS GARDEN	K-5	15	5
6-18-01	UNM/NATURAL SCIENCES		0	12
JUNE, 2001 TOTAL			**60**	**24**
GRAND TOTAL JULY 2000 - JUNE 2001			**1871**	**361**

UNIVERSITY OF NEW MEXICO
DEPARTMENT OF EARTH AND PLANETARY SCIENCES
HARDING PEGMATITE MINE
VISITORS
2000 - 2001

STATE	2000						2001						STATE TOTAL
	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	
ALABAMA												12	12
ALASKA													
ARIZONA	7	7	2	2							2	5	25
ARKANSAS			2								2		4
CALIFORNIA	12		1				1			1	17	6	38
COLORADO	7	7	11	28		1			17	4			75
CONNECTICUT													
DELAWARE													
FLORIDA		12	2							2	25		41
GEORGIA		3											3
HAWAII													
IDAHO											1		1
ILLINOIS		3								2	3	5	13
INDIANA			1				6	10					17
IOWA	4												4
KANSAS	3		2							1			6
KENTUCKY													
LOUISIANA											17	17	34
MAINE		3											3
MARYLAND		2											2
MASSACHUSETTS	2	6				8						4	20
MICHIGAN	2		1	2					9				14
MINNESOTA		1											1
MISSISSIPPI											8		8
MISSOURI			3	2									5
MONTANA													
NEBRASKA													
NEVADA										2			2

UNIVERSITY OF NEW MEXICO
DEPARTMENT OF EARTH AND PLANETARY SCIENCES
HARDING PEGMATITE MINE
VISITORS
2000 - 2001

STATE	2000						2001						STATE TOTAL
	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	
NEW HAMPSHIRE				1					2				3
NEW JERSEY				7									7
NEW MEXICO	42	68	111	154	69	7	11	7	31	25	132	54	711
NEW YORK			7							5	47		59
NORTH CAROLINA									2	5	9	9	25
NORTH DAKOTA													
OHIO	3		4							1			8
OKLAHOMA			6	1				1				2	10
OREGON													
PENNSYLVANIA		7	2						13				22
RHODE ISLAND	2												2
SOUTH CAROLINA													
SOUTH DAKOTA													
TENNESSEE	2									2			4
TEXAS	63	12	15	25	3			2	10	2	17	46	195
UTAH		2	1										3
VERMONT										2		2	4
VIRGINIA	1			3								4	8
WASHINGTON	3												3
WASHINGTON D.C.													
WEST VIRGINIA													
WISCONSIN				1							1		2
WYOMING													
AUSTRIA	1												1
ENGLAND	2												2
FRANCE	2												2
GERMANY		8								2	1		11
NEW ZEALAND											1		1

UNIVERSITY OF NEW MEXICO
DEPARTMENT OF EARTH AND PLANETARY SCIENCES
HARDING PEGMATITE MINE
VISITORS
2000 - 2001

STATE	2000						2001						STATE TOTAL
	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	
RUSSIA			1										1
UNITED KINGDOM		2											2
MONTH TOTAL	158	146	172	223	72	16	18	20	84	56	283	166	1414

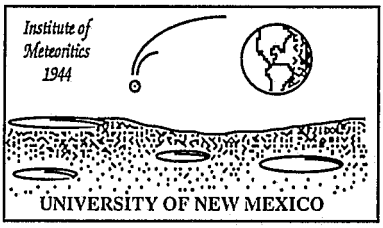
UNIVERSITY OF NEW MEXICO
DEPARTMENT OF EARTH AND PLANETARY SCIENCES
HARDING PEGMATITE MINE
COLLEGE / UNIVERSITY VISITORS
2000 - 2001

DATE	NUMBER OF VISITORS	COLLEGE / UNIVERSITY
9/24/00	25	UNM TAOS, GEOLOGY, TAOS, NEW MEXICO
10/02/00	7	NM HIGHLANDS UNIVERSITY, LAS VEGAS, NEW MEXICO
10/02/00	24	UNIV. COLORADO, BOULDER. COLORADO
10/25/00	11	UTEP, EL PASO, TEXAS
10/28/00	12	NM STATE UNIVERSITY, LAS CRUCES, NEW MEXICO
10/29/00	7	GEOSCIENCES DEPT. PRINCETON UNIVERSITY, NEW JERSEY
3/06/01	13	BUCKNELL UNIVERSITY, LEWISBURG, PENNSYLVANIA
3/10/01	9	DEPT OF GEOLOGY, COLORADO SCHOOL OF MINES, COLORADO
3/31/01	8	ADAMS STATE COLLEGE, ALAMOSA, COLORADO
5/09/01	9	DEPT. OF GEOLOGY, UNIVERSITY OF FLORIDA, GAINESVILLE, FLORIDA
5/15/01	16	DEPT OF GEOLOGICAL SCIENCES, FLORIDA STATE UNIV. TALLAHASSEE
5/21/01	17	DEPT. OF GEOLOGY & GEOPHYSICS, UNIV. NEW ORLEANS, LOUISIANA
5/22/01	47	GEOLOGY FIELD CAMP, UNIVERSITY BUFFALO, NEW YORK
5/22/01	9	UNIVERSITY OF NORTH CAROLINA, WILMINGTON, NORTH CAROLINA
5/23/01	8	UNIVERSITY OF MISSISSIPPI, OXFORD, MISSISSIPPI
6/06/01	7	UNIVERSITY OF ALABAMA, TUSCALOOSA, ALABAMA
6/23/01	21	TEXAS A & M, GEOLOGY FIELD CAMP, TEXAS
6/29/01	17	LOUISIANA STATE UNIVERSITY, GEOLOGY DEPT., BATON ROUGE, LOUISIANA
2000 – 2001	**267**	**COLLEGE / UNIVERSITY VISITORS TOTAL**

The Annual Report of

THE INSTITUTE OF METEORITICS

JULY 1, 2000 THROUGH JUNE 30, 2001



James J. Papike, Director

Institute of Meteoritics
Department of Earth and Planetary Sciences
University of New Mexico
Albuquerque, NM 87131-1126, USA

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INTRODUCTION

The Institute of Meteoritics (IOM) founded in 1944, is one of the oldest institutions of its kind in the world. The Institute continues its role as a leading center in research relating to planetary materials and processes. Charter goals of the IOM are:

1. To carry out research in the detailed laboratory analysis of meteoritic and other planetary materials and in other fields of planetary sciences.

2. To provide materials, facilities, and supervision for research by candidates for advanced degrees in planetary sciences. To offer instruction in areas as may be approved through the appropriate academic procedures and channels.

3. To promote the identification and acquisition of meteorites. To participate in exchange programs as may enhance the representative scope and scientific value of the Institute's collections of meteorites. To preserve and place on public exhibition both meteorites and related meteoritic materials and to make these materials available to scientists working in fields closely allied to meteoritics.

Research at the Institute of Meteoritics covers a wide range of problems, including studies of evolutionary processes on meteorite parent bodies (asteroids), the Moon, Mars, and Earth. Our research is aided by collaborations with investigators at other institutions. Our most important tools are microbeam analytical techniques, including electron microprobe (EMP), scanning electron microscope (SEM), transmission electron microscope (TEM), and ion microprobe (SIMS), plus thermal-ionization mass spectrometry (TIMS) and stable isotope measurements. State of the art facilities for all these techniques are available at UNM.

Teaching activities of the staff of IOM consist of both formal courses and informal meetings with graduate and undergraduate students. We emphasize the direction and supervision of student research and encourage presentation and publication of the results of this research at national and international levels. The Meteorite Museum plays an important role in our educational efforts, including organized programs for school groups with tours of the Museum and research laboratories.

INSTITUTE OF METEORITICS FACULTY AND STAFF

(July 1, 2000 – June 30, 2001)

Director, Institute of Meteoritics
Dr. James J. Papike, Regents' Professor of Earth and Planetary Sciences

Research Professors
Dr. Horton Newsom
Dr. Robert Reedy
Dr. Frans Rietmeijer
Dr. Charles Shearer

Senior Research Associates
Dr. Lars Borg
Dr. Rhian Jones

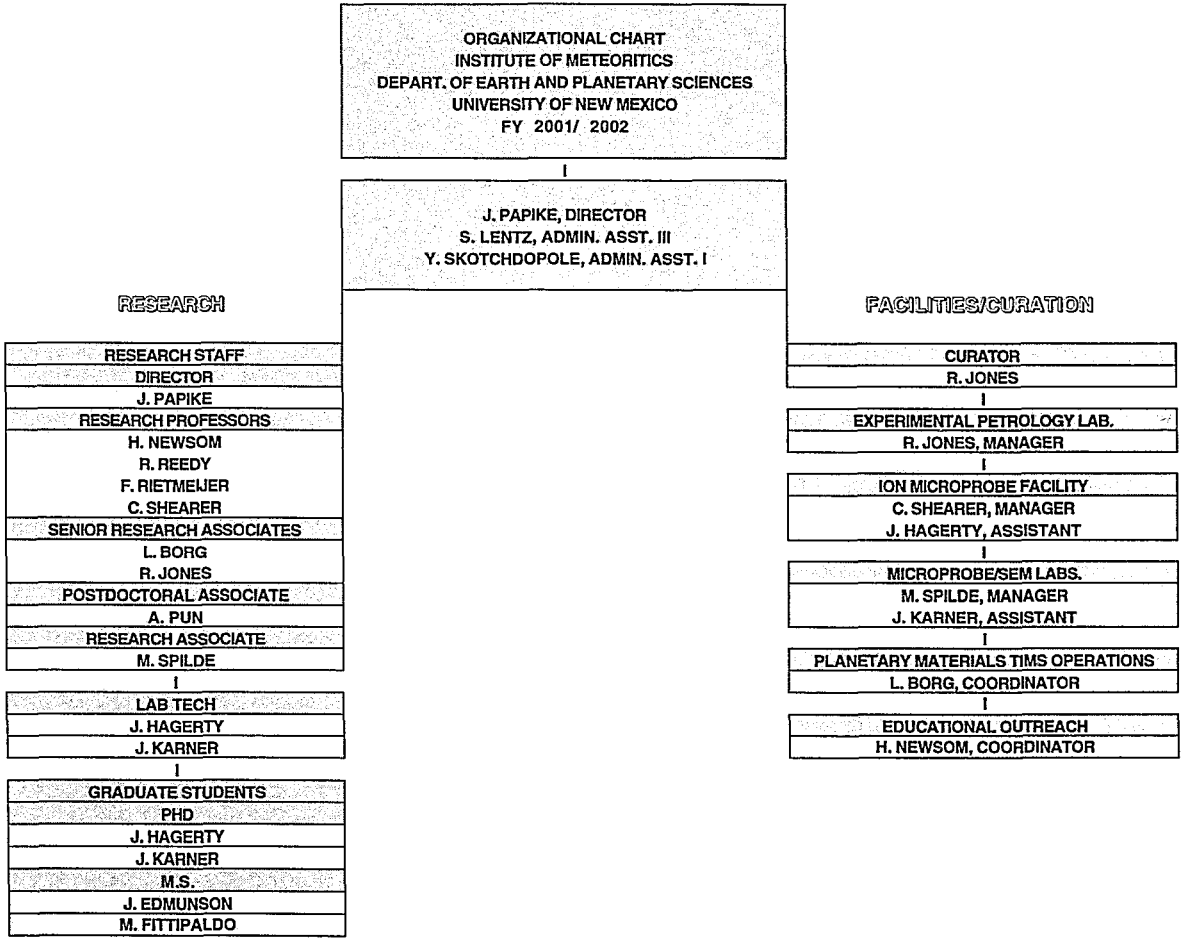
Postdoctoral Associate
Aurora Pun
Research Associates
Michael Spilde

Support Personnel
Justin Hagerty, Laboratory Technician
Jim Karner, Laboratory Technician
Sarah Lentz, Administrative Assistant III
Yolanda Skotchdopole, Administrative Assistant I

Graduate Students
Jennifer Edmunson
Justin Hagerty
Christopher Herd
Jim Karner

Additions to Staff
Justin Hagerty, July 1, 2000
Dr. Robert Reedy, July 1, 2000
Yolanda Skotchdopole, July 7, 2000

Separations from Staff
None


ORGANIZATIONAL CHART
INSTITUTE OF METEORITICS
DEPART. OF EARTH AND PLANETARY SCIENCES
UNIVERSITY OF NEW MEXICO
FY 2001/ 2002
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Y. SKOTCHDOPOLE, ADMIN. ASST. I
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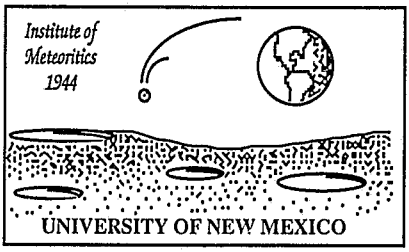
SECTION I

RESEARCH



I. RESEARCH

Research activities of staff and students of the Institute of Meteoritics cover a wide range of topics, mostly aimed at understanding the origin and early history of our solar system and the evolution of the planets. More specifically, we have major research initiatives to investigate the igneous evolution of martian meteorites and the Moon, and research into an understanding of early solar system processes through the study of interplanetary dust particles (IDPs) and chondritic meteorites.

Our research during the report period has resulted in the publication of scientific articles in major national and international journals, as well as in the publication of abstracts of papers presented at national and international conferences. The extensive involvement of students in original research projects in the Institute of Meteoritics is particularly important for their education and advanced training.

We continue to be very successful in attracting research grants and contracts to the Institute of Meteoritics in support of the research activities of staff and students. Details are provided in Table I. Funding was provided by the National Aeronautics and Space Administration (NASA), and the National Science Foundation (NSF).

1. Specific Projects

a. Circumstellar and Interstellar Dust in Primitive Solar System Materials
(Funded by NASA)

Interplanetary Dust Particles (IDPs) are collected in the Earth's stratosphere between 17-19 km altitude using high-flying NASA aircraft. The 2-40 micrometer sized IDPs include chondritic aggregates and non-chondritic particles, such as iron-nickel sulfide and Mg, Fe-silicate particles that survived atmospheric entry with only low and recognizable levels of thermal modification. These different IDPs are the surviving remnants of hierarchical accretion of dust in the solar nebula 4.56G years ago. Evidence for this stage in the formation of the solar system was mostly erased in the collected meteorites after thermal and aqueous alteration in their parent body asteroids. The unique chondritic aggregates are typically 10-15 micrometers in size and are most likely the solid debris of periodic comets, which means that some of their constituents could include the common circumstellar and presolar silicate dust. These particular IDPs consist of a matrix of principal components with mostly embedded iron-nickel sulfides, Mg,Fe-silicates and iron oxides that are

each less than 5 micrometers in size. The principal components (90 – 1000 nm in size) with a ferromagnesiosilica composition are prime candidates for being common circumstellar and presolar dust. Gas-to-solid condensation experiments showed that kinetically controlled condensation in circumstellar accretion disks produces dust with predictable metastable eutectic compositions. Aggregation of this dust and aggregate fusion results in the formation of dust with the compositions and size of these PCs. Each IDP has a non-chondritic composition but shows a richness of nanometer-scale detail that is studied by transmission and analytical electron microscope techniques. Experimental analog studies are part of this electron microscope study and include condensed silicate and carbon dust analogs. These analog studies show the original condensed dust properties and serve as the starting point to unravel the complex and chaotic histories of individual IDPs and thus define the nature of the solids and processes during solar nebula evolution and proto-planet modifications in the early solar system. The study of IDPs provides a unique window to the onset of mineralogical evolution in the solar system and an opportunity for fundamental research in petrology. The study of cometary dust provides a logical connection to the observations and analyses of meteors and fireballs such as the current Leonid storm activity connected to the comet Temple-Tuttle. Non-cometary fireballs are connected to known meteorite falls and provide direct samplings of an asteroidal body to complete the sample suite of primitive solar system materials.

b. Chondritic Meteorites (Funded by NASA)

Our studies of chondritic meteorites emphasize petrologic studies of individual chondritic components, particularly chondrules and isolated grains. Our goals are to investigate the early history of the solar system by determining the nature of events that took place in the solar nebula, as well as on chondrite parent bodies after accretion. We include studies of primitive nebular material such as chondrules from carbonaceous chondrites, as well as a study of the nature of thermal metamorphism on chondrite parent bodies. Our studies emphasize microbeam techniques (EMP, SEM, TEM, and SIMS) that enable us to interpret the detailed petrography of complex objects. In addition, we collaborate with other laboratories to obtain isotopic data. This provides powerful insights into the chondrite record of early solar system events. As a complement to these petrologic studies, we also perform experiments that help to interpret mineralogical problems in chondrites and other planetary samples.

c. Microbeam Studies of the Martian Meteorites (Funded by NASA)

This study involves the analysis of spinel group minerals and olivine in the martian basalts with EMP, TEM-EELS, and SIMS techniques. The objective of the study is to gain insight into martian igneous processes, particularly with regards to oxygen fugacity, trace element distribution, and melt character. Complementary experimental work has been carried out at NASA's Johnson Space Center in Houston.

The stoichiometry of titanomagnetite spinel in the martian basalts has been assessed using quantitative analysis of oxygen measured by EMP and, independently, TEM-EELS. The spinels are stoichiometric within the errors of the techniques, enabling the calculation of oxygen fugacity with confidence. The oxygen fugacity of the martian basalts range from 3 log units below the QFM buffer for QUE 94201 to QFM - 1.0 for Shergotty, Zagami, and Los Angeles.

Oxygen fugacity in martian basalts correlates with $^{87}Sr/^{86}Sr$, $^{143}Nd/^{144}Nd$ and La/Yb ratio, indicating that the mantle source of the basalts is reduced and that assimilation of crust-like material controls the oxygen fugacity. This allows constraints to be placed on the oxidation state of the martian mantle, and on the nature of assimilated crustal material. Of several possible oxidants, the most likely is a hydrous phase such as amphibole or phlogopite. Therefore, the martian basalts may have undergone varying degrees of interaction with an amphibolitic or phlogopitic crust. One possibility is that such crust formed as the result of alteration of basaltic rock early in Mars' history, when the planet was warmer and wetter.

Concentrations of transition-series elements in igneous olivine in several martian meteorites have been determined by SIMS analysis. Systematic variations in Ni, Co, Cr, V, Mn, Ti, Sc and Y are observed from core to rim, consistent with igneous zoning. Olivine core concentrations in terms of Co, Ni, V and Cr have been used, along with experimentally-determined and published D values, to calculate concentrations of these elements in parental melts. The results indicate that the QUE 94201 magma may be related to the parental melts of Dar al Gani 476 and EETA 79001 through fractional crystallization of olivine.

d. Lunar Studies (Funded by NASA)

Our lunar studies focus upon the use of basaltic magmas to decipher lunar mantle processes. We are addressing several problems: **1)** We are studying the melting of hybridized, ilmenite-bearing, mantle cumulates through a quantitative, high-pressure experimental approach. We are examining the relationships between depth of melting, degree of melting, liquidus phases, melt composition, and the trace element composition of the melt. **2)** The lunar mantle is heterogeneous with regards to radiogenic W. One major question concerning the notion that the lunar magma ocean (LMO) is responsible for Hf/W fractionation on the Moon is the uncertainty regarding the partitioning of these elements into the phases involved in LMO crystallization. We are conducting experiments to determine how Hf and W are partitioned between silicate and melt. **3)** Determining the relative ratios of highly siderophile elements in planetary mantles may provide valuable information regarding core segregation, crustal evolution, and late accretionary processes. We are examining the Re-Os isotopic systematics of lunar orange and green glasses in order to constrain the Os isotopic evolution of deep lunar mantle reservoirs. **4)** After the early anorthositic lunar crust formed and consolidated, it was intruded episodically by slightly younger magmas. One of the products of this younger magmatism is referred to as the Mg suite. Our studies focus upon defining the contrasting primitive and evolved magmatic chemical signatures in mineral phases in a wide range of pristine Mg suite rocks.

e. **Comparative Planetary Mineralogy** (Funded by NASA)

The compositions of the silicate phases in basalts reflect differing chemical and physical conditions of the melts from which they crystallized and can therefore be used to understand differences among basaltic systems, the influences of a planetary body on the basalt system, and the chemical fingerprint of planetary mantles. We are performing a systematic study combining major, minor and trace element data in order to correlate chemical trends in olivine, pyroxene and plagioclase with planetary origins and settings. The basalts chosen for this study include six terrestrial suites from differing tectonic and temporal settings, lunar mare basalts from the Apollo and Luna lunar landings, basaltic shergottite meteorites, which are believed to have originated on Mars, and basaltic achondrite meteorites (eucrites), which are believed to have come from the asteroid 4 Vesta. We are using the EMP and SIMS to determine the chemical compositions of the silicate minerals in the

planetary basalts. In doing this, we will provide new insights into comparative planetology by using mineral chemistries as recorders of the physical and geochemical parameters of magmatism.

f. **Integrated SIMS/TIMS Studies of Martian Meteorites and Lunar Samples** (Funded by NASA)

Samarium-neodymium isotopic studies of martian meteorites and lunar samples provide detailed information regarding the age of the sample, the composition of mantle and crustal source from which it was derived, and the timing of large scale crust-mantle differentiation processes on Mars and Moon. However, these analyses are very difficult because the samples are little, so very small amounts of Nd are required to be run on the mass spectrometer. In addition, the isotopic systematics of many of these samples are often disturbed by impact metamorphism and terrestrial weathering. We are currently in the process of building facilities to complete such Sm-Nd isotopic analyses at UNM. We have upgraded our thermal ionization mass spectrometer and developed data reduction routines that permit this machine to run very low abundances of Nd. We have completed isotopic analyses of a new martian meteorite (Dhofar 019) in collaboration with Dr. Larry Nyquist at the Johnson Space Center. The isotopic systematics of this meteorite indicate that there are several compositionally distinct mantle sources on Mars. Preliminary modeling suggest that crust formation on Mars occurred around 4.53 billion years ago. We have also completed detailed microbeam analyses of several martian meteorites with disturbed isotopic systematics in order to constrain the mechanisms of disturbance. Our results suggest that a combination of martian weathering, terrestrial weathering, and impact metamorphism are responsible for disruption of the Sm-Nd isotopic systematics of these meteorites.

g. **Gunflint Banded Iron Formation** (Funded by NASA)

Terrestrial banded iron formations (BIF) preserve some of the fragile remnants of the earliest life on Earth. Hematite deposits have been located on the martian surface so BIFs may serve as analogs for identifying both conditions of hematite deposition and evidence of primitive biologic activity in martian rocks. We are undertaking a study to examine the carbonates of these low-grade metamorphosed iron formations to seek possible geochemical fingerprints of biological activity in inorganically precipitated carbonates as

analogs of martian carbonates such as those found in ALH 84001 and samples potentially returned for study from future martian missions.

Petrographic studies reveal that the dominant carbonates are siderite, ankerite, and calcite and provide a textural context for microbeam analyses. Carbonates are found as primary phases, cement and secondary replacement minerals. Major-and minor-element compositions were determined using an electron microprobe. Trace elements were measured using the Cameca IMS 4f ion microprobe (UNM/SNL consortium), using carbonate mineral standards.

In conjunction with our petrographic and mineralogical studies, we are in the process of evaluating the isotopic signatures of these varieties of carbonates. The Gunflint is well known for its wealth of microfossils, primarily found in chert. The carbonate-rich rocks typically lack microfossils. Numerous studies have shown that inorganic carbonates precipitated contemporaneously with biological activity are enriched in carbon-13 because of preferential uptake of carbon-12 by organic processes. We are measuring isotopic abundances of Gunflint carbonates and will test for correlations between trace-element and isotope signatures.

h. **Space Science Education for New Mexico MESA Students** (A project funded by NASA's Pre-College Awards for Excellence in Mathematics, Science, Engineering and Technology (PACE/MSET) program)

This project provides 4,800 underrepresented students and their teachers in NM MESA (New Mexico Math Engineering and Science Achievement) with access to space science resources at the University of New Mexico. NM MESA is a well-established and highly successful program for students of middle and high school-age, which encourages them to pursue the pre-college track in math and science.

The UNM-PACE program consists of the following major components:

- The Outreach and Laboratory Visit Program involves an intensive program with individual middle and high school MESA programs, and two Hispanic Science and engineering groups, culminating in a field trip to the University of New Mexico.

- Last year we provided programs for 650 K-12 school students and 45 college students.
- The Teacher Institute Program has involved training of over 170 K-12 teachers in the use of NASA educational materials, impacting more than the entire 4,600 NM MESA students.
- The makeup of the student population in this project is approximately 62% Hispanic, 1% African American, 10% Native American, 22% Anglo, and 5% other.
- The informal education component has involved 4,000 K-12 students, and consisted of the Meteorite Museum programs in the Institute of Meteoritics, and educational events, such as Astronomy Day.
- More than 200 parents have been reached during Parent Night Events, Star parties, and other programs.

The IOM Meteorite Museum has been upgraded with posters, a renovated impact crater exhibit, and the addition of a hands-on teaching cart with two microscopes, and meteorites.

i. **Impact Crater Hydrothermal Systems** (Funded by NASA)

This project involves the study of processes involving water and impact craters on Mars, using remote sensing data and terrestrial analogues. Hydrothermal systems are good locations to search for evidence of biotic or prebiotic chemistry. Hydrothermal systems may also be connected with the formation of the Martian soil, and the climate history of Mars. Lakes in large impact craters on Mars could have also been associated with hydrothermal systems and heated by impact melt. Impact craters may provide the most accessible samples of hydrothermal systems on Mars for robotic investigation and sample return. Hydrothermal processes on Mars could cause the enrichments of mobile elements in the Martian soil as measured by Viking and Pathfinder. Studies of terrestrial analogue craters can provide important insight and constraints into processes involving impact craters on Mars. Most of the well-studied terrestrial craters are in more siliceous rocks than generally expected on Mars, often with the complication of substantial sedimentary cover. To avoid these problems, we are studying the deposits at the Lonar Crater, India, which is the only large terrestrial crater formed in a basaltic terrain. The investigation of the Lonar Crater impact melts will provide information on the formation of a crater in a basaltic terrain analogous to Mars. The mineralogy and chemical transport processes at the crater are being

investigated using SEM, EMP, and stable isotope studies. The mineralogy and chemistry of the iron-oxide minerals in the Lonar crater will also be studied in collaboration with Dr. Richard Morris of Johnson Space Center. The data from the Lonar Crater will be compared with data obtained by the Mars Global surveyor and Viking Spacecraft on Mars to better understand aqueous processes involving impact craters on Mars.

j. **Stars on Earth, Space Science Research Experience and College Preparation for Underrepresented Secondary Students.** (Funded by NASA- OSS, OEOP, Minority University Education and Research Partnership Initiative in Space Science)

In conjunction with the Southwestern Indian Polytechnic Institute (SIPI), this program provides under-represented high school students with research experience in space science and technology-based academic preparation in math, science, engineering and technology (MSET). SIPI college students will also benefit from the establishment of a new course in Earth and Planetary Science, and the opportunity to be involved in related research projects.

The centerpiece of the Stars on Earth program is a six-week residential experience at SIPI, which will include a research experience component that will impact both the high school students and the SIPI faculty and students involved in the outreach program through special training at the Institute of Meteoritics at UNM.

The research activity focuses on the establishment of a Meteorite Identification Laboratory, which will be housed in SIPI's new 60,000 square foot Advanced Technical Education Applications Building. The building will serve as a teaching and research laboratory for the NASA program and ensures that American Indian students who select science, mathematics, and engineering fields will have access to a state-of-the-art facility and equipment. Identifying meteorites requires a basic understanding of meteorite properties and the ability to conduct a logical investigation using basic geological equipment. In suspicious cases or samples, advanced analysis will be conducted at UNM using a scanning electron microscope with the assistance of SIPI students.

In addition to the programs for students, activities for high school teachers and parents will provide a source of support and reinforcement for choosing a technical career path.

k. Site Selection Studies, Parana Basin, Margaritifer Sinus Region of Mars (Funded by NASA, SETI Institute)

This project provides information about the potential for hydrothermal activity involving impact craters in potential Mars Landing sites. Impact craters have the potential to be important sources of near-surface hydrothermal deposits that are key sites for the search for life on Mars. The most likely time frame for looking for evidence of life on Mars is during the earliest Noachian period, dating back to the period of heavy bombardment prior to 3.5 AE ago, when water was more abundant. During this time when small valley networks formed, surface erosion occurred at a rate 10 to 1,000 times greater than present. A warmer climate and a denser atmosphere are usually assumed for this time period. During this ancient period the formation of impact craters was a major source of heat for hydrothermal systems. In addition to impact melt, the central uplift provides a source of geothermal heat, and may represent the best location to obtain deep mantle samples. The combination of hydrothermal systems and impact crater lakes, where turbidite sedimentation can preserve evidence of life, will be an important environment for future exploration. These hydrothermal systems and lakes will be supplied by ground water that could carry in preexisting organisms from deep acquifers. Thus, the impact craters could represent Petri dishes for the culturing and preservation of life on Mars.

l. Geomicrobiological Interactions of Microbial Communities in Cave Deep Subsurface Environments: A Novel Extreme Environment (Funded by Life in Extreme Environments (LEXEN) Program of NSF)

Caves offer accessible subterranean environments in which to study the diversity of microbial life. As collaborators with Professor Clifford Dahm of the Biology Department, we are investigating the nature of unusual microorganisms present in Lechuguilla and Spider Caves in Carlsbad Caverns National Park in southeastern New Mexico. Lechuguilla Cave, the deepest cave in the continental United States, is an immense, ancient cave in near pristine condition. It contains sulfur, iron, and manganese deposits and extremely low nutrient environments that harbor a diverse microbial community. Our work has shown that microorganisms may be corroding the

bedrock and oxidizing the iron and manganese in minerals that make up the bedrock. This chemical oxidation provides a source of energy that enables the establishment of an entire community of organisms. Our research explores the interaction of microorganisms and minerals in a low energy environment. We are also studying the potential for subsurface life on other planets by relating the microbial communities in Lechuguilla Cave to those that may exist elsewhere in the solar system.

2. Grants and Contracts

Table 1 documents that IOM was well funded by NASA during FY 00/01. Grant contract expenditures totaled $555,900. IOM continues to enjoy healthy grant/contract support in these times of rigorous competition and limited budgets in the major funding agencies.

TABLE 1: EXPENDITURES ON GRANTS AND CONTRACTS IN EFFECT FOR FY 2000/2001

AGENCY	TITLE	P.I./CO. I's	$ EXPENDED
NASA	Microbeam Studies of Planetary Materials. (MRA 97-282)	J. Papike/L. Borg, R. Jones/C. Shearer	291.0 K
NASA	Petrology of Presolar Dusts and Alteration in Chondritic IDPS (NAG5-4441)	F. Rietmeijer	114.7 K
NASA	Space Science Education for New Mexico Mesa Students (NAG9-1017)	H. Newsom	56.6 K
NASA	Biomarkers in Astromaterials (NAG9-1111)	J. Papike	54.8 K
NASA	Spinels as recorders of Planetary Basalt Evolution: Martian Samples (NGT 9-31)	J. Papike/C. Herd	22.0 K
NASA	Martian Impact Crater Hydrothermal Systems-Clues from the Lonar Crater (NAG5-8804)	H. Newsom	16.8 K
		TOTAL	**555.9 K**

3. Papers Published in Peer Reviewed Journals and Books (2000 – 2001)
(Members of IOM in **bold** print; an asterisk [*] used for student authors)

Baba, S., E.S. Grew, **C.K. Shearer**, and J.W. Sheraton (2000) Surinamite, a high-temperature metamorphic beryllosilicate from Lewisian kyanite-orthopyroxene-quartz-K-feldspar gneiss at South Harris, NW Scotland. *American Mineralogist*, 85, 1474-1484.

Borg, L.E., A.D. Brandon, M.A. Clynne, and R.J. Walker (2000) Re-Os Isotopic systematics of primitive lavas from the Lassen region of the Cascade arc, California. *Earth and Planetary Science Letters*, 177, 301-317.

Boston, P.J., **M.N. Spilde**, D.E. Northup, L.A. Melim, D.S. Soroka, L.G. Kleina, K.H. Lavoie, L.D. Hose, L.A. Mallory, C.N. Dahm, L.J. Crossey, and R.T. Schelble* (2001) Cave biosignature suites: Microbes, minerals, and Mars. *Astrobiology Journal*, 1 (1), 25-55.

Grew, E.S., M.G. Yates, J. Barbier, **C.K. Shearer**, J.W. Sheraton, K. Shiraishi, and Y. Motoyoshi (2000) Granulite-facies beryllium pegmatites in the Napier complex in Khmara and Amundsen bays, western Enderby Land, East Antarctica. *Polar Geoscience*, 13, 1-40.

Herd*, C.D.K., J.J. Papike, and A.J. Brearley (2001) Oxygen fugacity of martian basalts from electron microprobe oxygen and TEM-EELS analyses of Fe-Ti oxides. *American Mineralogist*, v. 86, 1015-1024.

Hughes, J.M., A. Ertl, M.D. Dyer, E. Grew, **C.K. Shearer**, M.G. Yates, and C.V. Guidotti (2000) Tetrahedrally coordinated boron in a tourmaline: Boron-rich olenite from Stoffhutte, Koralpe, Austria. *Canadian Mineralogist*, 38, 861-868.

Jablonska, M., **F.J.M. Rietmeijer**, and J. Janeczek (2001) Fine-grained barite in coal fly ash from the Upper Silesian Industrial Region. *Environmental Geology*, 40, 491-498.

Johnson, J.R., S.W. Ruff, J. Moersch, T. Roush, K. Horton, J. Bishop, N.A. Cabrol, C. Cockell, P. Gazis, **H.E. Newsom**, and C. Stoker (2001) Geological Characterization of Remote Field Sites Using Visible and Infrared Spectroscopy: Results from the 1999 Marsokhod Field Test. *Journal of Geophysical Research (Planets)*, 106, 7683-7712.

Joliff, B.L., L.R. Gaddis, G. Ryder, C.R. Neal, **C.K. Shearer**, R.C. Elphic, J.R. Johnson, L.P. Keller, R.L. Korotev, D.J. Lawrence, P.G. Lucey, **J.J. Papike**, C.M. Pieters, P.D. Spudis, and L.A. Taylor (2000) New Views of the Moon: Improved Understanding through Data Integration. *EOS*, 81, 349, 354-355.

Jones, R.H., T. Lee, H.C. Connolly Jr., S.G. Love, and H. Shang (2000) Formation of chondrules and CAIs: Theory versus observation. In *Protostars and Planets IV*, eds. V.G. Mannings, A.P. Boss, and S.S. Russell. University of Arizona Press, p.927-962.

Jones, R.H., J.M. Saxton, I.C. Lyon, and G. Turner (2000) Oxygen isotopic compositions of chondrule olivine and isolated olivine grains in the CO3 chondrite, ALHA 77307. *Meteoritics and Planetary Science*, 35, 849-857.

Melim, L.A., K.M. Shinglman, P.J. Boston, D.E. Northup, **M.N. Spilde**, and J.M. Queen (2001) Evidence for Microbial Involvement in Pool Finger Precipitation, Hidden Cave, New Mexico. *Geomicrobiology Journal*, 18: 311-329.

Newsom, H.E., **J.J. Hagerty***, and I. Thorsos* (2001) Location and sampling of aqueous and hydrothermal deposits in martian impact craters, *Astrobiology*, 1, 71-89.

Newsom, H.E., J.L. Bishop, C. Cockell, T.L. Roush, and J.R. Johnson (2001) The search for life on Mars in surface samples, lessons from the 1999 Marsokhod rover field experiment. *Journal of Geophysical Research (Planets)*, 106, 7713-7720.

Northup, D.E., C.N. Dahm, L.A. Melim, **M.N. Spilde**, L.J. Crossey, K.H. Lavoie, L. Mallory, P.J. Boston, K.I. Cunningham, and S.M. Barns (2000) Evidence for geomicrobiological interactions in Guadalupe (NM) Caves, *Journal of Cave and Karst Studies*, 62 (2): 80-90.

Papike, J.J., C.K. Shearer, M.N. Spilde, and **J.M. Karner*** (2000) Metamorphic diogenite GRO 95555: Mineral chemistry of orthopyroxene and spinel and comparisons to the diogenite suite. *Meteoritics & Planetary Science*, 35, 875-879.

Rietmeijer, F.J.M. (2000) Interrelationships among meteoric metals, meteors, interplanetary dust, micrometeorites, and meteorites. *Meteoritics and Planetary Science* 35, 1025-1041.

Rietmeijer, F.J.M. (2000) Interplanetary Dust Particles. *In McGraw-Hill Yearbook of Science & Technology 2001*, The McGraw-Hill Companies, Inc., 208-211.

Rietmeijer, F.J.M., and P. Jenniskens (2000) Recognizing Leonid meteoroids among the collected stratospheric dust. *Earth, Moon, and Planets*, 82/83, 505-524.

Rietmeijer, F.J.M., and P. Jenniskens (2000) Recognizing Leonid meteoroids among the collected stratospheric dust. In *Leonid Storm Research* (P. Jenniskens, **F.J.M. Rietmeijer**, N. Brosch, and M. Fonda, eds.), Kluwer Academic Publications, Dordrecht, the Netherlands, 505-524.

Rietmeijer, F.J.M., and J.A. Nuth III (2000) Collected extraterrestrial materials: Constraints on meteor and fireball compositions. *Earth, Moon, and Planets*, 82/83, 325-350.

Rietmeijer, F.J.M., and J.A. Nuth III (2000) Collected extraterrestrial materials: constraints on meteor and fireball compositions. In *Leonid Storm Research* (P. Jenniskens, **F.J.M. Rietmeijer**, N. Brosch and M. Fonda, eds.), Kluwer Academic Publications, Dordrecht, the Netherlands, 325-350.

Rietmeijer, F.J.M., and J.A. Nuth, III (2000) Metastable eutectic equilibrium brought down to Earth. *Trans. Amer. Geophys. Union, EOS*, 81(36), 409+ 414-415.

Rietmeijer, F.J.M., J.A. Nuth, III, M. Jablonska, and **J.M. Karner*** (2000) Metastable eutectic Equilibrium in Natural Environments: Recent Developments and Research Opportunities. *In Trends in Geochemistry*, vol. 1, 29-51.

Rietmeijer, F.J.M. (2001) Identification of Fe-rich meteoric dust. *Planetary and Space Science*, 49, 71-77.

Shearer, C.K., and C. Floss (2000) Evolution of the Moon's mantle and crust as reflected in trace-element microbeam studies of lunar magmatism. In *Origin of the Earth and Moon* (eds. K. Righter, and R. Canup), pp. 339-360, University of Arizona Press.

Shearer, C.K., and **H.E. Newsom** (2000) W-Hf isotope abundances and the early origin and evolution of the Earth-Moon system. *Geochimica et Cosmochimica Acta*, 64, 3599-3613.

Shearer, C.K., **J.J. Papike**, and **M.N. Spilde** (2001) Trace element partitioning between immiscible lunar melts. An example from naturally occurring melt inclusions. *American Mineralogist*, 86, 238-246.

Snyder, G.A., **L.E. Borg**, L.E. Nyquist, and L.A. Taylor (2000) Chronology and isotopic constraints on lunar evolution. In *Origin of the Earth and Moon* (eds. R.M. Canup and K. Righter), pp. 361-398, University of Arizona Press.

Sorge*, C., **H.E. Newsom**, and **J.J. Hagerty*** (2000) Fun is not enough - Attitudes of Hispanic middle school students toward science and scientists. *Hispanic Journal of Behavioral Sciences*, 22, 332-345.

Stoker, C.R., **H.E. Newsom**, and 33 other co-authors (2001) The 1999 Marsokhod rover mission simulation at silver Lake California: Mission overview, data sets, and summary of results. *Journal of Geophysical Research (Planets)*, 106, 7639-7663.

Walter, M.J., **H.E. Newsom**, W. Erterl, and A. Holzheid (2000) Siderophile Elements in the Earth and Moon: Metal/Silicate Partitioning and Implications for Core Formation. In *Origin of the Earth and Moon* (Canup, R.M., and Righter, K. eds.), pp. 265-289, University of Arizona Press.

Zolensky, M.E., C. Pieters, B. Clark, and **J.J. Papike** (2000) Small is beautiful: The analysis of nanogram-sized astromaterials. *Meteoritics and Planetary Science*, 35, 9-29.

4. **Abstracts of Papers Presented at Professional Meetings--July 1, 2000 to June 30, 2001** (Members of IOM in **bold** print; student authors indicated with [*])

Aramovich*, C.J., **C.D.K. Herd***, and **J.J. Papike** (2001) Possible causes for late-stage reaction textures associated with pyroxferroite and mestastable pyroxenes in the basaltic martian meteorites. *Lunar and Planetary Science Conference XXXII*, Abstract #1003, Lunar and Planetary Institute, Houston (CD-ROM).

Borg, L.E., L.E. Nyquist, Y. Reese, H. Wiesmann, C.-Y. Shih, M. Ivanova, M.A. Nazarov, and L.A. Taylor (2001) The age of Dhofar 019 and its relationship to the other Martian meteorites. *Lunar and Planetary Science Conference XXXII*, Abstract #1144, Lunar and Planetary Institute, Houston (CD-ROM).

Boston, P.J., D.S. Soroka, L.G. Kleina, K.H. Lavoie, **M.N. Spilde**, D.E. Northup, and L.D. Hose (2000) A garden inside out: Microbial mats in springs, wall muds, and ceiling formations in a sulfur dominated cave, Cueva de Villa Luz, Tabasco, Mexico. *2000 Annual Meeting of the National Speleological Society*, Programs and Abstracts.

Boston, P.J., and **M.N. Spilde** (2001) "Crisco", a calcitic, fibrous moonmilk deposit from Spider Cave, New Mexico: Distinctive mineral forms and the role of microorganisms. Abstracts and Programs from the *2001 Earth System Processes Meeting*, Edinburgh, Scotland, Abstract #8036.

Boston, P.J., **M.N. Spilde**, D.E. Northup, D.S. Soroka, L.G. Kleina, K.H. Lavoie, L.A. Melim, and L.D. Hose (2001) Pendulous microbial/mineral formations in an active sulfide-dominated cave and possible lithifield speleothem analogs in an ancient, inactive cave. Abstracts and Programs from the *2001 Earth System Processes Meeting*, Edinburgh, Scotland, Abstract #8039.

Boston, P.J., **M.N. Spilde**, D.E. Northup, L.A. Melim, D.S. Soroka, L.G. Kleina, K.H. Lavoie, L.D. Hose, L.A. Mallory, C.N. Dahm, L.J. Crossey, and R.T. Schelble* (2001) Cave microbe-mineral suites: Best model for extraterrestrial bio signatures. *Lunar and Planetary Science Conference XXXII*, Abstract #2015, Lunar and Planetary Institute, Houston (CD-ROM).

Brearley, A.J., and **C.K. Shearer** (2000) Origin of Ca-Fe-rich pyroxenes in Allende matrix: Clues from rare earth elements. *Meteoritics and Planetary Science*, 35 (Supplement), A33.

Edmunson*, J., L.E. Borg, C.K. Shearer, J.J. Papike, and **K. Davidson*** (2001) High-Si glasses in basaltic shergottite DaG 476 and their implications for geochronology. *Lunar and Planetary Science Conference XXXII*, Abstract #1439, Lunar and Planetary Institute, Houston (CD-ROM).

Grew, E.S., M.G. Yates, J. Barbier, **C.K. Shearer**, J.W. Sheraton, K. Shiraishi, and Y. Motoyoshi (2001) Granulite-facies Beryllium Pegmatites in the Ultrahigh-Temperature Napier Complex, Enderby Land, East Antarctica: Relevance to Formation of S-Type Granites from Partial Melting in the Lower Crust. *Allan White Symposium*, Abstracts with Programs, Melbourne, Australia.

Guidotti, C.V., E.S. Grew, M.G. Yates, M.D. Dyar, C.A. Francis, G. Fowler, J. Husler, and **C.K. Shearer** (2000) Lithium in coexisting micas and tourmaline from W. Maine. *Geological Society of America meeting*, Abstracts with Programs, Reno, NV.

Hagerty*, J.J., C.K. Shearer, and **J.J. Papike** (2001) Trace element variability of the Apollo 14 High-Al basalts. A result of igneous processes or sample size? *Lunar and Planetary Science Conference XXXII*, Abstract #1235, Lunar and Planetary Institute, Houston (CD-ROM).

Hagerty*, J.J., and **H.E. Newsom** (2001) New evidence for hydrothermal alteration at the Lonar Lake Impact Structure: Implications for impact cratering on Mars. *Lunar and Planetary Science Conference XXXII*, Abstract #1131, Lunar and Planetary Institute, Houston (CD-ROM).

Hagerty*, J.J., J.M. Karner*, H.E. Newsom, and **R.H. Jones** (2001) Meteorite or meteor-wrong? *Lunar and Planetary Science Conference XXXII*, Abstract #1636, Lunar and Planetary Institute, Houston (CD-ROM).

Herd*, C.D.K., and **J.J. Papike** (2000) Oxygen fugacity of the martian basalts from analysis of iron-titanium oxides: Implications for mantle-crust interaction on Mars. *Meteoritics and Planetary Science*, 35 (Supplement), A70.

Herd*, C.D.K., and **J.J. Papike** (2000) Systematics of oxygen fugacity and geochemical variations in the martian basalts: Implications for martian basalt petrogenesis and the oxidation state of the upper mantle of Mars. *Geological Society of America Annual Meeting*, Abstracts with Programs.

Herd*, C.D.K., L.E. Borg, and **J.J. Papike** (2001) Controls on oxygen fugacity during martian basalt petrogenesis: Clues from geochemical correlations. *Lunar and Planetary Science Conference XXXII*, Abstract #1150, Lunar and Planetary Institute, Houston (CD-ROM).

Herd*, C.D.K., J.J. Papike, and L.E. Borg (2001) Evidence for hydrous minerals in the martian crust from studies of basaltic martian meteorites: What we might find among rocks returned from Mars. Proceedings of the *Third Canadian Space Exploration Workshop.*

Herd*, C.D.K., J.H. Jones, **C.K. Shearer,** and **J.J. Papike** (2001) Systematics of Ni, Co, Cr and V in olivine from planetary melt systems: Martian basalts. *Lunar and Planetary Science Conference XXXII*, Abstract #1635, Lunar and Planetary Institute, Houston (CD-ROM).

Jones, R.H., T. Durakiewicz, Z.D. Sharp, and A.J. Schilk (2000) Oxygen-isotopic ratios of bulk chondrules from the Mokoia CV3 chondrite. *Meteoritics and Planetary Science*, 35, A84-A85.

Jones, R.H. (2001) Meteorites: Insights into asteroid interiors. *International Space Development Conference* proceedings, (CD-ROM).

Jones, R.H., C.K. Shearer, and A.J. Schilk (2001) Trace element distribution in an Al-rich chondrule from the Mokoia CV3 chondrite. *Lunar and Planetary Science Conference XXXII*, Abstract #1338, Lunar and Planetary Institute, Houston (CD-ROM).

Karner*, J.M., J.J. Papike, and **C.K. Shearer** (2001) Chemistry of olivine from planetary basalts: Earth-Moon comparisons emphasizing Mn/Fe and Co/Ni systematics. *Lunar and Planetary Science Conference XXXII*, Abstract #1017, Lunar and Planetary Institute, Houston (CD-ROM).

Newsom, H.E. (2001) Impact Crater Landing Sites for the 2003 Mars Explorer Rovers - Accessing Lacustrine and Hydrothermal Deposits. *Mars Exploration Rover 2003 Landing Site Workshop*, p. 12.

Newsom, H.E. (2001) Central remnant Craters on Mars - Localization of Hydrothermal Alteration at the Edge of Crater Floors?. *Lunar and Planetary Science Conference*, Abstract #1402, Lunar and Planetary Institute, Houston (CD-ROM).

Newsom, H.E., C.K. Shearer, and A.H. Trieman (2001) Mobile elements determined by SIMS analysis of hydrous alteration materials in the Lafayette Martian meteorite. *Lunar and Planetary Science Conference XXXII*, Abstract #1396, Lunar and Planetary Institute, Houston, (CD-ROM).

Northup, D.E., **M.N. Spilde**, R.T. Schelble*, L.E. Bean, S.M. Barns, L. Mallory, P.J. Boston, L.J. Crossey, K.E. Dotson, and C.N. Dahm (2000) Microbial interactions in punk rock and corrosion residues in Lechuguilla Cave, Carlsbad Caverns National Park, New Mexico. *2000 Annual Meeting of the National Speleological Society*, Programs and Abstracts.

Northup, D.E., P.J. Boston, S.M. Barns, L.E. Bean, C.N. Dahm, **M.N. Spilde**, L.J. Crossey, R.T. Schelble*, and L.M. Mallory (2001) Geomicrobiological Interactions in the Subsurface Environment of Lechuguilla Cave, New Mexico. Abstracts and Programs from the *2001 Earth System Processes Meeting*, Edinburgh, Scotland, Abstract #8025.

Papike, J.J., J.M. Karner*, and **C.K. Shearer** (2001) Mn-Fe Systematics in pyroxene from planetary basalts: An indicator of planetary parentage. *Lunar and Planetary Science Conference XXXII*, Abstract #1009, Lunar and Planetary Institute (CD-ROM).

Pun, A., K. Powell, and G.A. Smith (2000) Assessment of Technology-Enhanced Conceptual Learning in Physical Geology. *2000 Annual Meeting of the School Science and Mathematics Association.*

Pun, A., J.J. Papike, and **C.K. Shearer** (2001) Carbonates of the gunflint banded iron formation as analogs of martian carbonates. *Lunar and Planetary Science Conference XXXII*, Abstract #1331, Lunar and Planetary Institute, Houston (CD-ROM).

Rietmeijer, F.J.M., and G.J. Flynn (2000) A cosmic Fe/Ni signature associated with dust between 34-36 km altitude during May 1985. *Meteoritics and Planetary Science*, 35 (Suppl.), A136.

Rietmeijer, F.J.M., and J.A. Nuth III (2000) The scientific case for sample return from a primitive near-Earth asteroid. *Near-Earth Asteroid Sample Return Workshop*, December 11-12, 2000, LPI Contribution 1073, 40-41, Lunar and Planetary Institute, Houston, TX.

Rietmeijer, F.J.M., and J.A. Nuth, III (2001) Serpentine by hydrogenation of Fe-rich ferromagnesiosilica PCs in aggregate IDPs. *Lunar and Planetary Science Conference XXXII*, Abstract #1219, Lunar and Planetary Institute, Houston (CD ROM).

Rietmeijer, F.J.M., J.A. Nuth III, and S.L. Hallenbeck (2001) Heat-treatment of MgSiO smokes of astrophysical interest: Possible implications for olivine-pyroxene-silica assemblages in chondritic aggregate IDPs. *Lunar and Planetary Science Conference XXXII*, Abstract #1322, Lunar and Planetary Institute, Houston (CD ROM).

Sharp, Z., T. Durakiewicz, and **J.J. Papike** (2001) The effect of thermal decarbonation on stable isotope compositions of carbonates. *Lunar and Planetary Science Conference XXXII*, Abstract #2024, Lunar and Planetary Institute, Houston (CD-ROM).

Shearer, C.K. (2000) W isotopes, Hf-W partitioning, and the duration of magma ocean crystallization. *New Views of the Moon III Conference*, Abstracts with Programs.

Shearer, C.K. (2001) The scientific rationale for Mars sample return. A perspective from 30 years of integrated planetary sample studies. *International Mars Exploration Working Group Meeting*, Abstracts with programs, Pebble Beach, FL.

Shearer, C.K., and G.J. MacPherson (2001) Sometimes a lab is really better. *Workshop on In Situ and Laboratory Science for Mars*, Abstracts with programs.

Shearer, C.K., and K. Righter (2001) Hafnium and tungsten partitioning in silicates. A key to understanding the early evolution of both the Moon and Mars. *Lunar and Planetary Science Conference XXXII*, Abstract #1620, Lunar and Planetary Institute, Houston (CD-ROM).

Shearer, C.K., J.J. Papike, and **J.J. Hagerty*** (2001) Chemical dichotomy of the Mg suite: Insights from a comparison of trace elements in silicates from a variety of lunar basalts. *Lunar and Planetary Science Conference XXXII*, Abstract #1643, Lunar and Planetary Institute, Houston (CD-ROM).

Shearer, C.K., J.J. Papike, and **J.M. Karner*** (2001) Chemistry of olivine from planetary materials. Mn/Fe and trace element systematics in an unusual achondrite: QUE93148. *Lunar and Planetary Science Conference*, Abstract #1634, Lunar and Planetary Institute, Houston (CD-ROM).

Shearer, C.K., L.A. Taylor, and M.A. Nazarov (2001) Trace element crystal chemistry of minerals in Dhofar 019. Implications for the petrogenesis of martian magmas. *Lunar and Planetary Science Conference XXXII*, Abstract #1881, Lunar and Planetary Institute, Houston (CD-ROM).

Shearer, C.K., L.E. Borg, G. Ryder, **J.J. Papike** and L.E. Nyquist (2001) Deciphering ages of impacted basalts using a crystal chemical-ion microprobe approach. An example using the Apollo 17 group D basalt. *In Lunar and Planetary Science Conference XXXII*, Abstract #1851, Lunar and Planetary Institute, Houston (CD-ROM).

Shinglman, K.M., L.A. Melim, P.J. Boston, D.E. Northup, **M.N. Spilde**, and J.M. Queen (2001) Evidence for Microbial Involvement in Pool Finger Precipitation, Hidden Cave, New Mexico. *Geological Society of America*, Abstracts with Programs, 32, A279.

Spilde, M.N., A.J. Brearley, and **J.J. Papike** (2001) Mn-oxide minerals from a terrestrial cave environment: Biomarkers for the search for life on Mars? *Lunar and Planetary Science Conference XXXII*, Abstract #1454, Lunar and Planetary Institute, Houston (CD-ROM).

Spilde, M.N., P.J. Boston, D.E. Northup, C.N. Dahm, L.J. Crossey, L.M. Mallory, R.T. Schelble*, A.J. Brearley, and **J.J. Papike** (2001) Manganese fibers, todorokite, and the Mn-oxidizer connection. *Earth System Processes Meeting*, Abstract #7980, Edinburgh, Scotland.

Spilde, M.N., L.J. Crossey, K.E. Dotson, R.T. Schelble*, D.E. Northup, S.M. Barns, and C.N. Dahm (2000) Biogenic influence on mineral corrosion and deposition at Lechuguilla and Spider Caves, New Mexico. *Geological Society of America*, Abstracts with Programs, 32, A256.

Thorsos*, I.E., **H.E. Newsom**, and A. Davies (2000) Potential for hydrothermal deposits in large martian impact craters, *American Astronomical Society Bulletin.*

Thorsos*, I.E., **H.E. Newsom**, and A.D. Davies (2001) Availability of heat to drive hydrothermal systems in large martian impact craters. *Lunar and Planetary Science Conference XXXII*, Abstract #2011, Lunar and Planetary Institute, Houston (CD-ROM).

5. <u>Professional Travel by IOM Personnel</u>

July 9-12, 2000. Attended the NASA, Space Science Advisory Committee (SScAC) Meeting, Washington, DC. J.J. Papike.

July 17-20, 2000. Attended a Mars Workshop, Lunar and Planetary Institute, Houston, TX. J.J. Papike.

July 21-23, 2000. Field sampling in Spider Cave, Caverns National Park. M.N. Spilde.

July 25, 2000. Visited NASA Headquarters in Washington DC and met with the program director for PACE, Dr. Maryanne Stoutsenberger. H.E. Newsom

August 10-14, 2000. Field sampling in Barrancas Cave, Lincoln National Forest, and Spider Cave, Carlsbad Caverns National Park, New Mexico. M.N. Spilde.

August 14-18, 2000. Attended NASA/Cosmochemistry Panel meeting, Houston, TX. C.K. Shearer.

August 28-September 1, 2000. Attended the 63rd Meteoritical Society Meeting, Chicago, IL. L.E. Borg, C.D.K. Herd, R.H. Jones, and F.J.M. Rietmeijer.

September 11-14, 2000. Attended the NASA MU-SPIN conference in Atlanta, GA, and presented one invited talk "Fun is not enough, encouraging middle school students to pursue careers in MSET". H.E. Newsom.

October 2-6, 2000. MSA Distinguished Lecturer Tour. Gave talks at the University of Toronto, Brock University and the University of Western Ontario. R.H. Jones.

October 9-11, 2000. Attended the CAPTEM Meeting, Houston, TX. C.K. Shearer.

October 12-15, 2000. Attended the Lunar Initiative Meeting, Houston, TX. J.J. Papike, C.K. Shearer, and L.E. Borg.

October 13-15, 2000. Field Sampling in Spider Cave, Caverns National Park. M.N. Spilde.

October 25-27, 2000. Attended the annual meeting of the Division of Planetary Sciences of the American Astronomical Society, Pasadena, CA. H.E. Newsom.

October 31 - November 3, 2000. Attended the NASA, Space Science Advisory Committee (SScAC) Meeting, Jet Propulsion Laboratories (JPL), Pasadena, CA. J.J. Papike.

November 4-12, 2000. Taught Seminars on Laboratory-produced Analogs of Interplanetary Dust Particles at the University of Amsterdam and the Free University of Amsterdam, Amsterdam, the Netherlands. F.J.M. Rietmeijer.

November 13-15, 2000. Attended the Geological Society of America meeting in Reno, NV. C.K. D. Herd, C.K. Shearer, M.N. Spilde.

November 22-26, 2000. Field sampling in Barrancas Cave, Guadalupe Mts., New Mexico. M.N. Spilde

November 27-December 1, 2000. MSA Distinguished Lecturer Tour, Indiana/West Virginia/Ohio. Gave talks at Indiana State University, the University of West Virginia, and Denison University. R.H. Jones.

November 30-December 1, 2000. BBC filming at Four Windows Cave, El Malpais National Monument, New Mexico. M.N. Spilde.

December 10-12, 2000. Attended the Near-Earth Asteroid Sample Return Workshop, Lunar and Planetary Institute, Houston, TX. F.J.M. Rietmeijer.

January 24-26, 2001. Attended the MER 2003 landing site meeting, Ames Research Center, CA, presented one talk. H.E. Newsom.

January 29-February 1, 2001. Attended the SScAC Meeting, Washington, DC. J.J. Papike

February 2001. Attended Tucson Gem and Mineral Show, Tucson, Arizona. A. Pun.

February 2001. Attended a CAPTEM Meeting in Houston, TX. C.K. Shearer.

February 9-11, 2001. Field sampling in Spider Cave, Caverns National Park. M.N. Spilde.

February 16, 2001. Presented an invited talk at the Geophysical Laboratory, Carnegie Institution, Washington, DC. C.D.K. Herd.

February 18-March 2, 2001. MSA Distinguished Lecturer Tour, Europe. Gave talks at the University of Edinburgh, University of Rome Tre, and the University of Modena. R.H. Jones.

February 28-March 4, 2001. Field sampling in Lechuguilla and Spider Caves, Carlsbad Caverns National Park. M.N. Spilde.

March 12-16, 2001. Attended the 32nd Lunar and Planetary Science Conference, NASA/Johnson Space Center, Houston, TX. L.E. Borg, J. Edmunson, C.D.K. Herd, R.H. Jones, H.E. Newsom, J.J. Papike, F.J.M. Rietmeijer, C.K. Shearer and M.N. Spilde.

March 2001. Attended a CAPTEM meeting in Houston, TX. C.K. Shearer.

March 2, 2001. MSA Distinguished Lecturer Tour, New Mexico State University, Las Cruces, NM. R.H. Jones.

March 19-22, 2001. Attended the NASA, Space Science Advisory Committee (SScAC) Meeting, Washington, DC. J.J. Papike.

April 6-12, 2001. Attended the IMEWG Meeting, Cape Kennedy, Cocoa Beach, FL. C.K. Shearer.

April 7, 2001. Attended a field training session in hydrothermal fluid and gas sampling in the Jemez mountains led by Dr. Fraser Goff and Dr. Tobias Fischer. H.E. Newsom.

April 12-14, 2001. Field sampling at Lechuguilla Cave, Carlsbad Caverns National Park. M.N. Spilde.

April 17-20, 2001. Attended the workshop on the Origin and Evolution of Interstellar Silicates, Lorentz Center, Rijksuniversiteit-Leiden, Leiden, the Netherlands. F.J.M. Rietmeijer.

April 30-May 2, 2001. Attended Rocky Mountain-South Central Geological Society of America Meeting, Albuquerque, NM. A. Pun.

May 4-8, 2001. USRA-LPI Science Advisory Committee meeting in Houston, TX. C.K. Shearer.

May 7-8, 2001. Alamogordo, New Mexico to present a talk to Lincoln National Forest District Ranger's Office. M.N. Spilde.

May 9-11, 2001. Attended the Lunar and Planetary Institute Panel Director Search, Houston, TX. C.K. Shearer.

May 24-28, 2001. Attended the International Space Development Conference, Albuquerque, NM. L.E. Borg, J. Edmunson, J.J. Hagerty, R.H. Jones, J. Karner, H.E. Newsom, J.J. Papike, A. Pun, F. Rietmeijer, and C.K. Shearer.

May 25-26, 2001. Attended the Third Annual Canadian Space Exploration Workshop, Montreal, Quebec, Canada. C.D.K. Herd.

June 7-10, 2001. Core Sampling in Spider Cave, Carlsbad, NM. M.N. Spilde.

June 11-15, 2001. Attended the Superbolide Workshop, Los Alamos National Laboratories, Los Alamos, NM. F.J.M. Rietmeijer.

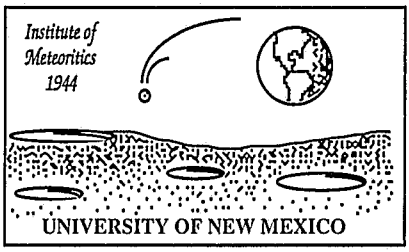
June 18-19, 2001. Attended the NASA Planetary Mappers Meeting, Albuquerque, NM, organized one field trip. H.E. Newsom.

June 21-22, 2001. Attended the Teacher Training Institute, Taos, NM. H.E. Newsom.

June 23-28, 2001. Attended the Earth System Processes meeting, Edinburgh, Scotland. M.N. Spilde.

SECTION II

FACILITIES



II. FACILITIES

1. Curation and Meteorite Museum

As in previous years, the Meteorite Museum has been an important educational and recreational attraction on campus and has been visited by many school groups and tourists. Public interest in the museum and meteorites received considerable stimulation as a result of the announcement in August 1996, of evidence for putative life on Mars and this high level of interest continues. Local interest in meteorites also greatly increased following the fall of the Portales Valley meteorite on June 13, 1998, in Eastern New Mexico. The number of visitors to the museum increased as a result. Our faculty, staff, and students conducted tours for elementary and high schools and other interest groups. The continuing popularity of the Museum and our tours emphasizes the important educational role of this facility for the local community.

The Institute's meteorite collection has continued to be a very important resource for researchers worldwide. We have been quite active loaning and providing samples to a number of scientists. The research agenda and teaching activity within the Institute continues to make extensive use of samples from the collection.

Discoveries of many new meteorites in North Africa in the last few years has made many rare types of meteorites available to our collection through meteorite dealers. During 2000-2001, the Institute was fortunate to obtain samples of several new meteorites, including 3 new martian meteorites, that were not previously represented in the Institute's collection. Some of these samples have been purchased with Institute funds and public donations to the museum. Others have been obtained through exchanges. The Institute's collection now contains samples of approximately 600 meteorite falls and finds from around the world.

2. Experimental Petrology Laboratory

The experimental petrology laboratory includes two vertical muffle tube high temperature furnaces: Deltech furnace and Astro furnace. Both have gas-mixing capabilities and programmable temperature control, and operate up to 1600°C under a wide range of oxygen fugacities. Several different types of experiments are being conducted, including 1) an investigation of pyroxene microstructures formed at different controlled cooling rates, and during various annealing

conditions, 2) measurement of diffusion coefficients, 3) kinetic study of olivine reduction reactions and 4) study of partial melting of an ordinary chondrite.

3. Electron Microprobe and Scanning Electron Microscope Laboratories

The JEOL 5800LV scanning electron microscope (SEM) and the JEOL 733 electron microprobe are sophisticated scientific instruments that provide compositional microanalysis and high magnification electron and x-ray imaging. These services are supplied for Institute, Departmental, and University personnel and for clients external to UNM. Lab personnel train and assist users, generally faculty, staff and graduate students. In addition to training and assisting users on the two instruments, lab personnel also provide analytical service for academic and non-academic clients. Analyses and other work were performed by J. Karner and M. Spilde for the following internal academic clients:

K. Abell, Mechanical Engineering Department, (SEM)
L. Barton, Biology Department (SEM)
L. Borg, Institute of Meteoritics (SEM)
L. Crossey, Department of Earth & Planetary Science (SEM)
A. DuFraine, Dept. of Earth & Planetary Science (SEM & microprobe)
M. Elrick, Dept. of Earth & Planetary Science (SEM)
J. Geissman, Dept. of Earth & Planetary Science (SEM)
L. Gottfried, UNM Health Sciences Department - Dermatology (SEM)
J. Husler, Department of Earth & Planetary Science (SEM)
K. Karlstrom, Dept. of Earth & Planetary Science (SEM & microprobe)
L. Kottunski, Center for High Tech Materials (SEM)
B. Kues, Dept. of Earth & Planetary Science (SEM)
T. Larson, Dept. of Earth & Planetary Science (SEM & microprobe)
R. Loehman, Chemistry & Nuclear Engineering Dept. (SEM)
T. Loveland, Dept. of Earth & Planetary Science (SEM)
J. Luke, NM Engineering Research Inst. (SEM)
N. Olsen, Anthropology Department (SEM)
Z. Sharp, Department of Earth & Planetary Science (SEM & microprobe)
C. Shearer, Institute of Meteoritics (SEM)
S. Simonton, Civil Engineering Department (SEM)
G. Smith, Department of Earth & Planetary Science (SEM)
H. Xu, Department of Earth & Planetary Science (SEM)
Y. Yang, Center for Microengineered Materials (SEM)
K. Yu, Center for Microengineered Materials (SEM)

Analysis were conducted for the following external academic, commercial and government clients:

British Broadcasting Corporation, London, UK (SEM)
Created Opals, Albuquerque (SEM)
Environmental Robotics, Albuquerque, NM (SEM)
New Mexico Museum of Natural History and Science (SEM)
New Mexico Tech (SEM)
QM Technologies, Albuquerque, NM (SEM)
Sandia National Laboratory (SEM)
Sumner Associates, Albuquerque, NM (SEM)
Superior Micropowders, Albuquerque, NM (SEM)
TPL Inc., Albuquerque, NM (SEM)
University of North Dakota (SEM)
Western Illinois University (SEM)

Personnel from the labs provide training for graduate students, faculty/staff and users external to UNM. The probe currently has fourteen Departmental and IOM users. The SEM has thirty trained users from UNM, NM Tech, Sandia National Lab, NM Museum of Science and Natural History, along with a number of trained commercial users. Two new users were trained on the microprobe and nine on the SEM this year.

In addition to providing analytical services to the community, the labs are also involved in educational classes and public outreach programs. Presentations of general science interest were given to middle and high school classes and other groups. Throughout the year, we hosted Cleveland, Ernie Pyle, Jackson and Wilson Middle Schools from Albuquerque and Espanola High School, all of which were part of the Math and Science Achievement group (NMMESA). In May, the International Space Development Conference was held in Albuquerque, and the SEM lab provided demonstrations for a large number of interested people that were bused from the meeting. In June, the lab hosted a group of planetary mapping scientists from a meeting at the NM Museum of Natural History for lectures and demonstrations.

4. The UNM/SNL Ion Microprobe

A CAMECA IMS 4f Secondary Ion Mass Spectrometer (SIMS), originally purchased by Sandia National Laboratories (SNL) in 1989, is located in the

Advanced Materials Laboratory on the UNM South Campus. This instrument is used primarily for trace level (ppb range) chemical analyses on small (<30 micrometers) areas. In addition, it is also used for determining the isotopic signatures of small domains within geochemically significant specimens. This machine is also used for determining high resolution (< 10 micrometers) chemical depth profiles within geological and engineered materials. This instrument is jointly operated and managed by IOM and SNL Department 1823. The IOM operator is Charles Shearer.

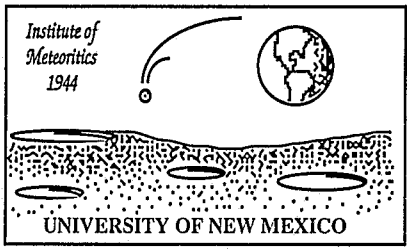
J.J. Papike and C.K. Shearer are currently in the process of negotiating with SNL the transfer of this 2 million dollar facility to UNM. It is anticipated that the transfer will occur in September of 2001.

NSF and NASA Users of the Facility: 1 July 2000 – 30 June 2001

Brearley, Adrian, UNM
Dyer, M. Darby, Mount Holyoke College
Grew, Ed, University of Maine
Guidotti, Charles, University of Maine
Heikoop, Jeff, Los Alamos National Lab
Hickmont, Don, Los Alamos National Lab
Jones, Rhian, UNM
McKay, D., Johnson Space Center
McKay, Gordon, Johnson Space Center
Rao, M.N., Johnson Space Center
Righter, K., University of Arizona
Schwandt, Craig, Johnson Space Center
Shervais, John, University of Utah
Spilde, Mike, UNM
Taylor, Larry, University of Tennessee

SECTION III

TEACHING



III. TEACHING

1. Courses Taught

Summer 2000

EPS 101 "Physical Geology", taught by A. Pun.

Fall 2000

EPS 465/565 "Mars Evolution", taught by J.J. Papike, Co-taught by L. E Borg, R.H. Jones, H.E. Newsom, and C.K. Shearer.

EPS 210 "Life in the Universe", R.H. Jones (Guest Lecturer).

EPS 101 "Physical Geology", taught by A. Pun.

2000 IOM/EPS Seminar

September 11, 2000. Chondrites. R.H. Jones

September 18, 2000. Siderophile elements and planetary and nebular heterogeneity. H.E. Newsom.

September 25, 2000. Petrology of the martian meteorites. R.H. Jones.

October 2, 2000. The Lunar Magma Ocean. J.J. Papike, and C.K. Shearer.

October 9, 2000. Serial Magmatism on the Moon. L.E. Borg.

October 23, 2000. An overview of the Geology of Mars. J.J. Papike

October 30, 2000. Isotopes and trace elements in the martian meteorites. L.E. Borg.

November 6, 2000. Oxygen Fugacity and geochemical variations in the martian meteorites. C.D.K. Herd.

November 20, 2000. Mobile element transport on Mars: Clues to planetary scale processes? H.E. Newsom.

Spring 2001

EPS 365 "Exploring the Solar System", taught by J.J. Papike, Co-taught by L.E. Borg, R.H. Jones, H.E. Newsom, F.J.M. Rietmeijer, and C.K.Shearer.

EPS 531 "Igneous Petrology", taught by C.K. Shearer.

EPS 523 "Microstructure and Monazite Dating", M.N. Spilde co-taught with Karl Karlstrom.

EPS 402 "Environmental Mineralogy", F.J.M. Rietmeijer (Guest Lecturer).

EPS 300 "Teaching Geologic Concepts", taught by A. Pun.

EPS 201 "Earth History", F.J.M. Rietmeijer (Guest Lecturer).

EPS 101 "Physical Geology", taught by A. Pun.

2001 IOM Research Seminar Series

January 22, 2001. The age of Dhofar 019 and its relationship to the other martian meteorites. L.E. Borg.

January 29, 2001. Leonids and IDPs: Feedback. F.J.M. Rietmeijer.

February 5, 2001. The Lunar Mg-suite. Did it fall from the sky? C.K. Shearer.

February 12, 2001. Dar al Gani 476 High-Si Glasses and Their Effect on Geochronology. J. Edmunson.

February 19, 2001. Mn minerals in Lechuguilla Cave: Potential Biomarkers. M.N. Spilde.

February 26, 2001. Chemistry of olivine from planetary basalts: Earth-Moon comparisons emphasizing Mn/Fe and Co/Ni systematics. J.M. Karner.

March 5, 2001. Impact crater landing sites on Mars. H.E. Newsom.

March 26, 2001. Carbonates from the Gunflint Banded Iron Formation. A. Pun.

April 2, 2001. Insights into martian magmatism gained from martian meteorites; emphasis on spinel, olivine and phase equilibria. C.D.K. Herd.

April 9, 2001. Eros: A Near Earth Asteroid. R.H. Jones

April 16. 2001. Apollo-14 High-Alumina Basalts: Background and Preliminary Findings. J. Hagerty.

April 23, 2001. Chemical Systematics of Major, Minor, and Trace Elements in Lunar Spinels. J.J. Papike.

2. **Student Committees**

Graduate Student Advisement

Student	Committee	IOM Committee Members
Neyda Abreu	M.S.	Rhian Jones (Committee)
Lisa Chizmadia	M.S.	Rhian Jones (Committee)
Jennifer Edmunson	M.S.	J.J. Papike (Academic Advisor) L.E. Borg (Research Advisor) C.K. Shearer (Committee)
Justin Hagerty	Ph.D.	J.J. Papike (Academic Advisor) C.K. Shearer (Research Advisor)
	M.S.	H.E. Newsom (Research Advisor)
Christopher Herd	Ph.D.	J.J. Papike (Advisor) C.K. Shearer (Committee)
Jim Karner	Ph.D.	J.J. Papike (Advisor) C.K. Shearer (Committee)
Melissa Pfeffer	M.S.	F.J.M. Rietmeijer (Committee)
Ivan Thorsos	Ph.D.	H.E. Newsom (Research Advisor)

Undergraduate Student Advisement

Student	IOM Advisor
Carolyn Aramovich	J.J. Papike/C.D.K. Herd
Charles Barber	H.E. Newsom
Rae Carey	R.H. Jones

3. Progress of Earth and Planetary Sciences Department Graduate Students Supported by IOM

Jennifer Edmunson finished her first year as a research assistant in the Master's program. She is studying the rubidium, strontium, and rare earth element abundances in different phases in martian meteorites using microbeam techniques. The information gathered will potentially explain complexities in the isotopic dating of martian samples. Jennifer plans to graduate with her Master's degree in spring of 2002.

Jennifer attended the 32nd Lunar and Planetary Science Conference in March, where she presented a poster entitled "High-Si glasses in basaltic shergottite Dar al Gani 476 and their implications for geochronology".

Justin Hagerty received his Master's degree in Earth & Planetary Science in May 2001. In continuance of his education, he entered the PhD program in January of 2001. During his doctoral research Justin will study the trace element geochemistry of the Apollo-14 high-alumina basalts in order to determine if they are the result of impact or igneous processes. This work will provide information concerning early magmatism on the moon.

In July 2000, Justin began working part time as a laboratory technician in the Secondary Ion Mass Spectrometry (SIMS) lab.

Justin attended the 32nd annual Lunar and Planetary Science conference in Houston, Texas where he gave an oral presentation titled, "Hydrothermal activity at the Lonar Lake impact structure: Implications for impact cratering on Mars." He also presented two posters titled "Trace element variability in the Apollo-14 basalts: A result of igneous processes or sample size" and "Meteorite or meteor-wrong: A student exercise."

Chris Herd passed his Ph.D. defense with distinction on April 6, 2001, and graduated in July, 2001. The first and most extensive section of his dissertation, focusing on the oxygen fugacity of the martian basalts, has been accepted for publication in American Mineralogist. The interpretation of the oxygen fugacity results and correlations with geochemical parameters is currently in review for Geochimica et Cosmochimica Acta. His experiments that were carried out with Dr. John Jones at the Johnson Space Center, resulted in another chapter of the dissertation that will be submitted to American Mineralogist shortly. Ion probe work on transition-series elements in martian olivines is complete, and a small amount of additional work in the future will result in publication of that chapter as well. Chris also helped supervise Carolyn (Carrie) Aramovich on her senior thesis, titled, "Late-state assemblages and textures associated with pyroxferroite and metastable pyroxenes in the martian basalts". This was submitted for review in American Mineralogist. Chris has accepted a postdoctoral position at the Lunar and Planetary Institute in Houston, to continue studies of martian meteorites with researchers at the LPI and the Johnson Space Center.

Chris served as co-chair for the Martian Meteorites session at the 32nd Lunar and Planetary Science conference. He also served as co-chair for the Planetary Geology breakout group at the 3rd Canadian Space Exploration Workshop.

An invited oral presentation was given to the New Mexico Microbeam Users Group titled, "Electron microprobe analysis of oxygen: implications for spinel stoichiometry and the oxidation states of martian basalts", on May 3, 2001.
An oral presentation was given at the 63rd Annual Meeting of the Meteoritical Society titled, "Oxygen Fugacity of the Martian Basalts from analysis of Fe-Ti oxides: Implications for mantle-crust interaction on Mars".

An invited oral presentation (Green Chile Seminar) was given to the Earth and Planetary Sciences Department titled, "Basalts from Mars: Secrets of the Red Planet's Interior", on February 2, 2001.

An invited oral presentation was given at the Geophysical Laboratory, Carnegie Institution, Washington, DC, titled, "Oxygen fugacity variations in the martian basalts: Implications for the oxidation state of the martian mantle and the petrogenesis of martian igneous rocks", on February 16, 2001.

An oral presentation was given at the Geological Society of America Annual Meeting titled, "Systematics of oxygen fugacity and geochemical variations in the

martian basalts: Implications for martian basalt petrogenesis and the oxidation state of the upper mantle of Mars".

A poster presentation was given at the 32nd Lunar and Planetary Science conference titled, "Systematics of Ni, Co, Cr, and V in olivine from planetary melt systems: Martian basalts".

An oral presentation was given at the 32nd Lunar and Planetary Science Conference titled "Controls on oxygen fugacity during Martian meteorite petrogenesis: Clues from geochemical correlations".

A poster presentation was given at the 3rd Canadian Space Exploration Workshop titled, "Evidence for hydrous minerals in the martian crust from studies of basaltic martian meteorites: What we might find among rocks returned from Mars".

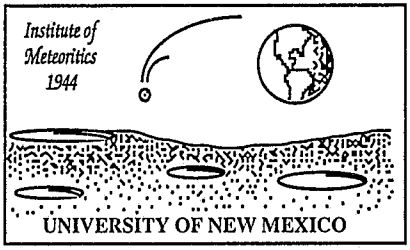
Jim Karner is currently working on his dissertation while working part time as the laboratory technician in the Microprobe and SEM labs. His dissertation focuses on the major, minor, and trace element chemistry of silicate minerals in basalts in a comparative planetology study. Jim was recently awarded a New Mexico Space Grant Consortium fellowship that will help fund his research.

Jim also volunteers his time to a couple of the Institute's public outreach activities. He works with Dr. Horton Newsom and Justin Hagerty in designing and implementing space-based inquiry activities for middle school students involved in the MESA program. Jim also assists Dr. Rhian Jones in analyzing and identifying suspect meteorite samples as a public service to anyone who brings or sends their samples in.

An oral presentation titled "Chemistry of olivine from planetary basalts: Earth-Moon comparisons emphasizing Mn/Fe and Co/Ni systematics" was given at the 31st Lunar and Planetary Science Conference.

SECTION IV

DEPARTMENTAL AND UNIVERSITY ACTIVITIES



IV. DEPARTMENTAL AND UNIVERSITY ACTIVITIES

R.H. Jones

Curator of Meteorite Collection

Manager of Experimental Petrology Laboratory

Member of UNM Museum Directors' Consortium

Member of UNM Museum Studies Committee

Attended Risk Management Seminar for UNM collections managers, NM Museum of Natural History and Science. September 18, 2001.

Worked with Chip Ware, Director of the Jonson Gallery, to incorporate a meteorite into "Space Odysseys 2001" art exhibition running from May-August, 2001.

Presented talk, "Martian Meteorites: A Sneak Preview of Samples from our Neighbor Planet", EPS 401/501 Colloquium Series. January 19, 2001.

H.E. Newsom

Member, New Mexico Space Grant Faculty Advisory Board

Educational Outreach Coordinator and Director of TOPPS (Training and Outreach Programs in Planetary Science), for the Institute of Meteoritics

Graduate committee member for the following College of Education Ph.D. graduate Students: Bill Robertson, Carmen Sorge.

J.J. Papike

Director of the Institute of Meteoritics

Member of Earth and Planetary Sciences Facilities Committee

Chair, Earth and Planetary Science Long Range Planning Committee

A. Pun

Adjunct Assistant Professor, Department of Earth & Planetary Sciences, University of NM.

F.J.M. Rietmeijer

Co-Organizer of the Institute of Meteoritics Open House and Museum tour, an official event associated with the International Space Development Conference, Albuquerque, May 25, 2001 (with R.H. Jones and IOM students).

C.K. Shearer

Manager, SIMS Laboratory

Member of Earth & Planetary Sciences Facilities Committee

M.N. Spilde

Manager of the Electron Microprobe and Scanning Electron Microscope Labs

Served on Department of Earth & Planetary Sciences Computer Committee

Visitors to IOM

September 27-28, 2000. Dr. Bevan French of the Smithsonian Museum, Department of Mineral Sciences presented a hands on tutorial on "Recognizing Shock Metamorphic Effects in Minerals". He also presented talks on "Traces of Catastrophe; Shock Metamorphic Effects in Rocks and Minerals from Terrestrial Meteorite Impact Craters" and "Current Research on Impact Cratering at Sudbury Canada, Gaadnos Norway, and Vredefort South Africa".

November 6-7, 2000. Dr. Joe Goldstein, University of Massachusetts, visited the Institute of Meteoritics.

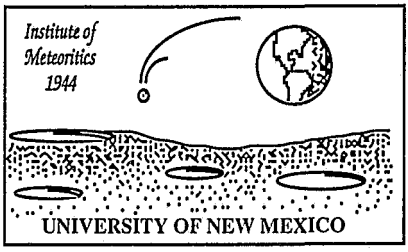
November 17-23, 2000. Dr. Leslie Melim, Western Illinois University, collaborate with M. Spilde on geomicrobiological research on the SEM.

January 26, 2001. Dr. Robert Reedy of Los Alamos National Laboratory, presented a talk "Cosmogenic Nuclides in Planetary Materials".

April 5-8, 2001. Dr. John Jones of NASA Johnson Space Center, visited the Institute of Meteoritics.

SECTION V

PROFESSIONAL ACTIVITIES



V. PROFESSIONAL ACTIVITIES

In addition to the activities listed below, members of IOM reviewed numerous manuscripts for international journals and proposals submitted to federal funding agencies.

R.H. Jones

Mineralogical Society of America Distinguished Lecturer, 2000-2001. Presented talks entitled "From stardust to asteroids: Meteorites and their record of solar system formation: and "Martian meteorites: A sneak preview of samples from our neighbor planet" at ten universities including institutions in the USA, Canada, United Kingdom, and Italy.

H.E. Newsom

Associate Editor, *Geochimica et Cosmochimica Acta*, Journal of the Geochemical Society and the Meteoritical Society.

Review panel member, NASA Office of Space Sciences Education and Public Outreach Program, Fall 2000.

J.J. Papike

Member, NASA Cosmochemistry, Management and Operations Working Group (MOWG), 1997-2000.

Member, NASA/JSC, Astromaterials Working Group (AWG), 1998-2000.

Member, NASA Mars Exploration Architecture Replanning Peer Review Group, 1999-2000.

Member, NASA Space Science Advisory Committee (SScAC), 1999-2001.

National Academy of Sciences, Solar System Exploration Survey Committee. Charged with writing the NASA decadal plan for Solar System Exploration, 2001-2001.

Member, NASA "Mars Exploration Program/Payload Analysis Group" (MEPAG), 2001.

A. Pun

Co-Chair, Educational Program, Rocky Mountain-South Central Geological Society of America Meeting, April 30th - May 2, 2001, Albuquerque.

Fieldtrip Co-leader, NAGT Field Trip: Learning Geology in the Field-Old Mountain Belts to Young Volcanoes near Albuquerque, Rocky Mountain-South Central Geological Society of America Meeting, April 30th - May 2nd, 2001, Albuquerque, NM.

Assisted Geology Museum Curator at Tucson Gem and Mineral Show, February 2001, Tucson, AZ.

Assisted Geology Museum Curator at Albuquerque Gem and Mineral show, March 2001, Albuquerque, NM.

F.J.M. Rietmeijer

Co-organizer of the Astrogeology Symposium at the International Space Development Conference, Albuquerque, May 24, 2001 (with J.J. Papike).

Co-editor of a book entitled Leonid Storm Research, 606 p. by P. Jenniskens, F.J.M Rietmeijer, N. Brosch, and M. Fonda, Editors, Kluwer Academic Publishers, Dordrecht, the Netherlands.

International Adjudication of the Ph.D thesis entitled "Exploration and exploitation strategy for corundum at Wira Khammam District, Andhra Pradesh, India", for the Andhra University, Visakhapatnam, India.

Volunteer Editor for the Journal of Geophysical Research, American Geophysical Union.

C.K. Shearer

USRA member of the review committee for the Lunar and Planetary Institute.

American Mineralogist Associate Editor.

Convener and organizer for Moon III Workshop to be held in Houston, Texas, October, 2000.

Chair, CAPTEM Lunar Allocation Subcommittee, 2000.

Member, NASA Cosmochemistry Review Panel (CCRP), 2000.

Mike Spilde

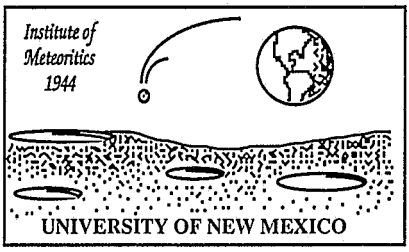
Served as President of the New Mexico Microbeam Users Group.

SECTION VI

EDUCATIONAL OUTREACH

AND

PUBLIC SERVICE



VI. EDUCATIONAL OUTREACH AND PUBLIC SERVICE

1. Meteorite Museum

The Meteorite Museum is the most important focus of the Institute of Meteoritics' educational outreach. Several thousand people of all ages visit the Museum each year and many school parties visit the Museum to enhance scientific projects in Earth Sciences and Solar Systems studies. IOM personnel commonly volunteer to give guided tours of the Museum and laboratories to groups of visiting students, from preschool age to senior citizens.

Several members of IOM have visited schools in the area to give talks on various aspects of planetary sciences. IOM participated in Astronomy Day held at Coronado Center on April 21, 2001, and the exhibit generated considerable interest. In addition to the public education provided by the Museum, we are routinely consulted by members of the public to help identify suspect meteorites and to provide information on meteorites and associated phenomena. During the period of this report, we examined over 150 samples, four of which have proved to be meteorites. We have met and corresponded with numerous people from all over the world in providing this service.

2. Public Service

J. Hagerty

Helped to coordinate and conduct tours of the SEM laboratory and the Meteorite Museum for students from the MESA and SIPI educational programs.

C. Herd

Assisted with Astronomy Day activities at Coronado Mall, April 29, 2000.

R.H. Jones

Coordinated and conducted tours of the Meteorite Museum for visiting schools, UNM students, and other interested groups.

Identified numerous suspect meteorites received in person and in the mail from members of the public and answered many e-mail and telephone inquiries.

Gave a talk about the Solar System to a kindergarten class at Bandelier Elementary School, followed by hosting field trips to the Meteorite Museum for two kindergarten classes. February, 2001.

Worked with teachers at A Child's Garden preschool to prepare summer science program, including field trips to the Geology and Meteorite Museums.

Set up and coordinated the IOM meteorite exhibit at Astronomy Day, Coronado Mall, Albuquerque. April 21, 2001.

Set up an Institute of Meteoritics exhibit at the International Space Development Conference, Albuquerque, NM. May 24-28, 2001.

Gave talk entitled "Meteorites" to the Friends of Paleontology, New Mexico Museum of Natural History and Science. July 19, 2000.

Gave talk entitled "Meteorites: Faraway Times, Faraway Places" at the Santa Fe Planetarium. April 25, 2001.

Jim Karner

Identified numerous suspect meteorites received in the mail from members of the public and answered telephone and e-mail queries. Also, met with people who personally brought in samples for examination.

Assisted in developing and performing educational outreach activities for the MESA program, a science and math initiative for middle school students.

H.E. Newsom

Educational Outreach Coordinator, Institute of Meteoritics.

With Dr. Jurg Bolli, Department of Mathematics and Statistics, renovated the impact crater displays in the IOM Meteorite Museum.

Assisted with Astronomy day activities at Coronado Mall, April 21, 2001.

Presented a talk at the Santa Fe planetarium, February 28, 2001, "Where should we look for life on Mars?"

Assistant Scoutmaster, Space Sciences and Astronomy Merit Badge Advisor, Boy Scout Troop 119, Albuquerque, NM.

Met with numerous members of the public who brought in suspect meteorites.

J.J. Papike

Numerous discussions with the media concerning planetary issues.

F.J.M. Rietmeijer

Lecture for the Albuquerque Gem & Mineral Club, "Sampling comets and asteroids", NM Museum of Natural History, September 25, 2000.

Lecture for the Institute of Meteoritics Open House, International Space Development Conference, "How to study the bodies in the solar system by analyzing collected samples", May 25, 2001.

C.K. Shearer

Conducted tours of ICP-MS and SIMS labs.

M.N. Spilde

Assisted a BBC TV crew with on-site filming of the SEM.

Provided SEM images for several publications dealing with science education.

Presented a talk on caves to Boy Scout Troop 119, Albuquerque, in October, 2000.

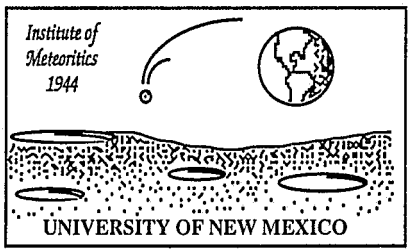
Assisted a Rio Rancho High School student with a science fair project on mineral dissolution.

Presented a talk on the importance of preserving caves for scientific study to Lincoln National Forest District Ranger's Office, Alamogordo, NM, May 8.

Provided demonstrations and tours of the SEM lab for the International Space Development Conference and for planetary mapping scientists from a meeting held at the NM Museum of Natural History.

SECTION VII

PUBLICITY



VII. PUBLICITY

1. Departmental Activities

During the year, IOM has seen a continued increase in the number of inquiries concerning suspect meteorites, as well as general information concerning the composition of meteorites, where to search for meteorites, etc. This in turn has created media attention toward our department. Our staff participates and cooperates with the various newspapers, periodicals, radio and television requests to the best of our ability and resources.

Rhian Jones

Interviewed by NPR program, "Earth and Sky". May 17, 2001.

Horton Newsom

UNM Press release, September 8, 2000 - "New study of mid school students offers clues about low numbers choosing technical careers" A report on the paper published by Newsom et al., 2000, in the *Hispanic Journal of Behavioral Sciences.*

October 2, 2000, story in Albuquerque Public Schools, *Perspectives*, "New study of mid school students offers clues about low numbers choosing technical careers.

"Who me a scientist?" interview and taped segment about Dr. Newsom's outreach to middle school students aired on KRQE-TV, October 15, 2000.

October 16, 2000, *UNM Campus News*, p. 3, "Fun not enough to attract youth to science, UNM study reveals". A report on the paper published by Newsom et al., 2000, in the *Hispanic Journal of Behavior Sciences.*

UNM Press release, December 14, 2000 - "Stars on Earth Program receives three-year grant to provide research experience to high school students." Reported on a new NASA grant involving a partnership between the Southwest Indian Polytechnic Institute and UNM represented by Dr. Newsom.

Albuquerque Journal, and AP wire story, December 19, 2000, "SIPI Students to help ID meteorites" regarding a new NASA grant with the Southwest Indian Polytechnic Institute and UNM represented by Dr. Newsom.

The Native Circle, a Native American Newsletter: February 2001, "SIPI Upward Bound", and "Hubble's 20/20 Vision". Articles about the Southwest Indian Polytechnic Institute programs including the involvement of Dr. Newsom and an interview with him about the space telescope.

Albuquerque Journal story, April 7, 2001, "LANL Team Eager to Search for Water on Mars", Dr. Newsom was interviewed and quoted for this story.

M.N. Spilde

Filmed by BBC TV film crew as part of the series "Space: Are We Alone?", November 30-December 1, 2000. The program aired in the United Kingdom in the Spring of 2001.

Interviewed by National Public Radio for a piece entitled "DNA Files" on June 9, 2001. The program will air in the Fall of 2001.

THE ANNUAL REPORT OF THE DEPARTMENT OF ECONOMICS

July 1, 2000 – June 30, 2001

Richard Santos, Chair

1. Significant Developments During the 2000-2001 Academic Year

The Economics Department underwent an external graduate unit review, Fall 2000; the department's formal response to the review was submitted to the Chair of the Faculty Senate Graduate Committee, Spring 2001.

Overall, the graduate review team found: " a number of aspects of the program to be commendable. The faculty are productive, the graduate students seemed satisfied with many aspects of the program (including the quality of the graduate teaching program), and the student credit-hour production of the department is notable, given its small faculty size. The publication record of the department is good and many of the faculty are highly regarded in their fields", p.1 of the report.

Major concerns of the external graduate unit review team included issues of governance and creation of an international economics field. In response, the department adopted new rules of governance, and an international field proposal was endorsed by the faculty. Other recommendations of the graduate review team will continue to be considered by the department.

Richard Santos began his first year as department chair, August 2000.

Deborah Anderson resigned at the end of the 2000-01 academic year; she accepted a faculty position at the University of Arizona.

David Brookshire was on sabbatical for the 2000-01 academic year.

Kishore Gawande returned from sabbatical, January 2001.

Thefts in the social sciences bldg are a major problem; over $28,000 of computer equipment and other miscellaneous items were stolen without forced entry from secured offices. The department worked with the police and physical plant (cleaning services) to increase security measures. A burglar alarm costing $2500 was installed to prevent thefts; the problem of thefts in the building in secure locations however remains a major concern.

A published study (Brookshire and Scrogin, 2000) in the Journal of Environmental Economics and Management calculated that the UNM economics department ranks in the top 15 institutional contributors to articles published in this prestigious journal since its inception in 1974.

Faculty grant awards (external and internal) increased significantly during the year.

The Gerald Boyle Memorial Graduate Student Award in Economics was permanently endowed with the UNM foundation, Spring 2001; funds will be used to support deserving graduate students in economics, with a field in public finance.

2. Significant Plans and Recommendations for the Near Future

"It is our belief that with significant changes in governance and with additional faculty members the department can greatly improve." p. 1 of the graduate review report, Fall 2000.

New changes in governance have been adopted by the department and implementation of these changes (e.g. salary, hiring, etc) will be assessed as to its impact on the department.

Faculty hiring requests to the university will be a major priority of the department; we will identify areas of hiring through an assessment of the department's needs for the future.

3. Publications

Eleven of the department faculty had seventeen journal articles in the 2000 calendar year.

Ben-David, S., Brookshire, D., Burness, S., McKee, M., Schmidt, C. 2000 "Attitudes Toward Risk and Compliance in Emission Permit Markets." *Land Economics* 76:590-600

Bohara, A., Berrens, R., Silva, C., Brookshire, D., McKee, M. 2000 "Tests of Scope, Information, and Temporal Reliability: Contingent Values for New Mexico Instream Flows" *Journal of Environmental Management* 58:73-90

Baker, K. McKee, M. 2000 "Increasingly Contested Property Rights and Trading in Environmental Amenities" *Land Economics* 76(3):333-344

Berrens, R., McKee, M. 2000 "Balancing Army and Endangered Species Needs: Green vs. Green." *Environmental Management* 27(1):123-134

Berrens, R., Bohara, A., Scrogin, D. 2000 "Policy Changes and the Demand for Lottery-Rationed Big-Game Hunting Licenses." *Journal of Agricultural and Resource Economics* 25(2):501-519

Berrens, R. 2000 "Reluctant Respondents and Contingent Valuation Surveys" *Applied Economics Letters* 7(4):263-266

Brookshire, D., Scrogin, D. 2000 "Reflections upon 25 Years of the *Journal of Enviornmental Economics and Management" Journal of Economics and Management* 39:249-263

Cavlovic, T., Baker, K., Berrens, R., Gawande, K. 2000 "A Meta-Analysis of Environmental Kuznets Curve Studies" *Agricultural and Resource Economics Review* 29(1):32-42

Coes, D. "International Market Integration and is Potential Effects on Income Distribution in Brazil." Proceedings, *Business Association of Latin American Studies*, April 2000

Ganderton, P., Hineline, D. 2000 "Flat Tax, Equity and Politics" Social Sciences Research Network – electronic journal

Ganderton, P., Brookshire, D., McKee, M., Stewart, S., Thurston, H. 2000 "Buying Insurance for Disaster-Type Risks: Experimental Evidence" *Journal of Risk and Uncertainty* 20(3):271-289

Gawande, K., Bohara, A. 2000 "Errors in Variables Bounds in a Tobit Model of Endogenous Protection" *Southern Economic Journal* 66(4):881-905

Gawande, K., Bohara, A., Berrens, R., Wang, P. 2000 "Internal Migration and the Environmental Kuznets Curve for US Hazardous Waste Sites" *Ecological Economics* 33(1):151-166

Harbaugh W.T., Krause, C. 2000 "Children's Altruism in Public Good and Dictator Experiments." *Economic Inquiry* 38(1):95-109

Krause, K. 2000 "Tax complexity: Problem or Opportunity." *Pubic Finance Review* 28(5)

Scrogin, D., Berrens, R. 2000 "Effects of Permit Quotas on Lottery-Distributed Hunting Privileges: Case of Elk Hunting in New Mexico" *Southwestern Journal of Economics* 3(1):155-175

Stewart, S., McKee, M., Berrens, R., Bohara A., Brookshire D. 2000 "Parallelism in the Lab and the Field: Testing the Robustness of the MCS Mechanism" *Pacific Economic Review* 5(3):429-446

Other faculty publications in the 2000 calendar year.

Berrens, R., 2000 "Review of: Valuation and Environment: Theory, Methods, and Practice. (Martin O'Connor and Clive Spash, Eds.)." *Journal of Environmental Planning and Management* 43(5):750-751

Santos, R., Seitz, P. 2000 "Benefit Coverage for Latino Workers" in Moving Up the Economic Ladder: Latino Worker and the Nation's Future Prosperity. S. M. Perez, ed. National Council of La Raza: Washington DC

4. Outside Professional Activities

Eight faculty members presented eighteen papers at professional meetings in the 2000 calendar year.

Anderson, D. "If You Let me Play: The Effects of Participation in High School Athletics of Students' Educational and Labor Market Outcomes." Presented as the annual meeting of the Population Association of America, Los Angeles, CA, March 2000

Anderson, D. "If You Let me Play: The Effects of Participation in High School Athletics of Students' Educational and Labor Market Outcomes." Presented as the annual meeting of the American Education Finance Association, Austin, TX, March 2000

Brookshire, D., Campana M., Matthews, P. "Value of Water in the Americas." Workshop funded by Office of Sustainable Development NOAA and sponsored by Inter-American Water Resources Network, Caracas, Venezuela, September 2000

Brookshire, D., Matthews, P. "Non-Market Valuation as Applied to Nature Conservancy Sites in Latin American" The nature Conservancy, Caracas, Venezuela, September 2000

Brookshire, D., Burness, S., Chermak, J. "Integrated Resource Management Modeling: Applications to the San Pedro River" Workshop for Thrust Area 5, University of Arizona, Tucson, AZ, October 2000

Burness, S. "Demand Management and Hydrology" Workshop for Thrust Area 5, University of AZ, Tucson, AZ, June 2000

Chermak, J., Brookshire, D., Desimone, R. "Benefit Transfers: A Case Study of the Middle Rio Grande" Tenth Annual conference of the European Association of Environmental and Resource Economist, University of Crete, Rythmno, Greece, June 2000

Chermak, J., Patrick, R.H., "A Microeconometric Test of the Theory of Exhaustible Resources" Tenth Annual Conference of the European Association of Environmental and Resource Economist, University of Crete, Rythmni, Greece, June 2000

Chermak, J., Patrick, R.H., "Reconciling Empirical Tests of the Theory of Exhaustible Resources." 112th Annual Meeting of the American Economic Association, Boston, MA, January 2000

Coes, D. "Privatization and Income Distribution: Brazil" Latin American Studies Association, Miami, FL, March 2000

Krause, K. "The Motherhood Penalty: Are Big Kids to Blame?" Sloan/Berkeley Conference on Work and Families, February 2000

Krause, K. "Subjective Probability Weights Over Gains and Losses: Children and Adults" Economics Science Association Meeting, September 2000

McKee, M., Blackwell, C. "Only for My Neighborhood? Preferences and Voluntary Provision of Local Versus Global Public Goods" Public Choice Society Meeting, Charleston, SC, March 2000

McKee, M., Blackwell, C. "Audit Costs and Tax Compliance" Economics Science Association Meeting, Tucson, AZ, Septmber 2000

McKee, M., Blackwell, C. "We're All Capitalist Now: Experiments on donating to Public Goods in Transition Economies" Economic Science Association Meeting, Tucson, AZ, September 2000

McKee, M. Kadchnikova, V. "The Role of Government in Encouraging Foreign Investment: Evaluation of the Kazakhstan Policies and Programs" International conference on Public/Private Cooperation at Ural State Technical University, Ekaterinburg, Russia, May 2000

Sauer, C. "Underdevelopment Traps: Empirical Evidence on Threshold Externalities and complementarities in Growth" Western Social Science Association Annual Conference, San Diego, CA, April 2000

Sauer, C. "International Financial Management for Economics Development" International Symposium on Public/Private Partnerships, Ekaterinburg, Russia, May 2000

Sauer, C. "The Role of Universities and Academic Economists in Shaping Public Policy" International Symposium on Public/Private Partnerships, Ekaterinburg, Russia, May 2000

Seven faculty members were invited speakers to universities in the 2000 calendar year.

Berrens, R., Bohara, A, Jenkins-Smith, H., Silva, C. Weimer, D. "Internet vs. Telephone in Contingent Valuation: Application to the Kyoto Protocol." Annual conference, International Institute of Fisheries Economics and Trade, Oregon State University, Corvallis, OR, July 2000

Berrens, R., Bohara, A., Cavlovic, T., Shar, W.D., "Valuing the Loss of Access to Rock Climbing in Wilderness Areas: A National Level Random Utility Model." Boulder Workshop in Environmental Economics, University of Colorado, Boulder, CO, July 2000

Bohara, A., Gawande, K., Sanguinetti, P., "The Political Economy of Regional Trade Agreements." Evidence, Empirical Issues in International Trade Conference, University of Colorado, Boulder, CO, November 2000

Chermak, J., Krause, K. "Individual Responses and Intergenerational Common Pool Problems: New Jersey Institute of Technology, Graduate Program in Environmental Policy Studies Seminar Series, Newark, NJ, February 2000

Coes, D. "A Globalizacao e seus Efetios Potenciais sobre a Distribuicao da Renda Brasileira" Universidade Federal do Espirito Santo, Brasil, July 2000

Gawande, K. "The Political Economy of Regional Trade Agreements: Evidence" Yale University, Leitner Conference on Regional Trade Agreements, April 2000

Gawande, K. "Inspections, Violations, and Oil Spills: Theory and Evidence" Law, Economics, and Organization Seminar University of Chicago, Graduate School of Business, May 2000

Gawande, K. "Inspections, Violations, and Oil Spills: Theory and Evidence" Seminar in Microeconomic Theory, University of Texas at Austin, TX, September 2000

Gawande, K. "Exclusion for Sale: A Test of the Grossman-Helpman Model of Free Trade Agreements" Southern Methodist University, Department of Economics, November 2000

Gawande, K. "Exclusion for Sale: A Test of the Grossman-Helpman Model of Free Trade Agreements" Florida International University, Department of Economics, December 2000

Sauer, C. "Interest Rates, Inflation Uncertainty, and Monetary Policy" Institut for Volkswirtschaft, Universitat Hannover, Hannover, Germany, May-June 2000

Other Outside Professional Activities for 2000 Calendar year.

Chermak, J., Sprigg W., "Southwest Regional Climate Assessment Report" Draft report prepared for the US Global Change Research Program.

Sauer, C., Visiting Professor, Institut fur Volkswirtschaft, Universitat Hannover, Hannover, Germany

Sauer, C., Panelist, Seminar/Discussion on Globalization, Net Impact: Students for Responsible Business, UNM, September 2000

Sauer, C., Panelist, Roundtable Discussion on the 2000 Presidential Election, Economics Graduate Student Organization, UNM, November 2000.

Sauer, C., Moderator, Session: Overview of Trade Issues, the European Union and the Americans: Trade, Politics, and Culture, International Conference, UNM, November 2000

5. Research Grants and Contracts Funded

The department received the following grants to fund faculty and graduate research during this academic year. Total of $694,384.00

National Oceanic and Atmospheric Administration
"Climate Workshop for Middle Rio Grande Pueblos"
Brookshire, D.
$23,500.00
December 2000 – August 2001

National Oceanic and Atmospheric Administration
"An Exploratory Assessment of the Potential for Improved Water Management by Increased Use of Climate Information in Three Western States"
Brookshire, D., Howe, C., McCool, D.
$35,000.00 (second year funding)
1999 – 2001

National Science Foundation
"Efficient Management of the Water Resources in A Semi-arid Region"
Brookshire, D., Burness, S., Chermak J.
$85,000.00 (first year funding)
January 2000 – July 2005

US Geological Survey
"Cost Benefit Study- The Value of Information"
Brookshire, D., Ganderton, P.
$100,000.00 (second year)
1999 – 2001

National Science Foundation
"A Quantitative Assessment of the Economic and Institutional Impacts of Climate Change on the Upper Rio Grande Valley"
Brookshire, D., Scuderie, L., Matthews, P., Campana, M., Chermak, J.
$200,000.00
June 2000 – July 2003

US Environmental Protection Agency
"An Integrated GIS Framework for Water Allocation and Decision-Making in the Upper Rio Grande Valley"
Brookshire, D., Scuderie, L., Matthews, P., Campana, M., Chermak, J., Krause, K.
$150,000
April 2000 – July 2003

National Oceanic and Atmospheric Administration
"Sustainable Water Resources Devel9opment: Valuation of Water in the Americas"
Brookshire, D., Matthews, P., Campana, M.
$20,000
April 2000 – July 2001

UNM Teaching Allocations Subcommittee
"Students as Researchers: incorporating analysis of household surveys into graduate and undergraduate courses in development and labor economics"
Binder, M
$1844.00 (with $624 graduate student support)
December 2000 – September 2001

USFS Grant to U. of Montana
"Using Travel Cost Method to Assess Impacts to Forest Recreation from Alternative Fuel Management Regimes"
Berrens, R., Hesseln, H., Alexander, S.
$50,000.00 (with $16,000.00 graduate student support in 2000)
January 2001-December 2001

UNM Research Allocations Committee
"Structural Reform and Household Welfare: Understanding Changes in Inequality, Unemployment, Child Labor and Poverty in Mexico, 1987-1999"
Binder, M.
$1840.00 (with $1000.00 graduate student support)
May 2000 – September 2001

National Science Foundation
"Experimental Lab Upgrade"
Krause, K., McKee, M.
$47,000.00
July 2000 – December 2000

6. Attachments

Bachelor of Arts Degrees Conferred
Twenty Bachelor of Arts degrees conferred in 2000-2001 academic year.

Master of Arts Degrees Conferred
Farshad Allahdadi
Zhongmei Lui
Sara Saulcy
Meghan Starbuck
Stephen Yoder

Doctoral Degrees Conferred **(Committee Chair)**

Kenneth Baker (M. McKee) "Institutional Evolution and Environmental Amenities"

Calvin Blackwell (M. McKee) "Issues in Tax Compliance"

Aeneas James Cash (J. Chermak) "Optimal Rangeland Stocking Rates: Biological and Economics Modeling Aspects of Livestock Grazing in Semi-Arid American Southwest"

Kelly O'Donnell (C. Krause) "Poverty and Health of Children in New Mexico"

William Taylor (M. McKee) "Economics of Indian Gaming in New Mexico"

J. Raymond Stuart Award
Pallab Mozumder (Graduate Student)

Gerald Boyle Memorial Award
Maurice Moffett (Graduate Student)

Distinguished Alumnus:
Lawrence Waldman, Sr. Economist, BBER

Number of Majors

Academic Year	Undergraduate	Graduate
1987-88	132	40
1988-89	N/A	44
1989-90	74	N/A
1990-91	133	41
1991-92	121	43
1992-93	103	49
1993-94	97	57
1994-95	88	48
1995-96	72	48
1996-97	86	54
1997-98	124	40
1998-99	115	44
1999-2000	147	39
2000-2001	112	34

Fall Credit Hours by Course Level
1990-2000

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
100	381	360	438	237	219	168	261	2694	3048	3684	4161
200	3564	3492	3189	2892	2814	2952	2802	105	87	192	309
300	2859	2928	2523	2523	2133	1902	1410	1659	1365	1011	858
400	355	227	231	267	178	267	234	220	192	281	127
500	222	237	276	316	330	339	314	227	192	212	212
600	42	78	75	111	96	75	84	108	0	123	115
Total	7423	7322	6732	6346	5770	5703	5105	5015	4884	5503	5782

Spring Credit Hours by Course Level
1991-2001

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
100	372	222	156	177	0	0	0	0	2874	3303	3558
200	3489	3834	3537	2985	3066	3168	3033	2652	195	261	0
300	2895	2886	2949	2271	2340	2055	1440	1506	1368	1488	888
400	387	234	175	346	366	176	221	228	174	149	159
500	177	229	268	332	291	283	299	264	270	204	172
600	36	60	66	75	108	117	78	75	117	123	111
Total	7356	7465	7151	6186	6171	5799	5071	4725	4998	5528	4888

ANNUAL REPORT
DEPARTMENT OF ENGLISH

July 1, 2000 - June 30, 2001

Scott P. Sanders, Chair

As predicted in last year's annual report, the department saw increased enrollments in both the fall and the spring semesters in Freshman English (FE, English 101 and 102) and core curriculum courses, especially in English 219, Technical Writing, which is not only in the core curriculum, but is required by many major and minor degree programs across the campus.

To cope with the need for more sections in these courses and elsewhere, we hired eight Lecturers teaching 4/3 loads almost entirely in these courses. We were also assisted by hiring Visiting Professors, returning Emeritus Professors, and numerous per-course, part time instructors.

Late in the spring term, the department learned that in the coming year (01/02) we would have ten Lecturer lines to address these enrollment needs. As part of our Strategic Planning Process (discussed below), the department will examine the current and projected effects of having a "sub-faculty" of Lecturers who teach almost exclusively in FE and core courses.

We also made three tenure-track hires in the late spring and early summer, well after our "normal" hiring of two tenure-track hires completed in March. These "late hires" allowed us to replace most of our retiring and separating faculty immediately, which will help us greatly in the coming year.

Retirements, separations, and hires continued at an increasing rate. It was an active year on all of these fronts. Driven by our need to plan for change as much as possible, the department began a strategic planning process that succeeded in identifying five key issues summarized in the discussion below. Although no specific actions were taken in this year, some of the strategic planning groups are actively working and may well offer action item motions to the department in the Fall 2001 term.

The information presented immediately below is organized into three parts. The first uses headings suggested by former Dean Fischer in Spring 2000. Following that is information gathered for the College Evaluation Effort. The report concludes with edited reports prepared by the Directors of our several departmental programs.

Departmental Program Directors

Gail Houston (Graduate Director) stepped down after completing a two-year term. Jim Thorson agreed to be Interim Graduate Director for the Fall 2001 term. Charles Paine (FE Director) stepped down in Spring 2001, anticipating his sabbatical term in Fall 2001. Jerry Shea took over as FE Director in January 2001. Mary Power (Undergraduate Director) stepped down after completing a two-year term. Lynn Beene accepted appointment as the Undergraduate Director, beginning Fall 2001. Associate Chair Barry

Gaines, Professional Writing Director Rick Johnson-Sheehan, Medieval Studies Director Helen Damico, and Creative Writing Director Sharon Warner continued in their posts during the period of this report.

Department Staff
Ona Savage retired as Graduate Advisor in April. Also in the spring, Administrative Assistant II Christine Jaramillo left the department to take a position in another unit at UNM. Temporary employees filled these positions as searches were conducted; permanent replacement hires are expected in Fall 2001. Margaret Shinn continued as Department Administrator; Matt Allen continued as Technical Writer.

Faculty Separations, Retirements, Hiring
Professors Richard Peck (March) and Mary Bess Whidden (July) and Associate Professor Tony Mares (May) retired. Assistant Professors Jim Colbert and Claire Waters, and Full Professor Minrose Gwin resigned their appointments, effective May 2001.

Professors Susan Romano and Catherine Ramirez joined our faculty as tenure-track, Assistant Professors in Fall 2000.

Accepting offers to join our faculty on tenure track appointments for Fall 2001 were Greg Martin (Asst Prof, Creative Writing), Ayanna Thompson (Asst Prof, Renaissance Literature), Anita Obermeier (Asst Prof, Medieval Literature), Daniel Mueller (Asst Prof, Creative Writing), and Feroza Jussawalla (Full Professor, Post-Colonial and Modern British Literature).

Visiting Professors included Chauncey Wood (who taught undergraduate and graduate Chaucer classes) and James Ruppert (who taught Native American Literature). Full-time lecturers hired for the academic year were Rebecca Aronson, Anne Foltz, Janet Gaines, Sheri Metzger, Kate Mortellaro, Jack Trujillo, William Waters, and Sonnin (Dahl) Waters. Poet Irene McKinney was the Visiting Writer for the Spring 2000 term. Emeritus Professors who returned to teach classes for us during this year included Fred Warner, David Johnson, Bob Fleming, Gene Frumkin, and David McPherson.More than 25 individuals, most teaching 2-3 courses each per semester, were hired as Part-time Instructors over the fall and spring terms.

Tenure and Promotion
Gary Harrison was promoted to the rank of Full Professor. Richard Johnson-Sheehan was tenured and promoted to the rank of Associate Professor.

Programs and Initiatives

Taos Writers' Conference. The second UNM Taos Writers' Conference, held in July 2000, continued the success enjoyed by the first conference. There were more participants, and more positive evaluations from everyone involved. As I write this report, the third conference (held in July) has continued the same pattern: more participants, more positive response.

The conference is financially healthy, earning enough to cover all expenses associated with it, including a stipend to Professor Sharon Warner, who continues as Director of

the conference; a small hourly wage to a student assisting Professor Warner; and tuition remission for graduate students who assist with the conference and the DH Lawrence Fellow named from among the conference applicants. In the coming year, we must assess whether or not the conference has grown to the point where it may need more staff support than our departmental staff can reasonably provide.

The Medieval Studies outreach program visited public schools in the Albuquerque area during the year and presented successful lecture series in both the fall and the spring terms.

Tony Mares received more grant support to continue his "Wired Inn," an internet-based writer's workshop that we tied to the teaching of an electronic section of English 422/52 (Poetry workshop). Richard Johnson-Sheehan also continued to teach an internet-based section of English 418, Grant and Proposal Writing.

David Dunaway's "Route 66" radio documentary has aired locally and is contracted to be broadcast on more than 300 stations across the country. The project continues to receive substantial grant support, primarily from state Humanities Endowments.

Four sections of English 101 were paired with AS 198 sections in Fall 2000 to create the initial pilot program of "Freshman Learning Communities," a program whose initial success has caused it to expand in Fall 2001 to include 17 sections of 101.

Still more programs and initiatives are described below in the information related to the College Evaluation Effort and in the reports provided by Departmental Directors.

Administrative Initiatives

Strategic Planning Process. Beginning in September, colleagues met first in small groups (7-8) for informal discussions over lunch, then in two larger groups with a facilitator (Professor Jacquie Hood of the Anderson School of Management) during which issues were discussed and identified. Discussions also convened at the October and November department meetings, and, in February 2001, the five issues below were voted on by the department and action committees were formed to work on them:

1. **Teach some undergraduate literature courses in larger lecture sections** with graduate students directing recitation sections.

2. **Renovate the curriculum , specifically by developing a coordinated, articulated undergraduate and/or graduate curriculum that crosses period and national boundaries.**

3. **Develop a coordinated/articulated curriculum in Southwestern Studies as an area of special emphasis at the undergraduate and graduate levels.**

4. **Study the effect of offering FE and core curriculum writing courses in increasing numbers.**

5. **Study the Creative Writing curriculum** to determine how best to meet current student demand at the undergraduate level and, if possible, expand the MA program.

Grants, Awards, Publications
Professor Sharon Warner and Graduate Student Mary Rooks received Gunter Starkey Teaching Awards from the College of Arts and Sciences. Departmental awards for excellence in teaching and research activity went to Gail Houston (Wertheim Award) and Jesse Aleman (Keleher Award).

Specific citations of faculty publications are collected in the Annual Biographical supplements and published by the University in a booklet, so I will not repeat them here. See discussion of research activity and productivity in the "Research/Publication" section below from the College Evaluation Effort.

College Evaluation Effort

Using information provided by Interim Dean Fritz Allen, Department Chairs evaluated their departments and compared them with other departments in the College. The information below is edited from the report given to Dean Allen for this effort.

Basis for information used. For four years, the English Department has determined merit raises based on faculty reports of their activities on the UNM Annual Biographical Supplement and on a departmental Makers of Merit form that has three parts: Research/Publication (40 pts); Teaching (40 pts); and Service (20 pts).

Yearly totals represent an average of the best two of the past three years. Thus the current evaluation covers scores from years 1998, 99, and 2000; scores for 98 and 99 represent the average of the best two of three years' scores for the preceding three years (back to '96). This system tends to level out peaks and valleys in achievement, rewarding steady production over a three year period.

The calculations below are based on the 25 records in our Markers of Merit system for 2000. Merit records for colleagues whose raises are not set in the department (the Chair's, Associate Dean Wanda Martin's, and Interim Dean Peter White's) are not available to me, and records for some colleagues separating from the department this year (Peck, Mares, Waters, and Colbert) were not available.

Teaching Quality Assessment

A. Internal Teaching Assessment

The highest ICES (student evaluation) scores (top quarter overall) are worth no more than 15 of the 40 points possible for teaching. Our departmental evaluation of

teaching gives relatively more weight to the teaching load (anyone teaching more than a 2/2 load receives points equivalent to the points given for publishing an article in a refereed journal per extra course taught) and to working with MA and PhD students (seeing them through to completion), with independent studies, and undergrad theses; to participating in our departmental teaching observation program; and to seeking out grants and presentations related to pedagogy. Using the rating scale given by Dean Allen for this exercise (1 = needs improvement; 2 = good; 3 = Excellent) I estimate that the departmental mean is

Mean = 2.16

calculated by giving scores of

40 -36 = excellent	(11 records)	=	33 pts
35-26 = good	(7 records)	=	14 pts
21 - 6 = needs imprvmnt	(7 records)	=	7 pts

The departmental mean for teaching on our 40 point scale is 26.28, and the median is 31, so I feel comfortable assigning a "good" rating to the score of 26 and starting the "needs improvement" rating with the score of 21.

B. Ratio of Good and Excellent Teachers 18/25 or, in percent, 72%

C. ICES measures

Starting spring 2000, all English Department faculty use ICES. Prior to that time, some used ICES and some used a 4-point scale departmental evaluation. **100% of English department faculty use student evaluations.** Because we have two different scales and work with an average going back three years, we convert all student evaluation scores to percents for our in-house merit review. Below are the ICES summary scores for regular faculty for the year 2000.

Spring 2000

Crse level	#of Stdnts	Item Mean	# of Secs	Avg of Sec Means
100/200	200	5.39	13	5.36
300/400	582	5.36	41	5.38
500/600	101	5.57	75	5.44
TOTAL	**883**	**5.39**	**75**	**5.44**

Fall 2000

Crse level	#of Stdnts	Item Mean	# of Secs	Avg of Sec Means
100/200	343	5.18	22	5.21
300/400	382	5.25	33	5.30
500/600	116	5.51	18	5.34
TOTAL	**841**	**5.26**	**73**	**5.34**

In sum, we are a department of largely good to excellent teachers.

Research Quality Assessment

A. Internal Research/Publication Assessment

The highest research/publication score that can be earned is 30 points for a book placed with a publisher of strong reputation. Edited books with major publishers receive 15 points; articles in refereed journals are worth 6 points each; and so on. The Chair awards "quality points" to recognize particularly strong publication/research results in any of the given categories.

Two to three colleagues consistently earn more than 40 points in two out of three years, publishing a book, some articles, and a few reviews nearly every year. In my judgment, excellent colleagues manage such a record one out of three years, with merely strong records in their off years; good faculty manage such a record once every three years or so and score the equivalent of two articles a year (12 points) in their off years; colleagues needing improvement struggle to earn more than 10 points a year.

Using the rating scale given (1 = needs improvement; 2 = good; 3 = Excellent) the departmental mean is

Mean = 2.08

which is calculated by giving scores of

40 -30	=	excellent	(7 records)	=	21 pts
27- 12	=	good	(12 records)	=	24 pts
10 - 0	=	needs improvement	(6 records)	=	6 pts

B. Ratio of Good and Excellent Researchers 19/25 or, in percent, 76%

C. SCH production at student research level/fulltime faculty

We identify student research level classes as 423 (CW Thesis), 490 (Honors Thesis), 497 (Ind Stdy), 498 (Wkshp in Lit/Lang/Writing), 499 (Internship), 595 (MA Colloquium), 596 (Portfolio), 597 (Probs), 599 (MA Thesis), 697 (Probs), 698 (Ind Stdy), 699 (Diss).

S 00	438 SCH	per FT Faculty of 36
F 00	368 SCH	per FT Faculty of 36

SCH for F/S00 = 806 SCH per FT Faculty of 36 = 22.38 per fac member

In sum, we are a department of largely good to excellent researchers/publishers

Efficiency Assessment

The data gathered by the University Research Office paints a very clear picture of the English Department: we produce raw enrollment in the top quartile; Student Credit Hours (SCH) in the top 10% (second out of 20 departments), and we are compensated

for it by an instructional budget that ranks in the bottom quartile (15th and 17th out of 20). The data suggests that we are very efficient.

Raw Enrollments (head counts)

F 99 2nd highest graduate enrollment
5th highest undergrad enrollment

F 00 3rd highest graduate enrollment
5th highest undergraduate enrollment

Student Credit Hours (SCH)

F 99	15,690 total SCH	(second highest behind Math/Stats)
F 00	15,773 total SCH	(second highest behind Math/Stats)

In both Fall terms, the third place departments one behind us (Psych w/11,386 in F 99 and Bio w/10,689 in F 00) were about 4,000 and 5,000 SCH respectively behind our SCH totals for those terms.

Dollars from the College Instructional Budget per SCH

F 99 $83 per SCH (15th from the top)
F 00 $81 per SCH (17th from the top)

Other Considerations

Service teaching vital to other University Units. The English Department provides the greatest variety of service teaching -- courses that are required in the majors, minors, and graduate curricula of departments in every college at UNM -- of any department in the University.

We do this service teaching largely with instruction provided by Lecturers, TAs, and part-time instructors who are hired, trained, mentored, and monitored by members of our fulltime faculty. Maintaining the quantity and the quality of this volatile and large instructional faculty (Spring 2001 we had more than 130 instructional employees in our department on main campus, and were responsible for many more at the Branch campuses) is an achievement in itself.

English 101/102 was for years the "core curriculum" at UNM, the only two courses every undergraduate had to take and pass. Those courses were, in effect, a teaching contribution by our department to every undergraduate degree awarded at UNM.

Today, in addition to 101/102, we offer five other 100/200 level courses in the Core Curriculum. One of these courses, English 219, Technical Writing, is a required course in the major and minor programs of several departments in nearly every college and school at UNM. For example, Nutrition majors in the College of Education take 219; Business majors in Anderson are urged to take it (it is an option for a requirement); Emergency Medical Techs and Nurses must take 219; and several Engineering degrees require it; to name only a few.

We also provide faculty for several programs focused on retaining Freshmen and at-risk students and attracting new audiences of students to UNM: Freshman Learning Communities, TRIBES, Native American Summer Bridge Program, and the evening courses offered in Rio Rancho are examples.

Beyond these mostly lower division offerings, we support upper-division service teaching through cross-listings with nearly every "Studies" program at UNM, from Black Studies to Chicana/o to Native American to Women's Studies; we also cross-list creative writing courses with dramatic writing courses in Theater Arts offered at the 300/400 level and at the Master's level as part of their MFA degree. Members of our faculty teach graduate courses in writing and editing required for Master's degrees granted in Accountancy and the Executive MBA degrees given by the Anderson School, and we teach training sessions in writing and speaking for the Advanced Mgmt Certificate program offered by Anderson's Mgmt Development Center.

Outreach to UNM and the Community. English department faculty have consistently valued outreach work. In everything we do, we strive to incorporate some aspect of outreach in the work so that we bring our sense of the humanities and their importance to other departments, other colleges, and to the nonacademic community. Below I list only a few such efforts from the past year, a year that was not at all unusual either in the quantity or in the quality of these outreach efforts.

Albuquerque Teachers Institute

Directed by English Department faculty member Wanda Martin who wrote the grant that brought the program to UNM, dozens of Albuquerque teachers have benefitted from seminars led by UNM professors, including English professors. This grant is sponsored by Yale University and involves more than $600,000, making it an exceptionally large grant for a humanities program.

Taos Summer Writers' Conference

Directed by Sharon Warner, who is Director of our Creative Writing program, this week-long conference in its second year attracted to Taos nearly 90 participants from across the country to workshops led by creative writers who themselves hail from all parts of the country. Registrations for the 2001 conference went over 150.

The Celtic Lecture Series

The Medieval Studies Institute, which is closely related to the English department through our faculty and our support of its ventured, offered a week of lectures on the Celts that was so popular people were turned away from Dane Smith lecture halls holding more than 100. This event was generously supported by the NMEH.

Professional Writing Internships

Undergraduate and graduate English students work as paid and volunteer writing and editing and document design consultants for on-campus entities and off-campus organizations and businesses. In 2000, students worked for Sandia National Labs, Los Alamos National Labs, Aquila Technologies, UNM Office of Research Administration, and other organizations.

The events and programs described above are only the more prominent outreach efforts the department offers; still more are cited in Directors' reports presented below. Note also that, in any given month, the English Department either sponsors outright or contributes substantially to an average of 3-5 lectures and/or readings, some of which take place at off-campus venues where community members are among the audiences.

Graduate Studies — Gail Houston, Director

***U. S. NEWS & WORLD REPORT* Ranking**

While *U.S. News and World Report* moved UNM as an undergraduate institution from the third tier to the fourth tier (amove widely lamented on campus), the English Department Graduate Program, for the first time in memory, was included in the magazine's list of "top graduate programs" for English study, at the bottom of the listing tied with Arizona State University and George Washington University at 79. Fordham, Temple, and Syracuse were tied in the grouping immediately above UNM and its fellows. Clearly our cachet as a graduate program of note is improving; we need to continue to improve this status.

New Ph.D. Option II Exam

The new option II exam for the Ph.D. was opted for by virtually all students taking the exam in spring 2001. It has been very helpful for getting students to finish their prospectuses. The future Graduate Director will need to maintain active oversight of this exam since it is not offered at any designated time (as is Option I) and because the completion of the prospectus in the semester following the exams is part of Option II, making it more difficult to supervise.

New Master's Program

We continue to implement the Master's Program (described in prior reports). established in Fall 1998, and it continues to be especially productive for Literature students. The MA Portfolio demonstrates its value, having given us the opportunity to evaluate and require improvements in graduate student writing. The second M.A. colloquium (on "The Waste Land") was offered by Professor Hugh Witemeyer in Spring 2001, the term in which the class matriculating in Fall 1999 reached its fourth semester. The new MA program encourages students to finish within the recommended two year period.

Graduate Director's Goals Achieved.

The Graduate Director, Graduate Advisor, and Graduate Committee have implemented a number of policies and actions in order to improve the quality of the Graduate Program. They include the following:

Improvement of Communication

The Access database for tracking students was continued in December 2000 as Ona Savage, Matt Allen, and CIRT imported major loads of data and modes for accessing that data. When our Temporary Graduate Advisor began in April 2000, the new database provided data for this report.

The Graduate Director continued weekly meetings with the Graduate Advisor and EGSA President to maintain good communication and efficiency.

The list-serv for graduate students, established in fall 1999 and maintained by the Graduate Advisor, continues to dramatically improve communication between the Graduate Director, graduate students, and the Graduate Advisor.

The Graduate Director continues the process of maintaining a binder with written policies and procedures in order to avoid administration by fiat or word of mouth as much as possible.

Improvement of Graduate Student Preparation for Exams, Dissertation, etc.

The Graduate Director has created guidelines that are distributed to students taking the 50-item MA exam and fulfilling the MA portfolio requirement. These guidelines allow for better communication of expectations and creates a means of answering common questions regarding these requirements.

The Graduate Director with Madolyn Nichols, Ph.D. student, created a handbook of guidelines for students who are in the dissertation phase to help them understand their professional role, duties, and rights in this phase of the Ph.D.

Guidelines have been prepared to help prospective students understand explicitly what makes a strong application to our graduate program—these are included in materials we distribute to applicants.

The Graduate Director has written a set of guidelines for writing a prospectus; she has also obtained a sample prospectus to lend to graduate students who have just finished their comprehensive exams. Rick Johnson-Sheehan has also added his guidelines for writing the prospectus to these materials.

At the request of the EGSA, all the items on the MA 50-item list have been put on reserve in Zimmerman library for students studying the exam. This has been an on-going project and every semester or so the Graduate Advisor changes that reserve list to reflect the new reading list.

Development and Outreach

With the help of GA Scott Rode, the Graduate Director was able to establish the Graebo Award as one for graduate students doing research on their dissertations. This award was given in May 2001 to Jason Fichtel

The Graduate Director submitted an application to the McCune Foundation in fall 2000 to fund two of our graduate students, establishing a relationship with this large foundation. We did not receive the funding but were encouraged to apply again. .

Improvement of Quality of Graduate Program

The second annual Scholar's Retreat offering help with the writing process associated with the dissertation was offered by Rick Johnson-Sheehan, Scott Sanders,

and Wanda Martin to nine Ph.D. students over the winter break and was very successful. This should be continued.

The institution of a $500 raise and a one-time 2/1 teaching load for ABDs has proved an important method for helping students progress through the Ph.D. program in a timely manner. This program needs to be monitored and supervised carefully so that all graduate students know about it and use this important incentive.

The Graduate Committee approved a proposal by Sharon Warner, Director of Creative Writing, to examine the value and possibility of instituting a Ph.D. Concentration in Creative Writing; the CW group will examine schools that have such programs and develop a proposal for such a program.

The Graduate Committee approved a proposal that Ph.D. students be required to take a theory course, which will be mandatory beginning in fall 2002: Literature students will take 510 and R&W students will take either 542 or 543. All University entities approved this requirement.

The Graduate Committee approved two linked proposals designed to help students on the job market: the Eng 592 course (on teaching literature) and the English 593 (on academic publishing) course. Eng 592 was approved by the University and English 593 is in the process of being approved by all University entities.

The Graduate Director continued analysis and discussion in the graduate committee about slash courses. The graduate committee voted to allow students to take only a fourth of their course work in slash courses. The graduate committee also voted to increase the number of seminars for Ph.D. students offered each term to three. Since the graduate committee understands the economic implications of said votes, it urges the department to consider how such proposals can be implemented.

The Graduate Director encourages the establishment of a Concentration in Cultural Studies and a paradigm for the department that strongly focuses on Southwest Studies and interdisciplinary methods. The strategic planning committees of fall 2000 helped to further these goals, but more work needs to be done by the department to show that it values Chicano/a Literature, Native American Literature, and other Southwest literatures, as well as interdisciplinary approaches to literature.

The Graduate Director worked on the timing problem created by overlap experienced by students taking the MA portfolio and 50-item exam in the same semester. This minor problem of the timing of these two parts of the MA Lit degree still needs to be tinkered with.

Recruitment/Retention

We again participated in the recruitment sessions for Evening Programs hosted by David Stuart's office, and we have maintained and improved our graduate program information on our web site. From June 2000 through April 2001, we received an estimated 5,000-8,000 visits -- or hits -- on our web site offering information regarding our graduate programs.

Colloquia/Lectures/Symposia
The English Graduate Office continued its efforts to stimulate discussion and community among faculty and graduate students. There were 8 sessions in the fall and spring on a range of topics, including teaching and being on the job market. This year the Graduate Director also had a colloquium to celebrate Women's History Month, which generated interest in having further colloquia in the fall of 2001 on gender and sensitivity training. The EGSA put on "Southwest Symposium" with Andy Flood as director. The Graduate Director discussed with the EGSA President the possibility of putting on the SWS every other year to allow for more quality control and time to get plenary speakers and to have more applicants for panels. The new EGSA president should consider said proposal.

Job Placement
Gail Houston and Rick Johnson-Sheehan offered a biweekly series of job-placement workshops aimed primarily at students seeking employment through the MLA and 4Cs conferences. Between four and six Ph.D. students participated regularly in these workshops. (See "Job Placement" below for more detail.)

Research/Dissertation support
The Graduate Director provided supplemental and travel grants from $75.00 to $428. to students who were giving papers at conferences in their fields. (See details below in "Graduate Student Awards.")

Curriculum Development
The Graduate Committee and the department approved a new course, "Teaching Literature and Literary Studies," English 592, which is described as "Practicum on teaching literature and literary studies. Study of theoretical discourses about teaching also included. Topics vary." This new course was approved by the Senate Graduate Committee and the Senate Curriculum Committee and the Faculty Senate in the fall of 2000. The English Department has approved the Graduate Committee proposal for an English 593 course on academic publishing, which is now receiving approvals from University entities. More work needs to be done to ensure that Ph.D. students in literature get to teach at least one literature course before they graduate.

Graduate Committee
Gail Houston, Director of Graduate Studies for 2000-2001, was chair. Voting members of the graduate committee for 1999-2000 were: Professors Jesse Aleman, Carolyn Woodward, Julie Shigekuni, Hector Torres and Rick Johnson-Sheehan; the EGSA graduate student representative was Miriam O'Kane; and the ex-officio members were Chuck Paine and in the spring Jerry Shea,, Directors of Freshman English; Tony Mares was Interim CW Director in fall 2000 and Sharon Warner, Director of Creative Writing returned in the spring of 2001; and Helen Damico, Director of Medieval Studies. The Graduate Committee voted on a number of policy issues (see "Policy Decisions" below); approved the Fall, Spring and Summer M.A. and Ph.D. Comprehensive Examinations; reviewed applications for fellowships; reviewed applications for admission; revised and approved the 50-item Master's Examination List, which will go into effect Spring 2003 (Houston, Johnson-Sheehan, Woodward) and proposed and approved the new academic publishing course and teaching literature course and the new theory requirement.

Policy Decisions of the Graduate Committee 2000-2001

*approved the new teaching literature course, Eng 592.

*approved the new academic publishing course in literature Eng 593.

*approved the theory requirement for Ph.D. students.

*The Chair, Scott Sanders, implemented the policy decision of 1999-2000 of a pay increase for ABDs with approved prospectuses of $500 and the offer of a one time only 2/1 teaching load.

Graduate Student Awards
English Department graduate students won the following awards, fellowships, and scholarships:

Departmental Awards:

Buchanan Arms Award	Anne Van Arsdall
Graduate Service Award	Andy Flood
Graebo Award	Jason Fichtel
Graduate Professional Writing Award	Scott Rode
Creative Writing Fellowship	Robyn Mundy
D. H. Lawrence Fiction Award	Robyn Mundy.
American Academy of Poets Award	Julie Dunlop.
New Mexico Folklore Prize	Paul Bogard
Mary M. McDonald Scholarship	Marybeth Libbey

College /University Awards:

Graduate Dean's Dissertation Award	Mary Rooks

National Awards and Honors

Award from the Faulkner Society	Jason Fichtel
American Society for 18th Century Studies Teaching Award	Shari Evans and Mary Rooks

Anne Van Arsdall's dissertation was accepted for publication by Routledge, April 2001

Andy Smith received a Fulbright lectureship to Germany

Graduate Admissions

Applying for Spring 2001

Number of applicants:	14	Offered admission: 10	Accepted admission: 9
Ph.D.	2	1	1
MA Lit	4	4	4
MA CW	5	2	2
MA PW	3	3	2

Applying for Fall 2001			
Number of applicants:	66	Offered admission: 40	Accepted admission: 19
Ph.D.	20	18	9
MA Lit	16	9	4
MA CW	23	8	3
MA PW	7	5	3

Graduation/Degrees Granted:

Ph.D. Graduates

Summer 2000	Fall 2000	Spring 2001
Rene Faubion	Carmela Lanza	Rick Waters
Janice Gould	Elizabeth Wright	Andrea Penner
Jeffrey Smotherman		Anne Van Arsdall
		Alanna Cotch
		Linda Joyce Brown
		Erika Aigner-Varoz
		Jennifer Timoner

M.A. Graduates

Julie Donovon	Jennifer Hillsey	Seth Biderman
Mara Gould	Linda Norris	Kelvin Beliele
Ute M. Haker		Rebecca Gipson
Deborah Hoffman		Todd Williams
Erika Murphy		Annie Shank
Kimberly Summers		Peter Schmidt-Nowara
Franci Washburn		Julie Dunlop

Enrollment

As of Spring 2001, the Department of English enrolled 107 graduate students.

PhD:	57 (ABD: 37)
MA Lit:	17
MA CW:	20
MA PW:	13

Job Placement

The Graduate Director and Professor Rick Johnson-Sheehan held biweekly workshops for Ph.D. students seeking employment in tenure-track jobs in English. Six students actively participated in the placement workshops this year. Four (Kristen Hague, Rick Mott, Kevin Dye, and Bill Waters)obtained tenure-track positions (Mesa State, New Mexico Tech, Olympic College, Northwestern Missouri State). The two students who did not obtain jobs (Jason Fichtel and Rick Waters), had on-campus interviews. In addition, Andy Smith (in a temporary position at Lafayette College) was offered and accepted a tenure track position at Lafayette, and SueAnn Schatz, a graduate in 2000, received a tenure track position at Lock Haven University in Pennsylvania.

Undergraduate Studies — Mary Power, Director

The department awarded 109 degrees to English majors in December (29, which includes summer graduates) and May (80). Three students wrote Honors theses and received Departmental Honors. Sandra Lee Chavez was the undergraduate commencement speaker at the May convocation. The following students were cited for special distinction at the May ceremonies:

Magna cum laude honors:	Sandra Lee Chavez
Cum laude honors:	Steven Sexton and Victoria Weller
Dale and Ivan Melada Scholarship in Professional Writing:	Tammy Marie Wolf
Reba Rutz Beidleman Memorial Scholarship:	Megan Bradley and Pam Bensmiller
Mary M. McDonald Scholarship:	Susan Reese
Katherine G. Simons Award:	Astrid Winegar and Courtney Smith
Undergraduate Foreign Study Award:	John Matthew Edwards

In November, the Undergraduate Program sponsored a lecture/discussion on graduate study in English at which Professors Gail Houston and Rick Johnson-Sheehan and graduate students Andrea Penner and Michael Moghtader discussed gaining admission to graduate school and the demands of being a graduate student. In the spring term, the program sponsored a reception for Professor William Baker of Northern Illinois University who spoke regarding Sigma Tau Delta. Three members of Sigma Tau Delta (the English honorary), Steven Sexton, Mona Riffe, and Lillian Gorman, read papers at the national STD convention later in the spring term.

There are approximately 322 English majors (according to a count of the folders in our files for Fall 2000) -- there are almost certainly more English majors who have declared themselves to advisors in the College of A&S office but have not yet declared to our department office.

Creative Writing — Sharon Oard Warner, Director

UNM's Taos Summer Writers' Conference
The 2000 Taos Conference expanded to include three weekend workshops and ten weeklong workshops. The D. H. Lawrence Fellowship was reinstated, and the winner was Charlotte Holmes of State College Park, Pennsylvania. Ms. Holmes is the author of *Gifts And Other Stories*. The Conference also offered two scholarships to participants and supported several graduate students, who worked at the Conference and attended free of charge.

Graduate Student Accomplishments
Jose Skinner, a former MA student in fiction, published a collection of stories called *Flight*, with the University of Nevada Press. The book has been selected for the Barnes and Noble Discovery Award. He is currently on fellowship in the creative writing program at the University of Iowa. His stories have been widely published, and several in this collection have received critical recognition, including a recent Frontera Literary Review award.

Undergraduate Student Accomplishments
Tamara Brenno received a scholarship from Hollins College and is a new student in the MFA Program there. Kate Smith received a scholarship to study in Spain and has been commissioned to write a screenplay. Katie Landon is studying in Manchester and has recently published two poems in British literary magazines.

Instructor Accomplishments
Amy Beeder, an Instructor in English, won the "Discovery/The Nation" award in poetry presented by the magazine, *The Nation*. The award is given each year to four poets who have not yet published a book. The poets this year, according to Grace Schulman, the magazine's poetry editor, were chosen from reviewing more than 1500 manuscripts. The prize includes publication *The Nation*.

Professional Writing Program **Richard Johnson-Sheehan, Director**

The Rhetoric and Writing program, of which Professional Writing is a part, hired Dr. Susan Romano (PhD, UT-Austin) to begin Fall 2000, strengthening our offerings in composition, professional writing, visual rhetoric, and ethics. Romano immediately taught courses in visual rhetoric, introduction to professional writing, and ethics during the year, and is preparing a course on writing for the internet that would use her co-authored book, *Writing in an Electronic World* (2000), as its text.

We continued to offer courses through the internet on a trial basis, offering Proposal and Grant Writing (418/518) to internet and resident audiences of students. The success of internet courses will largely depend on UNM's evaluation and continued support of internet based course offerings.

The Rhetoric and Writing brochure published last year has proved to be a useful recruiting tool. We are now preparing a flyer/poster for the MA in Writing program that would feature both creative and professional writing faculty and programs.

The website for our internship program sees continued use by students. More than a dozen students interned at a variety of sites on and off campus during the year.

The Melada Scholarship in Professional Writing was awarded to Tammy Marie Wolf, a junior in Professional Writing. Scott Rode was awarded the Graduate Award in Professional Writing.

The main problem facing the Professional Writing program continues to be enrollment growth in Technical Writing (English 219). In fall 2000 we offered 14 sections of 219; in Fall 2001 we are offering 21 sections, and the "shut out" counts suggest we could have filled 2-3 more sections had we the faculty to teach them.

We do not now have enough faculty or graduate student TAs to teach these courses, nor will we in the future if we do not hire more faculty in professional writing and increase our graduate student enrollment (thus increasing the number of TAs qualified to teach 219). Those are our goals for the next 3-5 years. In the meantime, we must

depend on the good work of Part Time Instructors to fill out our ranks in 219 and elsewhere.

Freshman English, 2000/2001 — Jerry Shea, Director

In January, 2001, Jerry Shea became FE Director, replacing Chuck Paine, who stepped down in anticipation of receiving sabbatical leave in the fall of 2001.

At the urging of Joel Nossoff of University College, Fall 2000 saw the first offerings from the Freshman Learning Communities. Four sections of Engl 101 were paired with four "Arts and Sciences 198" seminars, creating four six-credit-hour blocks team taught by FE instructors and faculty from other departments.

Overall, evaluations suggest that the experiment was very successful. Fall 2001 will see sixteen such blocks offered, plus a special 101 section participating in a "freshman interest group," a group of freshman living together in the dorms who share a special interest in common (in this case, fine arts). Talks begin shortly regarding efforts to extend the Freshman Learning Communities experience into seminars that would articulate with English 102 sections in the spring terms.

The main text in English 101 continued to be *La Puerta,* and will be so for 2001/2002, during which year we will discuss replacing or updating that text. For English 102, Spring 2001 saw the piloting of three new texts -- *Signs of Life, Different Voices,* and *The Bluest Eye* – all of which proved successful. They will join *Culture Jam* as the text choices for 2001/2002 sections of English 102 *Frankenstein* has been retired as a 102 text. The Writing Proficiency Portfolio program continued to expand.

FE Graduate Assistant Michael Moghtader organized a very well attended workshop on the nature of argumentation, one initiative in exploring the difference in mission between 101 and 102. Michael also instituted FETA, the Freshman English Teachers' Armory (HB 230), a departmental library of composition theory books and back-up materials for the various 102 texts.

Finally, the year's 101 and 102 offerings broke down as follows (percentages are rounded off):

Fall '00

English 101: 100 sections 2065 students (6195 SCH).

Grade range, 101:
A , 24% B , 35%; C , 21% D, 10% F, 4% Other (Ws, etc.) 9%

English 102: 44 sections 878 students (2634 SCH).

Grade range, 102:
A , 28% B, 33% C , 22% D, 7% F, 3% Other (Ws, etc.) 9%

Spring '01

English 101: 31 sections **627 students** **(1881 SCH)**

Grade range, 101
A, 31% B, 31% C, 21% D, 12% F, 6% Other (Ws, etc.) 10%

English 102: 68 sections **1410 students** **(4230 SCH)**

Grade range, 102:
A, 31% B, 37%, C, 16% D, 7% F, 2% Other (Ws, etc.), 9%

Department of Foreign Languages & Literatures
Annual Report
July 1, 2000 – June 30, 2001
Submitted by: Professor Monica Cyrino, Chair

The Department of Foreign Languages & Literatures has completed its ninth year as a separate unit formed out of the division of the old Department of Modern & Classical Languages. The department offers four different graduate degrees: a Ph.D. in French Studies, and M.A. degrees in Comparative Literature/Cultural Studies, French and German. The department offers six different undergraduate degrees: the B.A. can be taken in Classical Studies (with two concentrations), French, German, Russian, Comparative Literature, and Languages, this last being an interdisciplinary major offered by our department in conjunction with the Departments of Spanish & Portuguese and Linguistics. The department offers nine different minor programs: Classical Studies, Greek, Latin, French, German, Italian, Japanese, Russian, and Comparative Literature. The department faculty also collaborates with and contributes to college and university-wide interdisciplinary undergraduate programs such as European Studies, Asian Studies, Russian Studies and Women Studies, by offering cross-listed courses and by sharing faculty resources and expertise. Alongside the national language and literature degree programs, the interdisciplinary graduate program in Comparative Literature/Cultural Studies continues to grow, and attracts students interested in complementing their language and literary studies with studies in such diverse areas as history, anthropology, psychology and film.

The department administrative structure underwent a significant change in the appointment of a new Chair, Monica Cyrino, who served the first year of her term in 2000-01. In other administrative positions, Deborah Jenson served her first year as the Director of Undergraduate Studies; Natasha Kolchevska continued to serve as the Director of Graduate Studies, and Diana Robin and Pamela Cheek served as Co-Directors of the Program in Comparative Literature and Cultural Studies. Under the leadership of the new Chair, the faculty developed several new documents to assist in department governance: guidelines for the promotion of Associate Professors to Full; standards for post-tenure review; and a point-based merit system for the allocation of faculty raises. In addition, the department standards for tenure and promotion were revised and approved. With the guidance of the Director of Undergraduate Studies, the six different undergraduate major programs were reviewed and revised to better align with department standards. Together with the graduate faculty, the Director of Graduate Studies designed and instituted an improved process for reviewing graduate student applications. The Co-Directors of CL/CS oversaw the growing number of students in the program, and were much involved in the planning of the popular Cultural Studies Colloquium series. The department also sponsored the highly successful Language Expo in March, a community outreach effort to interest high school students and teachers in language study, which was organized by Marina Peters-Newell, Lower-Division Coordinator. Specific faculty members and language instructors were responsible for handling students advising in each of the graduate, major and minor programs. The department was privileged to add a new tenure-track line for an Assistant Professor in Japanese, which began in Spring 2001.

Office operations were efficiently supervised by Wilma Williams, Department Administrator; Susanne Knoblauch, Administrative Assistant (half-time), worked mainly with the German Summer School; and John Owen, Administrative Assistant (half-time), replaced Diane Slack after her retirement in October. We were very fortunate to have such a strong office staff to assist the Chair in running the department.

Individual faculty members distinguished themselves in many areas: Susanne Baackmann, Associate Professor of German, served as the Director of the German Summer School, and published several pieces, including a co-edited volume on women, war and the German cultural imagination and a substantial essay on Grete Weil; Stephen Bishop, Assistant Professor of French, served as co-Director of European Studies, and gave several national and international talks on law and literature; Lorna Brau, Assistant Professor of Japanese, began her tenure-track position in Spring 2001, successfully proposed a new minor in Japanese, and taught several large classes in Japanese language and culture; Pamela Cheek, Assistant Professor of French, was awarded a Junior Research leave in Spring 2001 to revise her book manuscript; Monica Cyrino, Associate Professor of Classics, began her term as Department Chair, was named Presidential Teaching Fellow, and taught three large lecture courses in Greek Myth, Greek Civilization, and Big-Screen Rome; Deborah Jenson, Assistant Professor of French, published a significant article and completed revisions on her book to be published this year by Johns Hopkins Press; Natasha Kolchevska, Associate Professor of Russian, completed work on her book to be published this fall, and was awarded an NEH grant (in the amount of $124,000) for a 2002 summer program; Byron Lindsey, Associate Professor of Russian, was the recipient of a prestigious translation award from Boston University, and led a group of students to Moscow for a summer language study program; Peter Pabisch, Professor of German, published an edited volume, and continued to develop new programs through the Atlantic Bridge on the Camino Real; Walter Putnam, Professor of French, published a substantial essay on Andre Gide, and gave several national and international presentations; Diana Robin, Professor of Classics, published an edited volume and an essay on Renaissance women writers; Katrin Schroeter, Assistant Professor of German, continued to work on the revisions for her book on German film, to be published later this year; and Warren Smith, Professor of Classics, published an article on Erasmus, gave several talks, and was awarded the Gunter Starkey Teaching Prize from the College of Arts & Sciences.

The department's teaching mission was also supported by the efforts of several excellent part-time instructors: Machiko Bomberger taught several sections of popular courses in Japanese language at all levels; Rachele Duke continued to carry the entire Italian program, teaching several sections of Italian language and culture, and advising many students in independent study projects and in the minor program; Jian Zhu also continued to carry the entire Chinese program, teaching several sections of Chinese language, advising students, and successfully creating a new course for students interested in a fourth-year of Chinese; and Marina Peters-Newell, who received her doctorate this year from the University of Washington, coordinated the lower-division sections of French, taught several courses, and organized the weeklong orientation program for the Teaching Assistants in the department.

This year, the Department of FLL continued to teach a variety of courses at the graduate and undergraduate levels that were cross-listed and attracted students from other departments and colleges across campus. With the implementation of the core curriculum, several courses within the department specifically satisfy requirements in the Humanities and Languages, and will continue to draw and serve a very broad student constituency. Several dedicated faculty members from FLL are contributing to new programs designed to augment the freshman experience. In the coming year, the department Chair and faculty plan to focus on enhancing our graduate programs, by working on better methods of recruitment and retention, developing clearer guidelines for graduate students in our programs, and continuing to offer professional enrichment opportunities for graduate students to improve their teaching and research skills. We also wish to continue to be at the forefront of international study programs, both on campus and summer study programs abroad. The department is committed to fulfilling our goals to serve both our own majors and the larger UNM community of students interested in foreign languages, literatures and cultures.

Department of Foreign Languages & Literatures
Faculty Publications, Outside Professional Activities, Awards & Grants
Annual Review 2000-2001

Susanne Baackmann

Baackmann, Susanne and Collier Sy-Quia, Hilary, eds. *Conquering Women: Women War and the German Cultural Imagination.* Berkeley: IAS Press, 2000. (201 pp.)

"Configurations of Myth, Memory and Mourning in Grete Weil's *Meine Schwester Antigone,* " in *German Quarterly* 73.3 (Summer 2000) 269-86.

Lexicon entry on Aysel Ozakin in *Who's Who in Contemporary Women's Writing,* ed. Jane Eldridge Jeldmiller. London: Routledge, (2001) 246.

Book Review: *Erinnern und Erzaehlen. Studie zu Ingeborg Bachmanns Erzaehlband "Das dreissigste Jahr"* by Ursula Toeller. Berlin, 1998. In *German Quarterly* 73.3 (Summer 2000) 429-30.

Book Review: *Auftritt der Tod im Wirbel der Konfetti. Erzaehlen und Erfinden im Fruewerk Gerhard Koepfs* by Wolfgang-Michaels Boettcher. Frankfurt a. M., Berlin, 1999. In *German Quarterly* 73.3 (Summer 2000) 430-31, and *German Quarterly* 73.1 (Winter 2000) 111-13.

"Die Wiederkehr der Kindheit als Film," professional paper read for the International Association of German Scholars, September 2000, Vienna, Austria.

"Reconfiguring the Witness in Recent Memory Work by Women," professional paper read for the German Studies Association, October 2000, Houston, Texas.

"Reconfiguring the Witness: Memory Work in Marianne Rosenbaum's film *Peppermint Frieden,*" Heine Bonwitt Lecture at the University of California, Berkeley, May 2000.

Stephen Bishop

"The Legality of Literary Theory," professional paper read for the Literature on Trial Conference, October 2000, Emory University, Atlanta, Georgia.

"Teaching Law through Literary Theory," professional paper read for the Modern Language Association, December 2000, Washington, DC.

"Theory vs. Practice: Law's Rhetorical Defense," professional paper read for the Law & Society Conference, July 2001, Budapest, Hungary.

Pamela Cheek

"Metissage and the Limits of Desire in the Antipodes," professional paper read for the Modern Language Association, December 2000, Washington, DC.

Monica Cyrino

Book Review: *Victorian Sappho*, by Yopie Prins. Princeton, 1999. In *Religious Studies Review* 26.1 (Winter 2000) 81.

"The Look of Love: The Identity of the Goddess in Alkman's Louvre *Partheneion*," professional paper read for the Classical Association of the Middle West and South, April 2000, Brigham Young University, Provo, Utah.

"Big-Screen Rome: An Interdisciplinary Approach to Teaching Classics and Cinema," professional paper read for the American Classical League Institute, June 2001, Trinity University, San Antonio, Texas.

Recipient of UNM Presidential Teaching Fellowship, 2000-2002.

Deborah Jenson

"Louise Ackermann's Monstrous Nature," in *Symposium* 53:4 (Winter 2000) 234-48.

"Paul and Virginie Do the Haitian Revolution: The Intermarriage Plot in 'Bug-Jargal,' 'Ourika,' and 'Toussaint Louverture,'" professional paper read for the Nineteenth Century French Studies Conference, October 2000, Champaign-Urbana, Illinois.

"Imitation Empires: Lamartine's Critique of Race and Imperial Representation in 'Toussaint Louverture,'" professional paper read for the Modern Language Association, December 2000, Washington, DC.

Natasha Kolchevska

"The Poetics of Camp Testimony," professional paper read for the American Association for the Advancement of Slavic Studies, November 2000, Denver, Colorado.

TAS grant for the development of web-based teaching materials, Spring 2001.

Byron Lindsey

"Text(less) in a Void: V. Pelevin's 'Chapaev I Pustota,'" professional paper read for the International Congress for Central & East European Studies, August 2000, Tampere, Finland.

"Media in the Classroom: On Making a Film in Russia," professional paper read for the Central Association of Russian Teachers of America, April 2001, Oklahoma City, Oklahoma.

Recipient of the William T. Arrowsmith Translation Award for the translation of "The Greek Variation" by Viktor Pelevin, from *AGNI*, the literary journal of Boston University, 2000.

Peter Pabisch

Pabisch, Peter, ed. *Swiss/Alemannic Perspectives of the Nineties*. Shatzkammer, University of South Dakota, 2000 (202 pp.)

"The Atlantic Bridge on the Camino Real," in *Preparing the Manager of the 21st Century*, ed. Konstantinos Agorastos, Thessaloniki, Greece: University of Macedonia, 2000, 11-17.

"Ernst Jandl and Humor in Austrian Literature," invited lecture for the Austrian Embassy, July 2000, Washington DC.

"The Habsburgs and the Southwest," invited lecture for the Taos Institute for Language Teachers, July 2000, Taos, New Mexico.

Recipient of the 8th Friedestrom Prize for scholars in modern German dialect literature after World War II, Spring 2001, Zons, Germany.

Walter Putnam

"Writing the Wrongs of French Colonial Africa: Gide's *Voyage au Congo* and *Retour du Tschad*," in *Andre Gide's Politics: Rebellion and Ambivalence*, ed. Tom Conner, New York: St. Martin's, 2000, 89-110.

"Terrains vagues: les paysages de J.M.G. Le Clezio," professional paper read for the Conseil International d'Etudes Francophones, May 2000, Sousse, Tunisia.

"Gide and the Colonial Politics of French West Africa," professional paper read for the International Gide in Florida conference, January 2001, Sarasota, Florida.

Diana Robin

Robin, Diana, ed. and trans. *Cassandra Fedele (1465-1558): Letters and Orations*. Chicago: University of Chicago, 2000.

"Humanism and Feminism in Laura Cereta's Public Letters," in *Women in Italian Renaissance Culture and Society*, ed. L. Panizza. Oxford, 2000, 368-84.

"Euripides' *Suppliant Women*, Athenian Democracy, and Althusser's Theory of Ideology," professional paper read for the Classical Association of the Atlantic States, October 2000, Philadelphia, Pennsylvania.

"Dedicatory Letters as a Renaissance Genre and the Fashioning of Three Selves in Two Letters," professional paper read for the Sixteenth-Century Studies Conference, November 2000, Cleveland, Ohio.

Katrin Schroeter

Book Review: *Der heimliche Koenig: Leben und Werk von Peter Huchel*, by Hub Nijssen, and *Peter Huchel: A Literary Life in 20th Century Germany*, by Stephen Parker. In German Studies Review, 13.1 (2000).

Warren Smith

"Erasmus with Froben in Basel: Master of the Printing Press," in Swiss/Alemannic Perspectives of the Nineties, ed. P. Pabisch, University of South Dakota: 2000, 127-36.

Book Review: *Dreams and Suicides: The Greek Novel from Antiquity to the Byzantine Empire*, by Suzanne MacAlister, Routledge 1996. In the *International Journal of the Classical Tradition* 6.3 (Winter 2000) 469-70.

"Platonism in Apuleius' Tale of Aristomenes," professional paper read for the International Conference on the Ancient Novel II, July 2000, Gronigen, Holland.

"The Cold Cares of Venus," professional paper read for the Classical Association of the Middle West and South, April 2001, Provo, Utah.

Recipient of the College of Arts and Sciences Gunter Starkey Award for Outstanding Teaching, Spring 2001.

UNM ANNUAL REPORT
DEPARTMENT OF GEOGRAPHY
July 1, 2000 to June 30, 2001
Olen Paul Matthews

Chair

1. SIGNIFICANT DEVELOPMENTS

1.1 COMPLETION OF PROGRAM REVISIONS and GRADUATE PROGRAM REVIEW

In its 1994 five-year plan, the Department changed the focus of its curriculum to emphasize environmental analysis using geographic information technologies. The plan was based on recommendations from a graduate program review in 1992. The implementation of the plan was substantially completed by the fall of 2000 except for the additional faculty members specified in the plan and implementation of the PhD program. The Department had evolved into one that was substantially different from that of 1992. Four new faculty members were added, significant computing power for teaching and research was installed, and Geography and the Earth Data Analysis Center (EDAC) were co-located.

The program revision implemented between 1995 and 2000 was a comprehensive and complete change. The Department made environmental systems analysis its focus. Environmental systems analysis integrates biotic, hydrologic, and climatic systems and evaluates how humans interact with these systems in order to solve complex problems. The key to our approach is integration, and our tool is Geographic Information Technology (GIT). GIT includes remote sensing, spatial statistics, GPS, and geographic information systems (GIS). GIT is heavily computer oriented, but field studies and field-based tools are often used to provide the data required for analysis. This area of emphasis was chosen because an integrated approach is needed to understand and solve many of today's problems. The scientific community has discovered that looking at problems from a single discipline's perspective ignores significant aspects that must be included if a problem is to be understood and solved. In addition, the scientific community has recognized that an understanding of how humans interact with the environment is essential if sound policies are to be developed and impacts assessed. Until recently, integrated modeling lacked the computing power to successfully analyze environmental problems at anything but a very coarse scale or very limited area. Today, improved computer systems and improved GIT software make such modeling possible. The Department is committed to developing environmental modeling techniques that operate using GIT and that are useful for policy analysis and impact assessment. Our curriculum is designed to provide students the tools, scientific background, and policy understanding that will allow them to become geographers capable of environmental systems analysis.

In the Fall of 2000 the Department underwent another graduate program review. The review committee agreed with the changes that had been made in the program. They felt if the proposed hiring plan was completed and some other resources were added to the Department, we would be able to offer a very competitive PhD program. In general the review was very favorable. The Department will continue to emphasize environmental analysis.

1.2 SPATIAL DATA ANALYSIS LABORATORY

At the end of the academic year it was decided to convert our teaching lab to PC's. This decision was made in order to reduce problems we had been having in systems administration. The Department was able to assemble a 12 seat PC lab that will be used to teach our GIT courses and physical geography labs. Most Geography Departments in the country use PC's to teach these courses. We have one major concern. The current PC lab needs to be expanded to 20 seats. It has already been moved to a larger room. A minor concern is systems administration. At present we are relying on graduate student assistance but this is not always sufficient and we do not have additional support in our budget.

1.3 RESEARCH GRANTS

Perhaps the most significant development within the Department has been our success in obtaining grants. The Department has ongoing grants for over $1.1 million from federal sources. If EDAC grants are included the figure is well over $5.0 million. The grants reflect the Department's new programmatic direction.

1.4 EARTH DATA ANALYSIS CENTER (EDAC)

EDAC was co-located with the Geography Department three years ago. This has created space problems, but the increased opportunities for interaction are beneficial. EDAC is engaged in remote sensing and geographic information systems (GIS) development and serves as a focal point for graduate and undergraduate student employment. As of July 1, 1999, EDAC was made part of Arts and Sciences. Their budget is separate from Geography's, but the Director of EDAC is a full time faculty member in Geography and reports to the Dean of Arts and Sciences.

2. SIGNIFICANT PLANS

The Five year plan the Department developed in 1994 is now out of date. During September 2000 the Department went through another graduate program review. Based on that review and a hiring plan to be worked out with a new Dean, the Department will develop a new plan. Of major importance is a new hiring plan.

3. STAFF APPOINTMENTS AND SEPARATIONS

The faculty was composed of 4.5 salaried members in the Fall, 1993. The faculty was at 7 FTE in September 2000. Four of the seven faculty were hired after 1993. At the end of the 2000-2001 academic year, Louis Scuderi was transferred to Earth and Planetary Science. Kirk Gregory resigned effective June 30, 2001. The Department is now at five FTE with two others being vacant. Filling these two vacant positions is crucial for the future of the Department.

4. PUBLICATIONS AND PROFESSIONAL ACTIVITIES

4.1 PUBLICATIONS AND PRESENTATIONS

Publications

Budge, A.M. and Morain, S.A., "An Internet Accessible Data and Information System for Resources Managers." Proceedings 8th Biennial Forest Service Remote Sensing Applications Workshop (RS-2000). Bethesda, MD: ASPRS: The Imaging and Geospatial Information Society (2000).

Cullen, B., Jussila, H., and Majoral, R. (eds.), Sustainability Issues and Ecological Consequences of Globalization and Deregulation policies in Marginal and Critical Regions, Aldershot:Ashgate (accepted).

Cullen, Bradley T. and Pretes, M., "The Meaning of Marginality: Interpretation and Perceptions in Social Science," Social Science Journal, 37, pp 215-229 (2000).

Cullen, Bradley T. and Jackson, H.E., "A River Divides Them: The Quality of Life in Albuquerque, NM," Papers and Proceedings of the Applied Geography Conferences, 23 (2000).

Gregory, K., "Estimating Exceedence Probability of Water Quality Criteria in Urban Stormwater Runoff," Papers and Proceedings of the Applied Geography Conferences, 23, pp. 19-27 (2000).

Matthews, Olen Paul, "Water Law," Water Sciences, Farmington Hills, MI: Macmillan Reference USA (accepted).

Matthews, Olen Paul, "Public Water Rights," Water Sciences, Farmington Hills, MI: Macmillan Reference USA (accepted).

Matthews, Olen Paul, "Marketing Western Water: Can a Process Based Geographic Information System Improve Reallocation Decisions," with Louis Scuderi, David Brookshire, Kirk Gregory, Seth Snell, Kate Krause, Janie Chermak, Bradley Cullen, and Michael Campana, 41(2): 329-371, Natural Resources Journal 1 (2001).

Matthews, Olen Paul, "The Constitution and Regional Economic Development," Applied Geography Conferences, 23: 285-291 (2000).

Matthews, Olen Paul, "Traditional Water Uses in New Mexico," in Sustainability Issues and Ecological Consequences of Globalization and Deregulation policies in Marginal and Critical Regions, Cullen, B., Jussila, H., and Majoral, R. (eds.), Aldershot:Ashgate (accepted).

Morain, S.A., "Receding Forests of the Sky Islands: Impacts of Potential Climate Change and a Vision for Future Prediction. Proceedings 8th Biennial Forest Service Remote Sensing Applications Workshop (RS-2000). Bethesda, MD: ASPRS: The Imaging and Geospatial Information Society (2000).

Morain, S.A., Contributor to the Digital Library for Earth Systems Education (DLESE): A Community Plan. Edited by Manduca, C.A. and Mogk, D.W. National Science Foundation Grant #99-06648 (2000).

Watson, R.P., and Morain, S.A., "Fine Spatial and Spectral Resolution Satellite Sensors: A Vision of the First Quarter of the 21st Century," International Conference on Engineering and Technological Sciences 2000 (ICETS 2000). Chinese Academy of Engineering, CD ROM (2000).

Presentations

Cullen, Bradley T., "Management of Western Australia's Land: Who Is In Charge?" Annual Meeting, IGU Commission on Evolving Issues of Geographical Marginality in the Early 21st Century World, Taegu, Korea (August, 2000).

Cullen, Bradley T. and Jackson, H., "A River Divides Them: The Quality of Life in Albuquerque, New Mexico," 23rd Applied Geography Conference, Tampa (October, 2000).

Cullen, Bradley T., "Are Western Australians Sold on Sustainable Land Use Practices?" Annual Meeting, Southwest Division, Association of American Geographers, College Station, Texas (November, 2000).

Cullen, Bradley T., "Controversy Over the Management of New Mexico's Forests," Association of American Geographers, New York (2001).

Gere, T., McFadden, L.D., and Scuderi, L.A., "Late Quaternary Geomorphic Evolution of Two Drainage Basins in the Jemez Mountains, New Mexico," Geological Society of American Annual Meeting, Reno (2000).

Matthews, Olen Paul, "Are New Mexico's National Forests Really Federal Land?" Association of American Geographers, New York (2001).

Matthews, Olen Paul, "The Constitution and Regional Economic Development," Applied Geography Conference, Tampa (2000).

McFadden, L., McAulife, J., McDonald, E., Scuderi, L., and Hamerlynk, E., "Contributions of Multidisciplinary Geomorphic, Ecologic and Soils Studies to Research in Landscape Ecology," Geological Society of America Annual Meeting, Reno (2000).

Scuderi, L., McAuliffe, J., Fawcett, P., McFadden, L., and Tillery, A., "Drought Cycles in the American Southwest and Their Influence on Geomorphic Processes," Geological Society of American Annual Meeting, Reno (2000).

Snell, S.E., "Spatial Challenges for the Estimation of Rainfall Intensity from WSR-88D Radar Data," 23rd Annual Applied Geography Conference, Tampa, FL (October 2000).

Snell, S.E., "Model Calculated Soil Moisture or Precipitation for Yield Modeling," 24th Conference on Agriculture and Forest Meteorology, Davis, CA (August 2000).

Tillery, A., Fawcett, P., McFadden, L., McAuliffe, J., and Scuderi, L., "Climatic, Lithologic and Other Geomorphic Controls on Late Holocene Landscape Evolution in Northeast Arizona," Geological Society of America Annual Meeting, Reno (2000).

4.2 OUTSIDE PROFESSIONAL ACTIVITIES

Dr. Cullen was elected as a full member of the Commission on "Evolving Issues of Geographical Marginality in the Early 21st Century World," International Geographical Union. In addition, he chaired these sessions: "Policies and Strategies in Marginal Regions," IGU Commission on Evolving Issues of Geographical Marginality in the Early 21st Century World, Taegu, Korea, August, 2000 and "Land Use and Ecological Management," Annual Meeting, Southwest Division, Association of American Geographers, College Station, Texas. Dr. Cullen organized and chaired the session "Regional Development Issues," 23rd Applied Geography Conference, Tampa, October, 2000, with Lawrence Sommers. He continues to serve as Associate Editor for the Southwestern Geographer and as a member of the Board of Directors of the Applied Geography Conferences.

Dr. Matthews served and continues to serve on several professional boards including: Advisory Board, Interamerican Dialog on Water Management; Shared Use of Transboundary Water Resources Task Committee, American Society of Civil Engineers; and Water Regulatory Standards Committee, American Society of Civil Engineers.

Dr. Stan Morain's outside professional activities include: Elected President, Commission-I of the International Society for Photogrammetry and Remote Sensing (2000-2004); Editor-in-Chief Photogrammetric Engineering and Remote Sensing; and Editorial Board, GeoCarto International: An International Journal of Remote Sensing. He participated in the *Editor's Forum for Remote Sensing and GIS Professional Journals*, Calgary, Alberta, Canada, September, 2000; the *Western Regional Workshop Serving State, Local and Tribal Government Users: Applications of Geospatial Information,* Sacramento, CA, September, 2000; and the DOT-NASA *Joint Program Oversight Committee (JPOC)* meeting, Washington, D.C., December, 2000. Also, he reviewed a proposal for the NASA ESPCoR Program titled "Airborne Remote Sensing for Agricultural Research and Commercialization Applications", November, 2000, and reviewed numerous journal manuscripts. In addition, he made technical presentations at the *Conference on Remote Sensing and Spatial Information Technologies for Transportation*, Washington, D.C., December, 2000.

Dr. Scuderi was a UNM delegate at the University Consortium for Geographic Information Systems (UCGIS) from 1998-2001. He performed journal reviews for the Canadian Journal of Forestry, Physical Geography, Geophysical Research Letters, Arctic and Alpine Research, Geofiska, Photogrametric Engineering and Remote Sensing, and Natural Resources Journal. He also participated in proposal reviews for the National Science Foundation (Geography and Regional Sciences, Geosciences, Earth Systems Science, ATM Paleoclimate Program, ATM Climate Dynamics Program, and Instrumentation) and the National Geographic Society (Grants in Research).

Dr. Snell reviewed articles for the Journal of Applied Meteorology and International Journal of Climatology.

Dr. Williams organized and operated the annual Southwest Institute, which was hosted by the New Mexico Museum of Natural History. Both graduate and undergraduate credits in Geography were offered through UNM for the Southwest Institute. In conjunction with these field courses, Dr. Williams organized and edited a collection of readings and reference material, and created a field Guide. He worked with Albuquerque GIS on development of historical mapping of the downtown core, and was a member of the Bosque Restoration.

4.3 OUTSIDE SPONSORED RESEARCH

"Global Positioning System Center of Excellence," Trimble Navigation Ltd. $90,000 (estimated value of GPS equipment, software and community base station receiver) plus twice annual equipment upgrades and software updates (1996-ongoing). L.A. Scuderi and J. Marquis (NMERI), PIs.

"Geographic Information System (GIS) Support," New Mexico Army National Guard $45,000 (1999-2001). L.A. Scuderi, PI.

"A Flash Flood Prediction Model for Rural and Urban Basins in New Mexico", New Mexico Water Resources Research Institute Seed Money Research Program $24,759 (2000-2001). Co-PIs Kirk Gregory and Seth Snell.

"Valuing Water for Sustainable Development in the Americas," N.O.A.A. $20,000 (2000-2001), Co-PI's Olen P. Matthews, Michael Campana and David Brookshire.

"An Integrated GIS Framework for Water Reallocation and Decision Making in the Upper Rio Grande," E.P.A. $410,000 (2000-2003), Co-PI's: Olen P. Matthews, David Brookshire. Co-Investigators: Janie Chermak, Kate Kraus, Bradley Cullen, Seth Snell, Kirk Gregory, Louis Scuderi, and Michael Campana.

"A Quantitative Assessment of the Economic and Institutional Impacts of Climate Change on the Upper Rio Grande Valley using an Integrated GIS Framework," N.S.F. $675,000 (2000 – 2003), Louis Scuderi, P.I. Co-Investigators: Olen Paul Matthews, Seth Snell, Kirk Gregory, David Brookshire, Janie Chermak, and Michael Campana.

"Performing a Regional Assessment and Prototyping Internet Accessible Products for the Upper Rio Grande Basin," National Aeronautics and Space Administration: Original funding $1.2 million; add-on funding increased base to $2.6 million (1998-2003). S.A. Morain, P.I.

"Commercial Remote Sensing: Partnerships with Industry," NASA/Stennis Space Center $600,000 (1999-2001). S.A. Morain, P.I.

"Safety, Hazards, and Disaster Assessment in Transportation," U.S. Department of Transporation $3.0 million (2000-2005). S.A. Morain, P.I.

DEPARTMENT OF HISTORY

Annual Report
(1 January - 31 December, 2000)

The year 2000 was one of considerable achievement for the Department of History. Our faculty continued to do fine work in both teaching and scholarship and rendered consistent service to the university, the profession and the community. The major attainments of the department and its staff are summarized below.

I. Program Improvements

A. New Undergraduate Courses:

320 Europe and the Balkans (Melissa Bokovoy)
320 Latin American Labor History (Elizabeth Hutchison)
320 The Crusades (Jay Rubenstein)
320 European Social History (Lynn Schibeci)
320 U.S. - Mexico Borderlands (Samuel Truett)
460 The Vietnam War Era (David Farber)
468 United States, 1920 - 1960 (David Farber)
479 Women in the Western United States (Virginia Scharff)
492 Drug Wars (David Farber)
492 American Landscapes and Communities (Virginia Scharff)
492 City Life (Lynn Schibeci)

B. New Graduate Courses:

510 Latin America and the Atlantic World (Judy Bieber)
521 The Age of Chivalry (Jay Rubenstein)
551 History of Atomic America for Teachers (Timothy Moy)

II. Student Achievements

A. Awards, Fellowships, Prizes:

Raymond Drolet: Fulbright Scholarship for Study in Spain

Adam Kane: John F. Kennedy Memorial Award

M. David Key: Dorothy Woodward Memorial Fellowship

Paul Richter: Best Honors Thesis

Amy Scott: Frederick G. Bohme Memorial Prize

Joerg Wehrenpfennig: L. Dudley Phillips Fellowship

Joseph Weixelman: Sen. Joseph M. Montoya Fellowship

B. Placement:

Jonathan Ablard: University of West Georgia

Carlos Herrera: University of San Diego -- Calexico

John Herron: Tufts University (One-Year Appointment)

Jeff Roche: Trinity College (One-Year Appointment)

Barbara Sommer: Gustavus Adolphus College (One-Year Appointment)

Joseph Weixelman: Western Michigan University (One-Year Appointment)

III. Faculty Achievements

A. Publications:

Richard Berthold

Review of Slaves, Warfare and Ideology in the Greek Historians, by P. Hunt. In Red River Valley Quarterly 1 (Spring 2000): 87-88.

Judy Bieber

Editor. State, Society and Political Culture in Nineteenth-Century Brazil, a special issue of Luzo-Brazilian Review 37 (Winter 2000).

"When Liberalism Goes Local: Native and Partisan Identity in the Sertao Mineiro, 1831-1850." Luzo-Brazilian Review 37 (Winter 2000): 75-94.

Melissa Bokovoy

"Yugoslavia." In Encyclopedia of Modern East European History, 1815-1989, ed. Richard Frucht, 871-896. Chicago: Garland Press, 2000.

Margaret Connell-Szasz

"Introduction." In Sampson Occom and the Christian Indians of New England, by W. Deloss Love, xv-xxxi. Syracuse, NY: Syracuse University Press, 2000.

"The Education Connection: Christopher Columbus to Sherman Alexie." Journal of American Indian Education 38 (Spring 1999): 44-54. (Appeared summer 2000).

Review of Native American Higher Education in the United States, by Cary Michael Carney. In American Historical Review 105 (October 2000): 1318-1319.

David Farber

"Intellectuals and Democracy." American Literary History 12 (Fall, 2000): 793-801.

"Youth Culture and Political Violence." 49th Parallel 1 (January, 2000): 41-45.

Daniel Feller

Editor. Retrospect of Western Travel, by Harriet Martineau. Armonk, NY: M.E. Sharpe, 2000. (Abridgement, twelve-page introduction and notes).

"Arthur M. Schlesinger, Jr." In Clio's Favorites: Leading Historians of the United States, 1945-2000 ed. Robert Rutland, 156-169. Columbia, MO: University of Missouri Press, 2000.

"Benjamin Tappan: Democrat, Scientist, Iconoclast." In The Human Tradition in Antebellum America, ed. Michael A. Morrison, 213-228. Wilmington, DL: Scholarly Resources, 2000.

"Postmodern Political Science." Reviews in American History 28 (September 2000): 388-392.

Review of Race, Class and Politics in New York City Before the Civil War, by Anthony Gronowicz. In American Historical Review 105 (October 2000): 1310.

Review of Sherman's Civil War, by Brooks Simpson and Jean Berlin. In Pennsylvania Magazine of History and Biography 124 (January 2000): 223-225.

Linda Hall

Review of The Mexican Right and the End of Reform, 1929-1940, by John W. Sherman. In The Journal of Arizona History 41 (Spring 2000): 99-101.

Elizabeth Hutchison

"La historia detrás de las cifras: La evolución del censo Chileno y la representación del trabajo femenino, 1895-1930." Historia 33 (2000): 1-19.

Paul Hutton

"Custer's Trail." Old West Journal (Winter 2000): 28-39.

"Hell and Texas." In Forever Texas, ed. Mike Blakely, 255-256. New York: Forge, 2000.

"In Search of Wyatt Earp." Journal of Arizona History 41 (Summer 2000): 197-206.

"King's Mountain." True West (December 2000): 26-31.

"Mr Crockett Goes to Washington." American History (April 2000): 20-28.

Jonathan Porter

"A Requiem for Portuguese Macau." Persimmon 1 (Summer 2000): 24-33.

Review of A Translucent Mirror: History and Identity in Qing Imperial Ideology, by Pamela Crossley. In History: Review of New Books 28 (Spring 2000): 137.

Noel Pugach

Review of Dilemma and Decision: An Organizational Perspective on American China Policy Making, by Yufan Hao. In China Review International 7 (Fall 2000): 445-450.

Review of Dispatches from the Mexican War, by George Wilkins Kendall, ed. Lawrence Delbert Cress. In New Mexico Historical Review 75 (October 2000): 608-610.

Richard Robbins

Review of The Tsar's Colonels: Professionalism, Strategy and Subversion in Late Imperial Russia, by David Alan Rich. In Slavic Review 59 (Summer 2000) 456-57.

Jay Rubenstein

Review of "Dei gesta per Francos" et cinques autres textes, by Guibert de Nogent, ed. R. B. C. Huygens. In Speculum 75 (2000): 843-845.

Review of Women and the Religious Life in Premodern Europe, by Pastricia Ranft. In Religion and the Arts 4 (2000): 290-292.

Virginia Scharff

[Virginia Swift] Brown-Eyed Girl. New York: Harper Collins, 2000.

"Claims and Prospects of Western History." Western Historical Quarterly 31 (Spring 2000): 25-26, 44-46.

Review of PBS Video Hoover Dam: The Making of a Monument, by Stephen Stept. In Journal of American History (December 2000): 1158-1159.

Jane Slaughter

"Sex and the Military." In Oxford Companion to American Military History, 651-652. New York: Oxford University Press, 2000.

Review of Battle Cries and Lullabies: Women in War from Prehistory to the Present, by Linda Grant Depauw. In New Mexico Historical Review 75 (April, 2000): 268-269.

Review of The Gender of History, by Bonnie Smith. In Journal of Interdisciplinary History 30 (Spring 2000):642-643.

Review of Las mujeres in America del norte al fin dell melenio, ed. Monica Verea and Graciella Hierro. In Journal of American History (December 2000): 1138-1139.

Ferenc Szasz

Scots in the North American West, 1796-1917. Norman, OK: University of Oklahoma Press, 2000.

Religion in the Modern American West. Tucson, AZ: University of Arizona Press, 2000.

"The Comic Book that Changed the Nation." Comic Book Marketplace 79 (June 2000): 48-52.

"Episcopal Bishops and the Trans-Mississippi West, 1865-1918." Anglican and Episcopal History 69 (September 2000): 358-370.

"Modern American Mainline Protestantism." In The History of Science and Religion in the Western Tradition: An Encyclopedia, ed. Gary B. Ferngren, 291-297. New York: Garland Publishing, 2000.

Review of Atomic Spaces: Living on the Manhattan Project, by Peter Bacon Habs. In Pacific Historical Review 69 (February 2000): 138-139.

Review of Rocks of Ages: Science and Religion in the Fullness of Life, by Stephen Jay Gould. In Choice 37 (March 2000):

Review of The Seeds of Struggle, Harvest of Faith: The History of the Catholic Church in New Mexico, by Thomas J. Steele, S.J., Paul Rhetts and Barbe Awalt. In New Mexico Historical Review 75 (January 2000): 136-137.

Review of Something in the Soil: Legacies and Reckonings in the New West, by Patricia Nelson Limerick. In Albuquerque Journal, 16 April 2000.

Review of Summer for the Gods: The Scopes Trial and America's Continuing Debate over Science and Religion, by Edward J. Larson. In Journal of Southern History 66 (February 2000): 154-155.

Review of The Village Enlightenment in America: Popular Religion and Science in the Nineteenth Century, by Craig James Hazen. In Choice 38 (October 2000): 376.

Samuel Truett

Review of Culture y Cultura: Consequences of the U.S. Mexican War, 1846-1848, ed. Iris H. W. Engstrand, et al. In Journal of Arizona History 41 (Autumn 2000): 335-37.

Mel Yazawa

"Impact of the Revolution on Education." In A Companion to the American Revolution, ed. J. P. Greene and J. R. Pole, 427-434. Oxford: Oxford University Press, 2000.

"Impact of the Revolution on Social Problems: Poverty, Insanity and Crime." In A Companion to the American Revolution, ed. J. P. Greene and J. R. Pole, 435-443. Oxford: Oxford University Press, 2000.

B. Conference and Other Scholarly Presentations:

L. Durwood Ball

"Intervention of the U.S. Army in Civil Unrest in the West During the 19th Century." Frontier Justice Symposium, Buffalo Bill Historical Center, Cody Wyoming, October 2000.

Judy Bieber

"Electoral Participation and Political Violence in the Sertao Mineiro do Sao San Francisco, Minas Gerais, 1831-1850." American Historical Association Convention, Chicago, January 2000.

Melissa Bokovoy

"The Perils of History: Doing Research in Serbia and Croatia in the 1990s." Invited Lecture, Seminar in Modern East European History, Texas Tech University, October 2000.

Margaret Connell-Szasz

"Schooling Scottish Highlanders, Iroquois and Northeast Algonquians: The Long Reach of Scottish Lowlanders in 18th-Century Education." Organization of American Historians Conference, St. Louis, March 2000.

"Nationalism and Cultural Renaissance: Native American and Celtic Worlds, 1960-2000." American Indian Council, Academic Lecture Series, Arizona State University, Tempe, AZ, April 2000.

David Farber

"Corporate Citizens." Business History Conference. Palo Alto, CA, March 2000.

"Sloan Rules." Cultural Studies Colloquium, University of New Mexico, Albuquerque, NM, March 2000.

Daniel Feller

"Recentering Jacksonian America." Commonwealth Fund Lecture, Commonwealth Conference on American History, University College, London, February 2000.

Kimberly Gauderman

"Indigenous Women and Commercial Life in Colonial Ecuador." Conference of the Rocky Mountain Latin American Studies Association, Santa Fe, NM, January 2000.

"Woman, Indian, Entrepreneur: Indigenous Market Women in Seventeenth-Century Quito." Conference of the Latin American Studies Association, Miami, FL, March 2000.

"Sexuality and Witchcraft in Early Latin America." Southwest Women's History Colloquium, University of New Mexico, Albuquerque, NM, September 2000.

Linda Hall

"La Virgen Maria en America Latina." Catedra Friedrich Katz, Universidad Autonoma de Ciudad Juarez, December 2000.

"Mother and Warrior: The Virgin Mary and Migration through the Centuries." Snead-Wertheim Lecture, University of New Mexico, Albuquerque, NM, April 2000.

"The Virgin Mary, Coatlicue, and Pachamama: Thoughts on the Sacred Feminine in Latin America." University Research Lecture, University of New Mexico, Albuquerque, NM, April 2000.

Elizabeth Hutchison

"Research on Gender and Labor in Latin America." Conference of the Latin American Studies Association, Miami, FL, March 2000.

Paul Hutton

"From the Potomac to the Rio Grande." Twelfth Annual Chambersburg Civil War Seminar, Chambersburg, PA, July 2000.

"Rough Riders." Oklahoma Historical Society, Attus, OK, April 2000.

"Theodore Roosevelt and His Rough Riders." Colorado Historical Society, Denver, CO, April 2000.

"Discrimination and the Politicization of Scholarly Associations." Annual Meeting, Organization of American Historians, St. Louis, MO, March 2000.

"The Alamo Myth." West by Northwest Conference, National Park Service, San Diego, CA, March 2000.

"Davy Crockett." History Books 2000, Greystone History Store, San Antonio, TX, March 2000. (Broadcast on Book TV, C-Span, 8 April 2000).

"Billy the Kid." Southwest Popular Culture Association Conference, Albuquerque, NM, February 2000.

"U.S. Marshals: The Old West." On-Air Commentary, History Channel, 12 April 2000

"Sex in the Real West." On-Air Commentary, Time Machine with Roger Mudd, History Channel, 3 June 2000.

Noel Pugach

"Harry S. Truman." First Person Presentation, Millennium on the Mall, Smithsonian Institution, Washington, DC, January 2000.

Barbara Reyes

"Californias and Agency in the 19th Century." Western Historical Association Conference, San Antonio, TX, October 2000.

Jay Rubenstein

"Principled Passion or Ironic Detachment? An Analysis of the Gregorian Reform as Experienced by Guibert of Nogent." Meeting of the Haskins Society, Cornell University, Ithaca, NY, October 2000.

Virginia Scharff

"Gender and Car Culture." Plenary Address, Conference on Social and Cultural Aspects of Automobile Transportation, Swedish Transportation and Communication Research Board, Goteborg, Sweden, May 2000.

"Women, Wheels and the West." Niemeyer Endowed Lecture, Grand Valley State University, Grand Rapids, MI, October 2000.

"Seeking Sacagewea." Invited Lecture. Women of the West Museum, Denver, CO, April 2000.

Jane Slaughter

"Gender and Consumerism in U.S. - Italian Relations, 1950-63." Conference of the Society for Historians of American Relations, Toronto, Canada, June 2000.

Jake Spidle

"Slaughter of the Innocents: Poliomyelitis in New Mexico, 1952-1954." Annual Conference of the New Mexico Public Health Association, Santa Fe, NM, April 2000.

Ferenc Szasz

"Robert Burns and Abraham Lincoln." Lincoln Club of Washington, DC, November 2000.

Samuel Truett

"Haunted Frontiers: Empires, Nations and Ruins in the U.S.-Mexico Borderlands." Eighth Maple Leaf and Eagle Conference on North American Studies, University of Helsinki, Helsinki, Finland, September 2000.

"The American Southwest: Land, Culture and History." American Voices Conference, University of Turku, Turku, Finland, October 2000.

Mel Yazawa

"The Perils of Exceptionalism: Reflections on the Relevance and Irrelevance of the American Revolution." National Conference of The Historical Society, Boston, MA, June 2000.

"Dionysian Rhetoric and Apollonian Solutions: The Politics of union and Disunion in the Early Republic." Conference on Early America, Johns Hopkins University, Baltimore, MD, October 2000.

C. Prizes and Awards

Margaret Connell-Szasz

American Indian History Appreciation Award, Western Historical Association

Linda Hall

Chosen University Research Lecturer

Paul Hutton

"Stirrup Award" for Essay: "Dee Brown a Life with Books," Western Writers of America

Samuel Truett

Fulbright Lecturer, University of Tampere, Finland

Chosen Snead-Wertheim Lecturer for 2001-2002 Academic Year

IV. Faculty Service

A. Professional

Richard Berthold

President, New Mexico Association of Scholars

Judy Bieber

Editorial Board, Colonial Latin American Historical Review

Melissa Bokovoy

Editorial Board, H-Habsburg
Editorial Board of Nationality Papers

Daniel Feller

Conference Coordinator, Society for Historians of the Early American Republic
Membership Committee, Southern Historical Association
Membership Committee, Organization of American Historians

Linda Hall

Chair, Mexican Studies Committee, Conference of Latin American History
Member, Committee for Distinguished Service Award, Conference of Latin American History
Reviewer, Grant Applications, National Security Education Program

Paul Hutton

Executive Director, Western History Association
Vice President, Western Writers of America
Editorial Board, Indiana Magazine of History

Virginia Scharff

Executive Committee, Pacific Coast Branch, American Historical Association
Advisory Board, Society for the History of Technology
Alice Hamilton Prize Committee, American Society for Environmental History

Jane Slaughter

Reviewer, Grant Proposals in Italian Women's History, CUNY Research Awards Program

Charlie Steen

Treasurer, Western Society for French History

Jake Spidle

Chair, Fulbright Selection Committee, Houston TX

Ferenc Szasz

Member, Arrington-Prucha Prize Committee, Western Historical Association
Member, Editorial Board, Journal of the West
Member, Editorial Board, Mid-America

Samuel Truett

Co-Chair, 2000-2001 Program Committee, Pacific Coast Branch, American Historical Association

B. Community

Kimberly Gauderman

Instructional Materials Commission, State of New Mexico Department of Education, Early Childhood Development

Timothy Moy

Member, Coalition for Excellence in Science Education
Chair and Commissioner, Instructional Materials Commission, State of New Mexico, Department of Education

Richard Robbins

Board Member, Downtown Neighborhoods Association

Mel Yazawa

Member, Board of Directors, American Civil Liberties Union, New Mexico
Oral History Project, Japanese-American Citizens League of New Mexico

C. University

Richard Berthold

Athletic Council, Member
Lobo Columnist (Gadfly to the University)
Faculty Advisor: Hemp Coalition, Objectivist Club, UNM Gaming Club, UNM Chess Club

Judy Bieber

Latin American and Iberian Institute, Grants and Awards Committee

Melissa Bokovoy

A&S Junior Faculty Promotion and Tenure Committee
A&S Search Committee for Interim Dean
Faculty Senate Athletic Council
Academic Freedom and Tenure Committee
Russian Studies Committee
Faculty Organizing Committee
Strategic Planning Subcommittee: Research and Creative Works
Board Member, Feminist Research Institute

Margaret Connell-Szasz

Faculty Advisor: Sigma Chapter, Phi Alpha Theta
Tenure Evaluation Committee for Lee Francis, Director, Native American Studies

David Farber

A&S Senior Promotion and Tenure Committee
Faculty Senate University Curriculum Committee

Kimberly Gauderman

Latin American and Iberian Institute, Interdisciplinary Committee on Latin American Studies
Latin American and Iberian Institute, Grants and Awards Committee

Linda Hall

Director, Latin American Studies
Latin American and Iberian Institute, Interdisciplinary Committee on Latin American Studies
Latin American and Iberian Institute, Grants and Awards Committee
Member, Mid-Probationary Committee for Celia Lopez-Chavez, Honors Program

Elizabeth Hutchinson

Secretary, UNM Faculty Concilium on Latin America
Latin American and Iberian Institute, Interdisciplinary Committee on Latin American Studies

Jonathan Porter

Faculty Senate Operations Committee
Asian Studies Committee

Noel Pugach

Faculty Senate Library Committee
Asian Studies Committee

Patricia Risso

Member and Chair, A&S Graduate Advisors Committee
Asian Studies Committee

Richard Robbins

Member, A&S Search Committee for Dean
UNM Press Oversight Committee
Russian Studies Committee

Jay Rubenstein

Institute for Medieval Studies
Religious Studies Committee

Virginia Scharff

University Press Board

Lynn Schibeci

NMEH Evaluator, Institute for Medieval Studies Seminar, "Chivalry and the Arthurian Romance"

Jane Slaughter

Chair, Committee on Governance
Chair, Subcommittee on Revision of Faculty Handbook
Member, Board, Feminist Research Institute
Member, Board, UNM-APS Teacher's Institute
Member, Graduate Review Committee for Department of Art and Art History

Charlie Steen

Chair, Admissions and Registration Committee
Member, Undergraduate Committee
Member, Curriculum Committee

Jake Spidle

Consultant/Historian, New Mexico Medical History Committee, Health Sciences Center Library, UNM School of Medicine

Ferenc Szasz

Teaching Allocations Subcommittee

Samuel Truett

Member, Program Committee, UNM Faculty Concilium on Latin America

Mel Yazawa

Academic Freedom and Tenure Committee

V. Faculty/Staff Appointments and Separations

A. Appointments

L. Durwood Ball. Appointed Associate Professor, U.S. History and Editor, New Mexico Historical Review

Barbara Reyes. Appointed Assistant Professor, Chicana/o History

Dana Ellison. Appointed Receptionist

B. Separations

William M. Dabney. Professor Emeritus, U.S. History. Died, 10 May 2000

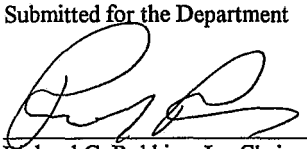
Robert E. Kern. Professor, Spanish History. Died, 15 April 2000

Gerald D. Nash. University Professor Emeritus. Died, 11 November 2000

VI. Future Plans

The Department will continue its efforts to improve both its undergraduate and graduate programs. In connection with changes in the UNM outcomes assessment system, we expect to be making a thorough review of curriculum with an eye to giving it greater consistency and programmatic rigor. The department is considering the development of a portfolio requirement for undergraduate majors and will look at the possibility of some kind of required course for majors at the sophomore or junior level. We expect that our new hire in U.S. history, Andrew Sandoval-Strausz will considerably strengthen our coverage of the late nineteenth and early twentieth centuries. We hope to fill as soon as possible the vacancy in Spanish history left by the death of Robert Kern and the gap in U. S. Western history caused by the resignation of Richard Etulain.

Submitted for the Department



Date 5/21/2001

Richard G, Robbins, Jr., Chairman

Annual Report
Department of Linguistics
2000-2001
Joan L. Bybee, Regents' Professor and Chair

1. Significant developments during Academic Year 2000-2001

The department established a Computational Linguistics concentration at both the MA and PhD levels. Professor Caroline Smith of Linguistics and Professor George Luger of Computer Science taught a course together on Computational Linguistics.

Two Sociolinguistics courses were taught by Visiting Professor Shana Poplack, University of Ottawa.

2. Significant plans and recommendations for the near future.

The Sign Language Interpreting Program has developed a proposal for a BA in Linguistics with a concentration in Sign Language Studies.

The Sign Language Interpreting Program is developing a proposal for a Master's Degree in Signed Language Interpreting.

Professor Melissa Axelrod is developing a proposal for a Center for the Study of the Native Languages of New Mexico in conjunction with members of some of the Native American communities.

3. Appointments to faculty and staff.

Dr. Barbara Shaffer was appointed Assistant Professor of Linguistics with primary teaching responsibilities in the Sign Language Interpreting Program.

Ms. Marta Castillo began as Administrative Assistant on July 15, 2001.

4. Separations of faculty and staff.

Mr. Scott Williams resigned his position as Administrative Assistant on May 31, 2001.

Professor Garland Bills retired from his position effective July 1, 2001.

5. Publications of faculty in Linguistics which appear in Calendar Year 2000

Axelrod, M. (ed.). 2000. Jette, J. and E. Jones, *Dictionary of Koyukon Athabaskan.* Fairbanks, Alaska: Alaska Native Language Center.

Axelrod, M. 2000. The semantics of classification in Koyukon Athabaskan. In T. Fernald and P. Platero (eds.) *Athabaskan Syntax and Semantics.* pp. 11-32. Oxford: Oxford University Press.

Bills, Garland D. and Neddy A. Vigil. 1999. Ashes to ashes: The historical basis for dialect variation in New Mexican Spanish. *Romance Philology.* Vol. 53, pp. 43-67.

Bills, Garland D., Alan Hudson, and Eduardo Hernández Chávez. 2000. Spanish home language use and English proficiency as differential measures of language maintenance and shift. *Southwest Journal of Linguistics.* Vol. 19, pp. 11-27.

Bills, Garland D. and Neddy A. Vigil. 2000. The continuity of change: Nahuatlisms in New Mexican Spanish. In Ana Roca (ed.), *Research on Spanish in the United States: Linguistic issues and challenges.* pp. 137-153. Somerville, MA: Cascadilla Press.

Bybee, Joan. 1998. A functionalist approach to grammar and its evolution. *Evolution of Communication* 2.2.249-278.

Bybee, Joan. 1998. The emergent lexicon. *CLS 34: The Panels.* pp. 421-435. University of Chicago: Chicago Linguistic Society.

Bybee, Joan. 1999. Modelo de redes en morfología. In J.A. Samper Padilla and M. Troya Déniz (eds.) *Actas de XI Congreso Internacional de la asociación de lingüística y filología de la américa latina,* 59-74. Gran Canaria: Universidad de Las Palmas.

Bybee, Joan. 2000. Lexicalization of sound change and alternating environments. Micael Broe and Janet Pierrehumbert (eds.) *Papers in Laboratory Phonology V: Acquisition and the Lexicon.* Cambridge: Cambridge University Press, pp. 250-268.

Bybee, Joan. 2000. The phonology of the lexicon: evidence from lexical diffusion. Michael Barlow & Suzanne Kemmer (eds.) *Usage-based models of language.* Stanford: CSLI, pp. 65-85.

Bybee, Joan L. 2000. Lexical, morphological and syntactic symbolization. *Morphology: A handbook on inflection and word formation, Vol. I.* Eds. G. Booij, C. Lehmann and J. Mugdan, 370-377. Berlin: Walter de Gruyter.

Bybee, Joan L. 2000. Verb. *Morphology: A handbook on inflection and word formation.* Eds. G. Booij, C. Lehmann and J. Mugdan, 794-808. Berlin: Walter de Gruyter.

Bybee, Joan and Sandra Thompson. 2000. Three frequency effects in syntax. *Berkeley Linguistic Society* 23.65-85.

Korean translation of Bybee, Joan. 1985. *Morphology: a study of the relation between meaning and form.* Translated by Seongha Rhee and Hyun Jung Koo. Soeul: Hankook Publishing Company. 2000.

Hernández Chávez, Eduardo. 1998. Imperativo para la sobrevivencia cultural: La cuestión de la lengua para la estadidad en Nuevo México y en Puerto Rico. Lil Despradel and Antonio Menéndez Pidel (eds.) *Tercer seminario internacional sobre la lengua española en los Estados Unidos.* Paris: Unión Latina, UNESCO, pp. 79-95.

Hernández Chávez, Eduardo and Ysaura Bernal-Enríquez. 1998. La enseñanzadel español a los chicanos: Revitalización o erradicación de la variedad comunitaria. Lil Despradel and Antonio Menéndez Pidel (eds.) *Tercer seminario internacional sobre la lengua española en los Estados Unidos.* Paris: Unión Latina, UNESCO, pp. 177-203.

Hernández Chávez, Eduardo, Garland D. Bills, and Alan Hudson. 2000. Spanish home language use and English proficiency as differential measures of language maintenance and shift. *Southwest Journal of Linguistics.* Vol. 19, pp. 11-27.

Hudson, Alan, Garland D. Bills, and Eduardo Hernández Chávez. 2000. Spanish home language use and English proficiency as differential measures of language maintenance and shift. *Southwest Journal of Linguistics.* Vol. 19, pp. 11-27.

Morford, J. P. 2000. Delayed phonological development in ASL: Two case studies of deaf isolates. *Recherches linguistiques de Vincennes.* 29.121-142.

Morford, J.P. and J. Kegl. 2000. Gestural precursors of linguistic constructs: How input shapes the form of langugage. In D. McNeill (ed.), *Language and Gesture.* pp. 358-387. Cambridge: Cambridge University Press.

Morford, J. P., T. Gallagher, N. Shahnaz, and A.E. Sutton. 2000. Constituent order patterns and syntactic distinctions in relative clause sentences produced using AAC systems. *Applied Psycholinguistics.* 21.473-486.

Shaffer, B., T. Janzen, and B.O'dea. 2000. Passive Constructions in ASL. *Berkeley Linguistics Society Proceedings.* 23.434-445.

Shaffer, Barbara, Terry Janzen and S. Wilcox. 2000. Sign Language Pragmatics. *Handbook of Pragmatics.* 20 pages. Amsterdam: J. Benjamins.

Smith, Caroline. 2000. Review of the Handbook of the International Phonetic Association. *Phonology.* 17.291-295.

Wilcox, Phyllis Perrin. 2000. *Metaphor in American Sign Language.* Washington, D.C.: Gallaudet University Press.

Wilcox, P. and S. Wilcox. 2000. Teaching American Sign Language in the Undergraduate Program. In Judith Rosenthal (ed.) *Handbook of Undergraduate Second Language Education: English as a Second Language, Bilingual, and Foreign Language Instruction for a Multilingual World.* pp. 115-137. Lawrence Erlbaum Associate, Inc.

Wilcox, S. and P. Wilcox. 2000. Teaching American Sign Language in the Undergraduate Program. In Judith Rosenthal (ed.) *Handbook of Undergraduate Second Language Education: English as a Second Language, Bilingual, and Foreign Language Instruction for a Multilingual World.* pp. 115-137. Lawrence Erlbaum Associate, Inc.

Wilcox, S., Terry Janzen and Barbara Shaffer. 2000. Sign Language Pragmatics. *Handbook of Pragmatics.* 20 pages. Amsterdam: J. Benjamins.

Wilcox, S. 2000. Appreciation: William C. Stokoe. *Sign Language Studies.* 1 (1), pp. 7-9.

6. Outside professional activities of staff members during Calendar Year 2000.

Melissa Axelrod

Organized a Workshop on Language Learning and Literacy, Tesuque Pueblo, Tesuque, NM.

Consulting on language and education policy and procedure with the Jicarilla Apache Tribe, Dulce, New Mexico, Apache Tribe of Oklahoma, Anadarko, OK, Picuris Pueblo, Laguna Pueblo, and Tesuque Pueblo.

Presented papers at the LASSO Conferences, Puebla, Mexico, and at the Stabilizing Indigenous Languages Conferences, Toronto, Canada.

Garland Bills

Presented papers at the LASSO Conferences, Puebla, Mexico and the 18th Conference on Spanish in the US, Davis, CA.

Joan Bybee

Presented papers at the Cognitive Structure and Discourse Linguistics Conferences, UC Santa Barbara, and El encuentro de la linguística en el noreste, University of Sonora, Hermosillo, Mexico

Eduardo Hernández-Chávez

Presented papers at the New Mexico Association for Bilingual Education Annual Conferences, and La Cosecha Biligual Educators Conferences.

Member, Task Force on the Revision of the Four Skills Examination for the New Mexico Department of Education Endorsement of Biligual Education Teachers, and the Coalition for the Revitalization of Heritage Languages.

Jill Morford

Presented papers at Community and School Awareness for the Deaf and Hard-of-Hearing Conferences, and the Seventh International Conference on Theoretical Issues in Sign Language Research.

Barbara Shaffer

Presented papers at the Texas Linguistic Society Conference, the Berkeley Linguistic Society Conference and the Seventh Theoretical Issues in Signed Language Research Conference.

Christine Sims

Consulting work with Acoma Pueblo Language Retention Project, Ute Mountain Language and Culture Project, the Taos Red Willow Language Immersion Program, the Pueblo of Sandia Language Project and Cochití Pueblo.

Presented papers at the National Association of Bilingual Education Conference, facilitated a session at the New Mexico Association for Bilingual Education Conference.

Member, New Mexico Bilingual Advisory Committee.

Caroline Smith

Presented a paper at the Seventh Conference on Laboratory Phonology.

Member, Speech Communications Technical Committee, Acoustical Society of America.

Phyllis Wilcox

Rater of certification for the Registry of Interpreters for the Deaf; member, Ethical Practices Review Committee, National Registry of Interpreters for the Deaf; member, Regional Board of RSA VI Interpreter Education and Training Porjects, US Department of Education Interpreter Training Grant #H160A000003; member, Advisory Board of Santa Fe Community College, Interpreter Preparation Program to Train Trilingual Interpreters; chair of the Legislative Committee, New Mexico Technology Assistance Program, Division of Vocational Rehabilitation, State Department of Education; member, Ethical Practices Review Board, Registry of Interpreters for the Deaf; member, New Mexico Pro-Active Committee for the establishment of services that benefit the Dear and Hard of Hearing.

Sherman Wilcox

Presented papers at the Origins of Semiosis, University of San Marino, San Marion, Italy; Berkeley Linguistic Society Conference; Linguistic Association of Canada and the US; Seventh Theoretical Issues in Sign Language Research Conference.

General editor, *Evolution of Communication*; Executive Planning Committee, International Cognitive Linguistic Association.

7. Outside sponsored research

Professor Melissa Axelrod: $8,800 from the National Science Foundation for a Dissertation Improvement Grant: *Grammar of Laguna Keresan* (Jordan Lachler). Award date: 7/13/00

Professor Melissa Axelrod: $225,909 from the National Science Foundation. *Dictionary of Jicarilla Apache*. Award date: 11/29/00

Professor Jill P. Morford: $33,810 from the National Institute of Child Health and Human Development. *Perceptual Processing in Delayed Language Learners.* Award date: 8/22/00

Professor Caroline Smith: $2,206 from the National Science Foundation. *Modeling Durational Patterns in Connected Discourse.* Award date: 10/24/00

Professor Phyllis Wilcox: $3,000 from the University of Arkansas RSA Region VI Interpreter Project, 2000-2001. Award date: 12/4/00

8. Students' professional activities.

Publications:

Bramante, Paula. 2001. Sense Extensions of Two Basic English Verbs via Image Schema and Metaphor. Proceedings of the Interdisciplinary Workshop on Corpus-Based and Processing Approaches to Figurative Language. Lancaster University.

Berkenfield, Catie. 2001. The role of frequency in the realization of English *that.* In J. Bybee and P. Hopper (eds.) *Frequency and the Emergence of Linguistic Structure*, 281-307. Amsterdam: John Benjamins.

Bush, Nathan. 2001. Frequency effects and word-boundary palatalization in English " In J. Bybee and P. Hopper (eds.) *Frequency and the Emergence of Linguistic Structure*, 225-279. Amsterdam: John Benjamins.

Lachler, Jordan. 2001. Review of *A Reference Grammar of the Northern*

Embera Languages by Charles A. Mortensen. The Linguist List. Vol-12-165.

Lachler, Jordan. 2000. Review of *Essays on Language Function and Language Type*, eds. J. Bybee, J. Haiman and S. Thompson. *International Journal of American Linguistics*, p. 411-414.

Matiki, Alfred J. 2001. The social significance of English in Malawi. *World Englishes*. 20 (2):201-218.

Matiki, Alfred J. 2001. Type frequency, loanwords, and noun classification in Chichewa. Malilime: *Journal of Linguistics in Malawi*. 1(2): 1-25.

Matiki, Alfred J. 2001. The pragmatics of obituary notices in Malawian newspapers. *Language Matters: Studies in the Languages of Southern Africa*. 32.

Scheibman, Joanne. 2001. Local patterns of subjectivity in person and verb type in American English conversation. In J. Bybee and P. Hopper (eds.) *Frequency and the Emergence of Linguistic Structure*, 61-89. Amsterdam: John Benjamins.

Smith, K. Aaron. 2000. Modern Dutch as Diagnostic for Middle English: The Dilemma of the English Progressive. *CLS 36: The Panels*, 475-483.

Smith, K. Aaron. 2001. The Role of frequency in the specialization of the English anterior. In J. Bybee and P. Hopper (eds.) *Frequency and the Emergence of Linguistic Structure*, 361-381. Amsterdam: John Benjamins.

Smith, K. Aaron and Dawn Nordquist (Eds.). 2001. High Desert Linguistics Society: Proceedings of the Third Annual High Desert Linguistics Society Conference April 7-9, 2000. Albuquerque. GSI Publications.

Yao, Naomi. Undergraduate SLI major, was a recipient of the NM Research Opportunity Program and published her paper, "The Survival of Signed Languages" in the McNair/Research Opportunity Program Journal (2001).

Presentations at conferences:

Chang, Li-Hsiang. 2001. Two Forms of Yes-no Questions in Mandarin Chinese: A Functionalist Analysis. Fourth Annual Meeting of the High Desert Linguistic Society, Albuquerque, NM, March 30-31, 2001.

Grieve-Smith, Angus B. 2001. A demonstration of SignSynth, a signed-language synthesis system using VRML and Perl. Presented to the Gesture Workshop 2001, London, on April 14, 2001.

Lachler, Jordan. 2001. The Roles of Literacy and Collaboration in Documenting Native American Languages: A Report from the Jicarilla Apache Dictionary Project, with Melissa Axelrod and Jule Gómez de García. Gallaudet University Press Institute (GUPI) Conference, Washington, D.C.

Lachler, Jordan. 2001. The Jicarilla Apache Dictionary Project, with Melissa Axelrod, Jule Gómez de García, Matilda Martinez, Maureen Olson and Wilhelmina Phone, Stabilizing Indigenous Languages Conferece, Flagstaff, Arizona.

Lachler, Jordan. 2000. The Native Languages of New Mexico: A Census Report, LASSO Conference, Puebla, Mexico.

Lachler, Jordan. 2000. The Importance of Women's Literacy in Language Stabilization Projects, with Melissa Axelrod and Jule Gómez de García, LASSO Conference, Puebla, Mexico.

Smith, K. Aaron and Virginia Durham. The Network Approach to Teaching Latin. American Classical League Conference, May 2001. San Antonio, Texas.

Williams, J.S., T.J. Blackhorse (May, 2001). Navajo placenames: Iconic, metaphoric, and metonymic manners of establishing referents for locations. Presented May 26 at Chaco/Mesoamerica seminar directed and produced by Anna Sofaer, Grants, NM.

Williams, J.S., T. Blackhorse, and J. R. Stein (Nov., 2000). The etymology of 'Anasazi.' Presented Nov. 19 at the American Anthropological Association, San Francisco, CA.

Williams, J.S. and T. Blackhorse (August, 2000). Placenames of Diné Bikéyah: Chaco Canyon. Paper presented at Chaco Canyon National Historical Park auditorium to park interpreting staff, preservation crew, and management, Nageezi, NM.

Other activities:

Dawn Nordquist, on behalf of the Linguistics Graduate Students Association secured a $500 grant from the Special Projects Committee through UNM's Graduate and Professional Student Organization (IR #10641) to help publish the Proceedings of the Fourth Annual High Desert Linguistics Society Conference (forthcoming)

Graduate students, led by Aaron Smith and Dawn Nordquist organized the Fourth Annual High Desert Linguistics Society Conference, held at the University of New Mexico, Albuquerque, NM, March 30 and 31, 2001.

Candace Maher has been appointed to the Board of Advisors for TVI's Literacy Program.

Awards

Jay Williams. Center for Southwest Research, Zimmerman Library George I. Sánchez Fellowship (2001-2002) -- process the papers of Robert W. Young concerning the Navajo language, certain related Athapaskan languages in Canada, and on the subject of Navajo history.

Jordan Lachler. 2000. National Science Foundation Grant (BCS-0094373) of $225,909 for Abáachi Mizaa Ilhkee' Siijai: Dictionary of Jicarilla Apache. Co-PI with Dr. Melissa Axelrod (UNM). Grant period: 12/00-11/03.

Jordan Lachler. 2000. National Science Foundation Dissertation Improvement Grant (BCS-0079190) of $8,800 for A Reference Grammar of Laguna Keres. Grant period: 8/00-8/01.

Jordan Lachler. 2000. UNM Research Presentation and Travel grant for $282 to do fieldwork at Laguna Pueblo on Laguna Keres.

Honor

Smith, K. Aaron was inducted into "Who's Who among Students in American Colleges and Universities, 2000-2001".

9. Events sponsored by the Department of Linguistics

Graduate Colloquium on Second Language Acquisition, co-sponsored by the Department of Spanish and Portuguese, Professor Nuria Sagarra, December 6, 2000.

Workshops: *Test Development for Sign Language and Interpreting* and *Educational Interpreters: A National Treasure!* Presented by Daniel Burch, PhD, February 9-10, 2000.

Film and presentation: *Sound and Fury*, Director, Josh Aronson. Co-sponsored by the Department of Media Arts, April 9, 2001.

Fourth Annual High Desert Linguistic Society Conference, organized by graduate students in the Department of Linguistics, March 30-31, 2001.

Sociolinguistic Symposium on Language Variation in New Mexico, Visiting Professor Shana Poplack, May 4, 2001.

Colloquium Series 2000-2001:

Caroline L. Smith, University of New Mexico. "Grammatical Influences on the Production of Speech Sounds in French." September 22, 2000.

Rain Bosworth, University of California, San Diego, "Differences Between ASL Signers and English Speakers in Processing of Visual Moving Stimuli: Possible Implications for Brain Laterality of Perception and Language." September 29, 2000.

José Ignacio Hualde, University of Illinois at Urbana-Champaign, "What is a Pitch-Accent Language?: A Partial Answer." October 27, 2000.

Douglas Biber, Northern Arizona University, "Historical Shifts in Modification Patterns with Complex Noun Phrase Structures: How Long Can You Go Without a Verb?" November 3, 2000.

James F. Lee, University of Indiana, "The Incidental Acquisition through Reading of Spanish Future Tense Morphology." November 3, 2000.

Dan Jurafsky, University of Colorado, Boulder, "Probabilistic Models of Linguistic Knowledge: Evidence from Human Production and Comprehension." November 10, 2000.

Thomas A. Sebeok, Indiana University, "Biosemiotics: the New Paradigm." December 1, 2000.

Joyce McDonough, University of Rochester, "Concerning the Structure of the Navajo Verb with Some Evidence from Phonetic Structure." January 19, 2001.

Hector A. Torres, University of New Mexico, "For A Sociolinguistics of Literature: The Question of Style." February 2, 2001.

Ivan A. Sag, Stanford University, "'Do' Without Transformations or Optimization." February 9, 2001.

Yorick Wilks, University of Sheffield. "Large-Scale Word-Sense Disambiguation." March 9, 2001.

Carol Lynn Moder, Oklahoma State University, "Broad Rivers & Sideshows: Metaphor, Discourse & Cognitive Linguistics." March 23, 2001.

Richard L. Epstein, Advanced Reasoning Forum, "The Meaning of Gestures." April 20, 2001.

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OFFICE OF THE SECRETARY

College of Arts and Sciences

Department of Mathematics and Statistics

Annual Report 2000-2001

Ronald M. Schrader, Chair

The Department of Mathematics and Statistics continued to meet the demands of its broadly defined missions in education, research, and service during the 2000-2001 academic year and tried to improve in many important ways. The number of tenure stream faculty stood at 31 at the end of the year, a decrease of 9 from 40 on our roster ten years ago. Our programs remain strong in the face of concerns for the future.

1. Significant Developments During the Academic Year, 2000-2001

- Total research funding was approximately $2.5 million. This included new funding by Professors Bedrick, Hagstrom, Nakamaye, Nitsche, Poutkaradze, Pereyra, and Sulsky, as well as continuing funding by Professors Boyer & Galicki, Buium, Efromovich, Embid, Hagstrom, Kapitula, Koltchinskii, Kovanis, Lorenz, Loring, Nitsche, Pereyra, Steinberg, Stone, Sulsky, and Wofsy.

- Associate Professor Alejandro Aceves was promoted to Full Professor. Todd Kapitula, Maria Cristina Pereyra, and Aparna Huzurbazar were promoted to Associate Professor.

- Total enrollment for the AY was 12,134 students, an increase of 1.86% over the previous AY, which is continuing an upward trend from that year.

- The Departments of Physics and Astronomy, and of Mathematics and Statistics held a joint graduation ceremony in May 2001. We awarded a total of 14 BS and 5 BA degrees, 11 MA, and 8 Ph.D. degrees for AY 2000-2001.

- Professor Cristina Pereyra and Lecturer Cathy Gosler continued the UNM Mathematics Contest with permanent funding ($11,000 per year) from the Public Service Company of New Mexico Foundation. Prizes, including books, cash, and scholarships, were awarded at a banquet for contest winners. Professor Fernando Rodriguez Villegas of the University of Texas gave an entertaining pair of general interest lectures in connection with the contest. Professor Cristina Pereyra wrote the contest problems.

- Awards: Pedro Embid received one of three outstanding Teacher of the Year awards, and Pablo Silva received one of six outstanding Teaching Assistants of the Year awards. A cash prize of $2,000 was given to Aparna Huzurbazar, Associate Professor, and $1,500 was given to Elizabeth Malloy, Teaching Assistant, for the Gunter Starkey award for innovative teaching, curricular development, outcomes assessment, and other educational contributions. Kristen Umland was granted a $2,000 Gunter Starkey award for a graphing calculator workshop to enhance our pre-calculus courses. Mugurel Barcau received $5,000 from Arts

and Sciences for the best graduate student dissertation. Our computer lab was refurbished with $15,000 from the capital improvements fund.

- We now have a coordinator for each of our core courses who will coordinate the syllabi, homework, and exams for all the sections of each course.

- We have successfully implemented a training session for Teaching Assistants and Part-Time Instructors at the beginning of the academic year, which included a graphing calculator workshop (Gunter Starkey award).

2. Significant Plans and Recommendations for the Near Future

- We have approval for three positions: Applied Analysis, Math Education, and Statistics. We need to continue to hire to come back to a critical mass. Regular faculty should be teaching courses from the level of calculus and beyond, but we have many part-time faculty teaching calculus and even 300-level or graduate courses. We had a total of 31 Part-Time Instructors who taught 59 sections in fall 2000, and 19 Part-Time Instructors who taught 37 sections in spring 01. Graduate offerings are slim to nonexistent in key areas. Only tenure stream faculty can maintain the health of our programs. We need to develop a coherent strategic plan to guide our next several hires.

- Advisement needs to be tightened up at both the graduate and undergraduate levels. The graduate committee, headed by Professor Aceves, and the undergraduate committee, headed by Professor Coutsias, will work with the staff to improve the situation. Students are taking too long to complete a degree, and these efforts should help improve that situation.

- Several undergraduate curriculum change proposals need to be discussed and implemented. A promising one is a fifth year teaching certificate program joint with College of Education, possibly evolving into a Master of Arts in Teaching. Some convergence of pure and applied mathematics programs seems possible.

3. Appointments to Faculty/Staff

- Timothy Hanson, Assistant Professor in Statistics, and Adriana Aceves, Lecturer II, were hired in August 2000. John Hamm was appointed Lecturer III in January 2000.

- Professor Relja Vulanovic from Kent State University was a visitor to the department during the Fall 2000. He taught a Math 180 course for the department.

- Craig Lewis was hired as a System Administrator II in July 2000; Claudia Gans was hired as an Administrative Assistant II in September 2000; and Sterling Coke was hired as a Web Designer in June 2001.

4. Separations

- Linda Cicarella accepted a job as a senior advisor in Arts and Sciences in January 2001.

- Carla Wofsy, Laura Cameron, and Archie Gibson retired in May 2001.

5. Publications for Academic Year 2000-2001

2000 Faculty Publications and Creative Works

Aceves, Alejandro B.: *Optical gap solitons : Past, present and future; theory and experiments*, Alejandro B. Aceves, *Chaos* Vol. 10, 584- 589 (Sept. 2000).

Bedrick, Edward J.: Osler, T. and Bedrick, E. J. (2000). *Neural Networks and Outcome Prediction in Trauma: A Better Mousetrap? Journal of Trauma*, 49, 221-223. Bedrick, E. J. (2000). *Checking for Lack-of-Fit in Linear Models with Parametric Variance Functions, Technometrics*, 42, 227-236. Bedrick, E. J., and Christensen, R., and Johnson, W. O. (2000). *Bayesian Accelerated Failure Time Analysis with Application to Veterinary Epidemiology, Statistics in Medicine*, 19, 231-237. *Bedrick, E. J., Lapidus, J., and Powell, J. F. (2000).* Estimating the Mahalanobis Distance with Mixed Continuous and Discrete Data, Biometrics, *56, 394-401.*

Boyer, Charles P.: 3-Sasakian Manifolds, with K. Galicki. Invited paper for book, *Essays on Einstein Manifolds*, C. LeBrun and M. Wang. Editors, *Surveys in Differential Geometry* Vol VI, *International Press*, 1999. (Although the book is copyrighted 1999, it didn't appear until 2000, and, therefore, I did not have it listed in my biographical data for 1999.) *A Note on Toric Contact Geometry*, with K. Galicki, *J. of Geom. and Phys.* 35 (2000), 288-298. *On Sasakian-Einstein Geometry*, with K. Galicki, *Int. J. of Math.* 11 (2000), 873-909.

Buium, Alexandru: *Differential Modular Forms*, J. Rein Angew. Math. 520 (2000), 95-167 *Continuous pi-adic functions and pi-derivations, Journal of Number Theory* 84 (2000), 34-39. Christensen, Ronald R. *Discussion of 'Invariance and Factorial Models' by Peter McCullagh. Journal of the Royal Statistical Society*, Series B, 62, 247-248 (2000). *Linear and Log-Linear Models, Journal of the American Statistical Association*, 95, 1290-1293 (2000). *Bayesian Accelerated Failure Time Analysis with Application to Veterinary Medicine,* Edward J. Bedrick, Ronald R. Christensen, Wesley Johnson. *Statistics in Medicine*, 19, 221-237. (2000).

Coutsias, Evangelos: K. Bergeron, E.A. Coutsias, J.P. Lynov and A.H. Nielsen, *Dynamical properties of forced shear layers in an annular geometry, Journal of Fluid Mechanics*, 402, p.255-289, (2000) (35 pages). J.P. Lynov, K. Bergeron, E.A. Coutsias and A.H Nielsen, *An accurate and efficient spectral method for studies of the dynamical properties of forced, circular shear layers, Applied Numerical Mathematics*, 33, p.175-181, (2000) (6 pages).

Efromovich, Sam: Efromovich, S. (2000). *Can Adaptive Estimators for Fourier Series be of Interest to Wavelets?* {Bernoulli}, 6, 699--708. Efromovich, S. and Samarov, A. (2000). *Adaptive Estimation of the Integral of Squared Regression Derivatives*, {*Scandinavian Journal of Statistics*}, 27, 335--352. Efromovich, S. (2000) *On Sharp Adaptive Estimation of Multivariate Curves*, {*Mathematical Methods of Statistics*}, 33, 234—241. Efromovich, S. (2000) *Sharp Linear and Block Shrinkage Wavelet Estimation* {*Statistics and Probability Letters*} 49, 323—329. Tymes, N., Pereyra, M.C. and Efromovich, S. (2000). *The Application of Multiwavelets to Recovery of Signals*, {*Computing Science and Statistics*}, 33, 234—241.

Ellison, James: *A general method for propagation of the phase space distribution, with application to the saw-tooth instability*, Proc. 2nd ICFA Workshop on High Brightness Beams, UCLA, 2000 and preprint SLAC-PUB-8404 (2000). Joint with R.L.Warnock. *Simulation of bunch lengthening and saw-tooth mode in SLAC damping rings*, Proc. 2000 EPAC, Vienna. Joint with R.L.Warnock and K. Bane. *A Mathematical Theory of Planar Particle Channeling in Crystals*, Physica D, 146 (2000) 341-366. With H.S. Dumas, F. Glose. *Existence and properties of an equilibrium state with beam-beam collisions*, Proc. 2nd ICFA Workshop on Quantum Aspects of Beam Physics, Capri, October, 2000, to be published by World Scientific. With R.L. Warnock. *A quasiperiodic treatment of spin-orbit motion in storage rings - a new perspective on spin tune*, to be published as a DESY preprint and to be submitted to Physica D. With D.P.Barber and K. Heinemann.

Galicki, Krzysztof: *3-Saskian Manifolds*, Surveys in Differential Geometry VI: *Essays on Einstein Manifolds* A supplement to the Journal of Differential Geometry, pp. 123-184 (eds. C. LeBrun, M. Wang); International Press, Cambridge (1999); (with C.P.Boyer). (Note: this item really appeared in 2000 and was not listed in last years report). *On Saskian-Einstein Manifolds, International Journal of Mathematics* 11 (2000), 873-909; (with C.P. Boyer). *3-Saskian Manifolds,* an article in the Supplement II of the 10 volume *Encyclopedia of Mathematics,* pp. 449-451 Kluver Academic Publishers 2000. *A Note on Contact Toric Geometry, Journal of Geometry and Physics* 35 (2000), 288-298; (with C.P.Boyer).

Gibson, Archie G.: *Mathematical Modeling of N-Body Quantum Scattering Processes*, in *Integral Methods in Science and Engineering,* edited by B. Bertram, C. Constanda and A. Struthers, (Chapman and Hall/CRC, Boca Raton, Florida, 2000), pp. 3-13. *Relativistic Multichannel Scattering Theory with Particle Creation*, (with C. Chandler, Few-Body Systems Suppl., 12, (2000), pp. 245-248.

Hagstrom, Thomas: *Rapid evaluation of nonreflecting boundary kernels* (with B. Alpert and L. Greengard), SIAM J. Num. Anal., 37, 1138-1164. *An integral evolution formula for the wave equation* (with B. Alpert and L. Greengard), J. Comput. Phys., 163, 536-543. *Locating the discontinuities of a bounded function by the partial sums of its Fourier series* (with G. Kvernadze and H. Shapiro), J. Sci. Comput., 14. *Detecting the singularities of a function of V_p class by its integrated Fourier series* (with G. Kvernadze and H. Shapiro), Comp. Math. Appl., 39, 25-43. *Experiments with stable, high-order difference approximations to hyperbolic initial-boundary value problems, Proceedings of the Fifth International Conference on Mathematical and Numerical Aspects of Wave Propagation Phenomena,* SIAM. *On the theory of exact and approximate boundary conditions for linearized compressible flow problems, Compressible Navier-Stokes Equations*, NOVA (accepted).

Hanson, Tim: Hanson, T., Johnson, W. and Gardner, I. (2000). *Log Linear and Logistic Modeling of Dependence Among Diagnostic Tests*. Preventive Veterinary Medicine, 45, 123-137.

Huzurbazar, Aparna: {Huzurbazar, A.V.} (2000), Modeling and Analysis of Engineering Systems Data Using Flowgraph Models, {Technometrics,} 42, 300-306. {Butler, R.W. and Huzurbazar, A.V.} (2000), *Bayesian Prediction of Waiting Times in Stochastic Models*, {*The*

Canadian Journal of Statistics}, 28, No. 2, June 2000. {Huzurbazar, A.V.} (2000), *Modeling Time-to-Event Data using Flowgraph Models*, in *Advances on Methodological and Applied Aspects of Probability and Statistics*, edited by N. Balakrishnan, pp. 561--571.

Kapitula, Todd: Existence and Stability of Standing Hole Solutions to Complex Ginsburg-Landau Equations, co-authored with J. Rubin, Nonlinearity, Vol. 30 77-112 (2000). Exponentially Small Splitting of Heteroclinic Orbits: from the Rapidly Forced Pendulum to Discrete Solitons, co-authored with C. K.R.T. Jones and P. Kevrekidis, Phys. Lett. A, Vol 269, No. 2-3, 120-129 (2000).

Koltchinskii, Vladimir: {Koltchinskii, V. and Gine, E.}, Random matrix approximation of spectra of integral operators. Bernoulli, 2000, v. 6, n. 1, pp 170--219. {Koltchinskii, V. and Panchenko, D.} *Rademacher processes and bounding the risk of function learning*. In: *High Dimensional Probability* II, E. Gine, D. Mason and J. Wellner, Eds. Progress in Probability, Birkhauser, Boston, 2000, pp.443--459. {Koltchinskii, V.} *Empirical geometry of multivariate data: a deconvolution approach. Annals of Statistics*, 2000, 28, 2, pp. 591--629. {Koltchinskii, V., Abdallah, C.T., Ariola, M., Dorato, P., Panchenko, D.} *Improved sample complexity estimates for statistical learning control of uncertain systems.* IEEE Transactions on Automatic Control, 2000, v.45, n 12, 2383--2388. {Koltchinskii, V. and Sakhanenko, L.} *Testing for ellipsoidal symmetry of a multivariate distribution.* In: *High Dimensional Probability* II, E. Gine, D. Mason and J. Wellner, Eds. Progress in Probability, Birkhauser, Boston, 2000, pp. 493--510. {Koltchinskii, V. and Dudley, R.M.}, *On spatial quantiles. Skorohod's Ideas in Probability*. V. Korolyuk, N. Portenko and H. Syta (Eds). *Institute of Mathematics of the National Academy of Sciences of Ukraine*, 2000, pp. 195--210.

Kucharz, Wojciech: *Line bundles, regular mappings and the underlying real algebraic structure of complex algebraic varieties*, *Mathematische Annalen* 316 (2000), pp. 793- 817 (with J. Bochnak).

Lorenz, Jens: Drumm, C.R., Lorenz, J.: *FE solutions of the even/odd parity form of the linear Boltzmann equation. Mathematical and Computer Modeling*, 11 No. 2-3 (2000), 55-71. *Dynamics of Algorithms, the IMA Volumes in math. and its applications*, Vol 118 L. Petxold, R. de la Llave, J. Lorenz (eds.) Springer Verlag, 2000. Lorenz, J., Jackett, S. and Wangguo Qin: *Self-organised criticality: Analysis and imulation of a 1D sandpile.* In: *Numerical Methods forBifurcation Problems and Large-scale Dynamical Systems, IMA Volumes in Mathematics and its Applications*, Vol. 119 E. Doedel and L. S. Tuckerman (eds.) Springer Verlag, New York, 2000. Kreiss, H. O., Lorenz, J: *Resolvent Estimates and Qualifications of Nonlinear Stability. Acta Mathematica Sinica*, English Series, Vol. 16, No. 1 (2000) 1-20. Drumm, C.R., Fan, W.C., and Lorenz, J.: *Even/Odd Parity Transport with Internal Voids.* In: *Proceedings American Nuclear Society*, Annual Meeting, 2000

Nakamaye, Michael: "Stable Base of Loci of Linear Series", Mathematische Annalen, 318, 2000, pp. 837-847.

Pereyra, M. Cristina: "The Application of Multiwavelets to Recovery of Signals." With Sam Efromovich and Nate Tymes. Computing Science and Statistics 33, (2000). "Divergence-free

multiwavelets on rectangular domains." With Joseph Lakey. In "Wavelet analysis and multiresolution methods" edited by Tian-Xiao He. Lecture Notes in Pure and Applied Mathematics 212, Marcel Decker, Inc. Chapter 9, p. 203-240 (2000). "A note on a maximal function over arbitrary sets of directions." With Ana M. Vargas. Bull. London Math. Soc. 32 no. 1, p. 71-74 (2000). "Multiwavelet characterization of function spaces adapted to the Navier-Stokes equations". With J. Lakey, and S. Obeida. To appear in ``Wavelets Applications in Signal and Image Processing VIII", SPIE 4119 (2000)

Poutkaradze, Vakhtang: Logarithmic bounds for infinite Prandtl number rotating convection, p. Constantin, C. Hallstrom, V.Poutkaradze, *J. Math. Phys.*, 42, 7 (773-783).

Qualls, Clifford: Burge, M. R., Kamin, J. R., Timm, C. T., Qualls, C.R., Schade, D. S.: *Low-dose epinephrine supports plasma glucose in fasted elderly patients with type 2 diabetes. Metabolism* 49.2 195-202 (2000). Bruno, A., Qualls, C.: *Risk factors for intracerebral and subarachnoid hemorrhage among Hispanics and Non-Hispanic whites in a New Mexico community. Neuroepidermiology* 19:227-32 (2000). Qualls, C.R. *Hypertension comorbidity with diabetes – summary. University of New Mexico Printing* (2000). Bruno A., Carter, S., Qualls, C.: *Clinical features of spontaneous intracerebral hemorrhage in Hispanics and Non-Hispanic Whites in New Mexico: A community study. Ethn Dis* 10:406-410 (2000). Espey, E., Steinhart, J., Ogburn, T. Qualls, C.: *Depo-provera associated with weight gain in Navajo women. Contraception* 62(2): 55-58 (2000). Smith, H.O., Tiffany, M.F., Qualls, C.R., Key, C.R. *The rising incidence of adenocarcimoma relative to squamous cell carcinoma of the uterine cervix in the United States – A 24 year population based study. Gynecol. Oncol.* 78(2):97-105 (2000). Wright, T.E., Martin, D., Qualls, C. Curet, L.B., Effects of *intrapartum administration of invert sugar and D5LR on neonatal blood glucose levels. J Perinatol.* 20(4): 217-8 (2000). Gilson, G. J., Christensen, F., Romero, H., Bekes, K., Silva, L., Qualls, C.R. *Prevention of group B Streptococcus early onset neonatal sepsis: Comparison of the Center for Disease Control and Prevention screening-based protocol to a risk-based protocol in infants at greater than 37 weeks' gestation. J Perinatol.* 20:491-495 (2000). Ergene E., Rupp F.W., Qualls, C.R., Ford C.C. *Acute optic neuritis: association with paranasal sinus inflammatory changes on magnetic resonance imaging. J Neuroimag* 10:209-215 (2000). LaShay, N. Gilson, G. Joffe, G.,Qualls, C., Curet, L. *Will cervicovaginal Interleukin-6 combined with fetal fibronectin testing improve the prediction of preterm delivery? J Matern-Fetal Med* 9:336-341 (2000).

Salter, Laura: *Algorithms for Phylogenetic Tree Reconstruction*, in *Proceedings of the International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences*, Vol 2., pages 459-465, 2000.

Steinberg, Stanly: (with R.L. Akers, E. Kant, C. Randall and R. Young) *SciNapse: A Problem Solving Environment for Partial Differential Equations,* Chapter 9 in *Enabling Technologies for Computational Science; Frameworks, Middleware, and Environments*, edited by E.N. Houstis, J.R. Rice, E. Gallopoulos, R. Bramley, Kluwer, 2000. (with H. Hong, R. Liska, and N. Robidoux) *Eliminating Variables in Parallel*, SIAM News, 33, Number 8, October 2000, page 1.

Stone, Alex: *Synthesis of inhomogenous, dielectric dispersionless TEM lenses for high power application,* in *Electromagnetics,* v. 20, 2000, pp. 17-28 (with C. E. Baum).

Sulsky, Deborah: X. Li and D. Sulsky *A Parallel Material-Point Method with Application to Solid Mechanics,* (2000) In: *Applications of High-Performance Computing in Engineering VI,* M. Ingber, H. Power, C.A. Brebbia, Eds., WIT Press, Southampton, Boston. A.R. York, D. Sulsky and H. Schreyer, *Fluid-Membrane Interaction Based on the Material Point Method,* Int. J. Num. Meths. Engrg., 48, 901-924 (2000). S. Bardenhagen, J. Brackbill and D. Sulsky, *The Material-Point Method for Granular Materials,* Comput. Meths. Appld. Mechs. Engrng., 187, 529-541 (2000). Y.-L. Shen, W. Li, D. L. Sulsky, and H. L. Schreyer, *Localization of Plastic Deformation Along Grain Boundaries in a Hardening Material,* Int. J. Mech. Sci., 42, 2167 2189 (2000). D.L. Sulsky, A.R. York and H.L. Schreyer, *The Material-Point Method for the Simulation of Membranes, Proceedings of the European Congress on Computational Methods in Applied Sciences and Engineering,* ECCOMAS 2000, Barcelona, 11-14 September 2000. S. Bardenhagen, J. Brackbill and D. Sulsky, *A Numerical Study of Stress Distribution in Sheared Granular Material in Two Dimensions,* Phys. Rev. E, 62, 3882-3890 (2000).

6. Outside professional activities of staff members.
Roxanne Littlefield received a $250 award for outstanding academic advisor.

7. Outside Sponsored Research

See table on the following page.

UNM Mathematics & Statistics						
Active Grants between 7/01/00-6/30/01						
Full Funding $						
Investigator	**Acct #**	**Funder**	**Start Date**	**End Date**		**Budget Amount**
Bedrick	3-37631	DVA	08/01/00	07/31/02	$	10,973
Boyer/Galicki	3-14431	NSF	07/15/99	06/30/02	$	127,008
Buium	3-15811	NSF	08/15/99	05/31/01	$	51,809
Efromovich	3-15101	NSF	09/01/99	08/31/02	$	50,957
Ellison	3-13041	DOE	04/01/99	03/31/02	$	405,000
Embid	3-49191	NSF	08/01/97	07/31/00	$	80,000
Hagstrom	3-14381	NSF	07/01/99	06/30/02	$	90,000
Hagstrom	3-15081	NSF	09/01/99	08/31/01	$	30,000
Hagstrom	3-16001	NASA	01/03/00	01/04/01	$	86,532
Hagstrom	3-19711	NASA	05/01/01	04/30/02	$	6,943
Kapitula	3-11321	NSF	06/15/98	05/31/01	$	57,205
Koltchinskii	3-12781	NSA	11/01/98	11/12/00	$	31,546
Kovanis	3-35052	AFRL	10/01/98	09/30/00	$	88,040
Lorenz	3-42991	DOE	12/01/94	02/28/02	$	255,226
Loring	3-14611	NSF	07/01/99	06/30/02	$	67,682
Nakamaye	3-17321	NSF	07/01/00	06/30/02	$	53,000
Nitsche	3-13931	NSF	02/17/98	08/31/00	$	23,299
Nitsche	3-17991	SNL	10/01/00	09/30/01	$	33,728
Pereyra	3-66781	NSF	01/15/01	12/31/03	$	20,941
Poutkaradze	3-17941	SNL	10/01/00	09/30/01	$	33,916
Steinberg	3-15671	NFFBA	06/01/99	08/31/00	$	9,000
Stone	3-36941	AF	05/15/00	08/14/00	$	31,917
Stone	3-36942	AFRL	01/22/01	12/31/01	$	78,153
Sulsky	3-14251	LANL	06/01/99	09/30/01	$	111,850
Sulsky	3-15791	SNL	12/01/99	03/31/01	$	99,978
Sulsky	3-16251	SNL	08/01/00	05/14/01	$	33,415
Sulsky	3-17571	NSF	08/15/00	07/31/03	$	285,000
Sulsky	3-18371	SNL	12/01/00	11/30/01	$	100,039
Wofsy	3-49441	NSF	09/01/97	08/31/01	$	198,018
				Total	$	2,551,175

Department of Philosophy
Annual Report for 2000-01
Submitted by Russell B. Goodman, Chairperson

This has been a momentous year for the Department of Philosophy. We had not one but two changes of departmental administration, the arrival of one new faculty member and the departure of two others, and some extraordinary scholarly achievements by the senior faculty.

Starting with the latter, Fred Schuler had offers to publish his newest book, *Reasons, Values and Purposes: Human Rationality and the Teleological Explanation of Action* from both MIT (which published his previous book, *Desire*) and Oxford University Press. He has signed a contract with Oxford. Russell Goodman's book *Wittgenstein and William James* was accepted by Cambridge University Press in the spring. Schueler also published a paper on action explanation in *Intentions and Intentionality*, from the MIT press. Goodman gave invited lectures at the Catholic University of America and the University of Paris, and has been invited by Routledge to edit a four-volume collection of papers on pragmatism. Among the associate professors, Amy Schmitter had two articles accepted by the *Journal of Aesthetics and Art Criticism* and one by the *Journal of the History of Ideas*; John Taber published a substantial piece in the *Journal of the American Oriental Society*, and Aladdin Yaqub received a Senior Research Fellowship for 2001-02 at the Stanford Humanities Center.

Less happily, our new Graduate Director, Amy Schmitter, resigned in February, to be replaced by Russell Goodman. In mid- March, our Chair Barbara Hannan also resigned. After a period of discussion with the Dean, Russell Goodman agreed to serve as Chair. John Taber is the new Graduate Director

beginning in Fall, 2001. We also learned in April that Sergio Tenenbaum and Jennifer Nagel, on leave this year at the University of Toronto, will resign and accept tenure-track positions there.

The department admitted a strong new class of graduate students in the spring, among them five new Ph. D. students, the largest entering class in the past five years. Our senior faculty taught large sections of Introduction to Philosophy and Greek Philosophy, and our new Assistant Professor Iain Thomson's courses in Heidegger and Nietzsche proved to be very popular. In the spring, we presented our annual Brian O'Neil Memorial Lectures in the History of Philosophy, given this year by Michael Friedman, of Indiana University. Professor Friedman is the author of *The Parting of the Ways*, an acclaimed recent book on the development of twentieth century philosophy. In our O'Neil Lectures, he went back to the focus of his earlier work in lecturing the late 18th century philosopher Immanuel Kant. Next year, Hubert Dreyfus, a leading scholar of the work of the German philosopher Martin Heidegger, will deliver the O'Neil Lectures.

As is our custom, we sponsored a series of Friday afternoon colloquia, with speakers from within and outside of UNM. In many cases we received assistance from the College of Arts and Sciences and other departments within the college. Our speakers and topics for the 2000/2001 academic year were:

Alvin Plantinga, University of Notre Dame, 9/8/00 - Materialism, Content and Evolution

Amy Schmitter, Aladdin Yaqub, Philosophy, UNM, 9/15/00 - Workshop on Descartes's Solution to Pappus's Problem

Allen Buchanan, University of Arizona, 9/26/00 - From Nuremburg to Kosovo: The Morality of Illegal International Legal Reform

Richard Epstein, Philosophy, UNM,
10/6/00 Reasoning About Cause and Effect

True Boardman, 10/9/00 - as Ralph Waldo Emerson - "My Life and Philosophy"

Fred Schueler, Philosophy, UNM, 10/20/00 - Why There Are No Moral Principles

Elizabeth Rapaport, Law School, UNM, 11/10/00 - Retribution and Redemption in the Operation of Executive Clemency

Ken Taylor, Stanford University, 11/17/00 - Must Intentional Systems be Rational?

John Taber, Philosophy, UNM, 12/1/00 - Lost in the Morass of the Trairupya Formula: A Problem in the Interpretation of Indian Logic

Barbara Hannan, Philosophy, UNM, 1/26/01 - Schopenhauer on Freedom of The Will and Mental Causation

Iain Thomson, Philosophy, UNM, 2/2/01 - Heidegger on Ontological Education, or: How We Become What We Are

Leszek Koczanowicz, University of Wroclaw, Poland, 2/9/01 - Dialogue, Meaning and The Other: American pragmatism (G.H. Mead) and Russian semiotics (M.M. Bakhtin and L.S. Vygotsky)

Michael Friedman, Indiana University, 2/22/01 - O'NEIL MEMORIAL LECTURES IN THE HISTORY OF PHILOSOPHY, Title of lecture: Kant on the Foundations of Science and Experience. Part I: Transcendental Philosophy and Mathematical Physics

2/23/01 - O'NEIL MEMORIAL LECTURES IN THE HISTORY OF PHILOSOPHY Part II: Scientific Experience and Ordinary Experience

Fred Schueler, Philosophy, UNM, 3/9/01 - Rationality and Character

Janet Broughton, Berkeley, 3/23/01 - Descartes's Archimedean Point

Richard Gale, University of Pittsburgh, 4/6/01 - John Dewey's Empirical Metaphysics

Colin Allen, Texas A&M, 4/20/01 - Animal Pain: The Need for a More Sophisticated Approach in the Philosophy of Mind

Resignations:

Jennifer Nagel
Sergio Tenenbaum

Hirings:

Iain Thomson

ANNUAL REPORT
of the
DEPARTMENT OF POLITICAL SCIENCE
July 1, 2000 through June 30, 2001
Neil J. Mitchell, Chair

I. SIGNIFICANT DEVELOPMENTS

A. UNDERGRADUATE PROGRAM

The department graduated 80 majors. The annual commencement ceremony was hosted in the Kiva Lecture Hall and attended by over 200 students and parents. Ms. Judith Herrera, a graduate of the department and a Regent of the University of New Mexico, was the commencement speaker.

In the UNM Daily Lobo survey of Students' Choice Awards, Dr. Fred Harris received first place in the "Best UNM Professor" category and the department received second place in the "Best UNM Department" category.

Two students presented research papers at professional conferences, the Rice University Undergraduate Research Conference and the Southwest Political Science Conference in Fort Worth. A Second Place prize was awarded to the student who participated in the Rice University competition.

B. GRADUATE PROGRAM

Publications: An analysis of publications in the top ranking Political Science journals between 1996-2000 showed that the department had a higher percentage of faculty articles published in those journals than any of UNM's peer institutions.

Awards: Two graduates were recipients of dissertation awards, the Tom L. Popejoy Dissertation Prize and an American Political Science Association Best Dissertation Award. One student received a National Science Foundation dissertation grant and another was selected as a Predoctoral Fellow at the Center for Basic Research in the Social Sciences at Harvard University.

In Fall 2000, graduate Ph.D.s were placed in tenure track positions at Louisiana State University, the University of Washington, the University of Vermont, and Belmont University.

The department has admitted 13 incoming graduate students for the 2001-2002 academic year.

The department and Sandia National Laboratories continued their externship program for graduate and advanced undergraduate students to work part-time at Sandia. Two graduate students are working at Sandia's Cooperative Monitoring Center, an organization that uses advanced information, satellite and sensor technologies to help adversaries resolve their conflicts by effectively monitoring each side's compliance with agreements. One student is examining the application of these tools for resolving conflicts in South America, such as the recent border war between Peru and Ecuador. Another student is looking at the application of these technologies to help resolve civil wars as a component of international peacekeeping efforts.

C. INSTITUTE FOR PUBLIC POLICY

Hank Jenkins-Smith and UNM research on public attitudes about genetically modified organisms was featured in a new NOVA and FRONTLINE television broadcast. Surveys conducted by the UNM Political Science Department's Institute for Public Policy explored public response to the debate, and illustrated some of the political difficulties facing proponents of policies regarding genetically modified organisms. The program aired April 24 on KNME Channel 5.

D. CONTRACTS AND GRANTS

The department's annual average for contracts and grants received for calendar years 1996-2000 is $1,027,349.

E. INTERNSHIPS

In addition to the Sandia opportunities, twelve undergraduate students were placed in internships with the New Mexico State Legislature working under the close supervision of Adjunct Professor Gilbert K. St. Clair. Both students and legislature staff considered the internship a success. The department received letters of appreciation from five legislative members representing both parties. They commented favorably on the internship program as well as the individual interns assigned to them.

F. SCHOLARSHIPS

Thirteen undergraduate scholarships were awarded this year.

II. SIGNIFICANT PLANS

RECRUITMENT

The department plans recruitment of two new faculty members in the areas of American Politics/Public Policy and Comparative Politics/Latin America and recruitment of one Research Scientist. The department will continue its efforts to increase the pool of applicants to the graduate program, including an innovative Web page, and sending select faculty members to national recruiting events.

III. APPOINTMENTS TO FACULTY/STAFF

Carol Brown was hired as Department Administrator in May. Carol was no stranger to the department as she served for nine years as Administrator of the department's Institute for Public Policy before spending a "sabbatical" at Indiana University in Bloomington last year.

IV. SEPARATIONS OF FACULTY/STAFF

Department Administrator Amanda Twitchell left the department in January for a position as Administrative Analyst at Honeywell. Professor Karen Remmer retired from the department in May after twenty–five years at UNM and has taken another position at Duke University.

V. PUBLICATIONS

Lonna Atkeson – "1998 New Mexico's Third Congressional District Race" in *Outside Money: Soft Money and Issue Advocacy in the 1998 Congressional Elections*, edited by David Magleby, Rowman and Littlefield.

F. Chris Garcia – "Latino Participation, Partisanship, and Office Holding," *PS: Political Science & Politics*, Vol. XXXIII, No. 3 (September 2000), pp. 529-524. (Co-authored.)

Gregory Gleason – "Fiscal Federalism in the USA," *Development of Legislation and the Legislative Process in the Constituents of the Russian Federation* (Russian Academy of Sciences, Yekaterinburg 2000), pp. 114-149.
"Foreign Policy Dimensions of Tajikistan's Transportation Policy," *Central Asian Monitor*, Vol. 9, No. 6 (2000), pp. 13-19.
"Kazakhstan Seeks to Break Eurasian Transport Logjam," Eurasianet, Central Eurasia Project of the Open Society Institute, (13 September 2000).
"Uzbekistan's Monetary Isolationism and Central Asian Border Normalization," Eurasianet, Central Eurasia Project of the Open Society Institute, (17 August 2000).
"Hardening of Borders Calls for Central Asian Cooperation," Biweekly Briefing, Central Asia and Caucasus Institute, (2 August 2000).

Wendy Hansen – "Disaggregating and Explaining Corporate Political Activity: Domestic and Foreign Corporations in National Politics," *American Political Science Review*, (December 2000), pp. 891-903. (Co-authored with Neil Mitchell.)

Fred Harris – Book Review: "Sizing Up the Senate: The Unequal Consequences of Equal Representation" by Frances E. Lee and Bruce I. Oppenheimer, *Political Science Quarterly*, (Summer 2000).

Deborah McFarlane – "Do Different Funding Mechanisms Produce Different Results? The Implications of Family Planning for Fiscal Federalism," Chapter 4 in *Contemporary Health Policy*, edited by Beaufort B. Longest Jr., Health Administration Press, (2000). (Co-authored with Kenneth J. Meier.)

Neil Mitchell – "Disaggregating and Explaining Corporate Political Activity: Domestic and Foreign in National Politics," *American Political Science Review*, (December 2000), pp. 891-903. (Co-authored with Wendy Hansen.)

Mark Peceny – Book Review: "International Relations in a Constructed World," Vendulka Kubalkova, Nicholas Onuf, and Paul Kowert, eds., *American Political Science Review*, Vol. 94, No. 1 (March 2000), pp. 243-244.

Karen Remmer – "The Political Economy of Decentralization in Latin America," *APSA-CP Newsletter*, 11 (Winter 2000), pp. 28-31. (Co-authored with Erik Wibbels.)
"The Subnational Politics of Economic Adjustment: Provincial Politics and Fiscal Performance in Argentina," *Comparative Political Studies*, 33 (May 2000), pp. 419-451. (Co-authored with Erik Wibbels.)

Christine Sierra – "Hispanics and the Political Process," in *Hispanics in the United States: An Agenda for the Twenty-First Century*, edited by Pastora San Juan Cafferty and David W. Engstrom, Transaction Publishers (2000), pp. 317-348.
"Latino Immigration and Citizenship," *PS: Political Science & Politics*, Vol. 33, No.3 (September 2000), pp. 535-540. (Co-authored with Teresa Carrillo, Louis DeSipio, and Michael Jones-Correa.)

William Stanley – "Building New Police Forces in Guatemala and El Salvador: Learning and Counter-Learning," in *Peacebuilding and Police Reform*, edited by Tor Tanke Holm and Espen Barth Eide, London: Frank Cass (2000), pp. 113-134.
"Under the Best of Circumstances: ONUSAL and Challenges of Verification and Institution Building in El Salvador," in *Peacemaking and Democratization in the Western Hemisphere*, edited by Tommie Sue Montgomery, North-South Center Press at the University of Miami (2000). (Co-authored with David Holiday.)
"Rescuing Police Reform: A Challenge for Guatemala's New Government," Washington, DC: Washington Office on Latin America (2000), 71 pp. (Co-authored with Hugh Byme and Rachel Garst.)

Joseph Stewart – Book Chapter: "An Overview of Black American Politics and Political Participation Since the Civil Rights Movement," in James S. Jackson, ed., *New Directions: African Americans in a Diversifying Nation*, Washington, DC: National Policy Association (2000), pp. 207-239. (Co-authored with Paula D. McClain.)

VI. NOTEWORTHY OUTSIDE PROFESSIONAL ACTIVITIES OF FACULTY

<u>Department editorial board memberships</u>

American Journal of Political Science
American Political Science Review
American Politics Quarterly
Civic Arts Review
International Interactions
International Studies Quarterly
Journal of Politics
Journal of Policy Studies
Latin American Politics and Society
Political Research Quarterly
PS: Political Science & Politics
Social Science Quarterly
State Politics and Policy Quarterly

Served as officers or members of key committees in national or regional professional organizations

Lonna Atkeson served as Vice President Elect 2000-2001 and Chair, Best Paper Award, of the Political Science Program, Southwestern Social Science Association, as well as Chair, Betty Nesvold Women and Politics Award, and on the Nominating Committee for the Western Political Science Association. She also served as a Council Member of Elections, Public Opinion and Voting Behavior for the American Political Science Association.

F. Chris Garcia served as Consultant-Evaluator for the Commission on Institutions of Higher Education, North Central Association of Colleges and Schools, and was appointed to the Committee on Endowments of the American Political Science Association.

Gregory Gleason served as a member of the Program Committee for the Annual Convention of the American Association for the Advancement of Slavic Studies.

Hank Jenkins-Smith served on two committees of the National Academy of Sciences' National Research Council. He was also a National Science Foundation grant reviewer.

Randall Partin served as a member of the Executive Council and the Best Paper Award Committee for the State Politics and Policy section of the American Political Science Association. He has been appointed to serve as Chair of the State Politics and Federalism section for the 2002 Midwestern Political Science Association Annual Meeting.

Karen Remmer served as a member of the Procedures Committee for the Comparative Politics section of the American Political Science Association.

Christine Sierra served as Co-President of the Race, Ethnicity, and Politics section of the American Political Science Association as well as served on APSA's Executive Council. She also served on the Ted Robinson Memorial Award selection committee for the Southwestern Political Science Association. She was the writer and producer of a video documentary, "This Town Is Not For Sale!: The 1994 Santa Fe Mayoral Election," which was featured at the Annual Meetings of the Southwest/Texas Popular Culture/American Culture Associations and the National Association for Chicana and Chicano Studies.

Joseph Stewart served as a member of the Executive Committee for the Race, Ethnicity, and Politics section of the American Political Science Association. He also served as Chair of the Nominations Committee and Member, Marian Irish Best Paper on Women and Politics Award Committee, for the Southern Political Science Association, and as a member of the Nominations Committee for the Western Political Science Association. He serves on The College Board for the Southwestern Regional Office of the Advanced Placement Advisory Council.

Selected invited presentations by faculty

"Navigating Immigrant Streams: Mexican-American Politics Beyond the Rio Grande," Richard D. McKinzie Symposium on *Reinventing Democracy: Immigration and American Politics, Past and Present*, University of Missouri-Kansas City.

"Election 2000: A Focus on Latina Politics," Symposium on *Women, Work and Election 2000*, Co-Sponsored by the Heller School of Graduate Studies, Brandeis University and Institute for Civil Society, Burlington, MA.

"Party-Society Linkages and the Transformation of Political Representation in Latin America," *Threats to Democracy in Latin America* Conference, University of British Columbia, Vancouver.

"Populism and Democracy in Latin America," *Challenges to Democracy in the Americas*, Carter Center, Atlanta, GA.

"Failed Reform and Party System Decay: Explaining the Venezuelan Anomaly," Workshop on *Post-Reform Elections in Latin America: Bringing Politics Back In*, School of Advanced International Studies, Johns Hopkins University, Washington, DC.

"Comparative Federal Relations," World Bank/Russian Legal Reform Foundation/Sverdlovsk Oblast Administration *Legislative Training Program*, Yekaterinburg, Russia.

"Land Reform in Post-Soviet States," *Institute of Russian and Post-Soviet Studies*, George Washington University, Washington, DC.

"Modernizing the State Institutions in Central Asia," *National Intelligence Council*, Warrenton, VA.

"Essentials of Cost-Finding," *Annual Care Conference* for Grantees of the U.S. Department of Health and Human Services' Office of Adolescent Pregnancy, Washington, DC.

Other professional activities off-campus or community and public service

F. Chris Garcia completed more than 80 television appearances and radio, newspaper and journal interviews on the electoral politics of the 2000 election. These appearances and interviews included local, state, national and international media organizations, as well as a talk to the Presidential Advisory Committee of Sandia National Laboratories on November 9, 2000.

Christine Sierra also served as a commentator and analyst for Election 2000, providing guest appearances on local radio and television broadcasts on election night as well as pre- and post-election programs. She is a member of the INS Community Relations Board in Albuquerque.

Randall Partin provided media interviews and commentary for the 2000 election as well, appearing once on television and twice on radio during November 2000. He served as a reader for the Advanced Placement examinations in American Politics this June.

Fred Harris is a member and co-chair of the Board of Trustees of the Milton S. Eisenhower Foundation, Washington, DC. He is State Chair of NM Common Cause and a member of the National Governing Board of Common Cause. He is Chair of NM Friends of Public Schools, a member of the Advisory Council of the APS Drop Back In Mentorship Program, and an International Advisor to Americans for Indian Opportunity. He also authored a novel, "Easy Pickin's," which was published by HarperCollins (2000).

Kenneth Roberts served as a member of the Carter Center's Election Observation Delegation to Venezuela in May. He is a member of the Board of Directors of Re-Visioning New Mexico.

Joseph Stewart is the Chief Faculty Consultant to the Educational Testing Service for the Advanced Placement Government and Politics Examination and received the Advanced Placement Special Recognition Award from The College Board, Southwestern Region.

Served on departmental, college, or university committees or held administrative positions outside the department

Lonna Atkeson served as the department's Roper Center Representative and as a member of the Executive Committee. She was a member of the Research Semester Review Committee for the College of Arts and Sciences.

F. Chris Garcia served as Chair of the department's Undergraduate Committee. He also served as Chairman of the UNM Memorial Committee and as UNM Institutional Representative for The College Board.

Gregory Gleason served on the UNM Faculty-Student International Affairs Committee.

Wendy Hansen chaired the department's International Relations Search Committee. She also served on the Dean of the College of Arts and Sciences Search Committee.

Fred Harris served as a member of the department's Undergraduate Committee, Faculty Advisor for both the UNM Pre-Law Club and UNM Common Cause. He served on the UNM Strategic Planning Environmental Scan Committee and chaired the UNM Strategic Planning Working Committee on Public Support/Institutional Image.

Hank Jenkins-Smith is the Director of the UNM Institute for Public Policy and a member of the UNM Human Subjects Review Committee.

Deborah McFarlane served on the Senior Promotions Committee for the College of Fine Arts. She is Vice-President of the American Association of University Professors (UNM Chapter) and is Managing Editor of the AAUP Newsletter at UNM.

Neil Mitchell is ending his eight years of service as Chair of the department.

Mark Peceny served on the department's International Relations Search Committee and on the Executive Committee, and as Coordinator of the UNM Political Science/Sandia Labs Externship program. He was on the University General Honors Program Committee and on the Latin American Faculty Concilium Library and Publications Committees, as well as Faculty Sponsor for the UNM St. Thomas Aquinas Newman Center Student Group.

Karen Remmer served on the Interdisciplinary Committee for Latin American Studies.

Kenneth Roberts served on the Interdisciplinary Committee for Latin American Studies and on the Grants and Awards Committee and the Program Committee for the Latin American and Iberian Institute. He chaired the department's Latin American Search Committee and served on the Graduate Committee.

Christine Sierra served on the department's Graduate Admissions Committee and as Graduate Advisor for the Fall Semester.

William Stanley is Director of Latin American Studies at UNM. He served on the department's Comparative Politics Latin America Search Committee. He chaired the Graduate Committee and was a member of the Tenure and Promotion Committee (Junior) for the College of Arts and Sciences. He chaired the Interdisciplinary Committee for Latin American Studies and chaired the Grants and Awards Committee for the Latin American and Iberian Institute.

Joseph Stewart served as the department's Acting Chair for the Fall Semester and as graduate advisor for the Spring Semester.

VII. OUTSIDE-SPONSORED RESEARCH

Hank Jenkins-Smith, Hillard and Munoz, $77,655. Title: Survey of Dallas/Ft. Worth Area Residents Evaluating Property Value Effects of Deep-Well Injection System. April 3, 2000 – July 31, 2000.

Hank Jenkins-Smith, Sandia National Laboratories, $23,477. Title: Evaluation and Recommendation for Follow On Research into Evolving Views of Security Issues by Mass and Elite Publics. August 15, 2000 – September 30, 2000.

Hank Jenkins-Smith, Santa Fe Community College, $22,000. Title: Survey on Perceptions, Evaluations and Preferences. September 1, 2000 – October 30, 2000.

Hank Jenkins-Smith, Texas A&M Research Foundation, $22,015. Title: Genetically Modified Organisms Survey. September 1, 2000 – August 31, 2001.

Gregory Gleason, National Academy of Sciences, $3,700. Title: Travel Grant to Kazakhstan and Russia. September 26, 2000 – July 31, 2001.

Hank Jenkins-Smith, New Mexico Division of Vocational Rehabilitation, $30,000. Title: Survey of Implementation of the "Pathways to Diplomas" Program in New Mexico. September 29, 2000 – December 30, 2000.

Hank Jenkins-Smith, Kerry Herron, Sandia National Laboratories, $226,077. Title: National Security Survey 2001. October 20, 2000 – April 30, 2002.

Neil Mitchell, Wendy Hansen, The Joyce Foundation, $42,098. Title: Dimensions of Political Influence. December 8, 2000 – December 31, 2001.

Karen Remmer, Francois Gelineau, National Science Foundation, $9,100. Title: Dissertation Improvement Grant: Economic Voting in Volatile Contexts: National and Sub-national Politics in Latin America. March 1, 2001 – August 31, 2001.

Carol Silva, Texas A&M Research Foundation, $48,750. Title: Public Views on Air Pollution in Texas. May 25, 2001 – October 31, 2001.

Hank Jenkins-Smith, Hilliard and Munoz, $52,001. Title: Study of El Paso Area Property Values. June 21, 2001 – July 31, 2001.

ANNUAL REPORT

2000 - 2001

DEPARTMENT OF PSYCHOLOGY

Michael J. Dougher, Ph.D.
Professor and Chair

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DEPARTMENT OF PSYCHOLOGY

STATEMENT OF MISSION

The Department of Psychology shares with other academic departments at the university its raison de'etre: the discovery and dissemination of knowledge. It shares with other science departments a commitment to empirical research. The distinguishing feature of this purpose for a psychology department is that the knowledge being sought concerns the individual organism, and most typically the behavior of the individual person.

The UNM Department of Psychology embraces a number of goals which serve to give the program a distinctive flavor. These are reflected in the mission of the department which is to:

- Create a supportive environment in which faculty and students associated with the department are encouraged to achieve their maximum potential as scholars.

- Promote a scientific approach to psychology, emphasizing both experimental and correlational methodologies as historic traditions.

- Encourage respect for and openness to a variety of theoretical, philosophical, and empirical approaches, with the view that the study of psychology is enriched by interaction of multiple perspectives.

- Value active research programs within the department and in collaboration with colleagues outside the department.

- Maintain excellence in clinical and experimental psychology and foster the growth of neuroscience approaches to the study of learning, memory, and cognition.

- Encourage and support effective teaching both in communicating psychology to undergraduates as an area of major study and a critical part of a liberal arts education, and in training graduate students at a professional level.

- Train graduate students in the application of general experimental psychology in clinical and other professional settings.

- Ensure that graduate students in all areas are well trained in methodology and ethics appropriate for their effective functioning as researchers and professionals.

- Enable students to understand the development and operation of psychology in the context of diversity within the larger culture, and its application in the culture of the Southwest in particular.

- Be actively involved in service to the university, the community, the state, and the profession.

- Evaluate, in an ongoing fashion, our performance as a department with respect to our mission, and revise this Statement of Mission to accommodate to changing situations.

ANNUAL REPORT - AY 2000-2001

DEPARTMENT OF PSYCHOLOGY

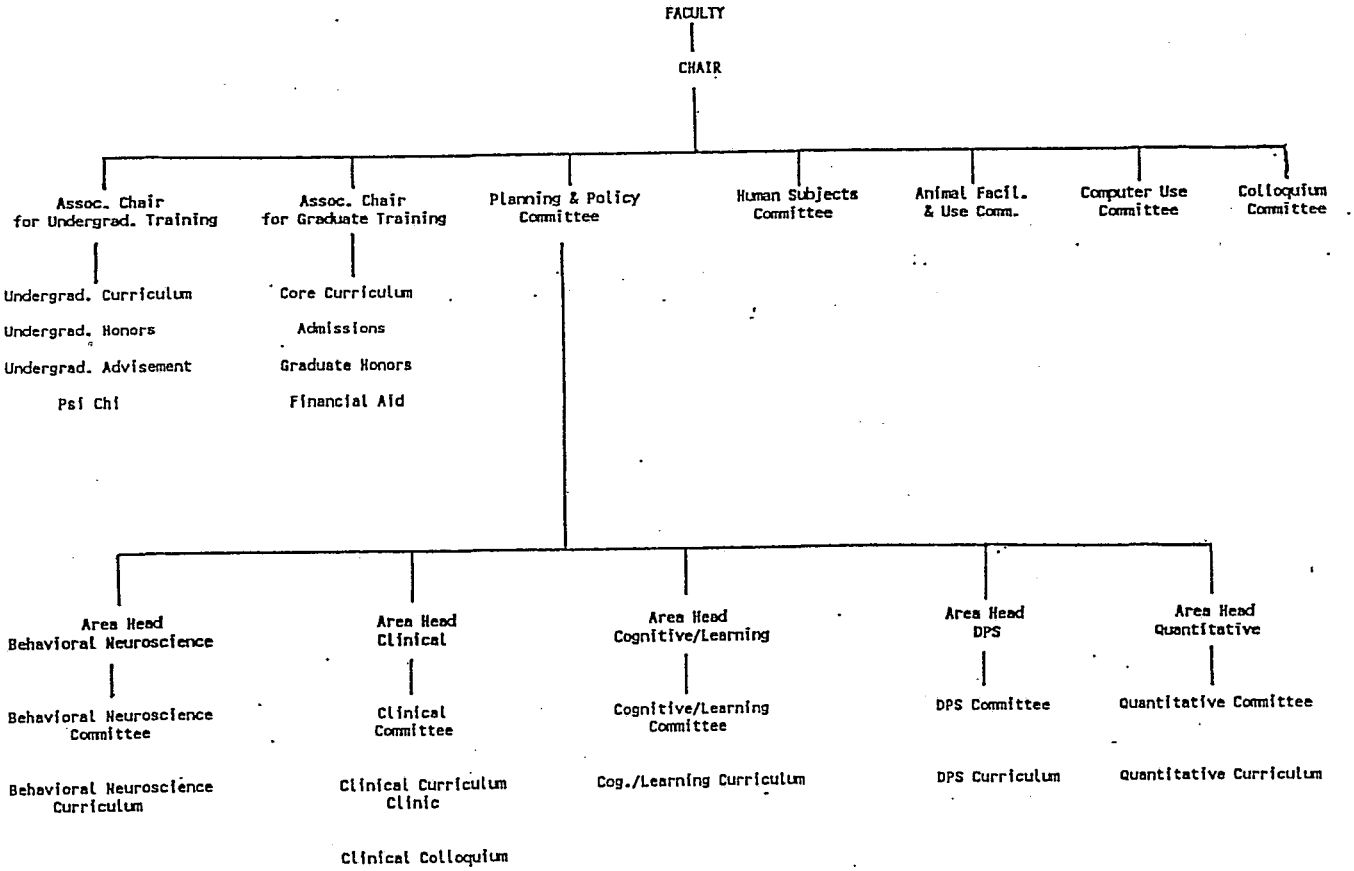
Michael J. Dougher, Chair

I. Department Information and Achievements

A. Departmental Administration and Structure

The Department continued with the administrative structure adopted in 1995, which is depicted in the organizational chart on the following page. Michael Dougher served the third year of his second four-year term as Chair of the Department. The Department's major administrative committee, the Planning and Policy Committee, consisted of the department chair, the associate chairs for graduate education, Tim Goldsmith, the associate chair for undergraduate education, Harold Delaney, and the heads of the Department's six areas of study. These areas and their respective heads are: Clinical (Ron Yeo), Learning and Cognition (Paul Amrhein, standing in for Mark McDaniel, who was on sabbatical leave), Developmental, Personality and Social (Steve Gangestad), Quantitative (Harold Delaney), Behavioral Neuroscience, (Rob Sutherland), and Cognitive Neuroscience (Claudia Tesche).

As in past years, the governance and functioning of the Department relied heavily on a number of faculty members who served effectively on other departmental committees. The list of committee memberships for the 2000-2001 academic year is presented in Appendix A. Particularly noteworthy was the very important and time-consuming work of the Graduate Admissions Committee (chaired by Steve Gangestad), the Faculty Search Committees (one chaired by Steve Gangestad and one by Ron Yeo), and the Faculty Salary Committee (chaired by Paul Amrhein). The Admissions Committee was faced with the task of selecting the very best applicants from a pool of roughly 150. Outstanding graduate students are essential to any good


FACULTY
CHAIR
Assoc. Chair for Undergrad. Training
Assoc. Chair for Graduate Training
Planning & Policy Committee
Human Subjects Committee
Animal Facil. & Use Comm.
Computer Use Committee
Colloquium Committee
Undergrad. Curriculum
Undergrad. Honors
Undergrad. Advisement
Psi Chi
Core Curriculum
Admissions
Graduate Honors
Financial Aid
Area Head Behavioral Neuroscience
Area Head Clinical
Area Head Cognitive/Learning
Area Head DPS
Area Head Quantitative
Behavioral Neuroscience Committee
Behavioral Neuroscience Curriculum
Clinical Committee
Clinical Curriculum
Clinic
Clinical Colloquium
Cognitive/Learning Committee
Cog./Learning Curriculum
DPS Committee
DPS Curriculum
Quantitative Committee
Quantitative Curriculum

research department, and the Admissions Committee is to be commended for its work in recruiting an impressive class of new students. There is nothing a department does that is more important then hiring new faculty, and those who served on the Faculty Search Committees deserves many thanks for their hard work and outstanding results. Finally, the Faculty Salary Committee is given the unenviable task of ranking the performance of each member of the faculty in order to determine the allocation of salary increases. As they have done in the past, the committee did an excellent job and carried out their task with sensitivity, respect, and integrity.

The Department benefited again this year from the Quad-L Trust, which was endowed through the UNM Foundation by University Professor Emeritus Frank Logan. The Quad-L Library supported by this Trust not only facilitates the study of the psychology of learning, but also provides a meeting place for students' defenses of their graduate degrees. This year the Quad-L Trust supported a visit by John Pearce, Professor of Psychology at Cardiff University in Wales, who delivered the 14th annual Quad-L lecture. The title of Professor Pearce's talk was "The Discrimination of Structure: Development of a Configural Theory of Learning." Rob Sutherland, who serves as faculty advisor to the Quad-L, coordinated the selection process for the Quad-L Lecture and arranged for Dr. Pearce's visit.

B. Faculty

At the beginning of the academic year, the Department had 24 voting faculty (22 FTE), including Bill Gordon, who is currently serving as President of the University, and Bill Miller, who is supported by a senior Research Scientist Award from NIAAA (see Appendix B, Part 1). Drs. Nancy Handmaker and Theresa Moyers continued as part-time visiting faculty to cover Dr. Miller's teaching load. Kristina Ciesielski spent the year on leave at Harvard/Massachusetts General Hospital, and Janis Anderson was hired as a visiting associate professor to cover Dr.

research department, and the Admissions Committee is to be commended for its work in recruiting an impressive class of new students. There is nothing a department does that is more important then hiring new faculty, and those who served on the Faculty Search Committees deserves many thanks for their hard work and outstanding results. Finally, the Faculty Salary Committee is given the unenviable task of ranking the performance of each member of the faculty in order to determine the allocation of salary increases. As they have done in the past, the committee did an excellent job and carried out their task with sensitivity, respect, and integrity.

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Ciesielski's courses. As mentioned in last year's report, Holly Waldron was granted a two-year leave by Dean Michael Fischer to serve as Director of the newly established Center for Family and Adolescent Research (CFAR). This was the second year of Dr. Waldron's leave. In her two-year absence from the Department, Dr. Waldron and her colleagues have not only established CFAR as a viable treatment and research center, they have increased its extramural funding and expanded its scope to the point where interim Dean Fritz Allen and interim Associate Provost for Research Jack McIver agreed to upgrade CFAR from a Category I to a Category II Center (see attached report in Appendix O). Congratulations are due to Dr. Waldron and her colleagues. When Dr. Waldron went on leave, the Department appointed Dr. Miguel Villanueva to a two-year visiting assistant professor position to cover Dr. Waldron's teaching load. While serving in that role, Dr. Villanueva applied for and obtained a major grant from the National Institute on Alcoholism and Alcohol Abuse to continue his research on substance abuse and trauma in American Indian combat veterans. Obviously, the arrangement between Dr. Waldron, Dr Villanueva, the Department, and the College was beneficial to all parties.

This year, the Department hired two new assistant professors: Geoffrey Miller and David Witherington. Dr. Miller, who received his Ph.D. from Stanford University in 1993, is a well-known evolutionary psychologist whose presence on our faculty significantly adds to our existing strength in that area. The addition of Dr. Miller in combination with the human evolution researchers already at UNM easily makes our evolutionary psychology program one of the very best in the nation. Dr. Witherington received his Ph.D. from the University of California, Berkeley in 1998. He brings a dynamical systems approach to the study of infant development and is poised to make important contributions to that area. The Department is very pleased to have both Drs. Miller and Witherington join our faculty.

A third faculty search was unsuccessful. As we did last year when we hired Claudia Tesche, the Department entered into a joint-hiring agreement with the National Foundation for Functional Brain Imaging. The intent was to hire a senior-level psychologist who uses neuroimaging techniques to study clinical disorders. However, the pool of acceptable candidates ended up being quite small, and we opted to suspend the search until next year and to search more broadly in the area of cognitive neuroscience.

Quite unfortunately, Rob Sutherland announced in the spring that he was leaving the Department to take a position at the University of Lethbridge. Because of his productivity, his reputation as an outstanding behavioral neuroscientist, and his many contributions to the Department, Dr. Sutherland's departure was a significant loss for the Department. Thanks in large part to the flexibility and cooperation of interim Dean Fritz Allen, the Department was allowed to make an offer to Dr. Eric Turkheimer to fill Rob Sutherland's vacated line. As they often are at the senior level, the negotiations were complicated, and, in the end, we were unable to put together a sufficiently compelling package to convince Dr. Turkheimer and his wife to leave their positions at the University of Virginia. Although the outcome was disappointing, the Department is appreciative of Dean Allen's efforts on our behalf.

Two members of our faculty were on sabbatical leave this year. Gordon Hodge was on leave for the entire academic year, and Mark McDaniel was on leave during the fall semester.

As indicated in Appendix B, the size (24 FTE) of our faculty has remained constant over the past four years, despite our attempts to get back to our full complement of 25 full-time faculty members. Geoffrey Miller replaces Dick Harris, who retired two years ago, and David Witherington replaces Kathy Stansbury, who left this year after a negative tenure decision. Our unsuccessful clinical/neuroimaging search this year left us without a replacement for Jack

Blanchard, who left two years ago for a position at the University of Maryland, and Rob Sutherland's unfilled position leaves us short two full-time faculty members for next year. Given the high student demand for our courses, the need to maintain strength in behavioral neuroscience, and the need to maintain our academic stature, it is imperative that we are allowed to hire two faculty members next year.

The research activities of the faculty are summarized in Part 2 of Appendix B. It is particularly noteworthy that this was the fifth consecutive year that our extramural funding exceeded $2 million dollars. This is certainly an outstanding accomplishment, and we fully expect this level of funding to continue in the future. No detailed commentary regarding faculty research will be presented here inasmuch as these data have been provided in each faculty member's Annual Biographical Supplement. In addition, a list of the faculty and their research interests is presented in Appendix C. It should be pointed out, however, that our faculty continue to excel in their research activities and to be productive in terms of publishing and presenting their work at professional meetings. In addition, a large number of our faculty have achieved national and even international prominence and have assumed leadership roles in their respective fields.

By whatever metric one might wish to apply, the faculty of the Department of Psychology is very good. However, a persistent threat to the quality of our faculty is salary inequity. The salaries of some of our faculty are as much as 20% below national and regional norms. The situation was improved somewhat this year by salary increases that averaged 6.5%, but the problem of salary inequity at UNM has existed for many years, and it will take several successive years of substantial salary increases before our faculty is compensated at a level comparable to our peers. While this problem is fully acknowledged by the central

administration, much more needs to be done. There should be no doubt that the highest priority for the Department is to see faculty salaries increased to the level of regional norms immediately and to the level of national norms in the near future. This is the only way to preserve the excellence of our Department.

Professional Appointments. There were a number of other individuals within UNM and the professional community of Albuquerque who made major contributions to our teaching, training and research missions. These individuals are listed in Appendix D. Foremost among these are our four visiting faculty members: Janis Anderson, Nancy Handmaker, Theresa Moyers, and Miguel Villanueva.

This year the Department added three individuals to our list of research faculty. They are: Golijeh Golarai, John Moulton, and Vanessa Lopez-Viets. Research faculty status is granted to individuals who have excellent research records, provide research opportunities for our students, and receive extra-mural funding. Two years ago the Department decided to expand our list of affiliated research faculty for several reasons. These arrangements extend the range of research opportunities for our students, increase opportunities for collaborative and interdisciplinary research, and increase the amount of extramural funding generated by the Department. The corresponding increase in the indirect costs returned to the Department provides additional research support to our faculty and students and, in a self-perpetuating manner, facilitates the generation of additional extramural funding. The Department is indeed pleased with its affiliation with our research faculty, and we intend to add to that list in the future.

In addition to our visiting and research faculty, a number of individuals were awarded professional titles based on their service to the department. The department is grateful to these

individuals for their willingness to contribute their time and knowledge to the education and training of our students.

A number of psychologists and researchers from other universities, other departments, within the university, and from the community further enriched our educational programs by presenting research colloquia to our faculty and students. These individuals and the titles of their presentations are listed in Appendix E. Special thanks go to the Colloquium Committee, Mark McDaniel, Rob Sutherland, and Akaysha Tang, for their efforts in arranging an outstanding colloquium series.

C. Graduate Education

After a substantial decrease two years ago, the number of graduate students enrolled in the Department this year increased slightly from last year (from 92 to 95, see Appendix F, Part 1). This year, the Department awarded 10 Ph.D. degrees. The names of the degree recipients along with the titles of their dissertations and the names of their faculty advisors can be found in Appendix F, Part 2. This brings the total of Ph.D. degrees awarded by the Department to 280. In addition, the Department awarded 9 Master of Science degrees this year. These degree recipients along with the titles of their theses and faculty advisors are also listed in Part 2 of Appendix F

The graduate program remained relatively unchanged from the previous five years. However, because of the lack of faculty representation and insufficient course offerings, the faculty voted to eliminate Personality as an area of study. As a result, the Developmental/Personality/Social area will henceforth be the Developmental/Social area.

The faculty used the criteria and guidelines that were revised two years ago to evaluate each student's research productivity and degree progress. This exercise proved very useful in that each of the major areas gained a clear picture of their students' progress and were able to give

specific feedback to each student. Based on this evaluation process, it is clear that our graduate students continue to be very active in both research and teaching. The performance of some of our students merit special recognition. Chris Edgar received the Benjamin Haught Award in recognition of outstanding research by a graduate student, and Tim Apodaca and Sharon Flicker received the Garland Award for excellence in clinical research with children and adolescents. In addition, a number of students received department commendations for exemplary research productivity. The names of these students are listed in Appendix G.

Fortunately, the Department was able again this year to support financially all of the graduate students who requested aid and were in good standing. In part, this was due to the availability of research assistantships made possible by extramural funding obtained by the faculty as well the availability of research and clinical positions outside the Department. However, most of the students who receive aid in our Department work as teaching assistants (TAs). This presents a problem because the ratio of the number of courses needing TAs to the number of TAs we are able to fund creates an excessive workload for our TAs. The Department simply does not receive sufficient TA/GA funding to cover its needs. The Department is in clear need of at least three more TA positions. Moreover, TA stipends are too low relative to our peer institutions. This places us at a real disadvantage in trying to compete with other institutions for the best graduate students.

Although still relatively large, the number of applications to the graduate program dropped from 157 last year to 138 this year. More concerning, this is the fifth year in a row that the number applications have decreased. By far, the biggest drop has been in the number of applications to the clinical program. This decline is part of a national trend, where Ph.D.-granting clinical psychology programs are reporting decreases as high as 40% in the number of

applications. The major reason offered for these decreases is the increasing role played by managed care in mental health settings. This has resulted in substantially decreased demand for doctoral level clinical psychologists to provide direct clinical services, especially psychotherapy. In response, psychology departments are seeing fewer applications from students whose primary interests are in delivering clinical services and providing psychotherapy. There has not been, however, a corresponding decrease in the number of applications from students whose primary interests are in clinical research. In addition, while the number of applications to clinical programs is down nationally, the qualifications of these applicants, as measured by GRE scores and GPA, have not declined and, in fact, remain quite high.

In the face of all of this, the Admissions Committee under the leadership of Steve Gangestad continued its efforts to attract the very best applicants to our graduate program. Their efforts paid off in that we were able to admit eight very good students to our program this year. These students, their areas of study, and their advisors are listed in Appendix H.

Despite the decline in the number of applications to our graduate program, the Department continues to receive roughly 8.5% of the applications to departments in the College of Arts and Sciences and to have an acceptance rate that is markedly below the College average. Admission to our doctoral program is still highly competitive, and this allows us to select students who are highly qualified and share the research interests of our faculty.

As mentioned two years ago, the Clinical Program was awarded a full seven years accreditation by the American Psychological Association. A yearly report on the Clinical Program is required by APA to maintain our accreditation, and that report, prepared by Ron Yeo, is attached as Appendix I. As this report indicates, the clinical program continues to do well and

validates the committee's decision to grant seven years accreditation. Thanks to Ron Yeo for his efforts in preparing this report.

D. Undergraduate Education

Stated simply, the undergraduate education productivity of the Department's faculty and staff is enormous and among the highest in the College. As of the spring semester, the Department had a total of 603 majors (see Part 1of Appendix J), which is 15.7% of the number (3853) of majors in the College of Arts & Sciences. The Department offers a wide variety of courses, ranging from introductory psychology to advanced courses in learning and memory, cognition, clinical/abnormal psychology, developmental psychology, social psychology, evolutionary psychology, quantitative methods, and cognitive/behavioral neuroscience. Our students are exposed to some of the best lecturers at the University and have access to advanced laboratory courses in which they design experiments and gain "hands-on" research experience with human and non-human subjects.

The overall popularity of psychology courses has remained very high. Appendix J, Part 1 presents the Department's enrollment summary statistics for 2000-2001 and the preceding four years. Actual enrollments per course and total student credit hours for the fall, spring and summer semesters are presented in Part 2 of Appendix J. Total enrollment in our undergraduate courses for the academic year was 6796 students, amounting to 21,745 student credit hours. While there was a decrease in the number of students enrolled in psychology courses relative to last year, there was a slight increase in the number of student credit hours generated. The decrease in enrollments occurred primarily in our introductory labs and upper division courses. This reduction was in line with the Department's decision three years ago to eliminate the introductory labs and reduce the number of upper division courses offered in order to bring that

number more in line with our faculty FTE. Lower enrollments in the upper division courses were also the result of the drop in the number of freshman entering the University four and five years ago. Enrollments in our introductory courses (1,984) remained roughly the same as the last two years and reflect the increases in freshman enrollments the last three years. As we intended when we revamped our undergraduate curriculum three years ago, enrollments in our advanced labs more than doubled over the previous year and increased tenfold over the year before that. We expect that trend to continue. Despite the relatively large number of courses offered by the Department, we have been able to cut back significantly on the number of part-time and graduate student instructors in our undergraduate program over the past several years. Only seven individuals (not counting graduate students) were hired as part-time instructors during AY 2000-2001. These instructors are listed in Appendix K. One of these instructors, Richard Harris, recently retired from our Department, and three, Steve Alley, Janice Hoesing, and Bob Thoma, are graduates of our Department. Two others, Elena Bettoli-Vaughan and Lorna Joachim have taught for us before and were selected again because of their dedication to teaching and excellent classroom skills. Dwight Vick was the only first-time part-time instructor, and he has extensive teaching experience in his area of expertise.

During the past year, non-regular faculty taught only 36 of the 82 regular undergraduate courses (excluding labs, honors seminars, and independent study) offered by the Department during the regular academic year. Graduate students taught 14 of those courses, 12 were taught by part-time instructors, and 10 were taught by visiting faculty. Graduate students in our Department have a teaching requirement, and many choose to satisfy that requirement by teaching their own course. To enhance the effectiveness of their teaching, all graduate student instructors are required to take a course in teaching before they are assigned their own course,

and all graduate student instructors are assigned a faculty member to serve as a teaching mentor. Overall, the Department feels it is doing very well in achieving the combined objectives of training our graduate students to become good teachers, maximizing the number of undergraduate courses taught by regular faculty, and maintaining the teaching excellence that has been the hallmark of our Department.

The flagship for quality education in our Department remains our Psychology Honors Program, which has been in existence for 27 years. This program, which culminates in the student completing a year-long research project, has been especially attractive to Psychology majors who go on to pursue graduate work in Psychology. Appendix L lists our 2000-2001 honors students along with the titles of their theses, the names of their faculty supervisors, and the level of honors they achieved. Ron Yeo deserves special mention for his role as the instructor for the senior honors seminar. He did an outstanding job of helping the students prepare their research projects for presentation to an assembly of faculty, students, and parents. By all accounts, these presentations were excellent.

For the 12th consecutive year, the Department hosted a spring commencement ceremony for its graduating students. The commencement address, delivered by Professor Lynette Cofer, was entitled "Reflections on Self, Science, and Society." This continued the tradition of having a senior faculty member in the Department deliver the commencement address. Previous addresses have been delivered by Frank Logan, Bill Gordon, Sam Roll, John Gluck, Henry Ellis, Bill Miller, Kristina Ciesielski, Mark McDaniel, Dennis Feeney, Richard Harris, Robert Sutherland, and Harold Delaney. Department Administrator, Candace Blashak, organized the ceremony and she and her staff handled all of the arrangements. Counting the faculty, the graduates, their families and friends, almost a thousand people attended the ceremony. Needless

to the say this is a huge and costly (over $4000) undertaking for the Department, but judging by the very positive comments from both the graduates and faculty, it is well worth the expense and effort.

E. Department Clinic

A separate Annual Report of the Department of Psychology Clinic is presented in Appendix M. Once again this year the Clinic met its primary goals of providing quality training to our Clinical graduate students and affordable, high quality psychological services to the community. The report shows that the Clinic provided many hours of therapy and intakes, and involved approximately 30 graduate students in the provision of those services. This was the second third of operation of the ADHD assessment program under the very able direction of Dan Matthews and Melissa Behrens-Blake.

In the fall, the Agora Crisis Center moved from the Student Health Center to the Department Clinic. Agora was established more than 20 years ago as a student-staffed, crisis intervention and support center that serves the University and outside community. It is the only crisis intervention center in the geographic area. Shortly after the move and without advanced knowledge, the Agora budget was cut in half. In addition, Dr. Martha Carmody, who had served as the Director of Agora for several years, resigned. Dr. Matthews was fortunate to be able to hire Molly Brack to take over as Director of Agora. Because of the budget cuts, Ms Brack position is only .5 FTE, which is simply insufficient for the demands of the job. In the coming year, we will be seeking additional funding from the University to cover Agora's operating expenses. If we are unsuccessful, this unique and valuable resource may, regrettably, be forced to close its doors.

For the ninth consecutive year, the Clinic was able to operate within its allocated budget. This is a tribute to the able and caring leadership of Dan Matthews and the effective support of his Administrative Assistant, Wanda Sharts.

F. Staff

The Department of Psychology continues to benefit from an extremely competent support staff. The only change in personnel was that Dr. Daniel Theele replaced Dr. Linda Contos as our staff veterinarian. The staff, their titles, and attendant responsibilities are presented in Appendix N. It should be mentioned that this staff is not rigidly bound by these formal descriptions and willingly shares responsibilities in an effort to best serve the needs of the Department.

The core administrative support staff (Candace Blashak, Stan Bennett, Beth Isbell, Nancy Chavez, and Louis Carrillo) skillfully handles the basic functions essential to the day-to-day operations of the Department. These people get the Department's administrative work done competently and efficiently. By any measure, this is the best core staff the Department has had in many years.

Our research support staff again includes Gilbert Borunda, Senior Lab Animal Technician, Ector Estrada, Animal Research Coordinator, DeLaine King, Supervisor, Lab Animal Husbandry, and Patrick Sharp, Research Engineer, and Dr. Daniel Theele, Veterinarian. The outstanding experience, skills and efforts of these individuals are invaluable and facilitate a wide range of research activities in our department. The Department is very appreciative of their important contributions.

As already mentioned, the success of the Psychology Clinic is due in large measure to the administrative skills of Dan Matthews, who completed his 13th year as Clinic Staff Director this

spring. Dan continues to be effectively assisted in his duties by Wanda Sharts, the Administrative Assistant.

G. Space

As has been highlighted in the Department's Annual Report for the past eleven years, our department is not well accommodated by its current space allocation. We need a new building. Currently, we have insufficient staff space in order to function optimally and are unable even to house all of our faculty in faculty offices. Furthermore, during the past few years we have had to continue to convert graduate student offices into faculty research space. Even with this, we do not have sufficient, suitable research space in the building to accommodate the high level of faculty research activity that has been attained in recent years. Although our need for additional faculty is well documented and while our extramural funding and research output is rising dramatically, the size of our current building places severe limitations on our ability to grow and to reach our full potential as a department. The Department's request for a new building is now acknowledged on the University's Capital Projects list. However, there is little indication that funds will become available to initiate this project in the foreseeable future.

The Department continues to need financial support in order to initiate a furniture replacement program that would replace 50% of its classroom and laboratory furnishings per year over the next five years. The majority of our current furnishings came with the original building more than 20 years ago. It has become increasingly worn and has fallen into disrepair.

II. Future Plans and Comments

The Department is at a critical point in its history. We have added to our existing strength in evolutionary psychology and shored up our developmental area, but we lost a critical

member of our behavioral neuroscience area and still need to add strength to our clinical area. At the end of the coming year, we will lose three more faculty members, two to retirement and one through resignation. It is not only imperative that we be allowed to retain all of these lines, it is also imperative that we hire wisely. A department like ours has many needs and serves many functions, but our overriding objective must be to hire individuals who enhance the academic stature and reputation of the Department regardless of their specific areas of study. We do not seek to enhance our academic stature for its own sake, however. Rather, we seek it because it affords those resources that are necessary to fulfill our mission and reach our objectives of scientific productivity, teaching excellence and community service.

The Department is on the verge of having to make some very difficult but very important decisions. Much is at stake, and for that reason, there is the risk of contention and divisiveness. We will need to find new and creative ways to reach our common goals, and for that to happen parochial interests will need to give way to considerations of the common good. In making these decisions we would do well to remember that how we decide will be as important as what we decide in determining the kind of department this will be.

I very much appreciate the commitment of all of the faculty and staff who were willing to devote their time and talent on behalf of the Department. There are always those who go way beyond the call of duty and deserve special thanks. Among those are Rob Sutherland, Steve Gangestad, Mark McDaniel, Tim Goldsmith, Harold Delaney, and Ron Yeo. Thanks to all of those who served on critical departmental committees, especially the Admissions Committee, the Salary Committee, and the Faculty Search Committees. Many thanks to all of the staff, who do their jobs so well and so consistently. Though largely unacknowledged, they deftly handle the myriad details of the day to day operation of the Department as well as the acute demands of the

occasional crisis. Many thanks to interim Dean of Arts and Sciences, Fritz Allen, who was not only a pleasure to work with, but showed uncommon flexibility, creativity and foresight. His efforts on behalf of the Department are very much appreciated. Finally, thanks to my friends and colleagues in the Department for their advice and support.

APPENDIX A

COMMITTEE ASSIGNMENTS AY 2000-2001

Admissions:	Gangestad, Cofer, Delaney, Goldsmith, Padilla, Smith, Yeo
Animal Facilities and Use:	Contos, Feeney, Gluck, Sutherland, Tang
Awards:	Gluck, Padilla, Yeo
Behavioral Neuroscience:	Sutherland, Ciesielski, Gangestad, Egly, Feeney, Hodge, Stansbury, Tang, Tesche, Yeo
Clinical:	Yeo, Ciesielski, Dougher, Erickson, Gluck, Miller, Padilla, Roll, Smith, Waldron
Cognitive/Learning:	Amrhein, Delaney, Dougher, Egly, Goldsmith, McDaniel, Sutherland, Tang
Colloquiua:	McDaniel, Sutherland, Tang
Computer Use:	Amrhein, Delaney, Goldsmith, Harris
Developmental and Social:	Gangestad, Amrhein, Ciesielski, Cofer, Erickson, Gluck, Roll
Faculty Search Committee:	Gangestad, Sutherland, Amrhein, Cofer, Padilla
Developmental/Social	
Clinical/Neuroimaging	Yeo, Smith, Tesche
Faculty Raise Committee:	Amrhein, Gangestad, Smith, Sutherland
Honors:	Delaney, Amrhein, Yeo
Human Subjects:	Egly, Erickson, Stansbury, Tang
Policy and Planning:	Dougher, Amrhein, Delaney, Gangestad, Goldsmith, Sutherland, Tesche, Yeo
Quantitative:	Delaney, Amrhein, Gangestad, Goldsmith
Psychology Club:	Hodge

APPENDIX B
Part 1

DEPARTMENT OF PSYCHOLOGY SUMMARY STATISTICS

	AY 1996-97	AY 1997-98	AY 1998-99	AY 1999-2000	AY 2000-2001
Faculty Information					
Voting Faculty (total)	25	24	24	24	22
Professors	12	10	13	12	11
Associate Professors	8	7	7	6	6
Assistant Professors	5	5	5	5	5
Budgeted FTE Faculty	19.94	22	22	22	21.11
Visiting Faculty	3	1	1	3	3
Research Activities					
Books and Articles	78	82	78	74	53
Lectures and Reports	38	65	67	83	47
*Extramural Support	2,377,254	2,348,557	2,529,038	2,611,183	2,463,309
General Information					
FTE Staff	12.25	11.25	11.25	12.25	12.25
Department Budget	1,786,000	1,799,004	1,935,562	1,956,300	1,921,498

*Extramural funds budgeted for expenditure during a single AY.

APPENDIX B
Part 2

DEPARTMENT OF PSYCHOLOGY CURRENT OUTSIDE-SPONSORED RESEARCH AMOUNTS FUNDED FOR THE CURRENT GRANT YEAR 2000 - 2001

Janet Brody - Principal Investigator

National Heart, Lung, and Blood Institute, Barriers to Voluntary Assent in Asthma Youth; $244,132; 2/28/01-1/31/02

Kristina Ciesielski – Principal Investigator

National Foundation for Functional Brain Imaging, Neuroimaging and Neurobehavioral Development Models of Functional Brain Subsystems Subserving Memory and Attention in Children; $57,290; 9/1/00-8/31/01

National Foundation for Functional Brain Imaging, Neuroimaging and Neurobehavioral Development Models of Functional Brain Subsystems Subserving Memory and Attention in Normal Control and Children with Obsessive-Compulsive Disorder; $123,064; 7/27/00-6/30/01

National Foundation for Functional Brain Imaging, Neuroimaging and Neurobehavioral Developmental Models of Functional Brain Subsystems Subserving Memory and Attention in Health Children: MEG/EEG & MRI Studies; $28,000; 4/30/01-3/31/02

Lynette Cofer – Principal Investigator

Natiional Institute on Alcohol Abuse and Alcoholism; Morningness-Eveningness, Alcohol Use and Development: $147,000; 3/1/01-2/28/02

John Gluck

Bernice Barbour Fouucation, Inc., The Ethical Review of Animal Research; $6,000; 11/22/00-10/31/01

Tim Goldsmith - Principal Investigator

Federal Aviation Administration, Training and Assessing Aircrew Skills: Methods to Achieve Reliable and Valid Performance Data; $315,000; 3/21/01-2/28/02; Co-PI: Johnson

Sandia National Laboratories, Cognitive Modeling with Knowledge Networks; $8,220; 3/6/01-2/28/02

APPENDIX B, Part 2 (continued)

Golarai Golijeh – Principal Investigator

National Foundation for Functional Brain Imaging, Mnemonic Encoding and Emotional Modulation in Normals and Temporal Lobe Epilepsy Patients; $64,301; 3/22/01-2/28/02

Nancy Handmaker – Principal Investigator

National Institute on Alcohol Abuse and Alcoholism, Motivating Pregnant Problem Drinkers; $359,229; 7/1/00-6/30/01; Co-PI: Miller

Mark McDaniel - Principal Investigator

National Institute on Aging, Aging and Memory Loss; $218,251; 4/11/01-3/31/02

Furman University, Prospective Remembering under Comples, Demanding, and Fluid Conditions; $43,540; 3/9/01-2/28/02

William Miller - Principal Investigator

University of North Carolina, Behavior Pharmacologic Treatment of Alcoholism Training; $96,720; 9/1/00-8/31/01

National Institute on Alcohol Abuse and Alcoholism, Behavioral Pharmacologic Treatment of Alcoholism; $393,577; 9/1/00-8/31/01

National Institute on Alcohol Abuse and Alcoholism, Programatic Treatment Innovation Research; $98,820; 8/1/00-7/31/01

University of Notre Dame, Personhood, Human Motivation and Change; $270,000; 6/8/00-6/30/03

Alcohol & Drug Abuse Prevention and Treatment Evaluation, NIAAA, Predoctoral National Research Service Award (NRSA); $149,382; 7/1/00-6/30/01

Unilateral Family Intervention for Drug Problems, NIDA; $264,294; 9/1/00-8/31/01

Theresa Moyers – Principal Investigator

United States Air Force, Motivation Interviewing Behaviors; $9,472; 7/24/00-10/31/00

APPENDIX B, Part 2 (continued)

Natasha Slesnick – Principal Investigator

National Institute on Alcohol Abuse and Alcoholism, Family Therapy Outcome for Runaway Adolescents; $184,813; 9/1/00-8/31/01

National Institute on Drug Abuse, Treatment Outcome for Runaway Adolescents; $105,511; 8/1/00-7/31/01

Kathy Stansbury - Principal Investigator

National Institute of Mental Health, Developmental Mechanisms in Emotion Regulation; $109,913; 3/19/01-2/28/02

Robert Sutherland - Principal Investigator

National Institute on Alcohol Abuse and Alcoholism, ARND: Cortical Plasticity & Learning; $195,503; 2/6/01-1/31/02

Scott Tonigan – Principal Investigator

National Institute on Alcohol Abuse and Alcoholism, Spirituality and AA Practices, 10 yr. MATCH Follow-up; $125,803; 9/30/00-8/31/01

Miguel Villanueva – Principal Investigator

National Institute on Alcohol Abuse and Alcoholism, Zuni Pueblo Veteran Project; $110,643; 3/15/01-2/28/02

Holly B. Waldron - Principal Investigator

National Institute on Drug Abuse, Drug Use and HIV Risk: Treatment of Hispanic and Anglo Youth; $446,903; 8/28/00-7/31/01; Co-PI: Brody

National Institute on Alcohol Abuse and Alcoholism, Efficacy of Treatments for Adolescent Problem Drinking; $435,339; 8/28/00-7/31/01

National Institute on Drug Use, Drug Use & HIV Risk: Treatment of Hispanic and Anglo Youth; $508,342; 6/5/01-5/31/02

Oregon Research Institute, Drug Use & HIV Risk: Treatment of Hispanic and Anglo Youth; $16,359; 12/4/00-11/30/02

APPENDIX C

THE FACULTY
DEPARTMENT OF PSYCHOLOGY
UNIVERSITY OF NEW MEXICO
AY 2000 - 2001

AMRHEIN, PAUL C.
Associate Professor. Ph.D. University of Wisconsin-Madison, 1987.
Cognitive psychology: psycholinguistics; picture-word processing; aging, cognition and motor control. Current language research concerns the representation and function of pragmatic, semantic and syntactic information in discourse. Ongoing picture-word processing research concerns the development of 'hybrid' models that account for cognitive processes involved in episodic and semantic memory-production tasks (i.e., drawing, writing, speaking) in monolinguals and bilinguals. Current aging research concerns age- and dementia-based changes in cognitive processes that pertain to the preparation and execution of movements, and picture-word processing.

CIESIELSKI, KRISTINA T.
Associate Professor. Ph.D. Polish Science Academy (Nencki Institute of Experimental Biology), 1978.
Experimental research conducted in the Clinical Neuroscience Laboratory applies an integrative approach using neuropsychological, MRI and Brain Event Related Potentials techniques. The conceptual approach is based on information-processing models and neuropsychological models of cognition. The scientific goal is to investigate the brain mechanisms of cognitive processes in normal and neurologic and psychiatric populations, with a major focus on developmental disorders (autism, schizophrenia, toxic brain trauma, dyslexia, etc.). A major clinical goal of this research is to differentiate disorders according to cognitive and neurophysiological subsystems, and employ this knowledge for early diagnosis and treatment. Collaborative research program is being developed with other Research Centers in the USA, Canada and Great Britain.

COFER, LYNETTE FRIEDRICH
Professor. Ph.D. Cornell University, 1965.
Developmental psychology, human circadian rhythmicity as a mediator of personality development and cognitive performance, social development and gender differences, mediation of television effects, analyses of theoretical and empirical approaches to applied developmental research and family public policy. Current research interests include human circadian rhythmicity and parent-child relations and school performance, media portrayals of youth and families, processing of TV news content and environmental issues.

APPENDIX C (continued)

DELANEY, HAROLD D.
Professor and Associate Chair for Undergraduate Education. Ph.D. University of North Carolina, 1975.
Methodology, quantitative. Current research is in statistical methods, particularly those that are useful in investigations involving individual difference variables. Issues in experimental design and philosophy of science are also of interest. Interests in substantive areas include the psychology of religion, and individual differences in values and in cognition.

DOUGHER, MICHAEL J.
Professor and Department Chair. Ph.D. University of Illinois at Chicago, 1980.
Experimental and clinical behavior analysis. Primary research focuses on the experimental analysis of complex human behavior including stimulus equivalence and rule-governed behavior. Other interests include contextualistic methods of psychotherapy and psychotherapy research, and integrative psychotherapies.

EGLY, ROBERT
Assistant Professor. Ph.D. Arizona State University, 1990.
Cognitive neuroscience. My research focus is on understanding the cognitive processes and neural systems of visual attention and perception. A major component of my research program is the use of neurological patients (e.g., stroke, tumor, trauma) to identify the brain structures that control attending and perceiving in normal cognition, and to examine how various neuropathologies affect attending and perceiving.

ERICKSON, SARAH
Assistant Professor. Ph.D. Stanford University, 1994.
Primary research interests are located within pediatric psychology and focus on children's adaptation to chronic illness and their families; measurement of quality of life issues in children with chronic illness and their families; adolescent coping; adolescent coping as it pertains to health outcomes; and eating disorder development and prevention interventions. Other interests include AIDS caregiving and bereavement; validity issues related to self-report methods, development and evaluation of adolescent substance abuse interventions; and childhood obesity prevention and intervention.

FEENEY, DENNIS M.
Professor (and Professor of Physiology). Ph.D. University of California, Los Angeles, 1968.
Rehabilitation pharmacology, refining a treatment to promote recovery of function after brain damage; mechanisms of traumatic brain injury and stroke, posttraumatic epilepsy.

APPENDIX C (continued)

GANGESTAD, STEVEN W.
Professor. Ph.D. University of Minnesota, 1986.
Evolutionary psychology; social/personality psychology. General interests concern the ways in which humans' current psychological design is a product of evolutionary selection. Current research generally concerns this issue in regard to phenomena that occur within close relationships such as sexual relationships, friendships, and familial relationships. Other research concerns the developmental expressions of adaptations. Additional interests include individual differences, behavior genetics, psychometric theory, and philosophy of science.

GLUCK, JOHN P.
Professor. Ph.D. University of Wisconsin, 1971.
Clinical psychology, general experimental psychology. Interests include value changes during psychotherapy and the effects of early experience on development. In addition, I am very interested in the general area of bioethics, particularly professional clinical conduct and the ethics of human and animal research.

GOLDSMITH, TIMOTHY E.
Assistant Professor and Associate Chair for Graduate Education. Ph.D. New Mexico State University, 1984.
Applied cognitive psychology, human factors, and computer modeling. The general theme of my research centers on assessing and representing knowledge and skill. My current efforts are aimed at deriving and validating methods of eliciting, representing, and evaluating human knowledge and skill. This work is being performed in both academic and applied settings.

HODGE, GORDON K.
Presidential Teaching Fellow, Associate Professor, and Associate Chair for Undergraduate Education. Ph.D. University of California, Los Angeles, 1977.
Basic research in my laboratory focuses on long-term consequences of degenerative brain function. Currently, two three of research are being investigated in rats. First, behavioral sequelae of neurotoxic lesions to cholinergic and dopaminergic systems are being assessed in operant, T-maze discrimination tasks, and Morris water maze tasks. Second, the long-term cognitive aftermath of acute methamphetamine treatment is being measured. The research is designed both to model human pernicious brain dysfunc tion, such as Alzheimers or the long-term effects of methylated amphetamine abuse, and to extend basic knowledge of brain function. Future directions include the use of neurotoxic substances, such as MDMA ("ecstacy") and expanding the behavioral testing to more complex tasks designed to better assess cognitive impairments. Eventually, drugs will be screened for their value or potential use in reversing effects of neurotoxin or methylated amphetamine-induced dysfunction. Third, we are beginning projects that will focus on roles played by dopamine in alcohol use. I conduct applied research on the teaching of psychology. One area of interest includes development, testing, and evaluation of classroom demonstrations, especially those run by computer. Also, I am developing computer graphic animations for use in the classroom by instructors and at home by students; currently, the projects are designed for CD-ROM , but eventually they will become

APPENDIX C (continued)

available on the World Wide Web. Another line of investigation focuses on the meaning, interpretation, and usefulness of student teaching evaluations.

MC DANIEL, MARK A.
Professor. Ph.D. University of Colorado, 1980.
Major research interests center on how encoding and retrieval processes influence learning and memory. Current projects are focused on:

1. memory illusions and aging.
2. recall processes; distinctive effects in recall; text recall.
3. prospective memory processes in younger and older adults; neuropsychological underpinnings.
4. learning functional concepts.

MILLER, WILLIAM R.
Regents Professor (and Professor of Psychiatry) and UNM Center on Alcoholism, Substance Abuse, and Addictions. Ph.D. University of Oregon, 1976.
Treatment, prevention, and assessment of addictive behaviors; program evaluation research; cognitive-behavior therapies; motivation and self-regulation; psychology and spirituality.

PADILLA, ELIGIO R.
Associate Professor (and Associate Professor of Psychiatry). Ph.D. University of Washington, 1974.
Clinical, cross-cultural and community. Current work focuses on higher educational policy and practice and the validity of traditional instruments for the assessment of intelligence among minority populations.

ROLL, SAMUEL
Professor (and Professor of Psychiatry). Ph.D., ABPP, ABFP. Pennsylvania State University, 1968.
Clinical psychology, developmental psychology, forensic psychology. Using a psychoanalytic framework as a base, I am exploring cultural influences on the development of personality and cognition. This involves work in the area of dreams, early memories, cognitive assessment, personality assessment and psychotherapy. My research involves Anglo, Chicano, American Indian and South American subjects.

SMITH, JANE E.
Associate Professor. Ph.D. State University of New York at Binghamton, 1985.
Clinical psychology. Research interests: assessment, assessment and treatment of body image and eating disorders (bulimia, obesity and anorexia), alcoholic homeless individuals, psychophysiological assessment, dual diagnosis (substance abuse and chronic mental illness) and implosive (flooding) therapy.

APPENDIX C (continued)

STANSBURY, KATHY
Assistant Professor. Ph.D. University of California, Los Angeles, 1990.
Developmental psychology and behavioral neuroscience; emotional and neurohormonal development. My work focuses on developmental competencies, and individual differences in social, emotional, and neurohormonal domains in preschool age children. More specifically, how do children learn to regulate their emotional states and what impact does this process have on later developing skills? In creating and testing a model of these developmental processes, I have made use of several different paradigms, such as children's entry into new peer and social situations, and commonly occurring frustration situations, and studied a variety of systems that may be contributing to this development, including caregiver relationships, temperamental differences, psychophysiological factors (primarily hypothalamic-pituitary-adrenocortical hormones), behavioral-risk contexts, and differences in linguistic skills. I am also interested in prenatal influences on brain development and later behavior, depression and neurohormones in mothers and children, and developmental psychoneuroimmunology, as well as in basic theoretical questions in the area of emotion in humans.

SUTHERLAND, ROBERT J.
Professor of Psychology and Neuroscience. Ph.D. Dalhousie University, 1980.
Cognitive and behavioral neuroscience, neuropsychology, learning and memory. Primarily interested in exploring the anatomical and functional organization of memory and related cognitive processes. The research includes combinations of behavioral analyses, electrophysiological recording, neurotoxins, and neuropharmacological techniques. Other goals are to understand in detail the function of the hippocampal formation, the nature of amnesic symptoms in Alzheimer's disease, Korsakoff's syndrome, epilepsy, cerebral trauma, and other disorders. I also explore factors related to cognitive recovery after brain damage.

TANG, AKAYSHA C.
Assistant Professor. Ph.D. Harvard University, 1995.
Cognitive neuroscience, behavioral neuroscience, computational neuroscience. My research interests fall in the general area of cognitive neuroscience. The objective is to relate various cognitive functions, e.g. learning and memory, sensory motor processing, to its underlying neural mechanisms. The approach is multidisciplinary involving integration of behavioral, electrophysiological, pharmacological, and computational techniques. I am co-directing a rapidly growing Brain and Computation Group with Professor Barak Pearlmutter.

TESCHE, CLAUDIA D.
Professor. Ph.D. University of California, Berkeley, 1979.
Cognitive neurosicence: functional brain imaging; magnetoencephalography (MEG). My primary focus is on the development and application of functional brain imaging techniques for the characterization of neuronal population dynamics in cortical and subcortical structures. Recent efforts include extension of the methodology to imaging activity in hippocampus and cerebellum during the performance of working memory tasks and tasks that probe sensitivity to the timing and novelty of presented stimuli.

APPENDIX C (continued)

WALDRON, HOLLY B.
Associate Professor. Ph.D. University of Utah, 1987.
Clinical psychology. Research interests focus on family interaction theories of psychopathology, family therapy process and outcome, and developing and evaluating effective assessment and treatment strategies for adolescent substance abuse and related behavior problems. Current research projects include evaluating cognitive-behavioral and family-based interventions for disturbed adolescents and examining family communication behaviors and cross-cultural variations in families of disturbed and nondisturbed adolescents.

YEO, RONALD A.
Professor and Director of Clinical Training. Ph.D. University of Texas, Austin, 1983.
Clinical and experimental neuropsychology. Research interests include individual differences in brain organization, neuroimaging, cerebral lateralization, genetic and environmental factors influencing brain development, and the neuropsychological bases of neurodevelopmental disorders.

APPENDIX D

PERSONS HOLDING PROFESSIONAL TITLES IN PSYCHOLOGY
2000 - 2001

Name and Address	Phone	Professional Title
Visiting Faculty		
Janis Anderson, Ph.D. Department of Psychology University of New Mexico Albuquerque, NM 87131	277-3876	Visiting Associate Professor
Nancy Handmaker, Ph.D. Department of Psychology University of New Mexico Albuquerque, NM 87131	277-8947	Visiting Assistant Professor
Miguel Villanueva, Ph.D. Department of Psychology University of New Mexico Albuquerque, NM 87131	277-4927	Visiting Assistant Professor
Research Faculty		
Janet Brody, Ph.D. Center for Adolescent and Family Research 2350 Alamo SE, Bldg. 2 Albuquerque, NM 87106	842-8932	Research Assistant Professor
Golijeh Golarai Department of Psychology University of New Mexico Albuquerque, NM 87131		Research Assistant Professor
Nancy Handmaker, Ph.D. Department of Psychology University of New Mexico Albuquerque, NM 87131	277-8947	Research Assistant Professor
P. W. Kodituwakku, Ph.D. CASAA 2350 Alamo SE Albuquerque, NM 87106	768-0144	Research Associate Professor

APPENDIX D (continued)

Name and Address	Phone	Professional Title
Research Faculty (continued)		
Vanessa Lopez-Viets, Ph.D. CASAA 2350 Alamo SE Albuquerque, NM 87106	768-0260	Research Assistant Professor
Robert Meyers Center for Adolescent and Family Research Center for Alcohol and Substance Abuse 2350 Alamo SE Albuquerque, NM 87106	842-8932	Research Lecturer
John Moulton, Ph.D. 924 Girard NE Albuquerque, NM 87106	255-0274	Research Assistant Professor
Theresa Moyers, Ph.D. Department of Psychology University of New Mexico Albuquerque, NM 87131	768-0268	Research Associate Professor
Natasha Slesnick, Ph.D. Center on Alcohol and Substance Abuse 2350 Alamo SE Albuquerque, NM 87106	768-0146	Research Assistant Professor
Scott Tonigan, Ph.D. CASAA 2350 Alamo SE Albuquerque, NM 87106	768-0266	Research Associate Professor
Carolina Yahne, Ph.D. CASAA 2350 Alamo SE Albuquerque, NM 87106	768-0158	Research Assistant Professor

APPENDIX D (continued)

Name and Address	Phone	Professional Title
Secondary Appointments		
George Luger, Ph.D. Department of Computer Science University of New Mexico Albuquerque, NM 87111	277-3204	Professor (Secondary appointment)
Daniel Savage, Ph.D. Department of Neuroscience BSMB, Room 145 University of New Mexico Albuquerque, NM 87131	272-8808	Professor (Secondary appointment)
Adjunct Faculty		
Cheryl Aine, M.D. Veterans Administration Medical Center 2100 Ridgecrest Drive SE Albuquerque, NM 87108	265-1711	Adjunct Associate Professor
Bill Brooks, Ph.D. Clinical & Magnetic Resonance Center 1201 Yale Blvd. NE Albuquerque, NM 87106	272-8856	Adjunct Associate Professor
Jeffrey Lewine, Ph.D. Department of Psychology University of New Mexico Albuquerque, NM 87131		Adjunct Professor
Michael Weisend, Ph.D. Veterans Administration Medical Center 2100 Ridgecrest Drive SE Albuquerque, NM 87108	265-1711	Adjunct Assistant Professor
Chris Wood, Ph.D. National Foundation for Functional Brain Imaging 801 University SE, Suite 200 Albuquerque, NM 87106	272-7079	Adjunct Professor

APPENDIX D (continued)

Name and Address	Phone	Professional Title
Clinical Associates		
Richard Campbell, Ph.D. Department of Psychiatry Family Practice Center, 4th Floor Albuquerque, NM 87131	272-8833	Clinical Associate Professor
Steven Chiulli, Ph.D. 401 Martin Luther King, Jr. Ave. NE Albuquerque, NM 87102	727-8000	Clinical Associate Professor
Charles H. Elliott 403 Dartmouth SE Albuquerque, NM 87106	843-2190	Clinical Associate Professor
William E. Foote, Ph.D. 4308 Carlisle NE, Suite 208 Albuquerque, NM 87107-4849	255-9494	Clinical Associate Professor
Charlene McIver, Ph.D. 4600-A Montgomery NE, 102 Albuquerque, NM 87109	265-8800	Clinical Associate Professor
Brian Meyers Albuquerque Family & Child Guidance 117 Montclaire Drive SE Albuquerque, NM 87108	232-5239	Clinical Associate Professor
Celia Michaels, Ph.D. Veterans Administration Medical Center 2100 Ridgecrest Drive SE Albuquerque, NM 87108	265-1711	Clinical Associate Professor
Mark Pedrotty, Ph.D. Carrie Tingley Hospital 1121 University Blvd. NE Albuquerque, NM 87102	272-5200	Clinical Assistant Professor

APPENDIX D (continued)

Name and Address	Phone	Professional Title
Clinical Associates (continued)		
Frank Sanchez, Ph.D. Veterans Administration Medical Center 2100 Ridgecrest Drive SE Albuquerque, NM 87108	265-1711	Clinical Associate Professor

APPENDIX E

DEPARTMENT OF PSYCHOLOGY COLLOQUIA AY 2000 - 2001

Colloquium Presented By	Colloquium Title
Alvin Plantinga, Ph.D. Professor of Psychology University of Notre Dame South Bend, Indiana	*"An Evolutionary Argument Against Naturalism"* September 6, 2000
Alvin Plantinga, Ph.D. Professor of Psychology University of Notre Dame South Bend, Indiana	*"Materialism, Content and Evolution"* September 7, 2000
Brandi Fink Department of Psychology University of New Mexico Albuquerque, New Mexico	*"What predicts divorce: Affective and Historical Features of Marriage"* September 15, 2000
Ronald Yeo, Ph.D. Professor of Psychology University of New Mexico Albuquerque, New Mexico	*"Pediatric Brain Injury vs. Psychiatric Disorder: A Case Presentation"* September 22, 2000
David Trumpower Department of Psychology University of New Mexico Albuquerque, New Mexico	*"Structural Knowledge Assessment of Problem Solving Schemata"* September 29, 2000
William T. Greenough, Ph.D. Professor of Psychology Beckman Institute University of Illinois Urbana, Illinois	*"Brain Development: Is it All Over at* 3 Years of Age? October 6, 2000
Peter Gray, Ph.D. Professor of Psychology Boston College Boston, Massachusetts	*"Evolutionary Theory as an Integrating Theme in Psychology Courses"* October 20, 2000

APPENDIX E (continued)

Claudia Tesche, Ph.D. Professor of Psychology University of New Mexico Albuquerque, New Mexico	*"MEG Delection of Temporal Lobe Responses to Somato Sensory Stimulation"* October 27, 2000
Frank Logan, Ph.D. Emeritus Professor of Psychology University of New Mexico Albuquerque, New Mexico	*"Memories and Reflections"* November 2, 2000
Dave Hochstein Department of Psychology University of New Mexico Albuquerque, New Mexico	*"Memory for Appearance and Location: Application and Theory"* November 10, 2000
Janis Anderson, Ph.D. Visiting Associate Professor of Psychology Department of Psychology University of New Mexico Albuquerque, New Mexico	*"DSM-IV Major Depression as a Hypothalamic Disorder: Studies on S.A.D."* November 17, 2000
Kenneth J. Shapiro, Ph.D., ABPP Executive Director, Psychologists for the Ethical Treatment of Animals Albuquerque, New Mexico	*"Animal Abuse and Human Violence: early life experience (How to make rats smart?)* November 17, 2000
Paul Amrhein, Ph.D. Associate Professor of Psychology University of New Mexico San Diego, California	*"How Patterns of Treatment Outcomes Are Foreshadowed in a Motivational Interview: More MIDAS Results"* December 1, 2000
Akaysha Tang, Ph.D. Assistant Professor of Psychology University of New Mexico Albuquerque, New Mexico	*"Testing Hebbian Learning Rule Non-Invasively in Humans Using Magnetoencephalography"* December 8, 2000
"Roddy" Roediger, Ph.D. Professor of Psychology Washington University St. Louis, Missouri	*"Are False Memories Easier to Create in Old Relative to Young Adults? Evidence from the Misinformation Paradigm"* February 2, 2001

APPENDIX E (continued)

Michael Weisend, Ph.D. Professor of Psychology Veterans Administration US Hospital Albuquerque, New Mexico	*"Clinical Applicaton of MEG Research"* February 9, 2001
Kathryn Lemery, Ph.D. Waisman Center on Mental Retardation and Human Development University of Wisconsin Madison, Wisconsin	*"From Early Temperament to Later Psychopathological Symptoms: Using Twins to Elucidate the Association"* February 12, 2001
David Witherington, Ph.D. Professor of Psychology University of Virginia Charlottesville, Virginia	*"The Search for Process: Perception-Action Relations and Infant Emotion"* February 15, 2001
Kirk Warren Brown, Ph.D. Professor of Psychology University of Rochester Rochester, New York	*"Being Aware is Taking Care: The Role of Mindful Awareness in Personal and Social Well-being"* February 19, 2001
Phillip Johnson, J.D. Professor of Law University of California, Berkeley Berkeley, California	*"The Real Evolution/Creation Debate"* February 19, 2001
Dave Thomas, M.S. Physicist and Mathematician Quasar International, Inc. Albuquerque, New Mexico	*"Technical Problems with Intelligent Design Theory"* February 19, 2001
Robert O. Kurzban, Ph.D. Department of Anthropology, UCLA Los Angeles, California Division of Humanities and Social Sciences California Institute of Technology Pasadena, California	*"Commitment and Cooperation in Social Dilemmas"* February 22, 2001
Rebecca L. Gomez, Ph.D. Assistant Professor of Psychology Johns Hopkins University Baltimore, Maryland	*"Language Acquisition and Artificial Language Learning: Going Beyond the Simple Association"* February 22, 2001

APPENDIX E (continued)

Scott Walters Department of Psychology University of New Mexico Albuquerque, New Mexico	*"Why You Should Never, Ever Treat College Drinkers in a Group*"* February 23, 2001
Geoffrey F. Miller, Ph.D. Assistant Professor of Psychology London School of Economics London, England	*"Social-cognitive Mechanisms of Mate Choice: How Brunswik Can Reconcile Darwin and Galton"* February 26, 2001
John M. Pearce, Ph.D. Professor of Psychology Cardiff University Cardiff, Wales	*The Fourteenth Annual Quad-L Lecture* *"The Discrimination of Structure: Development of a Configural Theory of Learning"* March 2, 2001
Hal Fishbein, Ph.D. Professor of Psychology University of Cincinnati Cincinnati, Ohio	*"Parents, Peers, Personality and Prejudice: Recent Experiments"* March 23, 2001
Matt Pirritano Department of Psychology University of New Mexico Albuquerque, New Mexico	*"Siship Composition, Sexual Dimorphism, and Genomic Imprinting"* March 30, 2001
Janice Hoesing, Ph.D. Associate Professor of Psychology University of New Mexico Albuquerque, New Mexico	*"Correlates of Sexual Dimorphism in Spatial Navigation"* April 20, 2001
Randy Thornhill, Ph.D. Professor of Biology University of New Mexico Albuquerque, New Mexico	*"The Erotic Salience of Symmetry"* May 4, 2001
James C. Edgar, M.S. Department of Psychology University of New Mexico Albuquerque, New Mexico	*Benjamin Haught Memorial Lecture* *"Interpreting Abnormality in Event-Related Brain Potentials: A Study of P50 Sensory Gating"* May 4, 2001

APPENDIX E (continued)

Eric Turkheimer, Ph.D. Assistant Professor of Psychology University of Virginia Charlottesville, Virginia	*"Heritability of Poverty"* June 12, 2001

COLLOQUIA COSPONSORED BY CASAA AY 2000-2001

Colloquium Presented By	**Colloquium Title**
Yifrah Kaminer, M.D., M.B.A. Department of Psychiatry and the Alcohol Research Center University of Connecticut School of Medicine Farmington, Connecticut	*"Adolescent Substance Abuse and Gambling Behavior"* October 11, 2000
Lawrence Scheier, Ph.D. Associate Professor Department of Public Health Institute for Prevention Research Weill Medical College of Cornell University Ithaca, New York	*"Developmental Models of Adolescent Drug Use: Static Fixed-Effect vs. Growth Curve Models"* October 27, 2000
Katharine A. Bradley, M.D., M.P.H. Department of Medicine University of Washington VA Puget Sound Health Care System Seattle, Washington	*"Screening for Alcohol Problems in Medical Settings: Dependence, Readiness to Change, and Mortality in General Medical Patients"* February 7, 2000
W. Gill Woodall, Ph.D. Department of Communications and Journalism University of New Mexico Albuquerque, New Mexico	*"What is the Impact of MADD's Victim Impact Panels?"* December 7, 2000
Kim Fromme, Ph.D. Associate Professor of Clinical Psychology University of Texas at Austin Austin, Texas	*"Prevention of Alcohol Misuse and Related Consequences Among Adolescents and Young Adults"* March 19, 2001
Becky D. Bauman, Ph.D. Department of Psychology University of Arkansas Fayetteville, Arkansas	*"Alcohol Use and Violence: A High-School Prevention Model"* April 23, 2001

APPENDIX E (continued)

G. Alan Marlatt, Ph.D.
Addictive Behaviors Research Center
University of Washington
Seattle, Washington

"Reducing Alcohol Problems on Campus: Integrating Environmental and Individual Prevention Programs"
April 30, 2001

APPENDIX F
Part 1

GRADUATE EDUCATION
DEPARTMENT OF PSYCHOLOGY

	AY 1996-97	AY 1997-98	AY 1998-99	AY 1999-2000	AY 2000-2001
Graduate Students	117	127	93	92	95
Graduate Enrollment	609	653	622	549	542
Graduate Assistants	35	33	37	39	60
Research Assistants	16	20	22	38	51
Fellows and Trainees	7	6	6	6	1
Master's Degrees	6	8	7	10	9
Doctoral Degrees	9	11	1	5	10
Applications Received	221	190	157	133	121
Behavioral Neuroscience			14	13	9
Clinical			113	91	82
Cognitive/Learning			9	8	6
DPS			19	20	15
Quantitative/Methodology			2	1	0
Unspecified Major					9
Offered Admission	25	20	20	26	25
Behavioral Neuroscience			2	6	5
Clinical			9	14	9
Cognitive/Learning			5	3	3
DPS			3	2	8
Quantitative/Methodology			1	1	0
Accepted Admission	13	11	10	14	9
Behavioral Neuroscience			2	2	3
Clinical			3	7	5
Cognitive/Learning			3	1	1
DPS			2	2	0
Quantitative/Methodology			0	1	0

APPENDIX F
Part 2

DOCTORAL DEGREES AWARDED AY 2000 - 2001

DEPARTMENT OF PSYCHOLOGY

NAME	TITLE OF DISSERTATION	ADVISOR
Lisa T. Arciniega	*Client Responses to Therapist Behavior and Attributes During Counseling for Alcohol Problems*	William Miller, Ph.D.
Melissa J. Guynn	*Footprints of Monitoring in Event-Based Prospective Memory*	Mark McDaniel, Ph.D.
William P. Horan	*Psychosocial Stress Reactivity in Schizophrenia: An Examination of a Neural Diathesis Stress Model and Moderating Psychological Factors*	Ronald Yeo, Ph.D.
Rex Jung	*Biochemical Markers of Cognition: A Proton Magnetic Resonance Spectroscopy Study of Normal Human Brain*	Ronald Yeo, Ph.D.
Nichole Nichols	*An Exploration of Value-Behavior Consistency Among Individuals in Substance Abuse Treatment*	Harold Delaney, Ph.D.
Shannon O'Brien	*The Effect of Estrogen Replacement Therapy on Declarative and Non-declarative Memory Function in Women with Parkinson's Disease*	Ronald Yeo, Ph.D.
David R. Perkins	*A Learning Study Examining the Contextual Control over the Transformation of Functions through Stimulus Equivalence Classes Multiple Tasks and Contexts are Established*	Michael Dougher, Ph.D.
Denise Walker-Schramm	*The Influence of Significant Others in the Treatment of Cocaine and Stimulant Disorders*	William Miller, Ph.D.

APPENDIX F (continued)

DOCTORAL DEGREES AWARDED (continued)

Vanessa Lopez-Viets	*Psychosocial Variables and College Student Gambling*	William Miller, Ph.D.
Scott T. Walters	*Effects of Mailed Feedback for Alcohol Reduction in an Industrial Setting*	William Miller, Ph.D.

MASTER'S DEGREES AWARDED AY 2000 - 2001

DEPARTMENT OF PSYCHOLOGY

NAME	TITLE OF THESIS	ADVISOR
Nicole Gendler	*Attachment Behaviors, Emotion Regulation And Relationship-Building Coping Strategies in Toddlers*	Kathy Stansbury, Ph.D.
Jennifer Jones	*The Effects of Early Environment on Adult Attachment, Self-regulation and Physiology*	Kathy Stansbury, Ph.D.
Patricia Juarez	*A Randomized Trial of Motivational Interviewing and Feedback on Heavy Drinking College Students*	William Miller, Ph.D.
Angela S. Kilman	*Influences of Maturational Timing and Morningness/Eveningness on Social Functioning in Adolescent Females*	Lynette Cofer, Ph.D.
Melissa Meade	*Coping Patterns and Socialization in Women with Bulimic Symptomatology and Their Mothers*	Jane Smith, Ph.D.
Sandra Moses	*Effects of Amygdala, Perirhinal Cortex and Hippocampal Lesions on Direct and Indirect Measures of Learning*	Dennis Feeney, Ph.D.
Daniel D. Squires	*Moderating Effects of Coping Style on Negative Affect and Substance Use Consequences*	Steve Gangestad, Ph.D.

APPENDIX F (continued)

MASTER'S DEGREES AWARDED (continued)

Lisa Thomson	*Caregiver Sensitivity and Immunological Differences*	Kathy Stansbury, Ph.D.
David Weers	*Patterns of Cognitive Impairment and Regional Brain Injury in Neuropsychiatric Systemic Lupus Erythematosus*	Ronald Yeo, Ph.D.

APPENDIX G

GRADUATE STUDENTS RATED EXEMPLARY IN RESEARCH PRODUCTIVITY AY 2000-2001

Behavioral Neuroscience

Ira Driscoll
Meg Hoskison
Sandra Moses
Matt Pirritano
Laura Rowland
Michael Thomas
Ying Wu

Cognitive Neuroscience

Joel Bish
Derek Hamilton
Tim Martin

Clinical

Rob Anderson
Tim Apodaca
Brandi Fink
Patty Juarez
Marianne Lanoue
Erica Miller
Dan Squires
Debra Stibick
Paula Wilbourne

Cognitive/Learning

Amanda Price
David Trumpower
Chad Woodruff

PDS or Evolutionary

Christine Garver

APPENDIX H

GRADUATE STUDENTS ACCEPTED FOR AY 2000-2001

NAME	ADVISOR	AREA
Deidre Devier New Mexico	Dennis Feeney, Ph.D.	Behavioral Neuroscience
Denise Ernst Oregon	William Miller, Ph.D.	Clinical
Wendy Johnson Washington	William Miller, Ph.D.	Clinical
Denise Lash Illinois	Jane Smith, Ph.D.	Clinical
Brenda Martinez-Papponi New Mexico	Paul Amrhein, Ph.D.	Cognitive
Bethany Reeb New Mexico	Akaysha Tang, Ph.D.	Behavioral Neuroscience
Isabel Villareal New Mexico	Holly Waldron, Ph.D.	Clinical

APPENDIX I

AMERICAN PSYCHOLOGICAL ASSOCIATION
COMMITTEE ON ACCREDITATION

2001 Annual Report for Doctoral Program

Date Submitted 9/10/01

College/University/School University of New Mexico

Department or Division Psychology

Name of Regional Accrediting Body North Central

Current Regional Accreditation Status Accredited

Director of Training/Program Director Ronald A. Yeo

Telephone 505-277-3060 E-mail ryeo@unm.edu

Fax 505-277-1394

Signature of Director of Training/Program Director

Name of Person Completing this Form Ronald A. Yeo

Q1 Program specialty (circle most appropriate response):

1. Clinical
2. Counseling
3. School
4. Combined (specify): _____
5. Other (specify): _____

Q2 Indicate type(s) (e.g., Ph.D., Psy.D., Ed.D.) and number of degrees granted by your program in the 1999-00 academic year (September 1-August 31):

TYPE OF DEGREE	NUMBER OF DEGREES AWARDED
1. Ph.D.	8
2. Psy.D.	0
3. Ed.D.	0

Q3 What was the average number of years to complete the program for students who graduated in 1999-00?

8

Q4 For the 2000-2001 academic year:

1. Number who applied to program 91
2. Number who were offered admission 14
3. Number offered admission who enrolled in program 5

Q5 Total number of students enrolled in the program for 2000-2001[1]

52

[1]This number should be greater than or equal to the number of students who were offered admission and enrolled in the program (Q4, part 3).

Q6 To date in 2000-2001, how many of your students:

1.	applied for internships for 2001-02	4
2.	were placed in an internship for 2001-02[1]	3
(2a)	Of those placed, how many were placed with an accredited program?	3
(2b)	Of those placed, how many were placed with a non-accredited program?	0
(2c)	How many received full-time funded internships?	3
(2d)	How many received full-time unfunded internships?	0
(2e)	How many received part-time funded internships?	0
(2f)	How many received part-time unfunded internships?	0
3.	have not been accepted by an internship for 2001-02[1]	1

[1]The sum of these numbers should equal the number of students who applied for internships for 2001-02 (Q6, part 1).

PLEASE PROVIDE INFORMATION AS DESCRIBED IN TABLES 1-7:

Table 1	Student Demographic Information
Table 2	Student Professional Activities
Table 3	Faculty Demographic Information
Table 4	Faculty Professional Activities
Table 5	Students Admitted to the Doctoral Program
Table 6	Students Who Dropped Out of the Program
Table 7	Students Graduated from the Program

Table 1
Student Demographic Information

Please complete the entire table. Zero values should be coded with a "0". Use a dash or "n/a" to indicate missing or non-relevant data.

Please identify the number of students enrolled in the program during 2000-2001 (including those on internship) by academic year of entry, who are:

		Academic Year of Entry[1]							
		2000-2001	1999-00	1998-99	1997-98	1996-97	1995-96	1994-95 & earlier	Row Total
African American/Black	M								
	F		1						1
Caucasian	M	1	1	2	1	3	1	6	15
	F	5	1	1	3		2	9	22
Hispanic/Latino	M				1		1	2	4
	F	1	1					2	4
Asian/Pacific Islander	M								
	F								
American Indian/Alaska Native	M								
	F						1	1	2
Multi-ethnic[2] (individuals identifying with more than 1 of the above categories)	M								
	F								
Total Number Currently Enrolled for Each Year of Entry[3]	M	1	1	2	2	3	2	8	19
	F	6	3	1	3	0	3	12	28

Total Number Subject to Americans with Disabilities Act	M	0	0	0	0	0	1	0	1
	F	0	0	0	0	0	0	0	0
Foreign Nationals (individuals who are not U.S. Citizens or who are not Resident Aliens)	M	0	0	0	0	1	0	0	1
	F	0	0	0	0	0	0	0	0

[1] Academic Year (September 1—August 31).
[2] For those individuals who are categorized as multi-ethnic, be sure to only include them in this category and not in other ethnicity categories.
[3] The sum of the total number of male and female students under "row total" should equal the number of students who enrolled in the program for 2000-2001 (Q5).

Table 2
Student Professional Activities

Please complete the entire table. Zero values should be coded with a "0". Use a dash or "n/a" to indicate missing or non-relevant data.

Please identify the number of students enrolled in the program during 2000-2001 (including those on internship) by academic year of entry, who are:

	Academic Year of Entry[1]							
	2000-2001	1999-00	1998-99	1997-98	1996-97	1995-96	1994-95 & earlier	Row Total[2]
Members of professional/research societies (including student affiliates)	1	2	3	3	3	2	14	28
Authors/co-authors of papers or workshops at professional meetings[3]	1	2	3	5	3	2	14	30
Authors/co-authors of articles in professional and/or scientific journals[3]	0	2	3	3	3	2	16	29
Involved in grant-supported research (e.g. RA's)	4	3	3	5	1	3	7	26
Involved in teaching (on ongoing basis; e.g. TA's)	3	3	2	4	0	3	7	22
Involved part-time in delivery of professional services on or off campus (including externship & practicum placements, excluding internship)	0	4	3	5	2	4	8	26

[1]Academic Year (September 1—August 31).
[2]The numbers provided under "row total" should be less than or equal to the sum of the total number of students (males and females) reported under "row total" in Table 1.
[3]Work published (or in press)/presented during 2000-2001 academic year only. Books may be included.

Table 3
Faculty Demographic Information

Please complete the entire table. Zero values should be coded with a "0". Use a dash or "n/a" to indicate missing or non-relevant data.

For the 2000-2001 academic year, please identify the number of faculty who are:

		Core Program Faculty[1]	Other Program Faculty[2]	Other Contributors[3]	Row Total
African American/Black	M	0	0	0	0
	F	0	0	0	0
Caucasian	M	4	0	5	9
	F	2	2	1	5
Hispanic/Latino	M	2	1	0	3
	F	0	1	0	1
Asian/Pacific Islander	M	0	0	0	0
	F	0	0	0	0
American Indian/Alaska Native	M	0	0	0	0
	F	0	0	0	0
Multi-ethnic[4] (individuals identifying with more than 1 of the above categories)	M	0	0	0	0
	F	0	0	0	0
Total Number of Faculty	M	6	1	6	13
	F	2	3	1	6

Total Number Subject to Americans with Disabilities Act	M	0	0	0	0
	F	0	0	0	0
Foreign Nationals (individuals who are not U.S. Citizens or who are not Resident Aliens)	M	0	0	0	0
	F	0	0	0	0

[1]Faculty who are committed for approximately 50% or more of their time to the program.
[2]Faculty other than those identified as the program's "core" faculty, but who have responsibilities within the program for teaching, advising, etc. This would include other faculty within the department and university that teach program courses.
[3]Individuals that have a role in the program but to a more limited extent. This would include people who present seminars, provide practicum supervision, and teach as adjunct faculty.
[4]For those individuals who are categorized as multi-ethnic, be sure to only include them in this category and not in other ethnicity categories.

Table 4
Faculty Professional Activities

Please complete the entire table. Zero values should be coded with a "0". Use a dash or "n/a" to indicate missing or non-relevant data.

For the 2000-2001 academic year, please identify the number of faculty who are:

	Core Program Faculty[1,4]	Other Program Faculty[2,4]	Other Contributors[3,4]
Members of Professional/Research Societies	8	4	6
Authors/co-authors of papers at professional meetings[5]	6	2	6
Authors/co-authors of articles in professional and/or scientific journals[5]	6	2	4
Recipients of grants or contracts	2	2	3
Involved in undergraduate teaching	8	3	1
Involved in masters teaching	8	4	5
Involved in doctoral teaching	8	4	6
Involved in research supervision	8	4	4
Involved in professional service supervision (including practicum)	8	4	6
Engaged in delivery of professional services	6	2	2

[1]Faculty who are committed for approximately 50% or more of their time to the program.
[2]Faculty other than those identified as the program's "core" faculty, but who have responsibilities within the program for teaching, advising, etc. This would include other faculty within the department and university that teach program courses.
[3]Individuals that have a role in the program but to a more limited extent. This would include people who present seminars, provide practicum supervision, and teach as adjunct faculty.
[4]The numbers provided should be less than or equal to the total number of corresponding faculty (males and females) from Table 3.
[5]Work published (in press)/presented during 2000-2001 academic year only (September 1—August 31). Books may be included.

Table 5
Students Admitted to the Doctoral Program

Please provide the following information for ALL students admitted to the program for academic year 2000-2001. DO NOT PROVIDE STUDENT NAME; instead, please number students by year of admission (i.e., 00.001, 00.002, 00.003, etc.).

Identification Number	Undergraduate Institution	Year of Undergraduate Degree	Undergraduate GPA (4 pt. Scale)	Other Admissions Data				Graduate Semester-Hour Equivalent Credits Transferred (if applicable)	Part- or Full-time Status
				GRE Verbal	GRE Quant	GRE Analytic	GRE Advanced Psych Test		
00.001	Penn State	1994	3.87	590	610	300	600		F
00.002	Hunter College	1998	3.40	430	470	570	450		F
00.003	Univ. of Washington	1999	3.50	620	640	770	610		F
00.004	Univ. of New Mexico	2000	3.82	530	690	700	690		F
00.005	NM State University	1995	3.79	610	620	620	630		F
00.006	Univ. of Georgia	1999	3.97	640	630	560	600		F
00.007	York College	1995	3.28	530	550	510	620		F

Table 6

Students Who Dropped Out of the Program

Please provide the following information for ALL students who dropped out of the program during academic year 1999-2000. DO NOT PROVIDE STUDENT NAME; instead, please number students by year of admission (i.e., 89.001, 92.001, 92.002, etc.).

Identification Number	Date Left Program	Reason for Leaving
95.001	8/19/00	Wanted to be full-time parent

Table 7

Students Graduated from the Program

Please provide the following information for ALL students who graduated from the program during the 1999-2000 academic year. If you do not have information on a particular graduate, please place "unknown" in the appropriate space. DO NOT PROVIDE STUDENT NAME; instead, please number students by year of entry (i.e., 89.001, 89.002, 89.003, etc.). If employment is in a postdoctoral residency, leave "employment setting" blank and indicate corresponding code under "postdoctoral setting." Please use the codes provided in the appendix following this table for internship setting (column 1), postdoctoral/employment setting (column 2), and postdoctoral/employment activity (column 3). Feel free to duplicate this page to list all students who graduated from the program.

Identification Number	Internship Setting Code	Postdoctoral Setting Code(s)[1]	Postdoctoral Title/Activity Code(s)[1]	Employment Setting Code	Employment Title/Activity Code(s)[1]
00.001	13			13	3, 4, 6
00.002	7	7		7	2, 3, 4, 6
00.004	7			99	

[1]If applicable, please provide multiple codes.

Appendix
Codes for Internship Setting, Employment Setting, and Activity

Column 1—Internship Setting Codes	Column 2—Employment/Postdoctoral Setting Codes	Column 3—Activity Codes
1. Community Mental Health Center	1. Community Mental Health Center	1. Administration
2. Health Maintenance Organization	2. Health Maintenance Organization	2. Assessment
3. Medical Center	3. Medical Center	3. Consultation
4. Military Medical Center	4. Military Medical Center	4. Psychotherapy
5. Private General Hospital	5. Private General Hospital	5. Research
6. General Hospital	6. General Hospital	6. Supervision
7. Veterans Affairs Medical Center	7. Veterans Affairs Medical Center	7. Teaching
8. Private Psychiatric Hospital	8. Private Psychiatric Hospital	33. Other (e.g., community-based intervention)—please specify
9. State/County Hospital	9. State/County Hospital	
10. Correctional Facility	10. Correctional Facility	
11. School District/System	11. School District/System	
12. University Counseling Center	12. University Counseling Center	
13. Medical School	13. Academic Teaching Position	
14. Consortium	13a. doctoral program	
33. Other (e.g., consulting)—please specify	13b. masters program	
	13c. 4-year college	
	13d. community/2 yr. College	
	13e. adjunct professor	
	14. Independent Practice	
	15. Academic Non-Teaching Position	
	16. Medical School	
	33. Other (e.g., consulting)—please specify	
	44. Student	
	99. Not Currently Employed	

APPENDIX J
Part 1

UNDERGRADUATE EDUCATION
DEPARTMENT OF PSYCHOLOGY
AY 2000-2001

	AY 1996-97	AY 1997-98	AY 1998-99	AY 1999-2000	AY 2000-2001
Introductory Psychology	1,661	1,560	2,018	2,089	1,984
Introductory Labs	522	520	521	144	-0-
Advanced Psychology (300, 400 level)	7,655	5,247	5,537	2,761	2,324
Advanced Labs	164	59	33	146	320
Total Enrollment	9,902	7,386	8,109	7,534	6,796
Student Credit Hours				21,500	21,872
Number of Majors			625	590	603
Graduating Majors	161	235	266	182	232
No. of (FTE) Faculty Involved	24	24	24	24	20

APPENDIX J
Part 2

DEPARTMENT OF PSYCHOLOGY COURSE OFFERINGS

AY 2000-2001

SUMMER 2000

COURSE	TITLE	# OF SECTS	TOTAL ENROLLMENT	SCH
105	General Psychology	2	103	309
200	Statistical Principles	1	51	153
240	Brain and Behavior	1	44	132
260	Learning and Memory	1	36	108
271	Social Psychology	1	35	105
302	Psychology Research Techniques	1	61	183
332	Abnormal Behavior	1	61	183
450	Spec. Topic/Health Psychology	1	15	45
499	Undergraduate Problems	30	29	87
551	Graduate Problems	23	5	15
599	Masters Thesis	22	5	15
699	Dissertations	23	15	90
		Total	**460**	**1,425**

FALL 2000

COURSE	TITLE	# 0F SECTS	TOTAL ENROLLMENT	SCH
105	General Psychology	5	1,078	3,234
200	Statistical Principles	3	213	639
220	Developmental Psychology	4	735	2,205
240	Brain and Behavior	2	104	312
260	Learning & Memory	2	115	345
265	Cognitive Psychology	2	158	474
271	Social Psychology	2	168	504
302	Psychological Research Tech.	1	90	270
325	Psychology of Infancy	1	53	159
327	Social Development	1	101	303
331	Psychology of Personality	1	168	504
332	Abnormal Behavior	2	307	921
335L	Clinical Psych Lab	1	15	30
347	Drug & Beh: Psychopharm.	1	62	186

FALL 2000 (continued)

COURSE	TITLE	# 0F SECTS	TOTAL ENROLLMENT	SCH
360	Human Learning & Memory	1	8	24
362L	Human Learning and Memory Lab	1	7	14
364	Psychology of Perception	1	41	123
367	Psychology of Language	1	19	57
377	Attitude Processes	2	165	495
391	Junior Honors Seminar	1	16	48
400	History of Psychology	1	71	213
411	Cross Cultural Psychology	1	30	90
434	Behavior Therapies	1	19	72
430	Alcoholism	1	36	108
436	Family Psychology	1	81	243
450	ST/Pub. Policy Drug/Alcohol	1	55	165
450	ST/Min. Issues in M H	1	2	6
491	Sr. Honors Seminar	1	9	27
499	Undergraduate Problems	18	126	378
501	Advanced Statistics	1	15	45
503L	Advanced Statistics Lab	1	15	15
505	Research Seminar	1	13	13
523	ST/Social Develop. Child	1	10	30
532	ST/Psychopathology	1	12	36
535	Psychological Evaluation: Personality Functions	1	3	9
540	Biol. Bases Behavior	1	9	27
542	ST/Recovering Function & EP	1	5	15
551	Graduate Problems	14	27	68
560	Human Learn & Memory	1	2	6
562	Cognitive Processes II	1	6	18
565	Seminar: Thought & Language	1	3	9
572	Theories of Personality	1	9	27
577	Attitude Processes	2	3	9
599	Masters Thesis	10	16	48
600L	Practicum	5	9	9
631L	Prac. Psych. Adults I	8	27	69
641	Seminar in Physiological Psych.	1	3	6
650	Spec. Topics: Pub. Pol. Drg/Alcohol	1	1	3
650	Spec. Topics: Min. Issues in MH	1	3	9
650	Spec. Topics: Child Clinical	1	5	15
650	Spec. Topics: Functional Neuroimag.	1	5	15

FALL 2000 (continued)

COURSE	TITLE	# 0F SECTS	TOTAL ENROLLMENT	SCH
650	Spec. Topics: Brain Comput.	1	1	3
699	Dissertations	16	41	280
		Total	3,483	10,431

SPRING 2001

COURSE	TITLE	# OF SECTS	TOTAL ENROLLMENT	SCH
105	General Psychology	5	906	2.781
200	Statistical Principles	3	160	480
220	Developmental Psychology	2	197	591
240	Brain and Behavior	2	155	465
260	Psychology of Learning & Memory	1	136	408
265	Cognitive Psychology	2	105	315
271	Social Psychology	2	95	285
300	Intermediate Statistics	2	20	60
301L	Quantitative Psychology Lab	1	8	8
302	Psychological Research Techniques	2	118	354
322L	Developmental Psychology Lab	1	13	26
331	Psychology of Personality	1	75	225
332	Abnormal Behavior	2	354	1,062
341L	Behavioral Neuro Lab	1	21	42
344	Human Neuropsychology	1	25	75
361	Human Learning & Memory	1	78	234
365	Applied Exper. Psychology`	1	7	21
367	Psychology of Language	1	43	129
375	Psychology of Women ITV	1	43	129
392	Junior Honors Seminar	1	16	48
421	Adv. Developmental Psych	1	9	27
422	Child Language	1	15	45
430	Alcoholism	1	119	357
434	Behavior Therapies	1	40	120
436	Family Psychology	1	115	345
450	Spec. Topics: Computational Neuro	1	5	15
450	Spec. Topics: Psych of Well Being	1	19	57
450	Spec. Topics: Addictions	1	94	282
450	Spec. Topics: Aging	1	6	18
450	Spec. Topics: Affect Disorder Hyp.	1	1	3
450	Spec. Topics: Evol. Of Cognition	1	3	9

SPRING 2001 (continued)

COURSE	TITLE	# OF SECTS	TOTAL ENROLLMENT	SCH
492	Senior Honors Seminar	1	8	24
499	Undergraduate Problems	23	76	174
502	Design & Analysis of Experiments	1	14	42
504L	Design & Analysis Expt. Lab	1	14	14
505	Research Seminar	1	13	13
521	Adv. Developmental Psych	2	6	18
535	Eval Person Function	1	13	39
536L	Practicum Psych Eval.	1	3	9
551	Graduate Problems	14	34	76
561	History & Systems – Psych	1	16	48
569	Seminar. Psychology - Creativity	1	1	3
599	Masters Thesis	9	20	120
600L	Practicum	1	8	8
631L	Practicum in Psychotherapy with Adults I	1	1	3
632L	Practicum in Psychotherapy with Adults II	10	27	84
635	Practicum in Child Assessment	1	2	6
641	Seminar in Physiol. Psych.	1	12	24
650	Spec. Topics: Computational Neuro	1	7	21
650	Spec. Topics: Psych of Well Being	1	2	6
650	Spec. Topics: Addictions	1	5	15
650	Spec. Topics: Aging	1	5	15
650	Spec. Topics: Affect Disorder Hypo	1	2	6
650	Spec. Topics: PTSD	1	4	12
650	Spec. Topics: Ass't & Case Form	1	6	18
650	Spec. Topics: Behavior Therapies	1	4	12
650	Spec. Topics: Evol. Of Cognition	1	15	45
699	Dissertations	18	49	329
		Total	**3,217**	**9,633**

APPENDIX K

PART-TIME FACULTY HIRED DURING AY 2000-2001

NAME	COURSE NUMBER	TITLE
SUMMER 2000		
Richard Harris	Psychology 271.310	Social Psychology
John Martin	Psychology 450.330	Health Psychology
FALL 2000		
Elena Bettoli-Vaughan, Ph.D.	Psychology 436.001	Family Psychology
Richard Harris, Ph.D.	Psychology 577.002	Attitude Processes
Lorna Joachim, Ph.D.	Psychology 105.004	General Psychology
Dwight Vick, M.A.	Psychology 450/650	Public Policy on Drugs & Alcohol
SPRING 2001		
Steve Alley, M.A.	Psychology 271.001	Social Psychology
	Psychology 331.002	Psychology of Personality
Richard Harris, Ph.D.	Psychology 300.001	Intermediate Statistics
Janice Hoesing, Ph.D.	Psychology 341L.001	Behavioral Neuro Lab
Lorna Joachim, Ph.D.	Psychology 105.005	General Psychology
	Psychology 260.001	Psychology of Learning & Memory
	Psychology 375.001	Psychology of Women
Robert Thoma, Ph.D.	Psychology 344.001	Human Neuropsychology

APPENDIX L

SENIOR HONOR THESES AY 2000-2001

DEPARTMENT OF PSYCHOLOGY

STUDENT	THESIS TITLE	FACULTY SPONSOR
Audrey D. Solimon	*The Association Between Postnatal Environment and Cognitive Performance in Children Prenatally Exposed to Alcohol*	Paul Amrhein, Ph.D. Wendy Kalberg, MA, CED P. W. Kodituwakku, Ph.D. Philip A. May, Ph.D.
Blake Standish	*White Matter Lesion Volume and N-acetyl-aspartate Concentration As Predictors of Neuropsychological Performance in Vascular Dementia Patients*	RonaldYeo, Ph.D.
Brittany L. Lakin	*Managed Care and Parental Involvement as Factors in the Readmission to a Children's Residential Treatment Center*	Art Brambila, Ph.D. Kathy Sigda, Ph.D.
Chris P. Nguyen	*Leadership as a Mediator of the Relationship of Locus of Control and Well-being on Job Outcomes*	Jacqueline Hood, Ph.D. Timothy Goldsmith, Ph.D.
Jodi R. Mayfield	*Individual Contributions to the Base Rate Fallacy*	Paul Amrhein, Ph.D.
Sarah A. Woodford	*Maternal Age and Drinking Patterns as They Relate to Cognitive Skills, Adaptive Behavior,* and Overall Dysmorphology in *Alcohol Exposed Children*	Paul Amrhein, Ph.D. Wendy Kalberg, MA, CED P. W. Kodituwwaku, Ph.D. Philip A. May, Ph.D.
Brian C. Cordova	*Early Testosterone Exposure and Individual Differences in Lateralization and Selected Cognitive Skills*	Ronald A. Yeo, Ph.D.

APPENDIX L (continued)

Sarah A. Gaussoin	*A Normative Study of Memory Using a List Learning Task in a Healthy Elderly Population*	Kathleen Y. Haaland, Ph.D.

APPENDIX M

ANNUAL REPORT
DEPARTMENT OF PSYCHOLOGY CLINIC

2000-2001

Education, Service and Research at the UNM Department of Psychology Clinic

The Department of Psychology Clinic understands and implements the missions of the University and of the Department of Psychology--comprehensive educational, research, and service programs and the values of contribution, growth and learning. With primary emphases on practical education and service, didactic education and research are also integral parts of the Clinic's functions and mission.

The Clinic is the central training facility for clinical students in the doctoral training program of the Department of Psychology. It is a full-service outpatient clinic, providing therapy and assessment services to UNM students and members of the communities of Albuquerque and the surrounding area. This year, as will be described more fully below, we have expanded our services and undergraduate education opportunities as Agora: UNM Crisis Center has become part of the Clinic's services.

UNM's overall mission also includes values that go beyond specific functions and tasks: "UNM will provide students the values, habits of mind, knowledge, and skills that they need to be enlightened citizens, to contribute to the state and national economies, and to lead satisfying lives," (*Draft Strategic Plan*, 2001). Harder to enumerate and measure than class performance or hours spent in assessment, therapy and supervision, these factors of personal growth and ways of thinking are equally part of the values and obligations held by the Clinic staff. We pride ourself on creating and maintaining a working environment and atmosphere in which productive clinical work can take place and in which clients, student-clinicians and staff can learn and grow.

Currently, 20 doctoral students in their third year or later carry the equivalent of two therapy cases under supervision at the Clinic (they may also be performing assessments, consulting, or supervising other students). In total, they will accumulate 500 hours of client contact and supervision combined prior to going on internship. All of them must follow ethical and professional standards of practice of psychology as well as provide acceptable levels of care. The reason this is possible is the academic preparation and clinical supervision provided by the Department's faculty, especially the clinical faculty. Each student-clinician receives at least one hour of face-to-face supervision per week individually or in small groups. Because of bright and responsible graduate students, competent educational preparation, and dedicated faculty the Clinic is a place where its educational and service missions can be carried out without contradiction.

SERVICES

Psychotherapy and assessment Individual adult therapy remains the primary service of the Clinic, with a patient/client population that is varied in terms of age, ethnicity, employment status, education and presenting problems. Generally the severity of referral issues is from mild to moderate. There is a frequent misperception that we serve primarily a University population; in fact, our referrals come from other agencies and practitioners, the Court, and self-referrals providing a cross-section of the community. Because of a sliding fee scale ($10 to $60 per hour), we do have a selection factor toward low-income individuals, but even this is not universal. The Clinic has had increased involvement in family, child and couples therapy over the years along with our staple of individual psychotherapy.

Clinical faculty provide supervision options in behavioral, cognitive-behavioral, existential, psychodynamic, family systems, behavior analytic and humanistic approaches, with strong neuroscience, cross-cultural and developmental influences. We continue to see the value of long-term treatment where this is appropriate, both as proper treatment in some cases and for excellence of training. Student-clinicians are encouraged to provide time-limited therapy after developing experience in an open-ended timeframe. Both empirically supported approaches to therapy and the managed care environment of the health care world indicate the importance of time-limited therapy in some cases.

The tension among therapy models, rationales and methods to which students are exposed reflects an educational value of the department. Experiencing and reflecting on these diverse aspects of therapy and assessment will, we believe, prepare students for the difficult challenges now facing the profession of clinical psychology, whether in academic or treatment settings. Quite properly, for our research-based discipline, issues of empirical support and measurement of outcomes are of ongoing concern at the Clinic.

ADHD Assessment Team This year ends the third full year of operation of our ADHD assessment program. ADHD has been classified as a disability under the Americans with Disabilities Act, and with more concern about this diagnosis, schools, businesses and individuals are turning to psychologists for better assessment. Clinic personnel Melissa Behrens-Blake, M.S., Angela Caswell-Kilman, M.S., and Dan Matthews, Ph.D. have collaborated with Sigifredo Saenz, M.S.W. (an ADHD consultant from UNM Counseling Assistance and Referral Service) to develop and carry out a program which draws from previous experience at UNM with an adult population and from current research and theory. Our assessment team this year has also included Michael Villanueva, Ph.D., a visiting professor, and Stephen Poland, Ph.D., whose achievement as a school psychologist has been recognized by the American Board of Professional Psychology. This project is now funding one graduate assistantship at the Clinic, and we are expanding this to another student for a half-time assistantship in 2001-2002. We are pleased to add Georgianna Achilles, M.S. to our staff in this role.

Agora UNM Crisis Center, is a professionally supervised, student-run organization which provides crisis intervention, support and referral services to UNM students and to the Albuquerque community. Well trained volunteers, a majority of whom are UNM undergraduate

students, provide a free and confidential service primarily by telephone. Agora maintains a comprehensive referral is to provide callers with information about appropriate professional services which may be needed. Agora has been providing these services continuously for 30 years. Starting in September 2000, Agora came under the administrative auspices of the Clinic and is housed here. Its Professional Director, Molly Brack, M.A., is now part of Clinic staff, currently on a part-time basis.

Agora's presence at the Clinic is a natural collaboration, in that its primary missions, service to people in crisis and training of students, parallel those of the Clinic in values and content. Since Agora's volunteers are primarily UNM undergraduates, many of them psychology majors, the Clinic is now more involved with undergraduate education and development than at any previous time.

PERSONNEL

The staff of the Clinic includes Dan Matthews, Director (since fall 1988); Wanda Sharts, Office Manager (who moved from the Department in June 1991); Angela Caswell-Killman, Graduate Assistant for the ADHD program; Melissa Behrens-Blake, our educational diagnostician; and Gloria Lucero, office staff on work-study.

Gloria Lucero joined our staff this year. She is studying sociology and criminology and hopes to go to graduate school in counseling. Her interests fit with some of her experiences at the Clinic and her presence on our staff has been mutually beneficial. She is a reliable and consciencious worker with a good ability to deal with our clients and Clinic business.

Angela Caswell-Kilman is beginning her second year in our graduate assistant position on the ADHD assessment team. She performed the work at a high level of excellence and added her interest and knowledge in development and neuroscience to enrich our evaluations. We have ended up testing more children than we had expected, and Ms. Caswell-Killman's background and interest in children have suited her well for this work. She is notably a person to whom you should not ask a question if you don't want an answer--when issues arise in our team meetings she is likely to have abstracts and articles on our desks the next day or the following meeting. We enjoy learning with her and from her.

The 1997 addition to our staff of Melissa Behrens-Blake has proved mutually beneficial. Ms. Blake is an educational diagnostician specializing in the assessment of adult learning disabilities and the educational portion of ADD/ADHD evaluations. What began as an administrative arrangement to share space has become a valued working relationship with compatible aims. Ms. Behrens-Blake has knowledge and skills that complement and enhance the services and training we have traditionally provided. She has a strong interest in the neurological bases of the conditions she assesses and has provided consultation for our students and with our clients. The community's need for an ADHD assessment program (see above) was brought to our attention by Ms. Blake, and she has been one of three prime movers in its development.

Molly Brack is Professional Director of Agora. She is a former Agora volunteer who completed her masters in counseling and has maintained some involvement in Agora over the years. We were very fortunate in hiring her at the time that Agora became administratively attached to the Clinic. Although our funding has only allowed hiring her part-time (.5 FTE) she has worked tirelessly to provide training, reorganize Agora staff, remodel the room in which Agora is housed, and keep the momentum for a reinvigorated organization. We hope to acquire funding to upgrade her position to full-time in the coming year.

Wanda Sharts reorganization of the Clinic continues to provide a steady foundation for our work here. She has provided not only an increase in the efficient operation of the Clinic, but also a calm and quieting presence that facilitates all our efforts in a sometimes stressful work environment. Her duties are numerous and varied, and she carries out each productively and graciously.

I (Dan Matthews) am close to completing my 13th year as Clinic Director. I remain active in New Mexico Psychological Association, serving this year as NMPA's representative on the Human Services Department's Advisory Committee on Medicaid Behavioral Health and chairing the Task Force on the Professional Psychologist Act. I resigned this year as chair of the legislative committee. Those roles have kept me involved with the changing status of psychology under movement to managed health care and with legislative and regulatory issues affecting our profession. My knowledge of the academic and practice environments our students will be moving into is enhanced by this involvement and I am able to influence the practice environment in New Mexico. I continue to enjoy the Case Formulation practicum for first year students, Pre-Clinical Practicum for second year students, and group as well as individual supervision of student-clinicians. My own clinical work is entirely through the Clinic, where I provide therapy, assessment and consultation services and work with the ADHD assessment team.

Dr. Ron Yeo begins his second year as Associate Chair for Clinical, bringing his assessment and neuroscience influences more to the fore. All of our current students have learned cognitive assessment and neuropsychological screening from Dr. Yeo. Their neuroscience background informs and enriches our understanding of all aspects of behavior, and we continue to experience an increasing integration of this knowledge and understanding to clinical applications.

This is the time each year that we experience the loss of our "senior staff" - those who graduate or go on internship. This year, three students are on internship: Chris Edgar, Scott Walters and Denise Laframboise (who has not been in NM for several years). We already miss the efforts and interactions of Chris and Scott who were active at the Clinic.

Finally, the quality of our services depends critically on the efforts of our clinical faculty and adjunct faculty who supervise therapy and assessment cases and support the knowledge, professional development and personal growth of the student therapists. These individuals deserve special thanks (they are listed elsewhere in this report, and need not be individually named here).

PHYSICAL SETTING

Located at 1716 Las Lomas NE in a converted residence, the present building has offices for our full-time staff, five therapy/testing rooms, a waiting area and a student work space. Three therapy rooms are equipped for videotaping and live supervision is possible through remote video. A large converted garage is has been remodeled and decorated for use by Agora. It is a livable and workable space and the homelike setting presents an inviting and comfortable environment for our clients and our work.

The building is also a work-in-progress. It lacks the observation room of our previous building and videotape equipment is currently awkwardly placed within two of the rooms rather than in remote locations. One therapy room is quite small (necessitated by the remodeling of the building) and would be improved with a borrowed light window and translucent glass door. We have been given a firm commitment by the University that we will stay in this location, and remodeling is anticipated depending on need and finances.

RESEARCH

Almost continuously over the past eight years, students and faculty are using the Clinic facilities for their research. This year, Lynn Farmer acquired subjects for brain imaging from our ADHD-assessed population. Colleen Colbert, a doctoral student in education and David Weers of our department are working on a learning disabilities study with the data collected by Melissa Behrens-Blake in her educational diagnostic work. Using Clinic facilities for running research or using our data are always encouraged and frequently used.

SUMMARY

The Department of Psychology Clinic continues to be a pleasant and supportive environment for providing psychological services and crisis contact and referral to the Albuquerque community. Each year, some of our services remain the same and we take on new projects while completing others. The Clinic is a setting in which the resources, physical, intellectual and emotional, are available to enhance the development of the experience and skill required for therapy, assessment and crisis intervention. It is a good place to work, learn and grow--for student-clinicians, Agora volunteers, faculty and staff.

Prepared by

Dan Matthews, Ph.D. Clinic Director

APPENDIX N

SUPPORT STAFF
DEPARTMENT OF PSYCHOLOGY
AY 2000 - 2001

ADMINISTRATIVE SUPPORT STAFF

Department Administrator: Candace Blashak

Assists the Department Chair; administers all personnel and budgetary decisions necessary to execute University policies and procedures set by the Department Chair and faculty; oversees all budgetary activities in the Department; hiring and supervision of all staff; assists in hiring students, and technical personnel; coordinates with various University administrators on a variety of complex matters, including faculty contracts, student financial aid, staff compensation, and other matters; drafts policies, procedures, correspondence for the Chair; takes minutes at faculty meetings. Office management, preparation of a variety of administrative and instructional documents, faculty recruitment, tenure and promotion files, coordination of the department convocation activities, departmental receptions, and other special events. Bookholder and Paymaster.

Supervisor, Administrative Support: Stan Bennett

Maintains records of fiscal and budgetary controls, ledgers, and other transactions for the Department. Processes routine financial documents and accounting transactions. Reconciles accounting records and analyzes routing accounting data. Serves as department bookholder. Assists in the development and coordinates the maintenance of area budgets. Processes part-time and full-time faculty contracts, GA and TA contracts. Building key coordinator. Responsible for the monthly tagging of department inventory and maintains inventory control.

Academic Advisor: Beth Isbell

Serves as department's graduate admissions coordinator; primary liaison with public and prospective graduate and undergraduate students; responsible for administering student degree checks, counsels and advises graduate and undergraduate students in Psychology program regarding policies, requirements, academic standing, and related matters; maintains all graduate student files and records; coordinates comprehensive examinations and thesis and dissertation defenses; interfaces with Graduate Studies Office in policy areas; coordinates with Scheduling Office, Continuing Education Office, regarding department class schedules; assists top administration with hiring part-time faculty; is official liaison between department and visiting faculty; coordinates with Graduate Studies Office, College of Arts and Sciences, Curriculum Change Committee, and Office of Scheduling regarding revisions for University catalogs; prepares reports for outside agencies such as the American Psychological Association as

requested. Performs other duties as requested by the department chair or department administrator.

Editorial Tech: Nancy Chavez

Edits and word processes complex manuscripts, exams, and grant proposals; provides word processing for department faculty prepares department annual report; writes and edits department quarterly newsletter; prepares information for "Faculty Publications and Creative Works"; serves as department representative for the United Way drive; is a bookholder with back-up duties for department administrator, academic advisor, and administrative assistant and is a paymaster.

Administrative Assistant II: Louis Carrillo

Represents the department as first point of public contact; directs telephone calls and foot traffic as appropriate; has responsibility for maintaining supplies inventory, security of classroom equipment inventory, and maintenance of office copier; backup for Academic Advisor, back-up for Editorial Tech for typing of syllabi, exams and correspondence; maintains department classroom schedule, and supervises two student employees, first contact for building keys.

RESEARCH SUPPORT STAFF

Research Engineer: Patrick Sharp

Supports faculty, staff and graduate students with computer needs; responsible for electronic design, fabrication, troubleshooting, installation, computer upgrades, consulting, repair, and preventive maintenance for a vast assortment of electronic equipment; fabricates wood and metal products using a variety of equipment; responsible for annual department equipment inventory; advises Chair and department faculty regarding purchase, installation and maintenance of electronic equipment.

Supervisor Animal Husbandry: Ector Estrada

Supervises the daily operations of the Psychology Department's animal colony, including animal husbandry and environmental control; functional supervisory responsibility for the other Animal Technician IV and two student employees; works with department's veterinarian in treatment of laboratory animals and in monitoring compliance with the Animal Welfare Act; works under general supervision of Department Chair, Veterinarian, and Chair of Animal Care and Use Committee.

Senior Laboratory Animal Technician: Gilbert Borunda

Under limited supervision, maintains and breeds laboratory animals and functions as a section leader of student assistants; primarily responsible for daily care and preparation for surgery of laboratory animals; assists department veterinarian in all animal treatment; back-up for senior Laboratory Animal Technician IV.

APPENDIX N (continued)

Animal Research Coordinator: DeLaine King

Coordinates and supports all operational facets of a laboratory animal research facility, ensuring optimum usage of facilities and equipment, in compliance with all federal and state regulations pertaining to the conduct of animal research. Carries out specified research/experimental protocol and procedures as appropriate, and trains, guides, and oversees the activities of students engaged in animal research.

Veterinarian: Daniel Theele, DVM

Provides preventive, acute and on-call medical treatment to a variety of departmental laboratory animals; provides professional management of animal research facility and monitors compliance with the Animal Welfare Act; provides relevant instruction to faculty, graduate and undergraduate students concerning care and treatment of laboratory animals; reports to Department Chair and Chair of Animal Use and Care Committee.

PSYCHOLOGY CLINIC SUPPORT STAFF

Clinic Director: Daniel Matthews, Ph.D.

Has overall administrative and fiscal responsibility for the Clinic and executes Clinic policies as set by the Department faculty; reports to the Department Chair through the Associate Chair for Clinical Training. Duties include triage of referrals to the Clinic, supervision of doctoral students, report writing, community relations and some direct clinical services, including assessment.

Administrative Assistant: Wanda Sharts

Works under general supervision and in support of Psychology Clinic Director, Psychology Department Chair, and Department Administrator. Assists in the formulation of Clinic policies and procedures; performs a wide variety of duties in the areas of budget, personnel, payroll, and related matters, and performs administrative work at the paraprofessional level; supervises student employee.

Certified Educational Diagnostician: Melissa Behrens-Blake

Participates in research projects conducted through the Department of Psychology as related to general disorders of neurological processing (including but not limited to dyslexia, learning disabilities, traumatic brain injury, schizophrenia and stroke/aphasia). Responsibilities include conducting extensive educational diagnostic evaluations as directly related to the specific requirements of the research project. Also serves as certified educational diagnostician in the department's Psychology Clinic with diagnostic evaluations to be integrated into the client's overall treatment program.

APPENDIX N (continued)

Program Coordinator AGORA: Molly McCoy Brack

Selects, trains and supervises AGORA volunteers. On call to provide emergency back-up. Publicizes AGORA's services. Provides outreach services in the area of education to the public on crisis prevention, referral and available services mainly on campus and to high school students.

APPENDIX O

University of New Mexico

Center for Family and Adolescent Research

Annual Report July 1, 2000 through June 30, 2001

Submitted by Holly B. Waldron, Ph.D., Director

Background

The University of New Mexico Center for Family and Adolescent Research (CFAR) has evolved from a program of research focusing on adolescent problem behaviors and family relationships, initiated in 1992 by Holly B. Waldron, Department of Psychology, to a multi-departmental, multi-disciplinary institution spanning the University's North and South campuses. Current research projects focus on several areas of emphasis, including patterns of family interaction related to adolescent problem behaviors, efficacy trials evaluating therapeutic interventions for substance abusing adolescents and their families, and ethical issues in clinical research. The research mission, however, remains the same: to conduct research and disseminate findings that will promote the health of adolescents and families. In fulfilling this mission, CFAR also serves the broader University mission by providing opportunities for training and research to graduate students and post-doctoral trainees and employment to members of the Albuquerque community. In addition, CFAR's treatment outcome research affords high-quality, culturally relevant behavioral health treatment services to youth and families in Albuquerque and surrounding areas.

CFAR occupies a suite of offices in leased space off-campus located at 2700 Yale SE, Suite 200. CFAR's two principal investigators, Holly B. Waldron, Ph.D., and Janet L. Brody, Ph.D., are assisted by their co-investigators on various projects: Charles W. Turner, Ph. D.,

University of Utah Professor of Psychology; Hyman Hops, Ph.D., Oregon Research Institute Senior Scientist; Betsy Davis, Ph.D., Oregon Research Institute Research Scientist; David Scherer, Ph.D., UNM Associate Professor of Family, Individual and Community Education; Robert D. Annett, Ph.D., UNM Associate Professor of Pediatrics; Elizabeth Perkett, M. D., UNM Associate Professor of Pediatrics; and Laura Roberts, M. D., UNM Professor of Psychiatry. CFAR's program manager, Betsy Morrison, provides administrative oversight for the administrative and technical staff, research assistants, and therapists.

CFAR's operating costs have thus far been covered by grants from the National Institutes of Health, enabling the Center to provide services at no cost to clients. Since its founding, CFAR has provided treatment to approximately 600 clients and their families and training to 35 graduate-level professionals. CFAR's training program provides undergraduates, graduate students and postdoctoral trainees with unique opportunities for supervised clinical practice, community outreach, study design, data collection, data analysis, manuscript preparation, and development of grant applications. As research assistants, trainees participate in virtually every aspect of CFAR operations, answering phones, screening potential clients, providing referrals for callers, conducting recruitment activities with schools, parent groups, community organizations and the juvenile justice system, administering assessments, organizing research records, conducting quality-control review, entering data in electronic databases, analyzing data, writing abstracts and papers, and presenting CFAR findings at professional conferences. Masters- and doctoral-level therapists and trainees provide treatment services to individuals and families, under the supervision of Drs. Brody, Waldron and Scherer. Center faculty, administrative staff, and research assistants meet weekly, to plan, monitor study progress, discuss operational and scientific issues and provide feedback to each other.

Data from CFAR's completed studies provide direction for newer work. The FIRS study, concluded in 1998, examined family interaction patterns influencing adolescent alcohol use and other problem behaviors. The findings revealed distinct patterns of maladaptive communication behaviors in families of drinking and depressed youth, compared with families of nondisturbed youth, and highlighted target behaviors for interventions with Hispanic and Anglo families. The cross-cultural focus of this project, taken together with the DAYS treatment outcome study, provided the foundation for the two-site VISTA project, funded this year to evaluate treatments for Latino and Anglo youth in New Mexico and Oregon.

The DAYS project, concluded this year, compared four treatment interventions for adolescent substance use disorders. Adolescents (n=127), aged 13-18 years, were randomly assigned to one of the four intervention conditions: individual cognitive-behavioral therapy (CBT), Functional Family Therapy (FFT), an integrative treatment including both FFT and CBT, or an education/ skills group comparison condition. Treatment outcomes were examined 4 months, 7 months, and 18 months after the initiation of therapy for two outcome measures and across the four treatment conditions: percent days of use and percent of youths achieving minimal use. Each intervention demonstrated some efficacy, although differences occurred for outcome measured, speed of change, and maintenance of change. From pretreatment to 4 months, significantly fewer days of use were found for the family alone and combined interventions. Significantly more youth had achieved minimal use levels in the family and combined conditions and in CBT. From pretreatment to 7 months, reductions in percent days use were significant for the combined and group interventions, and changes in minimal use levels were significant for the family, combined, and group interventions. Similar outcomes were obtained at the 18-month follow-up.

Current studies ASPEN, VISTA, CEDAR and ASSENT are described below under Significant Developments and Outside Sponsored Research. Dr. Brody received funding this year for ASSENT, a new project investigating the consent process in trials for adolescents with asthma. CFAR enjoys collaborative relationships with senior researchers who consult on projects and advise the CFAR steering committee:

- James F. Alexander, Ph.D. is a full professor at the University of Utah. Dr. Alexander and his collaborators developed the Functional Family Therapy treatment model used by CFAR for the DAYS, CEDAR, and VISTA projects. Dr. Alexander has provided training and master supervision to therapists working at the Center.
- Manuel Barrera, Ph.D., a full professor at Arizona State University in Tempe, is a co-investigator on the VISTA project at the Oregon site and serves as a consultant to the New Mexico site. His research expertise in the area of adolescent substance use and his experience with Latino youth and families in the Southwest have been critical in the development and implementation of the VISTA project.
- Felipe Castro, Ph.D., a full professor at Arizona State University in Tempe, is a consultant for project VISTA who provides expertise in the area of cross-cultural research and cultural competency in providing treatment services for Latino populations.
- Lynette F. Cofer, Ph.D., a full professor at the University of New Mexico, is collaborating at CFAR on research related to connections between morningness-eveningness preferences in adolescents and the development of substance abuse problems. She is a principal investigator on a project that focuses on data collected in the DAYS project.
- John Gluck, Ph.D., is a full professor in the Psychology Department at UNM and a Senior Research Fellow of the Kennedy Institute of Ethics at Georgetown University. He has a

longstanding interest in ethical issues involving human and primate research subjects and provides this expertise to Janet Brody as a consultant on project ASSENT.

- Hyman Hops, Ph.D., a senior scientist at Oregon Research Institute, has served as a CFAR consultant since 1992. Dr Hops is an expert in the analysis of family interactions and has directed several longitudinal studies examining adolescent and family processes. He was instrumental in the design and analysis of the FIRS project. He also directs analysis of videotaped interactions for the DAYS and CEDAR projects. Dr. Hops is a co-investigator at CFAR and is the Principal Investigator at the Oregon site of the VISTA project.
- Charles W. Turner, Ph.D. is a full professor at the University of Utah. Dr. Turner, a methodologist, has participated in the development of experimental design and analysis approaches for a number of funded CFAR grant projects. He has also assisted in the creation of a structural model that outlines our conceptual framework for understanding the development and successful treatment of adolescent substance abuse. Dr. Turner further serves as a co-investigator on the VISTA project.

Significant Developments

CFAR has been functioning as a Category I Center at UNM, administered through the College of Arts and Sciences. This year, at the suggestion of the Dean and the Vice Provost for Research, an Application for Category II Center status was submitted, to recognize the CFAR's growth and expanded network of collaborators across campus and external to the University. The application was approved in February by the Deans of Arts and Sciences, Education and Medicine, and the Chairs of Psychology, Individual, Family and Community Education, and Pediatrics. The application, approved in March by the Research Policy Committee and in April by the Faculty Senate, is awaiting final approval by the University administration. However,

CFAR was granted its own organization code in April of 2001, reflecting its independent administrative status. With the approval of Category II status, Dr. Waldron, as CFAR Director, will report to the Vice Provost for Research.

The Center was engaged in four NIH-funded projects this academic year, listed in "Outside Sponsored Research," below. The CEDAR project, in year 3 of 5, has enrolled 90 of the 160 families for whom enrollment is projected. Recruitment, screening, assessment and treatment for this project continue. Adolescent participants have a diagnosis of alcohol abuse or dependence and are randomized to one of four treatment interventions, refined on the basis of experience in the DAYS project. Interventions are individual cognitive behavioral therapy, family therapy, a combination of individual and family therapy, and skills-based, peer-group therapy.

Enrollment, treatment and follow-up in the ASPEN project are complete, and outcome data are being analyzed in a final, no-cost extension year. ASPEN is a treatment-development project, designed to assess the efficacy of training for parents or other concerned adults in techniques for increasing their own level of functioning and encouraging treatment-resistant, substance-using adolescents to enter treatment. Seventy percent of the 44 adults participating in this pilot project successfully engaged their adolescents into treatment.

Two new projects were initiated this year. "Drug Use and HIV Risk: Treatment of Hispanic and Anglo Youth" (VISTA) is being conducted in coordination with a parallel study at the Oregon Research Institute. The project will evaluate treatment efficacy for adolescent substance-use disorders and HIV risk behavior across two interventions in Anglo and Hispanic subgroups. Cross-cultural comparison of outcomes is an important endpoint of the study, so hiring and training focused on ensuring bilingual administrative and clinical staff are available to

serve monolingual Spanish-speaking adolescents and families. Investigators and other key personnel have received training in cross-cultural issues from consultants Felipe Castro, Ph.D., and Manual Barrera, Ph.D., of Arizona State University. Translation of study instruments has been completed, using a process of translation, back-translation and de-centering by a team of native Spanish speakers from a number of different cultural traditions. To make sure the study is performed and data are gathered consistently across the two sites, staff at CFAR and ORI were trained identically by Dr. Waldron, and she confers regularly via e-mail and conference calls with the Project Coordinator and Co-Investigators at ORI. Recruitment, screening, assessment and treatment are underway. Fourteen of 180 families have been enrolled at CFAR.

Dr. Brody's "Barriers to Voluntary Assent in Asthma Youth Research" (ASSENT) is a 4-year study examining ethical issues related to the decision-making process in clinical trials. The study will examine investigator influence, family communication patterns and the perceived risk/benefit ratio for their effect on adolescents' consent to receive investigational treatment for asthma. A multidisciplinary team, including Drs. Brody, Waldron, and Gluck from Psychology, Robert Annett, Ph.D. and Elizabeth Perkett, M.D., from Pediatric Medicine, David Scherer, Ph.D., from Individual, Family and Community Education and Laura Roberts, M.D., from Psychiatry, are key personnel at UNM. Key personnel outside the University include a panel of nationally recognized expert consultants in research ethics, clinical trials design and pediatric pulmonary medicine. Pilot data collection for the study is complete, and instruments are being developed for use with participating families.

To accommodate new staff and clients, CFAR expanded its leased space to occupy all of Suite 200 in the building it shares with UNM Emergency Medical Services at 2700 Yale SE. The expansion increased available space from 3812 to 6279 feet and includes new offices for

research assistants and consultants, a conference room, and rooms for client assessments and therapy, equipped with video and audio recording equipment. Throughout, the new space has been furnished and configured to reflect input from client families, making the facility more accessible and comfortable for them. Considerable efforts have been made to provide adequate sound insulation to maintain confidentiality and privacy for clients.

Consistent with the additional space, new computer hardware was installed at the Center and the computer network expanded and reconfigured to keep pace with project demands. In addition, an advanced proprietary software program designed for providers of substance-use treatment has been installed at CFAR and ORI. The program, called Tracker, allows for computerized tracking of client and therapist appointments, collection of demographic and substance use data, and has a report function allowing full monitoring of critical project data on an ongoing basis. Use of common software at the New Mexico and Oregon sites for the VISTA project is expected to enhance consistency in protocol adherence, assessment, treatment, and data management. Another technological advancement implemented this year was the creation of the CFAR website at http://www.unm.edu/~cfar/.

Plans and Recommendations

A competing continuation application for expansion of the ASPEN project was recently approved for funding. The five-year continuation will enroll an additional 60 families and add post-treatment assessment of parents and adolescents 15 months after treatment initiation. A related application will be submitted October 1, for recruitment, screening, enrollment and treatment of 60 families in Portland, Oregon, by ORI staff trained for the VISTA project. On-site management will be provided by a CFAR-trained UNM graduate, while CFAR staff in Albuquerque will provide oversight, training, and data management. Two new proposals will be

submitted early in 2002. Dr. Waldron will be Principal Investigator for an R01 project comparing Family Functional Therapy to peer-group therapy for reduction of adolescent substance use and HIV-risk behaviors. Dr. Fernandez will be Principal Investigator for an R03 building on her dissertation research, to perform secondary analysis of a national database to elucidate risk and protective factors for dropout, delinquency and substance abuse in Hispanic high school students.

Aggressive recruitment will continue for the VISTA and CEDAR projects. Activities include regular contact with referral sources in the juvenile justice system, public schools, parent groups and other community agencies providing services to adolescents. For CEDAR, presentations to these groups will focus on increasing awareness that juvenile alcohol use has at least as damaging an impact on adolescents, families and society as use of other drugs. Additional referral sources will be identified, with a special focus on reaching monolingual Spanish-speaking families. Advertising in local media will be expanded to include public service announcements on radio, television and print media reaching the Spanish-speaking communities.

Appointments to Faculty and Staff

On July 1, 2000, CFAR staff included:

Faculty: Holly B. Waldron, Ph.D., Associate Professor and Director; Janet L. Brody, Ph.D., Research Assistant Professor and Clinical Director; Bob Meyers, M.S., Visiting Research Lecturer II and Associate Director.

Staff: Betsy Morrison, Program Manager, Theresa López, Administrative Assistant I, Michele Reed, Administrative Assistant II, Sheryl Kern-Jones, Ph.D., Research Scientist III, Melody Pearson-Bish, Research Scientist I, Research Scientist III, and Mike Ridder, M.S., Staff Therapist

New faculty with funded effort on CFAR grants:

1/1/01, David Scherer, Ph.D., CFAR Clinical Supervisor for VISTA and CEDAR, ASSENT Co-Investigator and Associate Professor of Family, Individual and Community Education

3/1/01, Robert Annett, Ph.D., ASSENT Co-Investigator and Associate Professor of Pediatrics

5/1/01 Elizabeth Perkett, M.D., ASSENT Consultant and Associate Professor of Pediatrics.

New staff:

7/10/00, Joyce Bittinger, Research Scientist I; 8/1/00, Isabel Villarreal, Research Scientist I; 9/4/00, Vanessa López Viets, Ph.D., Research Scientist III (changed from graduate research assistant); 10/01/01, Jessica Odell Fenton, Research Assistant; 10/1/00, Vivian Fernández, Research Scientist III (changed from graduate research assistant);12/22/00, Candon Sadler, Research Scientist I. Theresa. López was upgraded to Program Coordinator 12/1/00.

Graduate Research Assistants: Alfredo Aragon, Timothy Apodaca, Ana Bisonó, Keri Bolton Oetzell, Meg Curtin, Sara DeVault, Vivian Fernández, Sharon Flicker, Paty Juarez, Vanessa López Viets, Melody Pearson-Bish, Tom Peterson, Dan Squires and Lorraine Torres-Sena .

Undergraduate Student Employees: Elizabeth (Stormy) Stogner, Data Entry Clerk, and Angela López, Office Assistant..

Separations of Faculty and Staff

8/21/00, Melody Pearson-Bish (changed to graduate research assistant); 10/8/00, Joyce Bittinger; 12/31/00, Robert Meyers, M.S.; 12/31/00, Vanessa López Viets, Ph.D.; 12/31/00, Mike Ridder; 3/31/01 Michele Reed.

Publications

Waldron, H. B., Brody, J. L., & Slesnick, N. (2001). Integrated behavioral and family therapy for adolescent substance abuse, In P.M. Monti, S. M. Colby, and T. A. O'Leary (Eds.)

Adolescence. Acohol and Substance Abuse: Reaching Teens Through Brief Interventions. New York, Guilford.

Wagner, E.F. & **Waldron, H.B.** (Eds.) (2001) Innovations in Adolescent Substance Abuse Interventions. New York, Elsevier.

Wagner, E., **Waldron, H.**, & Feder, H.B. (2001) Alcohol and Drug Abuse, In H. Orvaschel, J. Faust, and M. Hersen (Eds.) Handbook of Conceptualization and Treatment of Child Psychopathology. New York, Elsevier.

Manuscripts and abstracts in press

Roberts, L.W., Warner, T., **Brody, J. L.**, Monaghan, P., Smrka, J., Nguyen, K., Kaminsky, A., Battaglia, J., Brems, M., Johnson, M.. & Speier, T. (in press). Challenges in caring for people with serious illnesses in Alaska and New Mexico. Arctic Research in the United States.

Waldron, H. B., Slesnick, N., **Brody, J. L.**, Turner, C. W., & **Peterson, T. R.** (2001). Treatment Outcomes for Adolescent Substance Abuse at 4 and 7 Month Assessments. Journal of Consulting and Clinical Psychology, 69.

Roberts, L.W. Geppert, C. A., & **Brody, J. L.** (in press). A framework for considering the ethical aspects of psychiatric research protocols, Comprehensive Psychiatry.

Annett, R. D., **Waldron, H. B.**, & Snyder, R. D. (In press). Headaches and somatic symptoms: Agreement between adolescents and parents. Pediatric Research.

Waldron, H. B., Miller, W. R., & Tonigan, J. S. (In press). Client anger as a predictor of differential response to treatment. In R. Longabaugh (Ed.), Client treatment matching. National Institute on Alcohol Abuse and Alcoholism Research Monograph. Rockville, MD: National Institutes of Health.

Outside Professional Activities

Presentations

Waldron, Holly B. (2000, July) Treatment outcomes for Hispanic and Anglo substance-abusing adolescents. Invited address, Institute of Addictions Studies 2000 Summer Institute, Portland, Oregon.

Peterson, T. R., & Waldron, H. B. (2000, August) Factor structure of the Parent-Child Areas of Change Questionnaire. Poster presented at the annual meeting of the American Psychological Association, Washington, D.C.

Waldron, H. B., Turner, C. W., **Brody, J. L., & Peterson, T. R.**. (2000, August) Family therapy for adolescent substance abuse: 4-, 7-, and 18-month outcomes. Paper presented at the annual meeting of the American Psychological Association, Washington, D.C.

Waldron, Holly B. (2000, September) Symposium, Treatment Outcomes for Adolescent Substance Abuse, International Conference on Treatment of Addictive Behaviors, Capetown, South Africa.

Yahne, Carolina, Colby, Suzanne, Grills, Cheryl, Handmaker, Nancy, **Waldron, Holly.** (2000, September) Roundtable Conversation, Women and Health Across the Lifespan: Application of Motivational Interviewing. International Conference on Treatment of Addictive Behaviors, Capetown, South Africa.

Apodaca, Timothy R. & Waldron, Holly B. (2000, September) Adolescent alcohol use and risk-taking behavior as mediated by expectancies. Poster presented at the International Conference on Treatment of Addictive Behaviors, Capetown, South Africa.

Meyers, Robert J. , Waldron, Holly B., Apodaca, Timothy & Squires, Daniel. (2000, September) Engaging resistant adolescents into substance abuse treatment. Paper presented at the International Conference on Treatment of Addictive Behaviors, Capetown, South Africa.

Waldron, Holly Barrett, Turner, Charles W., **Brody, Janet L. & Peterson, Thomas R.** (2000, September) Family therapy for adolescent substance abuse: 4-, 7-, and 18-month outcomes. Paper presented at the International Conference on Treatment of Addictive Behaviors, Capetown, South Africa.

Apodaca, Timothy R. & Waldron, Holly B. (2000, September) Longitudinal change in risk factors for adolescent substance abusers. Paper presented at International Conference on Treatment of Addictive Behaviors, Capetown, South Africa.

Waldron, H. B. (2001, October). Treatments for Adolescent Substance Use Disorders: 4-, 7-, and 18-month outcomes. Invited address at the Adolescent Substance Abuse Treatment Research Conference, Key Biscayne, Florida.

Scherer, D. G. (2000, October) Raising a healthy adolescent. Presented to Sandia Laboratories, Albuquerque, New Mexico.

Flicker, S. M., Kern-Jones, S., Peterson, T. R., & Waldron, H. B. (2000, November) The relationship between ethnicity and acculturation and adolescents adolescent perceptions of the parent-child relationships. Poster presented at the Annual Meeting of the Association for Advancement of Behavior Therapy, Washington, D. C.

Flicker, S. M., Waldron, H. B., & Gangestad, S. W. (2000, November) Pathways between marital adjustment, parental behaviors, and adolescent adjustment. Poster presented at the Annual Meeting of the Association for Advancement of Behavior Therapy, Washington, D. C.

Kern-Jones, S., Flicker, S. M., & Waldron, H. B. (2000, November) Ethnicity and agreement between family members' perceptions of the family environment. Poster presented at the Annual Meeting of the Association for Advancement of Behavior Therapy, Washington, D. C. **Kern-Jones, S., & Waldron, H. B.** (2000, November) Drug use, HIV-risk behavior, and driving under the influence: Risk behavior in adolescents seeking substance abuse treatment. Poster presented at the Annual Meeting of the Association for Advancement of Behavior Therapy, Washington, D. C.

Pearson-Bish, M., Waldron, H. B., Pearson-Bish, J., Kern-Jones, S., & Brody, J. L. (2000, November) Predictors of duration of treatment in adolescent substance abuse treatment. Poster presented at the Annual Meeting of the Association for Advancement of Behavior Therapy, Washington, D. C.

Peterson, T. R., & Waldron, H. B. (2000, November). The Parent Child Areas of Change Questionnaire: A factor analysis. Poster presented at the Annual Meeting of the Association for Advancement of Behavior Therapy, Washington, D. C.

Brody, Janet. (2000, December) Clinical Research undergraduate course (for Dr. Jane Smith). "Ethical principles in conduct of human research."

Brody, Janet. (2001, January) Medical Student Seminar, UNM School of Medicine (for Dr. Laura Roberts)- "Clinical research and informed consent with mentally and physically ill patients."

Waldron, H. B.. (2001, February) Treatments for adolescent substance use disorders: 4-, 7-, and 18-month outcomes. Invited address at the Adolescent Substance Abuse Treatment Research Conference, Key Biscayne, Florida.

Waldron, Holly B., Kern-Jones, Sheryl, Turner, Charles W. & **Brody, Janet L.** (2001, April) Adolescent substance abuse and depression: Comorbidity and treatment outcomes. Poster presented at Society for Research in Child Development, Minneapolis.

Scherer, D. G. (2001, June) New developments in the ethics of human research participation: What a family researcher needs to know. Presented at the 3rd Annual Summer Institute Family Research Consortium III, "Public Policy, Socioeconomic Disadvantage, and Child Development," Lake Tahoe, Nevada.

Workshops

Waldron, Holly B. (2000, July) Integrative Behavioral and Family Therapy.. Institute of Addictions Studies 2000 Summer Institute, Portland, Oregon.

Waldron, Holly B. (2001, February) Cognitive-behavioral Therapy for Adolescent Substance Abuse. University of Colorado Department of Psychiatry, Denver, Colorado.

Editorial appointments

Dr. Waldron is a reviewer for:

Journal of Consulting and Clinical Psychology

Journal of Child Clinical Psychology

Journal of Abnormal Child Psychology

Clinical Child and Family Psychology Review

Journal of Adolescent Substance Abuse

Dr. Brody is a reviewer for

Biological Psychiatry

Journal of Child Clinical Psychology

Outside Sponsored Research

Title: Efficacy of Treatments for Adolescent Problem Drinking (CEDAR)

Principal Investigator: Holly Barrett Waldron, Ph.D.

Sponsor: DHHS/PHS/NIH/NIAAA

Amount: $1,938,703 total costs

Duration: October 1, 1998-August 31, 2003

The purpose of this study is to evaluate outcomes for adolescent problem drinkers treated in one of four approaches to reduce alcohol use: individual cognitive-behavioral therapy, family therapy, a combination of individual and family therapy, and skills-focused psycho-education group therapy. Treatments and study techniques were refined from experience in the DAYS project.

Title: Engaging Resistant Adolescent Substance Abusers in Treatment (ASPEN)

Principal Investigator: Holly Barrett Waldron, Ph.D.

Sponsor: DHHS/PHS/NIH/NIDA

Amount: $1,203,918 total costs

Duration: June 1, 1999-June 30, 2002

The purpose of this study is to develop and assess an intervention approach for parents of adolescents with substance-use disorders. In Phase I, parents received training in Community Reinforcement and Family Therapy techniques (CRAFT) to enhance their own level of functioning, facilitate their adolescents' entry into treatment and improve family functioning. In Phase II, adolescents received individual therapy with the goal of reducing substance use.

Title: Engaging Resistant Adolescent Substance Abusers in Treatment (ASPEN II)

Principal Investigator: Holly Barrett Waldron, Ph.D.

Sponsor: DHHS/PHS/NIH/NIDA

Amount: $1,449,916 total costs

Duration: Approximate dates 10/1/01-9/30/06 (funded, award pending)

The purpose of this study is to adapt and refine the intervention approach developed in the original ASPEN study, above. Sixty additional families will be enrolled and treated. The extended study will include an additional follow-up assessment 15 months after treatment initiation for families in the initial sample as well as the extended sample.

Title: Drug Use and HIV Risk: Treatment for Hispanic and Anglo Youth (VISTA)

Principal Investigator: Holly Barrett Waldron, Ph.D.

Sponsor: DHHS/PHS/NIH/NIDA

Amount: $2,447,144 total costs, plus $51,991 total costs for subcontract covering training and supervision of staff at ORI

Duration: September 1, 2000 to May 31, 2005

The major goal of this project is to study cross-cultural issues in a comparison of two treatments to reduce adolescent substance use and HIV-risk behaviors. The two treatments are individual cognitive-behavioral therapy (CBT) and family functioning therapy integrated with CBT (IBFT). The project is also being conducted at ORI and will provide data on outcome differences among Anglo families, "native" New Mexican Hispanic families and recently immigrated Hispanic families.

Title: Drug Use and HIV Risk: Treatment for Hispanic and Anglo Youth (VISTA subcontract)

Principal Investigator: Hyman Hops, Ph.D., Oregon Research Institute (ORI)

Sponsor: DHHS/PHS/NIH/NIDA

Amount: $51,991 total costs to CFAR

Duration: September 1, 2000 to May 31, 2005

This subcontract covers training and supervisory services by Holly Waldron for VISTA project staff at ORI.

Title: Barriers to Voluntary Assent in Asthma Youth Research (ASSENT)

Principal Investigator: Janet Brody, Ph.D.

Sponsor: DHHS/PHS/NIH/NHLRBI

Amount: $1,150,726

Duration: April 5, 2001 to February 28, 2005

The goal of this project is to examine three factors, family, the clinical investigator, and research risk/benefit, as they influence the ability of adolescents to provide voluntary consent to participate in clinical trials of investigative treatments for asthma.

College of Arts and Sciences

Department of Sociology

July 1, 2000 - June 30, 2001

Susan Tiano, Chair

I am pleased to submit this report covering the first year of my term as department chair. The 2000/01 academic year witnessed several important developments with respect to our faculty and students.

A. Significant Achievements

Among the accomplishments of the Sociology Department in 2000/01, there are several of which we are especially proud.

Perhaps our most important achievement was the successful completion of two Assistant Professor searches. Nancy Lopez, a graduate of City University of New York, is a specialist in race and ethnicity who will also contribute to our offerings in the sociology of gender and the sociology of education. Tim Wadsworth, a recent graduate of the University of Washington, will augment our expertise in criminology and methodology. Both are exciting young scholars who will enrich our faculty. Their appointments begin August, 2001.

We are also extremely proud of the external funding secured by Sociology faculty. Among them, Professors Lisa Broidy, Phil May, Gil Merkx, Ray Liedka, Paul Steele, and Bert Useem generated $3,322,879 for the 2000-01 academic year. The granting agencies included the National Institute of Justice (NIJ), the Hewlett Foundation, The National Institute of Mental Health (NIMH), and the Guggenheim Foundation. More specific information about these research endeavors is listed below.

The 2000-01 academic year also witnessed various professional accomplishments of Sociology graduate students. To facilitate such activity, the department recently implemented two incentives— allowing students to substitute a sole-authored journal article for the departmental requirement of a Master's thesis, and providing travel funds for students giving papers at professional meetings. Betsy Erbaugh's article, "Women's Community Organizing and Identity Transformation," forthcoming in *Race, Gender, and Class*, enabled her to satisfy her thesis requirement. Ph.D. candidates Jerry Daday, Charles Clark, Wayne Pitts, Aki Roberts, and Lora Stone also authored or co-authored papers published or accepted for publication during the academic year. In addition, twelve students (Jason Ben-Meir, Jerry Daday, Betsy Erbaugh, Ethel Gamboa, Marjorie Hudson, Gwen Hunnicutt, Wayne Pitts, Aki Roberts, Kerry Scott, Lora Stone, Gloria Vaquera, and Warren Wylupski) presented papers at national or regional sociology meetings during the period.

The Sociology Convocation was held in Woodward Hall on Saturday, May 12th at 3:30 p.m. A total of 38 undergraduates, 20 sociology majors and 18 criminology majors, received Bachelor of Arts degrees from the Department of Sociology. An estimated 600 persons were in attendance including family and friends. This year, the Department heard presentations from one Sociology graduating senior, Billy Ulibarrí, and one graduating doctoral student, Tassy Parker. In addition, the Department recognized the accomplishments of twenty-one graduating seniors with grade point averages above 3.00: Joaquín Tobías Argüello De Jesús, Erin Shannon Averill Kay, Matthew J. Busich, Nathan W. Duckett, Norma J. Faries, Shae G. Fiol, Kelly Michelle Guscott, Erin Lane-McCarthy, Cynthia D. Lucero, Edward Chapa Madrid, Joseph James Martin, Laura J. Myers, Lucinda Nakai, April Junelle Reese, Filiberto Sigala, Joanne Patricia Simmonds, Melinda Christina Terrazas, Christopher Martin Tsosie, Billy James Ulibarrí, Lindsay Fay Van Meter, and Joanne M. Villa. Master of Arts degrees were awarded to Elizabeth Erbaugh, Roy Johnson, and Colin Olson. Doctor of Philosophy degrees were recognized for Summer 2001 graduates Tassy Parker, Aki Roberts, and Pauline Spaulding.

Additional achievements during the academic year include:

- Restructuring the curriculum for the departmental honors program, a highlight of which was students' attendance at the Pacific Sociological Associate meetings, where they attended sessions related to their thesis topics

- Formulating a 5-year plan for ITV offerings, including a spring 2001 course enrolling 16 students at scattered sites

- Transforming the department's McGee Award to provide scholarship support to sociology and criminology majors (recipients of this year's award include Brandon Cummings, Erin Parker-Rich, and Leslie Tims)

- Formulating and implementing sociology curricula for the College Enrichment Program (CEP)

- Developing a permanent new course, Sociology 491, to promote independent study and internship placements for criminology majors; and offering five new temporary courses ("Drugs and Society," "Theory and Political Culture," "Work, Technology, and American Culture," "Writing in the Social Sciences," and "Mathematical Skills for Sociologists")

- Revising and expanding the departmental web site to serve as a recruiting tool for undergraduate and graduate students

- Teaching students in the graduate research methods course (Sociology 580, taught by Professor Jane Hood) the value of community service-oriented research by linking them with an APS elementary school, for which they undertook research and provided a 20-page final report on children's perceptions about playground safety

- Providing an institutional venue for undergraduate Sociology/Criminology Club (UNMSCC) members to volunteer with Project Share and other Albuquerque non-profit organizations

- Achieving "Career Ladder" promotions for staff members Karen Majors to Administrative Assistant III and Jennifer Marshall to Academic Advisor

B. List of Faculty Publications, Outside Professional Activities, Sponsored Research

Dodd H. Bogart

Outside Professional Activities

Chaired Faculty Senate Budget Committee

UNM Institutional Review Board

Lisa Broidy

Publications

Broidy, Lisa M. 2000. "Age and Deviance." In *Encyclopedia of Criminology and Deviant Behavior*. Edited by C. D. Bryant. Philadelphia: Taylor & Francis.

-----. 2001. "An Empirical Test of General Strain Theory." *Criminology* 39:9-36.

Bushway, Shawn, Alex Piquero, Lisa M. Broidy, Paul Mazerolle, and Elizabeth Cauffman. 2001. "An Empirical Framework for Studying Desistance as a Process." *Criminology* 39:491-516.

Steffensmeier, Darrell and Lisa M. Broidy. 2001. "Explaining Female Offending." In *Women, Crime, and Criminal Justice: Contemporary Issues*. Edited by Claire Renzetti and Lynne Goodstein. Los Angeles: Roxbury Press.

Outside Professional Activities

Interviewed for an article on adolescent aggression and delinquency that appeared in the *Albuquerque Journal* on Monday, August 28, 2000.

Presented co-authored paper at MMPI symposium, Minneapolis MN. "A Cluster-Analytic Investigation of MMPI Profiles of Serious Male and Female Juvenile Offenders."

Nov. 2000. Panel Discussant. "Gender, Race, and General Strain Theory." American Society of Criminology Meetings. San Francisco.

Invited guest to June 2000 Consortium on Violence Research. Summer conference.

April 2000. Attended meeting of John D. and Catherine T. Mac Arthur Foundation Network on Adolescent Development and Juvenile Justice. Phoenix, AZ.

June 2000. Same, but Vancouver, Canada.

Sept. 2000. Meeting of Society for Professionals in Dispute Resolution. Albuquerque.

Volunteer Mediator: Bernalillo County Metro Court Mediation Program.

Sponsored Research

Paul Steele, Principal Investigator and Lisa M. Broidy, Co-Principal Investigator. January 1, 2001 - December 31, 2002. Strategic Approaches to Community Safety Initiative (SACSI) - Albuquerque. National Institute of Justice. $229,993.

Lisa M. Broidy, Principal Investigator and Elizabeth Cauffman, Co-Principal Investigator. Understanding the Female Offender. Grant Submitted to the National Institute of Justice, January 2001; funded July 2001.

Beverly H. Burris

Publications

Burris, Beverly. 2000. "On Line and On Paper, A Review." *Contemporary Sociology* 30(1).

Burris, Beverly with Gerhard Daday. 2001. "Technocratic Teamwork." In *Remaking Work Organizations*. Edited by S. Vallas. Elseview Publishers.

Outside Professional Activities

Presented paper "Technocratic Teamwork" at ASA Meeting, August 2000. Washington, DC.

UNM talk "The Privatization of the Public University" April 2000

UNM talk " The Privatization of the University and the Decline of the Professoriat" Oct. 2000

Member UNM Faculty Organizing Steering Committee

Member Board of Directors First Unitarian Church

Richard M. Coughlin

Publications

Coughlin, Richard M. 2000. "Convergence Theories." Pp. 422-31 in *Encyclopedia of Sociology*. Edited by Edgar F. Borgatta and Marie L. Borgatta. McMillan.

Coughlin, Richard M. 2000. "Beyond Redistribution: Binary Economics and the Reform of Social Security." Occasional Paper, the Kelso Institute for the Study of Social Economic Systems. San Francisco: Kelso Institute.

Outside Professional Activities

Member of Executive Council, Society for the Advancement of Socio-economics

Lecture to League of Women Voters, Los Alamos, NM

Robert A. Fiala

Publications

Fiala, Robert. 2000. "Postindustrial Society." Pp. 2195-2205 in *Encyclopedia of Sociology* Second Edition. Edited by Edgar F. Borgatta and Rhonda J.V. Montgomery. New York, New York: Macmillan Reference USA.

-----. 2000. "Sociology of Education." In *Teaching Sociology of Education: Syllabi and Instructional Materials* 5th Edition. Edited by Jeanne Ballantine, Jeffrey C. Dixon, Floyd Morgan Hammack, Edith King, Caroline Hodges Persell, and Theodore C. Wagenarr. Washington, D.C.: ASA Publications.

Outside Professional Activities

Presented paper "Post-Industrial Trends in Individuated Sports." Pacific Sociological Association. San Diego,CA

Discussant, "State of Development" ASA. Washington D.C.

Presider, session on "Development in World Economy" ASA. Washington D.C.

Felipe Gonzales

Publications

Gonzales, Phillip B. 2000. "El Jefe: Bronson Cutting and the Politics of Hispano Interests in New Mexico." *Aztlan* 25(Fall):67-108.

—. 2000. "La Junta de Indignacion: Hispano Repertoire of Collective Protest in New Mexico, 1884-1933." *The Western Historical Quarterly* 31(Summer):161-186.

Outside Professional Activities

Panel moderator IV Coloquio Internacional Universidad Autonoma de Baja California, Sur. Feb. 2000.

Paper presented "Ethnopolitical Constellation: The Organization of Hispanic Political Ethnicity in Northern New Mexico" ASA Washington DC. Aug. 2000.

Jane C. Hood

Publications

Hood, Jane. 2000. "Case Study Analysis." P. 73 in *Encyclopedia of Feminist Theories*. Edited by Lorraine Code. New York, NY: Routledge.

—. 2000. "Cult of Domesticity." Pp.143-144 in *Encyclopedia of Feminist Theories*. Edited by Lorraine Code. New York, NY: Routledge.

—. 2000. "Review of *Gender Vertigo* by Barbara Risman." *Gender & Society* 14(February):213-214.

Outside Professional Activities

Vice-president, The Society for Study of Social Problems

Member selection committee SWS Jessie Bernard Graduate student paper award

Organizer/presenter workshop on qualitative methods. Pacific Sociological Association. San Diego

Miguel E. Korzeniewicz

Publications

Korzeniewicz, Miguel. 2000. "Commodity Chains and Marketing Strategies: Nike and the Global Athletic Footwear Industry." In *Globalization Reader*. Edited by Frank J. Lechner and John Boli. Oxford: Blackwell Publishers.

Raymond V. Liedka

Outside Professional Activities

Managed and maintained the METHODS-L national e-mail discussion list for social science methodology.

University Representative to ICPSR

Sponsored Research

Useem, Bert, Anne Morrison Piehl, and Raymond V. Liedka. "Prisons and Crime Control." National Science Foundation. April 1999-March 2001, $148,079.

Useem, Bert, Anne Morrison Piehl, and Raymond V. Liedka. "Cross-National Study of Prisons and Crime Control." Harry Frank Guggenheim Foundation. January 2000-December 2000, $27,197.

Phillip A. May

Publications

Berman, Matthew, Teresa Hull, and Philip A. May. 2000. "Alcohol Control and Injury Death in Alaska Native Communities: Wet, Damp, and Dry Under Alaska's Local Option Law." *Journal of Studies on Alcohol* 61(2):311-319.

May, Philip A. 2000. "Issues in Fetal Alcohol Syndrome Prevention." Pp. 323-338 in *NIAA Tenth Spectial Report to Congress, on Alcohol and Health*. Washington, D.C.: Department of Health and Human Services.

May, Philip A., Lesley Brooke, J. Phillip Gossage, Julie Croxford, Colleen Adnams, Kenneth L. Jones, Luther Robinson, and Denis Viljoen. 2000. "The Epidemiology of Fetal Alcohol Syndrome in a South African Community in the Western Cape Province." *American Journal of Public Health* 90(12):1905-1912.

Outside Professional Activities

Co-Director, UNM Center on Alcoholism, Substance Abuse, and Addictions (CASAA), July 2000 - present

Member - CASAA Executive Committee, July 2000 - present

Program Director, New Mexico Access to Research Careers, Honors Undergraduate Training Program in Mental Health Research. Trained 11 students

Lecture to first year medical students on Fetal Alcohol Syndrome. March 2000

Together with Paul Amrhein of Psychology, prepared and accompanied 11 students to the National Institute of Mental Health National Career Opportunities in Research conference, Washington D.C. Nov. 2000

Member National Academy of Sciences, National Research Council, Institute of Medicine, Committee on "Pathophysiology and Prevention of Adolescent and Adult Suicide"

Member ASA, American Public Health Association, Population Reference Bureau, College on Problems of Drug Dependence and Research on Alcoholism

Research Associate, American Indian and Alaska Native Mental Health Research Center. Univ. of Colorado, Health Sciences Center

Baccalaureate address, Catawba College, Salisbury NM, May 2000

Advisory Committee, Robert Wood Johnson Foundation, Healthy Nations Program

Proposal Reviewer and review sessions chairman NIMH

Proposal reviewer, Robert Wood Johnson Foundation, Alcohol Policy Research Initiative, Wake Forest University

Public Presentations and Papers Delivered at Professional Meetings

July 1-3rd - International Society for the Biomedical Research on Alcoholism, Yokohama, Japan. Presenter "Epidemiological Research on FAS in the U.S." and "Maternal Risk Factors for FAS in the Western Cape Province of South Africa."

July 10th-14th - Turtle Mountain FAS Clinic, Belcourt, S.D. Participant in the diagnosis of FAS children and case conferences.

August 7th-11th - Cheyenne River FAS Clinic, Eagle Butte, S.D. Participant in the diagnostic clinic for FAS children and case conferences.

September 6th-7th - U.S. Dept. of Justice Conference, Washington, D.C. Presenter "Patterns of Alcohol Abuse and Use among Plains Indians and Implications for Crime." (With J.P. Gossage).

September 14th-29th - Field Research, South Africa, Wellington and Cape Town, South Africa with team of colleagues.

October 9th-11th - Flathead FAS Clinic, St. Ignatius, MT. Participant in the diagnostic clinic for FAS children and case conference.

October 12th-13th - NIAAA advisory panel participant. Bethesda, MD. Served as an advisor for the topic "Beyond the Categories: Defining diversity for Research Beyond the Standard Categories of Race and Social Class."

November 13th-14th - APHA, Boston, MA. Presenter "Analysis of Alcohol Consumption Patterns and Alcohol-Related Problems within Four American Indian Communities." (With J.P. Gossage and J. Scott Tonigan).

November 16th -19th - COR Conference, Washington, D.C. Supervisor for eleven honors students at the NIMH national research colloquium for Career Opportunities in Research.

December 4th-5th - Tribal Council presentation at Ft. Belknap, MT. Presented the results of the Study of Alcohol Abuse among Plains Indians and plans for future research at Ft. Belknap.

December 7th-8th - Tribal Council Presentation at Flathead, MT. Presented the results of Epidemiology Survey of Drinking Practices on the Flathead Reservation and plans for prevention of FAS there.

Sponsored Research

NIMH, $1,120,629. "A Research Career Program for New Mexico Minorities," July 2000 - June, 2005. FY 2000 = $229,107.

University of New Mexico, $120,000. "Supplement (from Associate Provost for Research and Arts and Sciences) to the New Mexico Access to Research Careers Program," July, 2000 - June, 2005. FY 2000 = $26,000.

NIAAA, $102,382. "The Epidemiology of FAS in Wellington, South Africa, Phase II: Preparation for Further Studies in Biomarkers and Genetics. Grant Supplement. December, 1998 - December 1999. FY 1999 - 2000 = $102,382. Completed Fall 2000.

NIAAA, $5,849,184. "A Trial of FAS Prevention in American Indian Communities." October 1, 1998 - September 30, 2003. FY 2000 = $1,053,070.

State of New Mexico, Department of Health, $400,000. Fetal Alcohol Syndrome Prevention in New Mexico: Statewide Coordination. July 1, 2000 - June 30, 2004. FY 2000 = $85,000.

NIAAA, $1,125,974. "FAS Epidemiology Research in Washington D.C." October, 1999 - September, 2003. FY 2000 = $375,000.

NIJ (National Institute of Justice), $201,621. "A Pilot Study Regarding the Relationship of Crime and Substance Abuse." September 30, 1999 - March 31, 2001. FY 2000 = $157,487.

NIAAA, $2,400,000 (UNM share = $913,846). "Alcohol Server Education as a FAS Prevention Model." September 1999 - September 2004. FY 2000 = $219,409 (Joint award to the Oregon Research Institute, Jack Dresser, Ph.D., Co-Principal Investigator).

Robert Wood Johnson Foundation, $271,123. "Healthy Nations Initiative Evaluation." November, 2000 - August, 2002. FY 2000 = $170,000.

John M. Roberts, Jr.

Publications

Brewer, D. D., J. J. Potterat, S. B. Garrett, S. Q. Muth, J. M. Roberts, Jr., D. Kasprzyk, D. E. Montano, and W. W. Darrow. 2000. "Prostitution and the Sex Discrepancy in Reported Number of Sexual Partners." *Proceedings of the National Academy of Sciences* 97:12385-12388.

Roberts, J. M., Jr. 2000. "Simple Methods for Simulating Sociomatrices with Given Marginal Totals." *Social Networks* (22):273-283.

-----. 2000. "Correspondence Analysis of Two Mode Network Data." *Social Networks* (22):65-72.

Outside Professional Activities

Paper presented "Applying Methods for Simulating Network Data with Given Marginal Totals." International Network for Social Network Analysis. Vancouver.

Paper presented "Connections Between Early Endogamy Models and Later Developments in Log-linear Models." A. K. Romney Festchrift, meeting of Society for Cross-Cultural Research. New Orleans.

Paul Steele

Outside Professional Activities

Paper presented "Assessment of the EQUIP Model Implementation at the New Mexico Diagnostic and Development Center." Bureau of Justice Statistics/Justice Research and Statistics Association Annual Conference. Minneapolis, MN Nov. 2000.

Paper presented "The Modern Alcoholism Movement and the Workplace: Institutional and Extra Institutional Influences on the Management and Labor's Response to Troubled Workers." Symposium on Workplace Substance Abuse. R. Brinkley Smithers Institute for Alcohol Related Workplace Studies. New York. Oct. 2000.

Paper presented "Building Sustainable Research Partnerships." Justice Research and Statistics Association Regional Training Sessions. San Diego. July 2000.

Paper presented "Assessing the Performance of Small Programs." Justice Research and Statistics Association Regional Training Sessions. San Diego. July 2000.

Paper presented "Issues in the Selection and Interaction with Program Evaluators." Annual National Institute of Justice Conference on Research and Evaluation. July 2000.

Paper presented "The Role of Children's Advocacy Centers and Multi- Disciplinary Teams in the Prosecution of Child Sexual Abuse Cases." International Conference on the Victimization of Children and Youth. Durham, NE. June 2000.

Paper presented "Local Monitoring and Assessment of Children' s Advocacy Centers, Multi-Disciplinary Teams and Intervention Programs." Sixteenth Annual National Symposium on Child Sexual Abuse. Huntsville. AL. March 2000.

Sponsored Research

Paul Steele, Principal Investigator and Lisa M. Broidy, Co-Principal Investigator. January 1, 2001 - December 31, 2002. Strategic Approaches to Community Safety Initiative (SACSI) - Albuquerque. National Institute of Justice. $229,993.

Susan B. Tiano

Outside Professional Activities

Organizer of 3 sessions on "Sociology of Development" ASA meetings. Aug. 2000 Washington D.C.

Member UNM Institutional Review Board

Member Provost's Task Force on "Globalization"

Member Provost's Planning Working Group on "Academic Climate"

Bert Useem

Publications

Useem, Bert. 2000. "Reinventing the Federal Emergency Management Agency: Gains and Limits of the Newest 'New Federalism.'" Pp. 129-144 in *Entrepreneurial Management and Public Policy.* Edited by Van R. Johnston. Huntington, NY: Nova Science Publishers.

Outside Professional Activities

Director, Institute for Social Research

Paper presented, with Jack Goldstone, "Prison Riots and Social Order: Administration, Prediction and Control" American Society of Criminology. Nov. 2000

Sponsored Research

Completed:
Useem, Bert, Anne M. Piehl, and Raymond V. Liedka. National Institute of Justice, U.S. Department of Justice. "Prisons and Crime Control" $21,555. 1998-2000. Start date: January 1, 1999, 9 months. Final report submitted.

In Progress:
Useem, Bert, Anne M. Piehl, and Raymond V. Liedka. "Prisons and Crime Control." National Science Foundation. April 1999-March 2001, $148,079. Start date: April 1999, 24 months.

Useem, Bert, Anne M. Piehl, and Raymond V. Liedka. "Cross-National Study of Prisons and Crime Control." Harry Frank Guggenheim Foundation. January 2000-December 2000, $27,197. Start date: January 2000, 12 months.

Nelson P. Valdés

Publications

Valdés, Nelson [with Mario A. Rivera]. 2000. "The Political Economy of the Internet in Cuba." *Association for the Study of the Cuban Economy (ASCE) Proceedings* 9:141-154.

Valdés, Nelson. 2001 "Fidel Castro, Carisma and Santería: Max Weber Revisited." In *Caribbean Charisma: Legitimacy and Political Leadership in the Era of Independence*. Edited by Anton Allahar. Ottawa, Canada: Ian Randle Publisher.

-----. 2001. "The Political Succession Question in Cuba: Review of the Literature and Projections." In *Cuba in the 21st Century*. Edited by Max Azicri. Lynne Reinner.

-----. 2000. "Milagros, Delfines, Orishás y la Derecha Cubano-Americana: la Significacíon de Elián González." *Nueva Sociedad* (168):14-23.

Outside Professional Activities

Member of the University-wide AFT Committee, 2000-2001

Member of the Policy Committee, Latin American and Iberian Institute, UNM

Director of Cuba-L Direct, a listserver that distributes an average of 40 news items and reports on a daily basis

Lecturer on Leadership and Public Administration, sponsored by LAII-OITEC and the Colombian Association of Public Administration, November 2000 (UNM)

Paper presented "Charisma, Revolution and Popular Religiosity in Cuba: Max Weber Revisited" Caribbean Studies Association, Sta Lucia, Lesser Antilles, May 2000

Served on Jury for National Social Science Award given by Cuban Ministry of Culture and journal TEMAS. Havana, June 2000

Member editorial board of journal TEMAS. The leading humanities and social science journal in Cuba

Sponsored Research

Research on Impact of the Internet in the Economy, Society and Culture of Cuba. Ford Foundation grant of $4,000 to the Cuba Research & Analysis Group (non profit organization) in Albuquerque, NM.

Richard L. Wood

Publications

Warren, Mark R. and Richard L. Wood. 2000. *Faith-Based Community Organizing: the State of the Field.* Jericho, New York: Interfaith Funders.

Wood, Richard L. 2000. "Religion and Politics." In *Religion in American Culture and Beyond: Anthology of Readings in Sociology of Religion and Religious Studies*. Saddle River, NJ: Prentice Hall.

-----. 2000. "Review of *China's Catholics: Tragedy and Hope in and Emerging Civil Society* by Richard Madsen." *American Journal of Sociology* 105(July):7.

Outside Professional Activities

Interviewed for an article on community policing that appeared in the UNM Daily Lobo on Friday, March 2, 2001

Sponsored Research

Richard Wood, PI, "Organizational Change in Policing," U.S. Department of Justice, September 2000 - July 2001, $22,500.

C. Graduate Program

Awarded Doctoral Dissertations & Master's Theses
Sociology Department/Summer 2000, Fall 2000, Spring 2001

Author	Title
Elizabeth Erbaugh, M.A.	Women's Community Organizing and Identity Transformation: Low Income Women's Organizing in a Southwestern City
Roy Johnson, M.A.	Communities in Conflict: A Qualitative Analysis of the Struggle over Police Accountability in Two Cities
Colin Olson, M.A.	Is Counter-Discourse Dead? Alternative and Mainstream Newspapers Compared

The graduate program in Sociology continued to make progress with 16 new admissions and 3 readmits for 2001/02. Out of those 16 admitted, 5 students joined the program with 4 being supported during their first semester on GA/TA assistantships. The Sociology Graduate Student Association (SGSA) remained active with Jerry Daday president and Colin Olson serving as vice-president.

Dr. Jane Hood led a writing workshop for graduate teaching assistants who include writing assignments in their undergraduate classes, April 18.

Dr. William Robinson, who earned his doctorate in Sociology at UNM, accepted a tenure-track position at the University of California, Santa Barbara.

Dr. Andrea Hoplight-Tapia, who earned her doctorate in Sociology at UNM, was interviewed for an article on her dissertation titled, "Subcultural Responses to Y2K," that appeared in the *Albuquerque Tribune* on Thursday, September 7, 2000.

Dr. Paul Alameida, who earned his master's degree in Sociology at UNM, accepted a tenure-track position at Texas A&M University.

Graduate Student Colloquia

George, Mark. 12/01/00. "Race Traitors: Exporing the Motivation and Action of White Anti-Racists."

Graduate Student Presentations

Ben-Meir, Jason. 2001. "A Sustainable Transference of Geographic Information Systems Technology." Pacific Sociological Association Annual Meeting, San Francisco, CA.

Clark, Charles. 2000. "Seeking Legitimacy: Land Tenure in Peten, Guatemala." Nuevas Perspectivas de Desarrollo Sotenible en El Peten, Santa Elena, Peten, Guatemala.

Daday, Gerhard. 2000. "Technocratic Teamwork." American Sociological Association Annual Meeting,Washington, D.C.

Erbaugh, Betsy. 2001. "Community Organizing and Identity Transformation: Low-Income Women's Organizing in a Southwestern City." Pacific Sociological Association Annual Meeting, San Francisco, CA.

Gamboa, Ethel. 2001. "Queer and Asian: Implications of Disclosing Sexual Orientation in Health Care Settings." Pacific Sociological Association Annual Meeting, San Francisco, CA.

Hudson, Marjorie. 2000. "Monitoring the Effectiveness of Hantavirus Outreach in Western New Mexico." All Scientists Meeting (a multidisciplinary meeting for ecologists and social scientists), Snowbird, Utah.

Hunnicutt, Gwen. 2001. "Theoretical Implications for Understanding the Gendered Nature of Crime." Pacific Sociological Association Annual Meeting, San Francisco, CA.

La Luz, Azul. 2001. "The Cebolleta Land Grant, Cebolleta, New Mexico." Who Owns America? Minority Land and Common Security Conference, Land Tenure Center, University of Wisconsin, Madison, WI.

Roberts, Aki (with Gary LaFree). 2001a. "Social control, Economic Stress, and Declining Crime Rates in Japan, 1946 to 1997. Society for Cross-Cultural Research Annual Meeting, San Diego, CA.

Roberts, Aki (with J. M. Roberts). 2001b. "Geographical Mobility in Japan, 1955-1995. Society for Cross-Cultural Research Annual Meeting, San Diego, CA.

Scott, Kerry. 2001. "From Professional Individualism to Collectivism: The Identity Transformation of Organized Physicians in a Labor Context." Pacific Sociological Association Annual Meeting, San Francisco, CA.

Stone, Lora L. 2001a. "Misrecognition of the Limits: Bourdieu's *Religious Capital* and Social Transformation." Pacific Sociological Association Annual Meeting, San Francisco, CA.

Stone, Lora L. 2001b. "On Becomming Prophetic: Religious Leaders in Faith-Based Community Organizing." Society for the Scientific Study of Religion Annual Meeting, Columbus, OH.

Wylupski, Warren. 2001. "Impact of Community Policing on Police Professionalism." Pacific Sociological Association Annual Meeting, San Francisco, CA.

Graduate Student Publications

Daday, Gerhard (with Beverly Burris). 2001. "Technocratic Teamwork." In *Remaking Work Organizations*. Edited by S. Vallas. Elseview Publishers.

Clark, Charles. 2000. "Land Tenure Delegitimation and Social Mobility in Tropical Peten, Guatemala." *Human Organization* 59:4.

Pitts, Wayne. 2001. "Mexico." In *The Encyclopedia of American Immigration.* M.E. Sharpe.

D. Appointments

Dr. Susan Tiano began serving as the Chair of Sociology.

Dr. Philip May served as Co-Director of the Center for Alcoholism, Substance Abuse, and Addictions (CASAA).

Dr. Felipe Gonzales continued to serve as the Director of the Southwest Hispanic Research Institute.

Dr. Bert Useem continued to serve as the Director of the Institute for Social Research (ISR).

Dr. Nelson Valdés continued to serve as the Director of the Latin American Data Base.

E. Leaves of Absence, Sabbaticals, Departures

Dr. Miguel Korzeniewicz continued leave during the 2000-01 academic year.

Dr. Gilbert Merkx retired from the department in May of 2001. He joined the faculty at Duke University.

F. Plans and Recommendations for 2001-02

During the 2001-02 academic year, I intend to implement several innovations to address problems that have emerged in recent years.

- Sociology 101 is considered a "killer course" in which a large number of students withdraw or fail. I will work with the Undergraduate Committee to restructure the introductory course so that each 101 student can receive more individualized instruction.

- The college-wide assessment last year identified Sociology as having the lowest mean ICES scores among departments in the college. To address this problem, I have created a "teaching enhancement committee," composed of some of the department's best teachers, to begin its work in Fall, 2001. Its mission is to make recommendations for improving the quality of instruction in the department.

- Enrollments in the Sociology graduate program have declined, particularly at the M.A. level. The Graduate Committee will develop proposals, to be discussed at the October 19th departmental retreat, to eliminate bottleneck policies and courses, and to increase the program's attractiveness to a broader range of potential students.

G. Report from the Institute for Social Research

The Institute for Social Research (ISR), a unit within the Department of Sociology, promotes and administers funded research. Founded in 1987, ISR operates entirely on contracts and grants from external funding sources. ISR's Principal Investigators are Sociology faculty and PhD researchers holding staff-appointments at ISR. About three dozen graduate and undergraduate students work on projects at ISR, gaining first-hand experience in conducting research. Five full-time, project staff help administer and conduct the research. In addition, two full-time staff operate the front office and assist in the preparation and administration of grants.

ISR is prospering. This can be seen by the level of activity in the building. On any given day, ISR's offices are filled with students and staff conducting multiple projects. Other benchmarks include:

F&A Generated and Projects Awarded: Since 1997, the F&A generated by ISR for UNM. has increased by 82.6 percent. Over the same period, the total amount of grants and contracts received by ISR increased by 56.7 percent.

Year	F&A to University	Totals Awards to ISR
1997	$127,000	$1,034,420
1998	$148,000	$1,304,409
1999	$202,000	$1,991,400
2000	$232,000	$1,621,506

Mix of Grants and Contracts. When ISR was formed, almost all of its grants and contracts were awarded by municipal and state agencies. Currently, ISR's portfolio is a healthy mix of state/local funding and national funding. The state/local funding is significant, in that it indicates that ISR continues to contribute to the University's mission to serve the needs of the state and local communities. These funding sources include the Department of Corrections, the New Mexico Judicial Districts, Albuquerque Police Department, Criminal and Juvenile Justice Coordinating Council, City of Albuquerque, and Bernalillo County. The national funding is significant because it indicates that ISR is nationally competitive as a research organization. These funding sources include the National Science Foundation, National Institute of Justice (U.S. Department of Justice), the Harry Frank Guggenheim Foundation, and the Bureau of Justice Statistics (U.S. Department of Justice). ISR's projects for FY 2000-2001 are listed in the Appendix.

Student Success. ISR students were successful in completing the academic degrees. Aki Roberts completed her PhD, Colin Olson received his MA, and Laurel Carrier received her JD. Undergraduate students Miriya Goertz, Manny Jauriqui, Lindsey Smith, Melissa Straw, Christopher Tsosie, and Billy Ulibarri received their Bachelors degrees.

In the News. The activities of ISR affiliates were covered by the press.

- A study by Richard Boyle on the effects of attending public preschool was reported on in the *Albuquerque Journal* (July 26, 2000). The key finding was that children who attended early childhood programs performed better in subsequent years than those who did not. His study was the basis of an editorial in the *Albuquerque Journal* (July 29, 2001) calling for expanding facilities for early childhood learning.

- Paul Guerin had his research on Albuquerque's DWI/Drug Court discussed in the *Washington Post* (September 26, 2000) and *Albuquerque Journal* (March 24, 2000). The courts are an innovative response to chronic drunk drivers. Guerin's ongoing research will tell us whether they work – a significant issue nationwide.

- Susan Brumbaugh was quoted in an *Associated Press* news story (July 3, 2001) concerning the over-representation of racial and ethnic minorities in New Mexico prisons. She discussed possible causes, and pointed out that the matter has not been given systematic study.

- Amelia Rouse, Susan Brumbaugh, and former ISR member Chris Birkbeck had their study featured in the *Albuquerque Journal* (February 22, 2001). They estimated the costs of arresting and imprisoning state residents for drug-related crimes.

- Richard Wood had his study of community policing featured in the *Daily-Lobo* (March 2, 1001). Wood discussed the promises and obstacles in implementing community policing, based on his in-depth study of the Albuquerque Police Department.

- Bert Useem published op-ed articles in the *Philadelphia Inquirer* on the lessons in terrorism prevention that might be learned from suicide bombing of USS Cole in Yemen (October 30, 2000), and in *The Washington Times* on the role of faith-based strategies for breaking the cycle of poverty (April 22, 2001). His research, conducted with Professors Anne Piehl and John DiIulio, on the benefits and costs of imprisonment was discussed in an article in *Fortune Magazine* (April 30, 2001). Also his talk to a Department of Justice-sponsored training conference on prison riots was reported in *Corrections Today*, *The Village Voice*, and he was interviewed on MSNBC.

- Raymond Liedka, Harvard Professor Anne Piehl, and Bert Useem had their National Science Foundation-funded study discussed in *Harvard Magazine* (July 2001) The study explores the effects of the quadrupling of the prison population that has occurred over the last 20 years.

In sum, ISR had a highly successful year. Important research was getting done; students were being trained in social research from the inside out; and significantly higher revenues were being generated.

Appendix A: Organization and Personnel

The Director and the Executive Committee are responsible for the overall operation of the Institute. Bert Useem, a professor in the Sociology Department, served as ISR Director in 2000/2001. The members of the executive committee were:

Richard Boyle, PhD
Lisa Broidy, PhD
Susan Brumbaugh, PhD
Paul Guerin, PhD
Raymond Liedka, PhD
Shannon Morrison, PhD
Amelia Rouse, PhD
Paul Steele, PhD
Richard Wood, PhD

Dr. Shannon Morrison left ISR during the past year to move to North Carolina where she has joined the research staff of Research Triangle Institute as a principal investigator.

Currently, ISR has two administrative staff members. Ms. Judith Bernhard is responsible for helping prepare grant applications and overseeing the operation of the front office. Ms. Carolyn Souther is responsible for preparing monthly budget reports on the approximately thirty-five active ISR accounts. Working full-time on projects are the following staff members are Mr. Robert Hyde, Mr. Wayne Pitts, Ms. Sandra Woerle, Ms. Lindsey Smith, and Ms. Victoria Gutierrez.

A central goal of ISR is to enhance the educational experience of UNM graduate students, as well as to help support their studies through paid employment. Graduate students working on ISR projects were:

Name	Degree Pursued	Project PI
Carrier, Laurel	JD	Guerin
Daday, Jerry	PhD	Steele/Broidy
Damon, Nell	PhD	Guerin/Boyle
Derkas, Erika	PhD	Guerin
Hielkema, Erin	MA	Brumbaugh
Hunnicutt, Gwen	PhD	LaFree
Littlefield, David	MA	LaFree/Steele
Long, Tony	MA	Guerin/Boyle
Olson, Colin	MA	Boyle
Pitts, Kim	PhD	Morrison/Boyle
Pitts, Wayne	PhD	Guerin
Roberts, Aki	PhD	LaFree/Useem
Sedillo, Jerry	MBA/JD	Boyle
Spitler, Juanita	PhD	Boyle
Woerle, Sandra	PhD	Guerin

ISR is able to provide undergraduates research experience and employment. The following undergraduate students worked at ISR.

Name	Project PI
Baca, Rowena	Boyle
Bennett, Richard	Guerin
Berger, Michelle	Guerin
Bleakley, B.J.	Guerin
Brazis, Valerie	Boyle
Cubbage, Jason	Morrison
Goertz, Miriya	Guerin
Gutierrez, Emmanuel	Guerin
Jauriqui, Manny	Boyle
Lopez, Jayma	Guerin
Louton, Elizabeth	Front Office
Lucero, Amanda	Front Office
Macken, Jamie	Guerin
Madrid, Edward	Steele/Broidy
Mogg-Hall, Gwyneth	Boyle
Patchett, Eryn	Brumbaugh
Pool, Adam	Rouse
Ripczinske, Serena	Boyle
Schelhamer, Teresa	Front Office/Useem
Smith, Jennifer	Guerin
Smith, Lindsey	Front Office/Guerin
Straw, Melissa	Guerin
Tsosie, Christopher	Guerin
Ulibarrí, Billy	Guerin

Appendix B: PRINCIPAL INVESTIGATORS, PROJECTS, AND FUNDING

PI	Project Title	Center*	Funding Agency**	Amount	F&A Rate	Date
Richard Wood	Community Policing		NIJ	$177,124	26%	1/1/97 - 12/31/00
Paul Guerin	Residential Substance Abuse Treatment	CARA	NIJ	100,000	26%	10/1/98 - 3/31/02
Gary LaFree	Big City Crime Trends		NCOVR	44,188	47%	1/1/99 - 6/30/01
Bert Useem & Raymond Liedka	Prisons & Crime Control		NSF	148,079	47%	4/15/99 - 12/31/01
Paul Guerin	Public Housing Drug Elimination Program	CARA	COA	42,507	8%	1/1/99 - 9/30/00
Paul Guerin	Community Corrections	CARA	NMCD	164,165	20%	7/1/99 - 6/30/01
Susan Brumbaugh	Analysis of State Justice Programs	CJJCC	CJJCC	100,000	20%	7/30/00 - 6/30/01
Paul Guerin	Arrestee Drug Abuse Monitoring	CARA	Abt Assoc (NIJ)	166,632	47%	10/1/99 - 3/31/01
Paul Steele	Evaluation of EQUIP		JRSA	15,000	26%	7/1/00 - 6/30/01
Paul Guerin	Evaluation of 3rd Judicial Juvenile Drug Court	CARA	AOC	28,892	20%	11/1/98 - 10/31/01
Bert Useem & Raymond Liedka	Cross-National Study of Prisons & Crime Control		HFG	28,187	0%	1/1/00 - 6/30/01
Amelia Rouse	Worker's Compensation Survey		NMDOL	72,300	20%	2/21/00 - 6/30/01
Paul Guerin	Local DWI Grant Program Statewide Evaluation	CARA	NMCYFD	210,000	20%	6/21/00 - 4/30/02
Paul Guerin	Weed & Seed	PERC	COA	10,000	8%	5/1/99 - 6/30/01
Shannon Morrison/ Richard Boyle	Police Athletic League	PERC	NIJ	333,333	24%	2/15/00 - 2/14/01

Paul Guerin	Domestic Violence	CARA		41,428	24%	5/1/98 - 12/31/01
Amelia Rouse	Project Estrella (A Demonstration After School Program)		NIJ	250,000	24%	10/1/98 - 9/30/01
Paul Guerin	Evaluation of 3rd Judicial Adult Drug Court Additional funding	CARA	AOC	37,500 24,000	24%	12/1/00 - 11/30/01 12/1/00- 11/30/01
Paul Guerin	Process Evaluation of 2nd Judicial District Juvenile Court	CARA	2nd Judicial District Ct.	31,571	24%	7/1/99 - 9/30/00
Paul Guerin	Evaluation 2nd Judicial District Court Adult Drug Court	CARA	AOC	69,632	20%	7/1/99 - 6/30/01
Paul Guerin	8th Judicial District Drug Court Database	CARA	AOC	6,596	20%	4/5/00 - 4/5/01
Richard Boyle	Evaluation of Child Development Programs	PERC	COA	33,643	20%	1/24/00 - 4/30/01
Paul Guerin	Evaluation Bernalillo County Metro Drug Court	CARA	BC	20,000	20%	ends - 6/30/01
Richard Wood	Organizational Chance in Policing		COA	21,250	20%	2/7/01 - 7/31/01
Paul Steele	Child Sexual Abuse	SAC	BJS	79,876	26%	9/1/00 - 8/31/01
Paul Steele & Lisa Broidy	Strategic Approaches to Community Safety Initiative		NIJ	229,993	26%	12/1/00 - 12/31/03
Amelia Rouse	Database Development Project Lariat		BC	14,144	20%	4/4/01 - 6/30/02
Paul Guerin	Targeted Capacity Expansion	CARA	COA	175,497	20%	9/30/00 - 9/29/01
Richard Boyle	Evaluation of a Recreation Program for At-Risk Youth	PERC	NMPAL	20,000	20%	4/1/01 - 3/31/02
Richard Boyle	Los Pasos	PERC	AIA	50,000	24%	10/1/00 - 9/30/01
Richard Boyle	Starting Early, Starting Smart	PERC	SAMHSA	169,736	24%	10/1/00 - 9/30/01
Paul Guerin	CYFD Juvenile Drug Court Evaluation	CARA	CYFD	148,000	20%	9/7/00 - 6/30/02

Paul Guerin	Statewide Drug Court Evaluation	CARA	AOC	165,000	20%	12/1/00 - 11/30/02

*Center abbreviations
CARA, The Center for Applied Research and Analysis, Directed by Dr. Paul Guerin
CJJCC, Criminal and Juvenile Justice Coordinating Council, Directed by Dr. Susan Brumbaugh
PERC, Program Evaluation research Center, Directed by Dr. Richard Boyle
SAC, Statistical Analysis Center, Directed by Dr. Paul Steele. Note: Professor Steele has recently initiated a new Center. A report on its activities will be made in the next Annual Report.

**Funding Agency Abbreviations
AIA, Abandoned Infants Assistance
AOC, Administrative Office of the Courts, State of New Mexico
BC, Bernalillo County
BJS, Bureau of Justice Statistics, U.S. Department of Justice
CJJCC, Criminal and Juvenile Justice Coordinating Council, State of New Mexico
COA, City of Albuquerque
HFG, Harry Frank Guggenheim Foundation
JRSA, Justice Research Statistics Association, U.S. Department of Justice
NCOVR, National Consortium on Violence Research
NIJ, National Institute of Justice, U.S. Department of Justice
NMCD, New Mexico Corrections Department
NMDOL, New Mexico Department of Labor
NMPAL, New Mexico Police Athletic League
NSF, National Science Foundation
SAMHSA, Substance Abuse Mental Health Services Administration

DEPARTMENT OF SPANISH AND PORTUGUESE

Anthony J. Cárdenas-Rotunno, Chairman

Rosario L. Johnson, Department Administrator

ANNUAL REPORT

July 1, 2000 – June 30, 2001

I. TEACHING FACULTY AND STAFF

A. TENURED AND TENURE TRACK FACULTY

Spanish

Garland Bills	Professor
Anthony J. Cárdenas-Rotunno	Professor
Tey Diana Rebolledo	Professor
Enrique Lamadrid	Professor
Kimberle López	Associate Professor
Susan Rivera	Associate Professor
Adriana Estill	Assistant Professor
Michael Kidd	Assistant Professor
Miguel López	Assistant Professor
Judy Maloof	Assistant Professor
Kathryn McKnight	Assistant Professor
Nuria Sagarra	Assistant Professor
Rena Torres Cacoullos	Assistant Professor
María Dolores Gonzales	Lecturer III

Portuguese

Jon Tolman	Professor
Margo Milleret	Assistant Professor

B. Lecturers

Jessica Aaron
María Jesús Alvarez
Claudia Bagwell
Paula Bruno
Deanna Cornejo-Patterson
Rachel Gersh
Barbara Gonzales
Roxanne Hale
Raquel Martínez
Lisa O'Grady
Michael Pagel
Patricia Rosas-Lopátegui
Mary Salinas-Jordan
Elaine Shenk
Paul Siegrist
Jean Silesky

C. Emeritus Professors

John Bergen
Rubén Cobos
Pelayo Fernández
Rosa Fernández
Dick Gerdes
Angel González
Erlinda Gonzales-Berry
Tamara Holzapfel
Albert Lopes
Raymond MacCurdy
Marshall Nason
Alfred Rodríguez
Sabine Ulibarrí

D. Teaching Assistants

Ph.D.

José F. Bañuelos
Beth Bernstein
Esther Lynn Brown
Rosa Campos-Brito
Patricia Cano
Patricia Catoira
Mayra Cortés-Torres
Gabriela Díaz
Miguel Estrada
Fernanda Ferreira
Kristina Galindo-Knudsen
Paul Goldberg
José Esteban Hernández
Benito Quintana
Olga Rios
Marcos Romero
Theodore Walker
Mark Waltermire

M.A. Spanish

Melba Amador
Erin Amason
David Briggs
Lorena Cedeño-Zambrano
Jens Clegg
Douglas Deane
Teresa Fernández
Stefanie Fontana
Duane Garrett
Tali Gluch
Ana González
Phillip Guengerich
Jessica Harahush
Nikko Harada
Inga Klein
Trevor Martenson
Elizabeth Matthews
Irena Nežić
Sherry Niccolai
Leticia Ortiz-Gamber
Catalina Pérez-Abreu
Claudio Pérez-Varela
Marco Rosas
Shelli Rottschafer
Patrick Staib
Sarah Thompson
Donald Trivett
Verónica Vargas

M.A. Portuguese

Rosiane Olivea
Alex Sousa

E. Office Staff

Rosario Johnson	Department Administrator II
Esther Márquez	Lower Division Administrative Assistant II
Martha Hurd	Graduate Administrative Assistant I
Katharine E. Merrill	Department Administrative Assistant I

G. Work Study Staff

Greg Gonzales
Lee Harley
Violeta Samaniego
Francisco Sánchez
Diana Telley

H. Degrees Awarded

Summer 2000

Ph.D. in Romance Languages - Spanish and Portuguese

Paul Leon Goldberg, Dissertation title: The Poetics of Migration: Narrative Representations of Twentieth-Century Jewish Immigration to the Greater Andean Region.

Shigeko Mato, Dissertation title: Locating Female Creation in a Hybrid Space: Carmen Boullosa's Trans-Liminal Narrative.

Xochitl Estrada Shuru, Dissertation title: The Poetics of Hysteria in Chicana Writing: Sandra Cisneros, Margarita Cota-Cárdenas, Pat Mora, and Bernice Zamora.

B.A., Second Major in Spanish

Michael Durnan
Andrea Robeda
Angie Vila
Miguel Martínez
Diana Veguilla

B.S., Second Major in Spanish

Valerie Flores
Carlos Lamadrid

Fall 2000

Master of Arts in Spanish

Kimberley Ann Swinehart

BACHELOR OF ARTS IN SPANISH, MAJOR

Vanessa Baca
Eglis Cuarezma
Martin Garrison
Juliana Mora
Blanca Rodríguez
Maria Ondina Bair
Jennife r Dean
Katherine Little
Catalina Pérez-Abreu
Rosalind Sánchez-Hodovance

B.A., SECOND MAJOR IN SPANISH

Carolyn Aparici-Law
Felicia de Vargas
Esmeralda Méndez
Angela Pérez
Eddie Rey
Rachel Ball
Erica García
Marco Molina
Sandra Pérez
Rebecca Sánchez

B.S., SECOND MAJOR IN SPANISH

Mariana Borkovskaya
Erica Copeland
Pablo Calderón

Spring 2001

MASTER OF ARTS IN SPANISH

Sherry Niccolai
Daniel Huerta

BACHELOR OF ARTS IN SPANISH, MAJOR

Paul V. Casey
Kenny Dailey
Lillian Gorman
Shoshana Handel
Sharon Mueller
Jessica Rodríguez
Hannah Sims
Debra Willingham
Delina Cortez
Rachel Duncan
Sarah Gorman
Grace Morris
Isabelle Petit
Dolores Ruiz-Fábrega
Jon Williams

B.A., SECOND MAJOR IN SPANISH

Jean Baca
Rosalia Cásares
Jodi Eckart
Chad Montuori
Rowshan Reordan
Justinia Shoemaker
Christina Vigil
Elysa Baron
Vincent Conway
Yanina Hernández
Charles Ontiveros
Ricardo Romero
Joseph Velasco
Joel Villarreal

B.S., SECOND MAJOR IN SPANISH

Jacob Abbott
Darlene Gabaldón
Jennifer Maito
Gerasimos Razatos
Lauryn Spohn
Violet Bolaños
Joy Hernández
Fauzia Malik
Melissa Saavedra

II. COURSES OFFERED

A. SUMMER 2000

Spanish

	Number of Sections	Number of Credit hrs.
101 Elementary Spanish	2	102
102 Elementary Spanish	1	72
200 Intermed Span Abroad	1	15
201 Intermediate Spanish	1	48
202 Intermediate Spanish	1	72
203 Spanish Conversation	1	30
275 Accel Begin Spanish	1	36
276 Accel Intermed Spanish	1	120
301 T/ Hispanis Culture	1	75
301 T/ Chicanismos	1	81
301 T/ Cultura de Mex	1	27
302 Dvlp Span Writ Skills	1	33
307 Intro Hispanic Lit	1	66
439 T/Cont Mexican Lit	1	12
497 Undergrad Problems	5	24
498 Rdg-Resrch for Hnrs	1	3
551 Graduate Problems	5	48
629 S/Peninsular Literat	1	30
699 Dissertation	5	33

Portuguese

	Number of Sections	Number of Credit hrs.
551 Graduate Problems	1	3
559 Master Thesis	1	6

B. FALL 2000

Spanish	Number of Sections	Number of Credit hrs.
101 Elementary Spanish	40	2964
101 Elementary Spanish SHL	4	270
101 Elementary Spanish KAFB	1	21
102 Elementary Spanish	14	966
102 Elementary Spanish SHL	4	285
103 Elem Span Conver	1	8
201 Intermediate Spanish	12	762
201 Intermediate Spanish SHL	3	204
202 Intermediate Spanish	8	510
202 Intermediate Spanish SHL	3	189
275 Accelerated Begin Span	1	66
276 Accel Intermed Span	1	84
301 T/When Animals Speak	1	63
301 T/NM Cult thru Film	1	84
301 T/Hispanic Culture	1	63
301 T/Lat Politics/Gender	2	162
301 T/Mex Cult/Film	2	156
301 T/NM Culture	1	87
301 T/El Centro Urbano	1	78
301 T/Fronterislenos	1	72
301 T/Magia Hispanica	1	75
302 Dvlp Span Wrtg Sklls	4	240
307 Intro Hispanic Lit	3	204
350 Spanish Phonetics	1	75
352 Advance Grammar	3	165
411 Survey of Span Lit I	1	81
430 Span Am Short Story	1	75
431 Span Am Lit Survey I	1	63
439 T/Lang/Race/Gender	1	81
439 T/Lat Am Women Lit	1	36
497 Undergrad Problems	4	13
499 Honors Essay	1	3
502 Pro-sem Resch CRMTH	1	24
522 Sem/Spanish Poetry	1	24
541 Rsch Methods-Tchers	1	51
542 History of Span Lang	1	45
549 S/Rsch Meth Apl Ling	1	27
551 Graduate Problems	5	18
629 Sem/Golden Age Prose	1	27
633 Cont Span Am Poetry	1	21
639 S/Mexic & Chicano Nar	1	27
639 S/Lat American Film	1	21
699 Dissertation	3	102

Portuguese

	Number of Sections	Number of Credit hrs.
275 Intens Begin Portugu	2	270
276 Intens Interm Portug	1	114
311 Advanced Comp/Conv	1	21
416 Cinema Brasileiro	1	18
458 Brazilian Lit Sur II	1	3
497 Undergrad Problems	1	3
511 Advanced Comp/Conv	1	3
516 Cinema Brasileiro	1	12
551 Graduate Problems	1	3
558 Brazilian Lit Sur II	1	12
561 Hist Portuguese Lang	1	6
570 Sem in Brazilian Lit	1	9

C. SPRING 2001

Spanish

	Number of Sections	Number of Credit hrs.
101 Elementary Spanish	26	1890
101 Elementary Spanish SHL	4	246
101 Elementary Spanish KAFB	1	42
102 Elementary Spanish	14	831
102 Elementary Spanish SHL	7	381
104 Elem Span Conver	1	10
201 Intermediate Spanish	9	534
201 Intermediate Spanish SHL	4	222
202 Intermediate Spanish	6	417
202 Intermediate Spanish SHL	4	240
275 Accelerated Begin Span	1	78
276 Accel Intermed Span	1	120
301 T/Peru/Paisaje Cult	2	159
301 T/Social Class Lt Am	2	153
301 T/El Centro Urbano	1	78
301 T/New Mexico Culture	1	96
301 T/When Animals Speak	1	69
301 T/ Lat Am Gender/Race	1	72
301 T/Mex on the Intrnet	1	75
301 T/Cult Afro Hispana	1	72
301 T Chicanismos	1	75
302 Dvlp Sp Wrtng Sklls	4	219
307 Intro Hispanic Lit	3	174
350 Spanish Phonetics	1	96

	Number of Sections	Number of Credit hrs.
352 Advanced Grammar	3	204
370 Survey Chicano Lit	1	66
371 Spanish of the SW	1	57
412 Surv Span Lit II	1	75
432 Span Am Lit Surv II	1	69
439 T/Lat Am Theatre	1	9
439 T/Mexican Literature	1	96
479 T/Lit Hisp del Soest	1	60
497 Undergrad Problems	1	5
519 Medieval Literature	1	27
532 Sem/Lat Am Boom Novl	1	42
546 S/Socioling Variatn	1	30
549 S/Cambio/Var Linguis	1	21
549 S/Biling-Lg Contact	1	45
551 Graduate Problems	7	25
578 T/Chicana Cult Espre	1	15
578 T/Lit Hisp del Soest	1	3
601 Literary Theory	1	15
629 Sem/Sp Post-War Nove	1	15
639 S/Lat Am Theatre	1	15
639 Sem/Colon/Sjt 17c	1	33
699 Dissertation	6	138

Portuguese

	Number of Sections	Number of Credit hrs.
275 Intens Begin Portugu	1	186
276 Intens Interm Portug	1	120
312 Adv Comp and Con II	1	33
421 Brazilian Theater	1	24
512 Adv Comp and Con II	1	3
521 Brazilian Theatre	1	15
551 Graduate Problems	1	1
560 S/Early Iberian Lyrc	1	9

III. DEPARTMENTAL HIGHLIGHTS

The Department of Spanish and Portuguese remained committed during the 2000-2001 academic year to its goals of research, teaching, and service.

The 2000-2001 academic year presented evidence of growth, transition, and innovation dictated by the challenges it offered. In the Fall semester, Lower-Division Spanish courses grew from a standard offering of 68 classes to 90. The year saw the hiring of Professor David Eddington in Linguistics to replace former Chair, John Lipski who resigned. Professor Garland Bills, senior Linguistics professor, then retired at the end of the academic year. Some eighteen articles or book chapters and one authored book and three edited books by the faculty of Spanish and Portuguese appeared in print. Four faculty were invited to present talks and altogether some twenty-one papers were read at a variety of national and international conferences.

The Department hosted thirteen speakers, professors and writers and collaborated with a variety of other entities to bring outside speakers: the Institute for Medieval Studies Spring 2001 Lecture Series; with the Department of Education and the Mexican Consulate, an Homage to "La Mujer Mexicana"; with the Spanish and Portuguese Historical Studies Society; with the Department of Foreign Languages and Literatures. Notables among these various artists include Pola López, Alma López, Margarita Cota-Cárdenas, and Esteban Arellano. The graduate students of the Department also presented their work as papers in colloquia held within the Department as well as in conferences organized by other universities.

The Alfred Rodríguez Distinguished Lecture series, generously co-funded by the Dean of Arts and Sciences, brought the premiere linguist, José Ignacio Hualde from the University of Illinois at Champaign-Urbana who offered two presentations to the university public.

The Spring semester saw the Tenth Annual Conference on Ibero-American Culture and Society held by the Department with the them of "Latin American Literature, Technology, and Ideology" with keynote addresses delivered by Mary Louise Pratt from Stanford University and Francine R. Massiello from the University of California, Berkeley. A play performed by Kirsten Nigro "Baby Boom in Paradise" by Ana Istarú constituted one of the conference highlights.

Among the various outreach activities engaged in by the Department, Professor Lamadrid organized in November 2000 the annual "Los pastores: The New Mexican Shepherd's Play" presented in the Alumni Chapel by La Gran Pastorela de Belén. Professor Gonzales organized in the Fall and Spring "Teatros" presented by the students of the Spanish as a Heritage Language track for presentation to the community.

Three professors received awards: Professor Miguel López from the Teaching Allocation for Course Improvement Committee, Professor Michael Kidd from the American Council of Learned Societies, and Professor Adrianne Estill from the Woodrow Wilson Foundation.

Graduate Students receiving awards included José F. Bañuelos, who received one of six UNM's Outstanding Teaching Assistants awards; Esther Brown received the Helmut Esau Award for best Graduate Student Paper at the LASSO 2000 Conference; and José Esteban Hernández received a Latin American Institute Title VI Fellowship.

The establishment in Albuquerque of the third Cervantes Institute in the nation (the other two being in New York and in Chicago) has offered an excellent venue for community outreach and has proved to be a boon for the Department already in the way the Director Joaquín Garrido has graciously undertaken to collaborate in and support departmental endeavors.

In sum, the 2000-2001 academic year manifested several activities of note but also has served as a hotbed for future departmental activity which is already beginning to see light as the Department remains committed to its goals of teaching, research, and service.

A. RETIREMENT

Professor Garland Bills retired as of May 31, 2000.

B. STAFF CHANGES

Katharine E. Merrill joined the department on June 12, 2000 to fill the position of Department Administrative Assistant I.

Martha Hurd joined the department on July 26, 2000 to fill the position of Graduate Administrative Assistant I.

Rosita Pickle, Administrative Assistant I, resigned on November 23, 2000.

C. AWARDS

Professors

Adriana Estill received an award from the Woodrow Wilson Foundation.

Michael Kidd received an award from the American Council of Learned Societies.

Miguel López received a Teaching Allocations Grant for Course Improvement.

Graduate Students

José F. Bañuelos received an award as one of six of the University of New Mexico's Outstanding Teaching Assistants for 2000-2001.

Esther Lynn Brown received The Helmut Esau Award for the Best Graduate Student Paper at the LASSO 2000 Conference.

José Esteban Hernández received a Latin American Institute Title VI for the 2000-2001 academic year.

IV. DEPARTMENTAL ACTIVITIES

A. LECTURES AND CONFERENCES SPONSORED BY THE DEPARTMENT OF SPANISH AND PORTUGUESE

Instituto Cervantes, Academic Director Francisco Marcos Marín presented in Spanish "*El Instituto Cervantes y el futuro panhispánico del español*" on October 19, 2000 in 335 Ortega Hall.

José Ignacio Hualde, University of Illinois at Urbana-Champaign, guest speaker for the Alfred Rodríguez Lecture Series, presented "Current issues in the study of Spanish intonation" on October 26, 2000 at 3:30 pm in 335 Ortega Hall and "What is a pitch-accent language?: A partial answer" on October 27, 2000 at 3:00 pm in 335 Ortega Hall.

Pola López, Santa Fe artist presented her art at Zimmerman Library on November 2, 2000. Professor Tey Diana Rebolledo organized the event.

Professor James F. Lee, Professor of Lingistics at the University of Indiana, presented "The Incidental Acquisition through Reading of Spanish Future Tense Morphology" on November 3, 2000 at 2:00 pm in 335 Ortega Hall.

"Los Pastores, The New Mexican Shepherd's Play" with La Gran Pastorela de Belén, on November 29, 2000 at 7:00pm. In the Alumni Chapel of UNM. Professor Lamadrid organized and directed the event.

"Teatros" was performed by Spanish as a Heritage Language students of 201 and 202 on December 1, 2000 at 5:30 pm in Mitchell Hall Room 101 and again on May 4, 2001 at 6:00 pm in Woodward Hall Room 147. These events were organized by Professor María Dolores Gonzales.

First Graduate Colloquium on Second Language Acquisition December 6, 2000 at 2:00 pm in 335 Ortega Hall. Presenters included: Patricia Cano, Jens Clegg, Mayra Cortés-Torres, Paul Edmunds, Jessica Harahush, Sherry Niccolai, Michelle Salazar, José

Alexandro G. Sousa, and Sarah J. Thompson. This event was organized by Professor Nuria Sagarra.

Professor David Eddington, Mississippi State University, candidate for the Spanish Linguistic position presented "Storage or derivation? The case of Spanish plural formation" on February 8, 2001 at 3:00 pm in 335 Ortega Hall.

Professor Juan Manuel Sosa, Simon Frasier University, candidate for the Spanish Linguistic position presented "The variability of Spanish intonation: dialectal and pedagogical implications" on February 12, 2001 at 4:00 pm in 335 Ortega Hall.

Tenth Annual University of New Mexico Conference on Ibero-American Culture and Society: "Latin American Literature, Technology, Ideology." February 15 and 16, 2001 on the third and fouth floors of Ortega Hall. Sixty papers were accepted and presented within eighteen panel sessions. Keynote addresses were delivered by Francine R. Masiello from the University of California, Berkeley and Mary Louise Pratt from Stanford University. Professors Kimberle López and Judy Maloof, with the aid of office staff, organized the event.

Kirsten Nigro, performed the play "Baby Boom in Paradise" by Ana Istarú on February 16, 2001 at 4:15 pm in the Dickey Theatre for the 10th Annual Conference on Ibero-American Culture and Society. The event was coordinated by Professor Margo Milleret.

Language Odyssey 2001, this language expo sponsored by ALTA-UNM and supported by the Departments of Spanish and Portuguese and Foreign Languages and Literatures was a great success March 3, from 9:00 am to 1:30 pm in 335, 332 Ortega Hall and the Lobo tent in front of Zimmerman Library. Four hundred eighty high-school students attended the event. Faculty, graduate students, and staff participated in the event providing workshops, activities in language events, and adventures in languages.

Cyber Arte, Artist Alma López from California gave a slide presentation on February 26, 2001 at 1:00 pm in 335 Ortega Hall. Professor Tey Diana Rebolledo organized the event.

The Institute for Medieval Studies Spring 2001 Lecture Series, "Medieval Spain: Land of Three Cultures". March 19 – 22, 2001 in Woodward Hall Room 101. Professor Anthony J. Cárdenas-Rotunno co-organized the event.

"Auto de los Reyes Magos, The Play of the Three Wise Men" was presented on March 23, 2001 at 3:30 pm in Woodward Hall Room 101 for the Institute for Medieval Studies Spring 2001 conference. Professor Michael Kidd directed the play. A round table discussion followed with Professor Claire Waters (English), Professor Kidd and Cárdenas (Spanish) participating. The event was funded through the generosity of the Cervantes Institute.

Dr. Alberto Julián Pérez, Texas Tech University, held two talks; "Sarmiento, intérprete de su nación" on March 27, 2001 at 2:00 pm in 335 Ortega Hall and; "Borges, a Poetics of Reading" on March 28, 2001 at 7:30 pm in 335 Ortega Hall.

"Poesía y prosa en voz alta: Homenaje a la mujer Mexicana," co-sponsored with the Department of Education and the Mexican Consulate. "Sor Juana Inés de la Cruz", presented by Professor Patricia Rosas Lopátegui, "Monólogo" by Professor Nancy García, "Rosario Castellanos" by Professor Tey Diana Rebolledo, and "Angeles Mastretta" by Professor Judy Maloof on March 31, 2001 at the Kiva Auditorium. Professor Margo Milleret was the Creative Director for the event.

Spanish and Portuguese Historical Studies Conference. Co-sponsored by the Department took place April 19 – 22, 2001 in Santa Fe.

Colloquium: Latin American and Chicana Literature, papers presented by Spanish 601 - Literary Theory students on May 3, 2001 at 1:00 pm in room 335 and 435 of Ortega Hall. Presenting were graduate students Benito Quintana-Owen, José Bañuelos, Shelli Rottschafer, Nikko Harada, and Olga Ríos-Soria. Organized and moderated by Professor Miguel López

Margarita Cota-Cárdenas – poet, novelist , and critic read from her novel "Puppet" and other works on April 27, 2001 at 1:00 pm in 335 Ortega Hall. Professor Tey Diana Rebolledo organized the event.

Sociolinguistic Symposium on Language Variation in New Mexico, the Spanish 546 and 549/Linguistics 433 and 539 students presented findings in linguistic variability in different New Mexico communities, on May 4, 2001 at 9:00 am in 335 Ortega Hall. The event was organized by Professor Rena Torres Cacoullos.

Esteban Arellano reading *Inocencio: Ni Pica, Ni Escarba, Pero se Come el Elote más Grande* at 2:00 pm in the Ortega Hall Lounge on May 1, 2001. Professor Tey Diana Rebolledo organized the event.

B. INVITED TALKS

Enrique Lamadrid

1. "Santiago and San Acacio: Slaughter and Deliverance in the Foundational Legends of Colonial and Post-Colonial New Mexico." The Recovering the U.S. Hispanic Literary Heritage Conference; December 1, 2000 at the University of Houston, Texas.

Susan Rivera

1. "Hacia la luz: la poesía de Claudio Rodríguez." The Feria Internacional del Libro; November 2000 in Guadalajara, Mexico.

Nuria Sagarra

1. "¿Simplificar o no simplificar? El papel del discurso del profesor en la comprensión oral de una lengua extranjera." May 10, 2001 at the Universitat de Girona in Spain.

Rena Torres Cacoullos

1. "Variación en las funciones de la forma *le* en el Español mexicano." XIII Congreso de la Asociación Alemana de Hispanistas; March 8 – 11, 2001 at the

Universität Leipzig in Germany.

C. PUBLICATIONS

Garland Bills

Articles in Referred Scholarly Journals:

1. "Ashes to Ashes: The Historical Basis for Dialect Variation in New Mexican Spanish." *Romance Philology* 53:1 (Fall 2000): 43-67. Co-author: Neddy A. Vigil.
2. "Spanish Home Language Use and English Proficiency as Differential Measures of Language Maintenance and Shift." *Southwest Journal of Linguistics* 19:1 (2000): 11-27. Co-authors: Alan Hudson, Eduardo Hernández Chávez.

Book Chapter:

1. "The Continuity of Change: Nahuatlisms in New Mexican Spanish." *Research on Spanish in the United States: Linguistic Issues and Challenges*, Co-author: Neddy A. Vigil. ed. Ana Roca. Somerville, MA: Cascadilla Press, 2000. 137-53.

Anthony J. Cárdenas-Rotunno

Book Chapter:

1. "El *Lapidario* alfonsí: la fecha problemática del códice escurialense h.I.15." In *Actas del XIII Congreso de la Asociación Internacional de Hispanistas, Madrid, 6-11 de julio de 1998, vol.I: Medieval, Siglos de Oro.* Florencio Sevilla and Carlos Alvar, eds. Madrid: Asociación Internacional de Hispanistas, Castilla, Fundación Duques de Soria 2000. 81-87.

Adriana Estill

Article in Book:

1. "The Mexican Telenovela and its Foundational Fictions." *Latin American Literature and the Mass Media.* Eds. Debra Castillo, Edmundo Paz-Soldán. NY: Garland, 2000.

Articles in Referred Scholarly Journals:

1. "(Micro)Scoping the Body: The Green Poetics of Coral Bracho." *Hispanófila* 129 (2000): 99-116.
2. "The Mexican Telenovela's Tidy Nation." *Chasqui* 29.1 (2000): 75-87.

Book Reviews:

1. "Elvis Refried: The Rise of the Mexican Counterculture." Eric Zolov. Berkeley: University of California Press. *Arizona Journal of Hispanic Cultural Studies* 4 (2000): 320-21.

Multiple Essay Reviews:

1. "Mapping the Minefield: The State of Chicana/o and U.S. Latino/a Literary and Cultural Studies." *Latin American Research Review* 35. 3 (2000): 241-50.

Michael Kidd

Book Reviews:

1. "The Physician of His Honour. (El médico de su honra)." Pedro Calderón de la Barca. Translated by Dian Fox and Donald Hindley. Liverpool: Liverpool University Press. *Bulletin of Hispanic Studies* 72 (2000): 132-33.

Enrique Lamadrid

Articles in Referred Scholarly Journals:

1. "El Corrido de Tomóchic: Honor, Grace, Gender and Power in the First Ballad of the Mexican Revolution." *Journal of the Southwest* 41,4 (Winter 1999): 441-60.
2. "Cielos del Norte, Alma del Río Arriba: Nuevo Mexicano Folk Music Revivals, Recordings 1940-1998." *Journal of American Folklore* 113, 449 (Summer 2000): 314-22.

Articles in Popular Journals:

1. "Los Chileros." *Herencia del Norte* XXVII (Fall 2000): 48-49.

Book Authored:

1. *Nuevo México Profundo: Rituals of an Indo-Hispano Homeland.* Miguel Gandert, photographer; Ramón Gutiérrez, Lucy Lippard, Chris Wilson, co-authors. Santa Fe, NM: Museum of New Mexico Press, 2000.

Book Chapter:

1. "Los Comanches: Text, Performance, and Transculturation in an 18th Century New Mexican Folk Drama." *Recovering the U.S. Hispanic Literary Heritage Vol.3* Francisco A. Lomelí and Carl R. Shirley, eds. Houston, Arte Público Press. (2000): 173-88.
2. "The Spirit of the Río Grande/Río Bravo: Land, Water, and Cultural Identity." *Smithsonian Folklife Festival 2000 Guidebook.* Washington, D.C. Smithsonian Center for Folklife and Cultural Heritage 2000. 77-86.

Book Edited:

1. *Selected Poetry of Cecilio García-Camarillo.* Houston: Arte Público Press, 2000.

Exhibitions:

1. "Desde Nuevo México, con Sentimiento." Co-curators Mari Lynn Salvador, Sam Howarth. Museo de América, Madrid, Spain (October 2000 – March 2001). Barcelona, Granada (until Fall 2002).

Kimberle López

Book Chapter:

1. "Naked in the Wilderness: The Transculturation of Cabeza de Vaca in Abel Posse's *El largo atardecer del caminante.*" *A Twice-Told Tale.* Ed. Santiago Juan-Navarro and Theodore R. Young. Newark and London: University of Delaware Press, 2000. 149-65.

Book Reviews:

1. "Pirate Novels: Fictions of Nation Buildings in Spanish America." By Nina Gerassi-Navarro. *Colonial Latin American Historical Review* 9,3 (Summer 2000): 383-85.

Judy Maloof

Articles in Referred Scholarly Journals:

1. "Una novela polifónica el testimonio, la historia y la ficción en *Un dia en la vida* de Manlio Argueta." *Decenio: Revista centroamericana de cultura* 4, 18-19 (Fall 2000): 3-9.

2. "Un bildungsroman femenino: *Mal de amores* de Angeles Mastretta." *Revista de literatura mexicana contemporánea,* 11.5 (Fall 1999): pp. 36-43

Book Review Article:

1. "Recovering and Discovering Another Perspective: Recent Books on Latin American Women Writers." *Latin American Research Review* 35, 1 (2000): 243-55.

Kathryn McKnight

Book Reviews:

1. "Colonial Angels: *Narratives of Gender and Spirituality in Mexico, 1580-1750.*" By Elisa Sampson Vera Tudela. *Colonial Latin America Historical Review* 9. 2 (2000): 306-08.

Margo Milleret

Articles in Referred Scholarly Journals:

1. "Staging Sex and the Mid-Life Woman in Mariela Romero's *Esperando al italiano.*" *Revista de estudios hispánicos* 34 (Spring 2000): 247-60.

Book Reviews:

1. "Yo sólo soy memoria." Patricia Rosas Lopátequi. *Alba de América* 1935-36 (2000): 465-67.
2. "Teaching and Performing: Ideas for Energizing Your Classes." By William M. Timpson, Suzanne Burgoyne, Christine S. Jones and Waldo Jones. *Latin American Theatre Review* 33.2 (2000): 183-84.

Creative Work:

1. Poetry reading and music, "La mujer mexicana: su poesía y canción." March 9, 2000, Rodey Theatre. Creative director.

Tey Diana Rebolledo

Book Chapter:

1. "Introduction." *Romance of a Little Village Girl.* Cleofas Jaramillo. Albuquerque: University of New Mexico Press, 2000. xv-xxvii.
2. "Introduction-Foreward." *Puppet.* Margarita Cota-Cárdenas. Albuquerque:

University of New Mexico Press, 2000. xiii-xxii.

Book Edited:

1. *Women's Tales From the New Mexico WPA: La Diabla a Pie.* Co-editor, Teresa Márquez Houston: Arte Público Press, 2000. .

Susan Rivera

Book Edited:

1. *Claudio Rodríguez. Una antología.* México D.F.: Consejo Nacional Para la Cultura y las Artes.

Rena Torres Cacoullos

Articles in Referred Scholarly Journals:

1. "Lexical frequency and voices libiodental-bilabial variation in New Mexican Spanish." *Southwest Journal of Linguistics* 19. 2 (2000): 1-17. Co-author Fernanda Ferreira.

Book Authored:

1. *Grammaticization, Synchronic Variation, and Language Contact.* Amsterdam/Philadelphia: Benjamins, 2000.

Book Reviews:

1. *Verbal periphrases in a functional grammar.* By Hella Olbertz. *Studies in Language* 24. 2 (2000): 462-69.

D. PAPERS READ BY FACULTY

Garland Bills with Neddy A. Vigil

1. "Trans-Border Dialect Geography: The Spanish of Mexico and New Mexico." The Linguistic Association of the Southwest annual meeting; October 12-15, 2000 in Puebla, Mexico.

Anthony J. Cárdenas-Rotunno

1. "(Mis) Reading the Libro de buen amor: Ambiguous Example and Exemplar Ambiguity." The 35th International Congress on Medieval Studies;

May 2-6 , 2001 in Kalamazoo, Michigan.

2. "Woman in the Scientific Writings of Alfonso X, el Sabio." The Kentucky Foreign Languages Conference; April 18-22, 2001 in Lexington, Kentucky.
3. "Bregando con Belcebú. Dos aproximaciones al pacto diabólico en la literatura medieval española." The Octavas Jornadas Medievales Conference; September 19-22, 2000 in Mexico City, Mexico.

Adriana Estill

1. "Our Beauty, Ourselves: Making Chicana Beauty." The National Association of Chicana/Chicano Studies; April 4-8, 2001 in Tucson, Arizona.
2. "The Marketing of Latinas: Magazines and Multicultural Beauty." The Southwest/Texas Popular Culture Association and American Culture Association; March 7-10, 2001 in Albuquerque, New Mexico.

María Dolores Gonzales

1. "El reto de enseñar español como lengua de herencia en Nuevo México." The LASSO 2000 Conference; October 11-15, 2000 in Puebla, México.
2. "El reto de enseñar español como lengua de herencia en Nuevo México." The Coloquio International de Fronteras de Baja del Sur México; February 2001 in Baja California, Mexico.

Enrique Lamadrid

1. "Santiago and San Acacio: Slaughter and Deliverance in the Foundational Legends of Colonial and Post-Colonial New Mexico." The Recovering the U.S. Hispanic Literary Heritage Conference; December 1, 2000 at the University of Houston, Texas.

Kimberle López

1. "El deseo colonial en *1492 y Memorias del Nuevo Mundo* de Homero Aridjis." The Sexto Congreso de Literatura Mexicana Contemporánea 2001; March 1-4, 2001 in El Paso, Texas.

Miguel López Lozano

1. "Desplazamientos de la palabra y la subjetividad en *Crónicas desde el país vecino* y 'Rainbows at Seven Eleven' de Luis Arturo Ramos." The Sexto Congreso de Literatura Mexicana Contemporánea 2001; March 1-4, 2001 in El Paso, Texas.

Judy Maloof

1. "Photographs and Fictional Autobiography in Norma Cantú's *Canícula*." The National Association of Chicano/a Studies Conference; April 5-7, 2001 in Tucson, Arizona.
2. "Multiples perspectivas sobre la frontera y desencuentros interculturales en *El jardín de edén* y *Born in East L.A.*" The Coloquio Internacional: La frontera: Una nueva concepción cultural; March 1-4, 2001. La Paz, Baja California, Mexico.

Kathyrn McKnight

1. "Stories of the Devil and his Power: Afro-Mexican Slaves' Representations of Themsleves and Colonial Society." The Kentucky Foreign Languages Conference; April 18-22, 2001 in Lexington, Kentucky.

Margo Milleret

1. "Bedmates Behaving Badly: Political and Sexual Repression in Two Brazilian Women's Plays." The American Portuguese Studies Association; October 19-21, 2000 in Madison, Wisconsin.

Tey Diana Rebolledo

1. "Finding the Voices: The New Mexico WPA." The Recovering the U.S. Hispanic Heritage Conference; December 1, 2000 at the University of Houston, Texas.
2. "La Nueva Onda: New Voices in Chicana Literature." The National Association of Chicano Studies Conference; April 4-7, 2001 at the University of Arizona, Tucson.

Susan Rivera

1. "Hacia la luz: la poesía de Claudio Rodríguez." The Feria Internacional del Libro; November 2000 in Guadalajara, Mexico.

Nuria Sagarra

1. "The Loss of Parsing Strategies in Spanish-English Bilinguals. Evidence from Eye-movement." The 3rd International Symposium on Bilingualism; April 16 – 21, 2001 in Bristol, England.
2. "The Acquisition of L2 Grammatical Forms with High and Low Communicative Value." The Fourth Hispanic Linguistic Symposium; November 11-19, 2000 at the University of Indiana.

Rena Torres Cacoullos

1. "Dialectología urbana" rural: La estratificación social de (r) y (l) en código, Panamá." The LASSO 2000 Conference; October 11-15, 2000 in Puebla, Mexico.

E. Papers Read By Graduate Students

José F. Bañuelos

1. "Elvio Romero y la experiencia del exilio." The Colloquium on Latin American and Chicana Literature; May 4, 2001 at the University of New Mexico, Albuquerque.

Esther Lynn Brown

1. "La reducción de la /s/ inicial en el habla de Chihuahua, Mexico." The 29th Meeting of the Linguistic Association of the Southwest; October 13-15, 2000 in Puebla, Mexico.
2. "(s): A different story from beginning (initial) to end (final)." (Paper co-author, Rena Torres Cacoullos) The 31st Meeting of the Linguistic Symposium of Romance Languages; April 19-22, 2001 in Chicago, Illinois.

Patricia M. Cano

1. "Code-Switching and Borrowing: Code-Switching with Friends vs. Code-Switching with New Acquaintances." The Sociolinguistic Symposium on Language Variation; May 4, 2001 at the University of New Mexico, Albuquerque.

2. "The Effects on Focus on Form on the Written Production of Students of Spanish as a Heritage Language." The First Graduate Colloquium on Second Language Acquisition; December 5, 2000 at the University of New Mexico, Albuquerque.

Patricia Catoira

1. "Los guerrilleros negros de César Leante: el bildungsroman *Cimarrón*." The 10th Annual University of New Mexico Conference on Ibero-American Culture and Society, February 15-16, 2001 in Albuquerque, New Mexico.

Mayra Cortés-Torres

1. "'There's People': Analyzing variation in existential verb agreement in Albuquerque South Valley English." Co-presented with Risa Araki, Jens Clegg, Jun Sato and Mark Waltermire at the Sociolinguistic Symposium on Language Variation in New Mexico; May 4, 2001 at the University of New Mexico, Albuquerque.
2. "Checking Boundaries: Testing the Equivalence Constraint." Co-presented with Esteban Hernández, María-Josep Jarque, and Sherry Niccolai at the Sociolinguistic Symposium on Language Variation in New Mexico; May 4, 2001 at the University of New Mexico, Albuquerque.
3. "Immediate L2 Vocabulary Recall in Processing Instruction." The First Graduate Colloquium on Second Language Acquisition; December 5, 2000 at the University of New Mexico, Albuquerque.

Miguel Estrada

1. "The influence of Gothic Literature in Aura by Carlos Fuentes." The Colloquium on Latin American and Chicana Literature; May 4, 2001 at the University of New Mexico, Albuquerque.

Fernanda Ferreira

1. "Lexical Frequency in Brazilian Portuguese." The 4th Annual High Desert Linguistic Society Spring Conference; March 30-31, 2001 Albuquerque, New Mexico.

Benito Quintana

1. "El talxcalteca visto por el extranjero: la homogeneización de América y la colonización espirtitual en el Coloquio de la nueva conversión y bautismo de los cuatro últimos reyes de Tlaxcala en la Nueva España." The Colloquium on Latin American and Chicana Literature; May 4, 2001 at the University of New Mexico, Albuquerque.

Olga Ríos Soria

1. "(Re)Enmarcando al 'Otro' en *El jardín del Edén*, de María Novaro." The 5th Symposium on Mexican Popular Culture; March 29-30, 2001 at Arizona State University and at The Colloquium on Latin American and Chicana Literature; May 4, 2001 at the University of New Mexico, Albuquerque.

Alex Gomes de Sousa

1. "The Effects of Learning Styles on Word Recall and Word Recognition in L2 Reading Comprehension." The 11th Annual Graduate Student Symposium; Febuary 15, 2001 at the University of Arizona, Tucson.

Mark Waltermire

1. "Vowel Reduction in Sonoran Spanish: A Preliminary Study." The 11th Annual Graduate Student Symposium; February 16, 2001 at the University of Arizona, Tucson.
2. "Gender Assignment and Article Use in the Language Mixing of Mora New Mexico." Co-presented with Jens Clegg, Diego Deane, Shoshana Handel, and Phillip Guengerich at the Sociolinguistic Symposium on Language Variation in New Mexico, May 4, 2001 at the University of New Mexico, Albuquerque.
3. "There's people: Analyzing Variation in Existential Verb Agreement in Albuquerque South Valley English." Co-presented with Risa Araki, Jens Clegg, Mayra Cortés-Torres and Jun Sato at the Sociolinguistic Symposium on Language Variation in New Mexico, May 4, 2001 at the University of New Mexico, Albuquerque.

F. Others Research Projects of Creative Works in Progress or Completed.

Garland Bills

1. Continuing research on the New Mexico/Colorado Spanish Survey with Neddy A. Vigil, unfunded during 2000.
2. Continuing research on Spanish-English bilingualism based on U.S. Census data With Eduardo Hernández Chávez and Alan Hudson, unfounded during 2000.

Enrique Lamadrid

1. Producer, recordist of audio recordings Coro de San José. "Pastorcitos del Valle Llegad: Música para una Navidad Nuevo Mexicana." Santa Fe: Peregrinos Productions, 2000. CD with notes of Nuevo Mexicano Christmas music.

Kimberle Lopez

1. Naked in the Wilderness: The Transculturation of Cabeza de Vaca in Abel Posse's *El largo atardecer del caminante*. A Twice-Told Tale: Re-inventing the Encounter in Iberian/Iberian-American Literature and Film. Ed. Santiago Juan-Navarro and Theodore Robert Young Newark: University of Delaware Press; London: Associated University Presses, 2000. 149-65.
2. Review of *Pirate Novels: Fictions of Nation Building in Spanish America*, by Nina Gerassi-Navarro. Colonial Latin American Historical Review 9.3 (2000): 469-70.
3. "Eros and Colonization: Homosocial Colonial Desire and theendered Rhetoric of Conquest in Herminio Martinez's *Diario maldito de Nuño de Guzmán*." *Chasqui* 30.1 (2001): 94-114.
4. The Anxiety of Identification: Colonial Desire in the New Latin American Novel of the Conquest, book manuscript accepted for publication at the University of Missouri Press.

Miguel López

1. "Transculturación y resistencia *en Crónica de las destrucciones* de Olivier Debroise" *Chasqui*: accepted and forthcoming in *Revista de Literatura Latinoamericana* 30.1 (May 2001) 43-62.

2. "Traces of Red: History as Mystery Guy García's Obsidian Sky " accepted by *Chicano Detective Novel Anthology*, ed. Tey Diana Rebolledo and Teresa Márquez, submitted to UNM Press.
3. "Intersecciones de la historia y la subalternidad en *Oficio de tinieblas y Ascensión Tun*," submitted to *Revista de literatura mexicana contemporánea.*
4. "The Politics of Blood: Miscegenation and Transculturation in Alejandro Morales's The Rag Doll Plagues," submitted to *Aztlán.*
5. Book in Progress: *Mexican Dreams, Postmodern Nightmares.*
6. "La descolonización del sujeto indígena a través de la reescritura de la historia en *Oficio de tinieblas* de Rosario Castellanos" (article in progress).
7. "La retórica del viaje en Luis Arturo Ramos" (article in progress).

Kathryn McKnight

1. Paper in Progress "'La carta de Sor Filotea': Censure or Sanction?" for Mid-America Conference on Hispanic Literatures, October 4-6, 2001 Lexington, Kentucky.
2. Paper in progress "Contested Identities: Afro-Mexican Slaves Exercising Power to Contest Knowledge in Inquisition Trials" for XXIII International Congress of the Latin American Studies Association, September 6-8, 2001

Margo Milleret

1. Finished essay "Social Customs"for "Culture and Customs of Brazil" ed. Jon S. Vincent. Forthcoming from Greenwood Press, 2001.
2. "'Staging Sex and the Mid-Life Woman in Mariela Romero's "'Esperando al italiano'" *Revista de estudios hispánicos* 34 (Summer 2000): 247-260.

Susan Rivera

1. Book project in progress: *Valle-Inclán and the Subversion of the Modernist Canon.*

G. Activities in Learned and Professional Societies

Garland Bills

1. Chair, Local Arrangement Committee, 30th Annual Meeting of the Linguistic Association of the Southwest.
2. Reviewer of article manuscripts for Southwest Journal of Linguistics.

Anthony Cárdenas

1. Executive Committee of the Cervantes Society of America.
2. Co-organizer of "Medieval Spain: Land of Three Cultures." The Institute for Medieval Studies Spring 2001 Lecture Series, March 19 –22, 2001 at the University of New Mexico.
3. Editorial Board reader, La Corónica.

Adriana Estill

1. Chair and panelist of "Bien Pretty: The Beauty and Bodies of Latinas in Literature and the Media" at the National Association of Chicano/a Studies Conference, April 4-7, 2001 Tucson, Arizona.

Miguel López

1. Proposed session entitled "Postnational Imaginaries in Latin America" for Modern Language Association of America, New Orleans December 2001.
2. Proposed session entitled "Reading Chiapas: A Critique of Aesthetic Agency in Times of Crisis" for Latin American Studies Association International Conference Washington, DC, September, 2001.

Tey Diana Rebolledo

1. Executive Council: Modern Language Association.
2. Elections Committee.
3. Delegate Assembly of the Modern Language Association.

Susan Rivera

1. Refereed an article for *Latin American Research Review.*
2. Refereed and edited a book manuscript: Manuel Lombardero. *Ramón de Campoamor y su mundo* for Editorial Planeta, Barcelona, Spain.

Jon Tolman

1. Editor of BRASANet (listserve) and BRASAUS (web site) for BRASA.

Rena Torres Cacoullos

1. Editoral Board, Southwest Journal of Lingusitics.

H. Other Professional Activities (exhibits, off campus talks, etc.)

Garland Bills

1. External evaluator of candidate for tenure and/or promotion at College of Wooster.
2. Refereed of article manuscripts for Hispania.
3. Refereed of article manuscripts for Southwest Journal of Linguistics.

Anthony J. Cárdenas-Rotunno

1. General welcoming comments and introductions for "Esta es mi tierra." Instituto Cervantes, National Hispanic Cultural Center of New Mexico, and the University of New Mexico at the National Hispanic Cultural Center of New Mexico in Albuquerque, May 8, 2001.
3. External evaluator for tenure and promotion of Professors Purificación Martínez, University of South Carolina-Spartanburg and Gregory Kaplan, University of Tennessee-Knoxville.

Adriana Estill

1. Chair and panel, "Bien Pretty: The Beauty and Bodies of Latinas in Literature and the Media." National Association of Chicana/Chicano Studies. Tucson, Arizona, April 4 – 8, 2001.
2. Chair and panel, "Race, Representation, and the Media." Southwest /Texas

Popular Culture Association and American-Culture Association. Albuquerque, New Mexico, March 7 – 10, 2001.

María Dolores Gonzales

1. Taught Spanish as a Heritage Language Class at Valle Vista Elementary School for parents, educational assistants and other community members. Fall 2000.
2. Bilingual mediator in Metro Court.

Michael Kidd

1. Directed the play and following round table discussion of "Auto de los Reyes Magos, Play of the Three Wise Men" presented March 23, 2001 for the Medieval Studies Conference 2001.

Enrique Lamadrid

1. Keynote address "Cultural Preservation" at the New Mexico Hispanic Council on Aging, October 13, 2000.
2. Gave a talk "La Cultura Indo-Hispana: Desafíos de Investiagación y Representación." Santa Fe Festival of the Book: the Enchantment of Reading, October 14, 2000.
3. National Hispanic Culture Center (Inaugural Exhibit) "Nuevo México Profundo: Rituals of an Indo-Hispano Homeland." With Miguel A. Gandert, photographer. October 2000 – May 2001 in Albuquerque, New Mexico.
4. The Maxwell Museum exhibit: "The Pilgrimage to Chimayó: A Contemporary Portrait of a Living Tradition," with photographs, oral histories, and music. Included in the "Desde Nuevo México, con Sentimiento" exhibit at the Museo de América in Madird, Spain, October 2000 – March 2001, and at the Santa Fe de Granada in Barcelona, Spain, until fall of 2002.
5. "El Río: Culture and Environment in the Río Grande / Río Bravo Basin." Presenter, and field work coordinator. At the Smithsonian Folklife Festival, June 24 – July 4, 2000.
6. Organized and coordinated, "Los Pastores, The New Mexican Shepherds Play with La Gran Pastorela de Belén," at the University of New Mexico's Chapel on

November 29, 2000 at 7:00pm.

7. Promotion review for Guillermo Hernández at UCLA.
8. Manuscript review of Ricardo L. García's *Coal Camp Days in Chicorico: A Boy's Rememberance* for University of New Mexico Press.
9. Manuscript review of Don Usner's *Cuentos de Chimayó* for the Museum of New Mexico Press.
10. University of New Mexico liaison for Amigos de las Américas high school student project.
11. New Mexico Endowment for the Humanities Speakers Bureau Chautauqua and Lecture Series.

Miguel López

1. Reader for *Latin American Research Review.*

Margo Milleret

1. Invited participant at Luso-American Foundation to develop proposals for support of Portuguese programs in U.S. universities, December 2000.
2. Creative Director for the program "Poesía y prosa en voz alta." Sponsored by the Mexican Consulate on March 31, 2001.
3. Invited respondent by the Brazilian Embassy to the conference on Brazilian Studies 1945 – 2000 in Washington D.C., in December of 2000.
4. Chaired the session called "Falando de Teatro" at the American Portuguese Studies Association conference.
5. Coordinated the Kirsten Nigro performance of the play "Baby Boom in Paradise" by Ana Istarú presented during the 10th Annual University of New Mexico Conference on Ibero-American Culture and Society on February 16, 2001.
6. Director of the Portuguese Summer Program in Fortaleza, Brazil for University of New Mexico's International Programs, June 1 – 30, 2001.

Tey Diana Rebolledo

1. Radio show, "New Mexican Customs and the Department of Spanish at the

University of New Mexico," December 2000.

2. "Nuevomexicanas." Presented to the Albuquerque Chamber of Commerce Leadership Class, Fall 2000.

Nuria Sagarra

1. Conducted a workshop on "The Field of Second Language Acquisition and the Job Market in the States." May 10, 2001 at the Universitat de Girona in Spain.

I. NON-TEACHING UNIVERSITY, COLLEGE, AND DEPARTMENT SERVICE

Garland Bills

1. Search Committee for Spanish Linguistic position.
2. Spanish and Portuguese Activities Committee.
3. President of LAII Policy Committee.
4. Faculty Concilium on Latin America and Iberia.
5. Interdisciplinary Committee for Latin American Studies
6. Coordinating Committee for Educational Linguistics
7. Director of Dissertation for Walter Archuleta.
8. Director of Dissertation for Ysaura Bernal-Enríquez.
9. Director of Dissertation for Esther Lynn Brown.
10. Director of Dissertation for Myriam Eguía.
11. Director of Dissertation for Arturo Fernández-Gibert.
12. Director of Dissertation for Fernanda Ferreira.
13. Director of Dissertation for Jose Esteban Hernández.
14. Director of Dissertation for Kyung Huer.
15. Director of Dissertation for Eduardo López.
16. Director of Dissertation for Alfred Matiki.
17. Director of Dissertation for Michael Pagel.
18. Director of Dissertation for Martha Ruiz García.
19. Director of Dissertation for Maria Trillo.

20. Member of dissertation committee for Paromita Chakraborti.
21. Member of dissertation committee for Jacqueline Trademan.
22. Comprehensive examiner for graduate degree candidates in Spanish and Portuguese.
23. Comprehensive examiner for graduate degree candidates in Latin American Studies.

Anthony J. Cárdenas-Rotunno

1. Chair, Department of Spanish and Portuguese.
2. Director of Dissertation for Marcos Romero.

Adriana Estill

1. Spanish and Portuguese Undergraduate Committee.

María Dolores Gonzales

1. Title V Proposal Preparation Committee. Retention of Hispanic Students at the University of New Mexico, Fall 2000.
2. Subcommittee member of Cultural Diversity and Curriculum Development.
3. Departmental Graduate Committee.
4. Departmental Undergraduate Committee.
5. Faculty member for Conflict Resolution Program at UNM.
6. Guest Speaker on Spanish as a Heritage Language in Professor Estela Martínez's Family Studies Class, Fall 2000.
7. Director of Jennifer Dean's Honor Thesis, "El cambio de código; Like a Rock." Fall 2000.

Michael Kidd

1. Spanish and Portuguese Graduate Committee.
2. LAII Allocations and Awards Committee.
3. Chair of Spanish and Portuguese Merit and Salary Committee.
4. Director of Dissertation for Benito Quintana.

Enrique Lamadrid

1. Spanish and Portuguese Departmental Honors Advisor.
2. UNM Press Committee.
3. Fine Arts Dean Advisory Committee.
4. Thesis and dissertation committee member for Raquel Silva. MA
5. Thesis and dissertation committee member for Xochitl Estrada Shuru, Ph.D.
6. Research Opportunity Program mentorship, David García.
7. Research Opportunity Program mentorship, Julie LeChalk.
8. McNair Fellows mentorship, Theresa Sandoval.
9. Obtained an internship at the Smithsonian Center for Folklife and Cultural Heritage for David García.

Kimberle López

1. Conducted Workshop on the Unwritten Rules of Graduate School.
2. Conducted Mock Interviews for MLA job candidates.
3. Spanish and Portuguese Graduate Advisor.
4. Spanish and Portuguese Graduate Committee.
5. Chair, Latin American and Iberian Institute Publications Committee.
6. Latin American and Iberian Institute Policy Committee.
7. Dissertation committee member for Paul Goldberg.
8. Dissertation committee member for Shigeko Mato.
9. Thesis committee member for Gilson Borges.
10. Chair of Committee on Studies for PhD Exams for Patricia Catoira.
11. Co-organized Tenth Annual Conference on Ibero-American Culture and Society, Latin American Literature, Technology, Ideology, Spanish and Portuguese.

Miguel López

1. Mock Interviews for MLA Job Candidates.
2. Spanish and Portuguese Undergraduate Committee.
3. Spanish and Portuguese Activities Committee.

4. Chair, Latin American and Iberian Institute Programs Committee.
5. Latin American and Iberian Institute Policy Committee.
6. University New Faculty Committee.
7. Dissertation Committee member for Paul Goldberg.
8. Committee on Studies for PhD Exams for Patricia Catoira.

Judy Maloof

1. Committee on Studies for PhD Exams for Patricia Catoira.
2. Dissertation Committee member for Rosa Campos.
3. Committee of Studies and Thesis Committee for Erin Amason.
4. Committee of Studies and Thesis Committee for Melba Amador.
5. Faculty Senate member.
6. Graduate Studies Committee.
7. Co-organized Tenth Annual Conference on Ibero-American Culture and Society, Latin American Literature, Technology, Ideology, Spanish and Portuguese.

Kathryn McKnight

1. Spanish and Portuguese Activities Committee.
2. Spanish and Portuguese Undergraduate Studies Committee.
3. Committee on Studies for PhD Exams for Benito Quintana.

Tey Diana Rebolledo

1. Sabbatical Leave Committee, College of Arts and Sciences.
2. Search Committee, Dean of the College of Arts and Sciences.
3. Strategic Planning Working Committee: Faculty Development, Recruitment and Retention.
4. Chair of Search Committee for Position in Linguistics, Department of Spanish and Portuguese.
5. Undergraduate Advisor for Spanish.
6. Committee of Undergraduate Advisors.

7. Regent's Professor, 1999 – 2002.

Susan Rivera

1. Arts and Sciences Junior Tenure and Promotion Committee.
2. Search Committee for Interim Dean of Arts and Sciences.
3. Spanish and Portuguese Graduate Studies Committee.
4. European Studies Program.
5. Spanish and Portuguese Advisory Committee.

Nuria Sagarra

1. Search Committee for Spanish Linguistic position.

Jon Tolman

1. Spanish and Portuguese Merit and Pay Committee.
2. Arts and Sciences ICLAS Committee.
3. Associate Director for Luso-Brazilian Programs.
4. LAII Grants and Awards Committee.
5. LAII Policy Committee;.
6. Review Editor, Latin American Research Review.

Rena Torres Cacoullos

1. Coordinated 2000 Alfred Rodríguez lecture series.
2. Search Committee for Spanish Linguistic position.

J. DIVERSITY

The last academic year the Department maintained its pursuit of diversity, making efforts to attract women and minority groups. This past year, the Department issued contracts to forty-five teaching assistants, seventeen were Hispanics. Women accounted for sixty percent of the total, of which nine were Hispanic. A total of sixteen lecturers taught on a part-time basis, fourteen of them were women and seven of them were of Hispanic origin.

The work study team was composed of five students, three were of Hispanic origin and three were women.

Annual Report
Department of Speech and Hearing Sciences
July 1, 2000 – June 30, 2001

Submitted by
Amy B. Wohlert
Professor and Chair, Department of Speech and Hearing Sciences

I. Significant Developments

A. Mission

The faculty adopted a new mission statement in May, 2001:
The mission of the Department of Speech and Hearing Sciences at the University of New Mexico is to:
a) support the missions of the University and the College of Arts and Sciences.
b) create and disseminate knowledge in the academic disciplines of communication sciences and disorders.
c) pursue excellence in clinical services as an applied component of students' education, as a component of research endeavors, and as a benefit to the community.
d) increase the participation of culturally diverse populations in our disciplines and prepare our students to be leaders in a multicultural and multilingual society.

B. Faculty and Staff

Pre- and Post-Tenure Guidelines for faculty performance and an Annual Review procedure for faculty were developed, as were Performance Review documents and procedures for all staff.

C. Curriculum

Following an unsuccessful search for an additional faculty member in audiology, the faculty voted to suspend admissions to the graduate program in audiology for the second year in a row. This is the third unsuccessful search for an audiologist that the department has conducted, reflecting a nationwide shortage of PhD audiologists and increased demands for new faculty as AuD programs are developed.

The faculty voted to discontinue the ITV undergraduate distance education program. Funding was never received to expand the program to the master's level and the courses required significant additional work from faculty and part-time instructors, tended to decrease the quality of the educational experience for students, and served relatively few distance students. The final four students in the program completed their studies in Summer, 2001.

The assessment procedure was revised in the following manner: All instructors obtain ICES reports for every course taught. All faculty will obtain pre- and post-test measures on five

key content areas for every course taught. Opinion surveys from students (undergraduate majors and graduate students) will be obtained at graduation. Graduate program alumni and their employers will be surveyed at one year and four years post-graduation.

In an effort to improve efficiency and decrease dependence on part-time instructors, the number of courses offered more than one time per year was reduced and most summer semester courses, other than clinical practicum courses, were eliminated. SHS 535 will continue to be offered in the summer. SHS 458 was offered this year for the last time in summer semester. SHS 302, 303, 458, 533, and 534 will continue to be offered in both spring and fall semesters.

A new comprehensive examination policy was approved by the faculty and will be implemented beginning with students who enter in the fall of 2001. Students will write essays in four content areas. The National Teachers Examination in Speech-Language-Pathology or Audiology will no longer be a graduation requirement.

D. Clinic

The following chart indicates the quantity and type of sessions and the populations served by the UNM Speech-Language-Hearing Clinic from November, 2000 (when data collection began) through June, 2001.

month	sessions				age group				ethnicity					child find
	total	indiv.	group	diag.	pre-schl	schl age	yng adult	older	white	hisp.	black	native am.	asian	(no fee)
Nov	133	120	11	2	60	32	21	20	68	45	1	6	13	64
Dec	37	35	2	0	23	8	5	1	20	12	0	2	3	26
Jan	73	65	8	0	33	11	21	8	42	24	3	0	4	23
Feb	199	170	26	3	89	15	63	32	106	81	4	2	6	68
Mar	213	194	17	2	127	15	46	25	108	85	6	1	13	116
Apr	226	207	17	2	122	26	50	28	116	99	2	0	9	103
May	66	66	0	0	47	4	7	8	30	34	0	0	2	44
June	163	106	56	1	80	21	24	37	101	42	0	0	20	0

In addition to individual treatment for speech and language disorders, over the past year the clinic has provided group sessions for children with autism, adults with aphasia, and diagnostic and treatment sessions for clients wishing to modify their accents.

E. Acquisition of Equipment and Major Materials

Item	Source
Panasonic SV-3800 DAT recorder	Wohlert Start-Up Funds
AKG C420/B microphone	Wohlert Start-Up Funds
Dell XPS T800r computer & laser printer	Wohlert Start-Up Funds
Kay VisiPitch	Wohlert Start-Up Funds
Matlab & SigmaPlot software	Wohlert Start-Up Funds
Video monitoring system for clinic (5 units)	Wohlert Start-Up Funds
SpiroStar DX respiration measurement system	Wohlert Start-Up Funds

Dell Latitude C600 laptop computer	Wohlert Start-Up Funds
Powered speakers	Wohlert Start-Up Funds
Radio Shack sound level meter	Wohlert Start-Up Funds
Language Lab furnishings	Wohlert Start-Up Funds
Windaq/Codas data acquisition system	Wohlert Start-Up Funds
Medical scale	Wohlert Start-Up Funds
3 Computer carts	Wohlert Start-Up Funds
5 Dell Dimension L computers & printers	APS Contract
$20,000 in tests and materials for the clinic	APS Contract
4 Gateway Pentium 4 computers for student use	Arts & Sciences
Video monitoring system for Language Lab	Arts & Sciences
Tympanometer	Arts & Sciences

F. Communidad Crecer Exchange Program

In November, 2000, Amy Wohlert, Kate Blaker, and Saundra Anderson (public school OT) visited Communidad Crecer, the rehabilitation center in Mexico City that has served as an educational site for our students since 1991. In addition to performing evaluations of children at the school, counseling parents, and providing equipment and materials, the group consulted with the director, Dra. Gare Fabila de Zaldo, regarding plans for future involvement.

In order to cover airfare for UNM students and faculty's annual trip, we applied to many local and national agencies for support. We were able to secure $1500 from the Albuquerque SERTOMA Club and also $1000 from the College of Arts and Sciences. A group of four graduate students and four professionals is scheduled to go to Comunidad Crecer July 19-Auguest 4, 2001.

G. Southwest Conference

The 10th Annual Southwest Conference on Communicative Disorders was held March 8-9, 2001, at the Albuquerque Convention Center. The conference was presented by the UNM Chapter of the National Student Speech-Language-Hearing Association, and chaired by graduate student Joan Bade with the assistance of faculty advisor, Charlotte Lough. The keynote speaker was Dr. Jerilyn Logemann, ASHA President and ñoted researcher in the area of swallowing disorders. Approximately 250 students and professionals attended presentations by 19 locally and nationally recognized experts during the two-day event.

H. Physical Plant

The main building's interior walls and trim were painted and new blinds were installed. Outdated equipment and materials from all SHS locations were sent to salvage. Video monitoring systems were installed for five clinic treatment rooms and the Language Laboratory. Network computer cables were installed, allowing faculty and staff direct access to University and internet computer network resources.

II. Significant Plans and Recommendations

The department is looking forward to a Graduate Unit Review in fall of 2001, and expects future directions to be clarified following that process. A retreat was held in May, 2001 to determine general goals for the next few years. In addition to the revised mission statement, the following goals were addressed:

- improve research productivity
  - create faculty/staff teams to integrate research and clinic activities
  - consider adding an undergraduate research course
- improve curriculum
  - begin to infuse problem-based learning principles in all courses
  - explore relevant coursework in other departments
  - provide practical experiences for undergraduates
  - initiate curriculum revision in fall, 2001
- emphasize bilingual/multicultural education and education of under-represented groups
- investigate development of a doctoral program.

III. Appointments to Faculty and Staff

Bernadette Cortez, administrative assistant, began her 1.0 staff appointment on December, 7, 2000, filling a vacancy created by the departure of Mariposa Varela in June, 2000.

Amy Neel, PhD, was hired during a search process in AY 2000-2001 to replace Dr. Patrick Finn. Dr. Neel will begin her tenure track appointment as an assistant professor on August 13, 2001. During the same search process, we hired Phyllis Palmer, PhD, to fill the vacancy created in 1996 when Dr. Teri Hamill left the program. Dr. Palmer will begin her tenure track appointment as an assistant professor in August, 2002.

Christine Begay Vining, MS, was hired to fill the clinical supervisor vacancy created when David Yergerlehner departed in 1999. She will begin her duties as a .75 FTE clinical supervisor on August 13, 2001.

IV. Separations of Faculty and Staff

Patrick Finn, PhD, associate professor, left on July 31, 2000 to accept a faculty appointment at the University of Arizona.

V. Faculty Achievements

A. Publications

Ballachanda, Bopanna

The Frequency-Following Response (FFR): Effect of interaural time and level differences. *J American Academy of Audiology,* (2000) 11,1-11.

Middle latency and late latency evoked potentials. McPherson, M.D. & Ballachanda, B.B. (2000) In R.J. Roeser, *Diagnostic Audiology.* Thieme, New Yourk, NY.

Patterson, Janet

Observed and reported expressive vocabulary and word combinations in bilingual toddlers. *J. of Speech, Language and Hearing Research,* (2000) 43, 121-128.

Development of constructed phrases in a child with language impairment. *Clinical Linguistics and Phonetics,* (2000) 14, 545-556.

Wohlert, Amy

Lip Muscle activity related to speech rate and loudness. *Journal of Speech, Language and Hearing Research,* (2000) 43, 1129-1239

B. Presentations

Ballachanda, Bopanna

Cerumen Management Workshop. ASHA Convention, Washington, DC, November, 2000.

Patterson, Janet

Identifying IFSP outcomes: Where culture and collaboration merge. ASHA Convention, Washington, DC, November, 2000.

Internal consistency of parent reports of bilingual toddlers' vocabulary. ASHA Convention, Washington, DC, November, 2000.

Developing culturally appropriate individualized family service plans for infants and toddlers. Southwest Conference on Communicative Disorders, Albuquerque, NM, March, 2001.

Rodriguez, Barbara

Identifying IFSP outcomes: Where culture and collaboration merge. ASHA Convention, Washington, DC, November, 2000.

Acculturation: Diversity within cultural groups. ASHA Convention, Washington, DC, November, 2000.

Developing culturally appropriate individualized family service plans for infants and toddlers. Southwest Conference on Communicative Disorders, Albuquerque, NM, March, 2001.

Lough, Charlotte

Dazed and confused: A continuum of care for Traumatic Brain Injury. Four presentations sponsored by the NM Brain Injury Advisory Group, spring, 2001.

C. Selected Service

Ballachanda, Bopanna

President, Asian-Indian Caucus of the American Speech-Language-Hearing Association.

Chair, Committee on Cultural and Linguistic Diversity, America Academy of Audiology.
Vice-President for Convention, NMSHA

Patterson, Janet
Research Opportunities Program Mentor, summer, 2001

Rodriguez, Barbara
Vice-President, NMSHA Executive Board
Convention Chair, NMSHA
Project LIFE Mentor, spring, 2001

Wohlert, Amy
Site Visitor, ASHA Council on Academic Accreditation
Research Opportunities Program Mentor, summer, 2001

Lough, Charlotte
Member, NM Brain Injury Advisory Council
Board Member, Southwest NeuroRehabilitation Institute, Inc.

D. Honors, Awards

Rodriguez, Barbara
"TOADY" award for teaching excellence in speech-language pathology.

Ballachanda, Bopanna
"TOADY" award for teaching excellence in audiology.

VI. Outside Sponsored Programs

The department maintains a contractual arrangement with the Albuquerque Public School System. APS provided $78,924 for 2000-2001 to provide stipends and tuition for a graduate assistant and paid internships for two graduate students, partial salary support for two clinical supervisors and one administrative assistant, and funds for materials and operating expenses. In addition, four full-time clinical supervisors were paid by APS to supervise UNM graduate students in public school settings. This contract has been renewed annually since 1995.

VII. Students

A. Graduates

From fall, 2000 through summer, 2001, 39 master's students received their degrees. Of those reporting their employer, the following sites of employment were represented:

New Mexico public schools	61%
New Mexico health care facilities	12%
New Mexico private practice	10%

Out-of-state	17%

B. Theses

The following two students completed a thesis, both under the guidance of Dr. Ballachanda:

Chapman, Margaret	"Auditory brainstem responses to short duration vowels in humans."
Lund, Marci	"Brainstem response recovery function in young and older adults."

C. Honors and Awards

The following students reported honors received:

Hood Scholarship	Lucia Arriola-Story Cheryl Byrd Margaret Chapman Nancy Giblin Marci Lund
Crossman Scholarship	Ivonne Flores-Medieros
NSSLHA Officers	Joan Bade, President Miguel Montiel, Vice-President Amy Sellars, Treasurer
Golden Key Honor Society	James Martinez Crystal Valdez
Phi Beta Kappa, Phi Beta Phi	Stacey Wodehouse
Outstanding Pass, Comprehensive Issues Paper	Christina Dal Santo
UAF/LEND Grant	Maria Gillen

D. Applications

In 2000-2001, a total of 79 applications were received for the master's program in speech-language pathology. We accepted 42 of those applicants, and 27 enrolled in the program. Applications were not taken for the audiology program.

E. Enrollment

In spring of 2001, 78 undergraduate students majored in Speech and Hearing Sciences. An additional 10 students were taking coursework in the major but were registered in University

College. The master's degree program served 71 graduate students whose emphasis area was speech-language pathology and 8 students in audiology (all of the audiology students graduated in spring 2001 or summer 2001).

Women Studies Annual Report
July 1, 2000-June 30, 2001
Submitted by Cheryl Demerath Learn Ph.D.
Director of Women Studies Program

1. **Program Improvements:**

- Curriculum and Course Changes-Status of 3 courses was changed from TW to AOA. Implemented Outcomes Assessment interviews with graduates.
- Efforts to Strengthen Teaching-Lavinia Nicolae and Adriana Nieto attended the teaching course for teaching assistants. A fall 2000 meeting was held with students to garner in-put on the feasibility for an advanced theory class to be offered in fall of 2001.
- The number of Majors increased from 2 to 18 this year-the second year that Women Studies has had a major.
- Opportunities outside the classroom for students: Shayla Pasternack completed field work at the UNM Women's Resource Center. Kathy Cooper completed fieldwork at the Barrett House in spring of 2001. Two students completed fieldwork in the early summer of 2001. One student developed an educational peer program on date rape and one with renowned artist Judy Chicago in the "Flowers Internship".
- Efforts to Improve Student Recruitment and Retention: WM ST personnel staffed booths at Back to School Days, Joined the Pan Hellenic Women's Health Fair on Oct. 30 in the SUB, staffed a booth at the Major day on Nov. 20. Women Studies faculty and administrative assistant participated in the Lobo Lair days in May and June of 2001. The WMST web site was regularly updated with upcoming courses. Efforts were made to cross list courses with other programs.
- The Feminist Research Institute (FRI) awarded 3 faculty and two graduate student grants. A new director, Dr. Minrose Gwin was hired. The FRI sponsored a gathering of its research scholars. In fall, 2000 Dr. Carol Williams was the scholar in residence.

2. **Student Achievements**

- University Service: Junior Casey Mason helped in the organizing of the Water Rights Forum held at the Kiva on Monday Oct. 30, 2000. She raised monies from various departments at UNM to fund an international speaker.
- A WM ST major student implemented a support dinner group for Lesbian and Bi-sexual Women entitled Sappho's Suppers in conjunction with the Women's Resource Center.
- The Women Studies Honor Society Iota, Iota, Iota inducted its first members in May 2001.

3. **Faculty and Staff Achievements**

- Publications: Boehm, Deborah (2000). "From Both Sides": (Trans)nationality, Citizenship, and Belonging Among Mexican Immigrants to the United States". In Godziak, E. & Shandy, D.J. (Eds.) Rethinking Refuge and Displacement, p. 111-139. Mazumdar, Rinita (2000). A Little Book of Feminist Theory. Morcillo, Aurora (2001) True Catholic Womanhood: Gender Ideology in Franco's Spain. Lori Rudoph

has had a book chapter accepted for publication. Title of the book is not known at this time.

- Collaboration with Faculty in Other Universities or Departments. Acting director Cheryl Learn chaired the Curriculum Committee at the College of Nursing, and chaired the Doctoral Program Task Force in fall 2000. She chaired the Undergraduate Committee in spring 2001.
- Conference Presentations, Readings and Invited Lectures: Debbie Boehm, Lavinia Nicolae, and Cymene Howe all presented at the America Anthropology Association meeting in 2001. Rinita Mazumdar presented a paper at the National Women Studies Meeting. Cheryl Learn and Elizabeth Cahn presented at the NM Women Studies Conference in March, 2001.
- Prizes, Awards, or Fellowships: Announced on Sept. 18, 2000 Diane-Michelle Prindeville, Ph.D. received the best dissertation award for 1999 from the American Political Science Association section on Race, Ethnicity, and Politics. Dissertation Title was "On the Streets and in the State House: American Indian and Hispanic Women and Environmental policymaking in New Mexico". Director Cheryl Learn received the Second Annual Dean's Award from the College of Nursing for leading the task force that developed the curriculum for the Ph.D. in Nursing program. Ann Skinner-Jones from WMST and C&J received the first ever Adjunct teacher of the year award. Cymene Howe received the University of New Mexico International Excellence Award. Dana VonTilborg received a TA Outstanding Teaching Award. Debra Boehm received two fellowships: Washington State University Summer Graduate Fellowship and the David L. Boren Graduate Fellowship.
- Conference Presentations: Lavinia Nicolae, Cymene Howe and Debra Boehm presented at the American Anthropology Association.

4. **Faculty, Professional, Community, and University Service**

- The Women Studies Program jointly with the UNM Women's Resource Center sponsored a multimedia exhibit entitled "This is woman's hour-The Life of Mary Baker Eddy" exhibit in the UNM Student Services Building From June to August of 2001.
- Cheryl D. Learn Ph.D., Acting Director of Women Studies signed documents initiating a chapter of Iota, Iota, Iota at the University of New Mexico. Iota, Iota Iota is the national Women's Studies Honorary Society.
- Cheryl Learn serves on the editorial board of Qualitative Health Research, International Journal for Human Caring, Journal of the American Holistic Nurse's Association and writes a column on research for the **Beginnings** Newsletter of the American Holistic Nurses Association.
- Cheryl Learn served on the Planning Committee for Diversity Promotion Task Force.
- Cheryl Learn is one of two coordinators of the New Mexico Women Studies Consortium

5. **Data:** Our student numbers and credit hour allotments continue to improve for Women Studies. Fall 2000 student numbers were at 218 students with 651-credit hour generated at the 21-day report. Women Studies offered 10 courses and cross-listed 6 additional courses.

Spring 2001 student numbers went over 300 for the first time with 314 students and 947 credit hours generated. In spring 2001, Women Studies offered 13 courses and cross-listed 13 other courses. Only one course had fewer than 13 students in it and was justified by it being a core course offered in the spring semester for the first time.

Summer school 2001 consisted of 3 courses with 38 students participating for a total credit hour of 114 hours. One course was under 13 students.

6. Faculty Staff Appointments and Separations

Administrative Assistant III Anne Burtnet left the University of New Mexico in March, 2001. Joyce E. Bell is the new AAIII as of June 1, 2001. Part time instructor Elizabeth Cahn is not teaching this semester due to other duties. Part-time Instructor Maya Sutton joined the Women Studies Program. TA's Cymene How, Debra Boehm, Shari Evans, Yuri Furuhata have left the program. TA's Miria Kano and Hadar Dubowski will join our Fall 2001 staff.

Respectfully Submitted,

Cheryl D. Learn

Cheryl D. Learn
Director, Women Studies Program

University of New Mexico at Gallup
ANNUAL REPORT FOR July 1, 2000- June 30, 2001
Submitted by Dr. Beth Miller, Interim Executive Director

OVERVIEW

Resident tuition was increased to $38.00, student fees increased $2 totaling $40 per credit hour Non resident tuition remained the same. Building dedication was held for the newly constructed Zollinger Library, Health Careers Center and Student Services renovation.

Following the October 1998 State Board of Nursing (SBON) Site Visit, the UNMG Nursing program was placed on "conditional approval." In October 1999, the SBON advised that all citations had been satisfactorily addressed or were being satisfactorily addressed; however, the "acceptable" pass rate was below standard. In February 2000, The National League of Nursing (NLN) evaluated the program and recommended non-renewal of the NLN Accreditation effective July 2000. Because of the SBON conditional approval and the NLN evaluation recommendation, the UNMG Nursing Program was closed December 2000. However, students were allowed to continue until they graduated. Steps were initiated to re-open the program Spring 2002. Self study accreditation reports were completed for the Medical Laboratory Technology, (MLT), Health Information Technology, (HIT), and Dental Assisting Programs. The Auto Technology instructors continue to pursue their national certification.

LOCAL BOARD

The Local Board voted to establish an elected, five member board. The new five member, elected board would be represented by; two members from the Zuni Public School District, two from the McKinley County Schools and one at large member. Five members of the present board were selected to serve as interim board until the February 2003 school board elections. Zuni Public School District represented by Ms. Ruby Wolf, & Ms. Carmelita Sanchez, McKinley County Schools represented by Mr. Bill Bright and Mr. JR Thompson, and member at large, Mr. Ernest Mackel.

STUDENT ENROLLMENT, GRADUATION AND SERVICES

The 1999-2000 FTE of 1664 reflected a 1% decrease from the 1998-1999 FTE of 1679. However, 2000-2001 FTE of 1475 reflected a 11% decrease from the 1999-2000 FTE of 1664. The significant decrease was attributed to the closure of the nursing program as well as a decline of enrollment in a majority of programs. Major emphasis has been initiated toward recruitment, retention, student orientation, and development of a Campus Marketing Plan.

Approximately 400 high school students continued to be served through the Career Center for Technical Education Program. The ABE Program served approximately 1200 students and an additional 514 students participated in upper division and graduate programs in Nursing, ECME, Education BUS and BBA Programs.

CONSTRUCTION

As a result of the $8 million mill levy, several capital outlay projects were completed or awarded. A new facility for the Zuni Campus, UNMG South, was awarded to Luther Construction. The Zollinger Library and renovation for Student Services Division was awarded to Jaynes Construction. The new Health Careers Center was awarded to Longhorn Construction. Dormitory Study was completed by Century Development, approved by the Local Board with funding allocated by the NM State Finance Authority.

CAMPUS EVENTS

Numerous community and campus events were held which included recognition of the Jack Chapman Art Donation, dedication ceremonies for the completed construction projects, ground breaking ceremony at UNM Gallup South Campus ,and the first annual Ancient Way Festival.

GRANTS

ABE	$ 259,037
AMP State	$ 5,000
Carl Perkins	$ 320,236
Dine I	$ 418,890
Evaluation of Safe School	$ 46,500
Harvard Univ Circle	$ 7,500
Industry Specifics Tng	$ 203,780
Navajo Nation Dine Project	$ 100,000
Navajo Nation	$ 100,978
NM Gems	$ 17,500
NM Law Enforcement Training Program	$ 36,720
NxLevel Entrepreneurial	$ 4,000
Pikes Peaks CC	$ 1,300
Project Success, Developing Teacher Quality, They Will Learn	$ 403,204
Rural Community College Initiative (RCCI)	$ 140,649
School To Work & Dream Catcher	$ 443,248
Service Learning	$ 148,334
Small Business Development Center	$ 147,609
Approximate Total	**$2,804.485**

PERSONNEL

BEGAN SERVICE

FACULTY

Andrews, Marcia	Caplan, Gary	Frick, Carol	Taylor, Rhonda
Fredericks, Bruce	Kipple, Mary	Sharma, Kamala	Watt, Paula
Thompson, Selva	Khan, Muhammad	Ochoa-Morales, Heberto	Cannon, Sun Ji K

STAFF

Connolly, Curt	Wiggins, Calvin	Atene, Stefanie	Yazzie, Lucinda
Chimoni, Shelly	Johnson, Priscilla	Kylestewa, Laurie	Johnson, Rebecca
Bates, Merle	Saucedo, Jo	Robinson, Margaret	Teran, Mario
Saucedo, Joe	Thompson, Sophine	Sheka, Marita	Garcia, Keelie
Gonzales, Sylvia	Chavez, Cynthia	Clark, Gloria	

RESIGNATIONS

FACULTY

Hozid, Aaron	Renteria, Ray	Cox, Curtis	Kipple, Mary
Hirst, Melinda	Cannon, Sun Ji K	Allen, Ed	Bruker, Jane
Ahrens, Lee	Chiminti, Sandy	Crowl, Jack	Head, Kathy
Hurlbut, Jene	Levy, Howard	Vink, Marcella	

STAFF

VanBrott, Kenneth	Woestehofff, Lucinda	Serna, Donaldo	Pickette, Shelley
Muskrat, Don	Bonnie, Perry	Upshaw, Arlan	Martinez, Bernice
Mraz, Lavern	Rodriguez, Beverly	Dohi, Ronald	Ortiz, Sarah
Hubbard, Joseph	Alonzo, Lawerence	Ontiveros, Norma	White, Angelena
Roan, Merna	Legah, Sammie	Werner, Richard	Landavazo, Judy
O'Dell, Deanna	Hoover, Jamie	Yazzie, Gerald	Forman, Carol
House, Pamela	Raisebeck, Charles	Garcia, Denise	Kanesta, Carla
Oliver, Betty	Erickson, Jason	Chischilly, Mary Ann	

RETIREMENTS:

Jane Rucker, Director, Business Services, 30 years of Service

Dr. Emerine Glowienka, Professor, Philosophy, 26 years of service

LENGTH OF SERVICE AWARDS:

Five Years: Elvita Solomon, Erlinda Torres, Robert Montano, Joseph Montoya, Mary Beahm, Dr. Harry Sheski, Lindy Hirst, Dr. Dale Mason, Dr. Alyse Nuendorf, Fran Pawlowski, Loretta Billie, Jane deAngelo, Elsie Sanchez, Dr. Stephen Buggie, Cassendra Burr, Linda Burnson, Dr. Robert Carlson, Curtis Cox, Donna Jacobs, Kari Lorensen, Ray Renteria, Ann Sullivan, Kris Gaussoin, Barbara Irving.

Ten Years: Gary Burright. Dr. Ruth Gilbert, Chris Chavez, Geri Lahi, Gloria Garcia

Fifteen Years: Dr. Beth Miller, Ed Allen, Rick Krouth

Twenty Years: Gilert Ranjel

SPECIAL ACCOMPLISHMENTS:

STUDENTS

Two students, Geraldine Black and Natalja Varezkina were recognized by the USA Academic Team

STAFF

- Through the efforts of the Small Business Development Center, thirteen new small business were created, which provided ten full time and eight part time jobs.
- Marita Sheka earned the AAS in Administrative Assistance
- Lenette Sheyka earned an AAS in General Studies
- Suzette Wyaco-Becenti and Iola Lanius earned the Bachelor of University Studies
- Carla Kenesta earned the Bachelor of Science in ECME

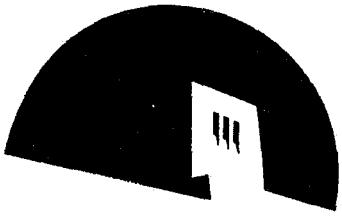
- Sharon Phlieger earned the Bachelor of Science in EMCE, Magna Cum Laude
- *Jennifer Dowling earned the Masters in Business Administration*
- Dr. Jeanne Knight defended her dissertation in Cognitive and Clinical Psychology
- Suzette Wyaco-Becenti was selected as the UNMG Student Services Employee of the Year and promoted to UNMG Registrar
- Mayna Benally was honored by UNM as Student Services Academic Advisory of the Year
- Laura Bentz exhibited in the UNM Alumni Exhibition, and print was included, "Simple Printmaking" A Guide To Bolckprinting.

FACULTY

- Code 3 Advancement was achieved by: Linda St. Clair, Ann Sullivan, Marvin Seale, Dr. Norman Smith, Dr. Benito Cordova
- Rank Adjustments were earned by: Dr. Mark Wilson, Dr. Ralph Casebolt, Rick Krouth, Samir Wahid, John Guffey, Dr. Kamala Sharma and Kurt Anderson

PUBLICATIONS

- Dr. Gloria Dyc - Short story - "Stubborn Light"
- Mike Volz - two poems, "Noises" and "It's A Bird's Life: Two Scenes"
- Dr. Dale Mason



The University of New Mexico

LOS ALAMOS

ANNUAL REPORT

Academic Year

2000 to 2001

UNM-LOS ALAMOS ANNUAL REPORT

REPORTING PERIOD: JULY 1, 2000 - JUNE 30, 2001

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SIGNIFICANT DEVELOPMENTS DURING THE ACADEMIC YEAR

One significant accomplishment for UNM-Los Alamos was the grand opening of the Student Service Building in November 2000. Services available in the building include registration, admissions, financial aid, the career center, academic advisors, student government and the bookstore. The building also boasts a 100-seat lecture hall, a classroom, a media room, a conference room and student lounge. Food service is also available on a limited basis. The building cost $ 1.2 million and was funded through a local General Obligation Bond, student fees, and state government funds. The grand opening of the building was celebrated with events over a three-day period.

Other significant developments include:

Department of Instruction

Community Education/Customized Training

- Expanded the Customized Training program to include four to seven non-degree certification programs per semester.
- Expanded Computer Applications Training course offering as appropriate, working with Los Alamos National Laboratory Training Office. Friday courses were added.
- Established Microsoft Certified Systems Engineer Training program in fall 2000. One 40-hour training module on Windows 2000 was offered per month.
- Increased partnerships with organizations, agencies, and institutions by 5%. Partnerships included the Los Alamos Medical Center, Family Strengths Network, Fuller Lodge Art Center, New Mexico Department of Labor.
- Expanded the Children's College from one 5-day program to two 5-day programs which took place from July 30 to August 10, 2001.
- Expanded the Parenting Seminar activities to include exhibitors fair, keynote address and luncheon at the UNM-LA Campus (rather than at a separate location).
- Received a $500 LANL Foundation Grant for 2001 Parenting Seminar.
- Received a $1,000 Los Alamos Medical Center sponsorship and other sponsorships totaling over $3,000 for the 2001 Parenting Seminar.
- Received a $5,000 LANL Foundation Grant for the UNM–LA SBDC Media/Website Development.
- Received $42,000 from the NM Department of Labor and Workforce Board for the UNM–LA New Mexico Workforce Personal Computer Training Program, implemented June 2001.
- The Community Education/SBDC's on-line registration system was implemented and began operation in June 2001.
- Implemented a Project Management course (Fall 2000/Spring 2001), Quality Management

Part 2 Certificate course (Fall 2000), and a non-credit Marketing Certificate course (Spring 2001).

- In collaboration with the Office of Instruction, introduced credit/non-credit course on the 45-hour Entry Level CDA Preparation Program.
- Planned, coordinated, schedule and hosted a Quality New Mexico Examiners Training workshop on campus.
- Planned, implemented and offered a Culinary Arts Academy Non-Credit Certificate program during the Fall 2000 and Spring 2001 semesters.
- Partnered with the Office of Instruction and the Los Alamos National Laboratory in presenting the "Bioscience 2000: A Human Perspective" lecture series in fall 2000.
- Offered the New Mexico Real Estate Commission's 8-Hour Mandatory Core Course during the Fall 2000 and Spring 2001 semesters.

Library

- English 102 Bibliographic Instruction Session videotaped (9/28/00) and placed on permanent reserve for use by students who missed the live session and also for use of students at remote sites.
- Gen St 193T – Information Literacy was upgraded from a 1-hour course to the 3-hour course (Albuquerque campus equivalent Libr 290 – Introduction to Research Strategies).
- New version of *First Search* was implemented in August with patron handouts and database tutorials subsequently updated.
- *Business Source Elite* database was added to other electronic database offerings.
- Additional word processing station was added in the Reference A/V area of the library.
- Two listening stations were setup in the Reference A/V area of the library for use with music and foreign language course listening assignments.
- Library windows were tinted in August to reduce heat and filter out UV rays, which are extremely harmful to the books.
- Old library chairs were re-upholstered.
- A library exhibit case was custom built and is being used for educational library exhibits across many disciplines.
- National Endowment for the Humanities Grant proposal submitted in May 2000 was approved for funding in November 2000 for a total of $25,690.00 for funding the cataloging of the Southwest collection as well as an additional custom crafted exhibit case for the library.
- Second annual Library Day Celebration held on April 12, 2001.

	Hours	Total Students	12 hr.+Students
Los Alamos, Cuba & Jemez	3431	192	80
Bernalillo	4606	195	101
	8037	387	181

Tutorial Center

- Implemented and delivered ADA training to all faculty and staff
- Provided 13 workshops for review of English and math skills
- Maintained 4 volunteer tutors
- Provided computer science tutor to ABE/ESL students
- Increased number of students with disabilities served by 25%.

Credit Instruction

- Expanded off-site credit offerings by 42%
- Increased number of credit course offerings by 7%
- In cooperation with Division Heads and Curriculum Coordinators reviewed and adopted performance evaluation instrument for academic administrators
- In cooperation with Division Heads and Curriculum Coordinators reviewed and adopted performance evaluation instrument for Core Faculty
- Completed update of UNM–LA Faculty Handbook
- Created and secured approval for new AAS/Certificate in Hospitality Administration/Management
- Expanded ITV and e-mail offerings by 20%
- Renegotiated LANL CAT contract for revenues in excess of $200,000
- In cooperation with THEA partners, applied for $2 million in funding from National Science Foundation
- In partnership with LANL, sponsored lecture series "Bioscience – The Human Genome" with an average of 60 participants per lecture
- Completed/submitted on behalf of UNM–LA State Accountability Report
- Collaborated with THEA partners to submit $1.9 million grant proposal for Workforce Training to US Department of Labor

Science and Technology Division

- Generated a laboratory manual for Physics 102L and began updating of the equipment in the

Adult Basic Education

- Created a regular Administrative Assistant staff position.
- January 2001 the Center moved to a centralized location where all facilities and offices are accessible to all students, staff, volunteers and community members. The new facilities include a computer lab, testing room, two classrooms, a waiting room and two offices. The Center is in close proximity to the Tutor Center, Library, Student Services offices and Student Center for an easier transition for students into credit programs and services.
- A total of seven instructors were hired at all sites.
- UNM–LA instructor attended training for lesson plan development on July 13, 2001.
- Los Alamos site increased to 21 volunteer tutors.
- All instructors were trained on the new GED Test content and requirements. They have also received training on the U.S. Department of Education's National Reporting Standards requirements.
- Adult Learning Center has publicized the upcoming changes to the GED 2002 Test using PSA's pamphlets.
- The LANL Postdoctoral and Immigration Office agreed to disseminate ABE program
- Adult Learning Center in partnership with the New Mexico Coalition for Literacy hosted the Regional Tutor Training on the UNM–LA Campus.
- Partnership between the ALC and Las Cumbres Learning Center was established to serve adults with learning disabilities.
- Completed an inventory of instructional materials and made them available to every site.
- Implemented a new "Student Orientation Program" for all students.
- The ABE Program in Bernalillo was featured in an Albuquerque Journal article in summer 2000 and continues to gain visibility in the community. Local businesses and organizations are providing free-of-charge classroom space in their businesses and a local garden club provided landscaping services and a monetary donation to the site.
- Bernalillo Site received $39,000 Gear Up grant in 2001, from the New Mexico Association or Community Colleges and the Commission of Higher Education.
- UNM–LA site received from LANL Foundation $6,000 in 2000 and another $6,000 in 2001 for computers and software.
- A new salary schedule for instructors was established and implemented.
- Twenty-nine GED students received their diplomas in 2000-01.
- FY 2000-2001 statistics for Los Alamos and off sites:

electronics laboratory.

- Developed and distributed a new rotation of classes in line with main campus directives. Integration of the graphing calculator into all pre-calculus courses was completed. A new tool for evaluating "math anxiety" was developed and started to be used in the Fall 2001 semester. Database of placement records was begun.
- Updated current Certificate and AAS degree plan in CS to reflect main campus changes to their BS and CS degree. Expanded the Networking Lab established in the previous year by adding new computers and router. Also, updated the software in this lab to reflect the new MS 2000.
- Completed new multipurpose computer lab in room 517 that includes removable drives in all 25 machines.
- Completed a substantial upgrading of MAC Lab in room 516A to replace all machines, updated all old software, added several new DMA and web development software packages, included several types of scanners and printers, and provided support tools such as digital cameras and video recorders.
- Installed quality LCD projectors in four classrooms and/or computer labs to allow more faculty to present in PowerPoint.
- Supported several IT faculty in obtaining training and certification in their respective areas.
- Purchased and collected old machines for electronics lab to be used in our hardware and computer repair courses and upgraded locking cabinets, chairs, and wiring to accommodate our new electronics courses in the networking program.
- Finalized and had approved both locally and on main campus Certificate and AAS degree programs in two new IT areas: Web Technologies and Digital Media Arts.
- IT faculty developed and offered approximately 15 new IT courses in the areas of Network Administration, Tech Support, DMA, Web Tech and CS.
- Utilizing grant fund from the Regional Development Corporation, hired four individuals as Lead Instructors for our four new IT programs.
- Outcomes assessments were developed for biology, physics, and chemistry courses.
- Assessment tools were developed for the calculus series of courses.
- Incorporated new assessment tools into the programming classes. These tools include the use of portfolios and pre/post testing.
- Instituted a broader and rotating series of math classes to improve recruitment and retention of students.
- Hired two .50 core faculty in the IT areas.
- Faculty person elected to represent UNM–LA on the UNM Faculty Senate. In a collaborative partnership, two network administration students from UNM–LA were hired at LANL into internship positions.
- Sponsored two high school outreach days called "IT Careers" in which students from local

area high schools attended a full day of talks and hands-on computer sessions focused on IT issues and careers.

- A PowerPoint presentation discussing our new IT degree programs and IT careers was developed and given at each outreach program offered by UNM–LA last year.

Arts & Social Sciences Division

- Revised Southwest Studies degree and certificate programs with a $25K grant from the National Endowment for the Humanities, approximately 30 academic, business, and other professions reviewed and critiqued the Southwest Studies Curriculum.
- Updated generic syllabi in selected General Studies disciplines and began syllabus review in selected General Studies disciplines.
- Revised General Studies Faculty orientation presentations. Developed and implemented a semi-annual plan for updating faculty at Orientation.
- Implemented improved visual tools for schedule development.
- Provided computer time for all sections of all composition classes.
- Enhanced faculty development to improve the quality of instruction in Developmental classes and programs.
- Created a Visual Arts Society.
- Student involvement on campus via Art Shows, Art Sales, Workshops, and Purchase Award programs.

Student Services Department

Coordinated and planned the first graduation ceremony in Student Center which was to be held in May 2000. The graduation was cancelled due to the Cerro Grande fire and was therefore rescheduled for July 28, 2001. John Browne, Director of Los Alamos National Laboratory, was the keynote speaker.

Recruitment and Retention

- 23 students were recruited into the Summer Bridge program.
- Each month submitted articles to the Home School newsletter.
- Student Services staff coordinated and participated in a phone campaign in an effort to increase recruitment for the 2001-2002 academic year.
- Planned and coordinated "Plan Your Future Day," a recruitment event for high school juniors and seniors.
- Further increased the number of visits to College Fair and College Days activities.
- Expanded the lines of communication with high school counselors and UNM - Los Alamos

advisors.
- Increased enrollment in the New Beginnings program.

Advisement

- Further progress was made in working with transferability of UNM-Los Alamos courses to state 4-year institutions. This was done by identifying early on the students' degree program and institution of choice and working with the respective institutions.
- Continued transfer day activities by organizing and promoting two events each semester with in state 4-year institutions.
- Further improvement of student files record maintenance by improving documentation and upgrading degree checklists.
- Continued accessibility to needed registration forms and increased publicized information through campus media.
- Progress was made to encourage student to seek academic advisement by sending personalized letters to students in UNM – Los Alamos programs (i.e.: New Beginnings, Electro-Mechanical Technology) to increase early registration.
- Continued development of academic advisement training for the Bernalillo Site.
- Further development of mandatory advisement for all incoming freshmen students.

Admissions and Registration

- Continued training of Academic Advisors, and Division Heads and Curriculum coordinators to access the student IDMS system.
- Continued communications between and among UNM branch Admissions and Registration offices to ensure consistency where applicable.
- Supported all areas of Students Services via data collection.
- Continued updating of the Admissions/Registration Training Manual for use at off-site areas.

Career Resource Center

- Continued development of local employer database system to assist student/clientele in identifying available job opportunities
- Implemented and coordinated the CO-OP process and contact information on campus.
- Developed and implemented career workshop series
- Planned and coordinated on campus "Career Day" event.

Financial Aid

- Actively participated in the Grand Opening of the Student Center Building November 2001.
- Began development of a Student Financial Aid web site.
- Re-created Lottery scholarship database.

- Developed and implemented Financial Aid and Scholarship survey.
- Created reference handout for staff of UNM-Los Alamos campus.
- Further efforts to increase the number of incoming freshmen on the UNM – Los Alamos Bridge to Success Scholarship.
- Continued work with the Recruitment/Retention committee to assist in the development of strategies that meet student needs as well as to address persistence issues.
- Further development of " how " to encourage students to apply by "preferred" deadlines to increase customer service.
- Further development of Scholars Scholarship program which is modeled after the UNM – Albuquerque campus' Presidential Scholarship.
- Continued implementation of on-site financial aid advisement at the Bernalillo campus.

Business Operations

Physical Plant

- Provided and re-upholstered chairs for Student Center Building.
- Obtained temporary occupancy in order to hold the 2000 Graduation, which was delayed due to Cerro Grande Fire. This graduation was held on July 28, 2000.
- Final Occupancy for building (except food service) was granted for the start of the fall 2000 semester.
- Remodeled Building 1.
- Continued progress on Safety Report. The ventilation system in the new Learning Resource center was placed under a monitoring system. The occupants have been satisfied with the area. On-going analysis will continue under the maintenance agreement currently in place.
- Moved Adult Basic Education back to lower level of Learning Resources Center.
- Organized move of Student Services staff and faculty to new and remodeled areas on the campus.

Housing

- Provided one classroom at Student Housing for the fall 2000 semester evening course, expanded classrooms to four during the spring 2001 semester
- Successfully negotiated contract with Los Alamos National Laboratory for apartment rental from May 1 through mid August
- Provide temporary housing for Bandelier National Park services for visiting personnel working on Cerro Grande fire damage.

Business Office

- Organized "Twenty-year" Scholarship Fundraising campaign. The event was held on February 16, 2001 and raised approximately $12,000. Approximately $6,000 was transferred to foundation account for student scholarships. Expenses including artwork linen and catering were covered with remaining funds. Recruited key community members to participate as celebrity waiters including: Dane Albert, LANL and LA County Council members, Sam Ballen, La Fonda, Bernadette Chavira-Merriman, UNM-LA Advisory Board, Susan Herrera, LANL Foundation, Sidney Singer, Bernie Storm, Jeanette Wallace, NM State Representative, William Enloe, LA National Bank, Teresa Archuleta-Sagel, UNM-LA Foundation, John Browne, LANL Director, Robert Dinegar, UNM-LA Faculty, Patt Rogers, LA County Council, Mike Shepherd, JCI, Kurt Steinhaus, LANL Educational Office, Ray Vara, Los Alamos Medical Center, and Linda Weeks, YMCA.
- Obtained artwork for the Student Center. The UNM-LA Giving Tree, which recognized the generous giving of the community of Los Alamos, was dedicated at the "Twenty Year" campaign celebration, February 16, 2001.
- Began FEMA claim for business interruption due to Cerro Grande Fire.
- Changed over to new financial reporting system. Have provided reports by the 10th of each month. Have also made these reports available electronically to users.
- Began Career Ladder for member of the Finance office to Personnel/Housing.

Food Services

- Food Services completed and occupied in April 2001.
- Food Services negotiated in partnership with students, faculty, staff and local vendors. First vendor was unsuccessful. Worked during the summer to obtain another contract with local vendor

Bookstore

- Successfully transitioned to new area within the Student Services building.
- Expanded to provide some food services due to problems in the finishing of the food service area.

Computer Center

For the year 2000-2001, the Computer Facilities department completed/accomplished the following significant activities:

- Worked with vendor, for Community Education department, to provide online payment service for customers registering via the Internet.
- Provided support for Bookstore on point of sale system purchase and installation.
- Worked with Public Relations Department to provide the 2000-02 catalog online.
- Established access to online registration at the Bernalillo site.
- Provided specifications, installation and configuration of equipment in computer lab funded with grant money.
- Continued to maintain a high degree of 'uptime' regarding the campus network and its components.

SIGNIFICANT PLANS AND RECOMMENDATIONS, 2001-2002

In March 2001, the University of New Mexico – Los Alamos held it's annual planning retreat. At the Allan Houser Compound in Santa Fe at a reduced rate of $200.00. The purpose of this retreat was to review the previous year's accomplishments and areas of improvement. No changes were made to the mission statement. However, goals and objectives for 2001-2002 were streamlined.

The mission of the University of New Mexico-Los Alamos is to provide high quality instructional programs and support services to the residents of the communities it serves. To fulfill its mission, UNM-Los Alamos has established the following overall institutional goals:

I. To offer diversified high-quality educational programs.
   - Academic Courses, Degrees, and Transfer Curricula
   - Technical and Occupational Programs
   - Developmental and Basic Skills Programs
   - Community Education
   - Adult Basic Education
   - Specialized Training
   - Extended Web, ITV, and Off-Site Instruction

II. To provide high-quality support services that promotes student access and success.

III. To maintain a highly qualified and diversified faculty and staff.

IV. To serve as a community resource.

V. To seek and establish cooperative partnerships
VI. To ensure access to state-of-the-art technologies.

For 2001-2002 the following specific Goals and Objectives have been established:

I. Increase enrollment to the levels prior to FY 2001, and Cerro Grande Fire.
II. Increase funding for special projects, i.e. student scholarships, summer bridge program.
III. Insure that information is timely and readily available to student, faculty, staff and the communities we serve, i.e. institutional brochures, catalog, schedule, sign.
IV. Insure that students are properly assessed and advised for placement into classes.
V. Increase transfer rates to four-year institutions using information from the Commission on Higher Education.
VI. Insure that funding is available to meet human, fiscal and physical needs.
VII. Encourage and educate students, faculty and staff to obtain 100% participation in changing technology.
VIII. Establish an institutional retention management program.
IX. Evaluate and adjust accordingly scheduling patterns to meet student needs.
X. Insure that staff and faculty are empowered to give good customer services and work cooperatively and productively as team members.

Departments will establish tasks to meet goals and objectives listed above. Each department will work on their respective area tasks throughout the academic year.

SUPPORT FUNCTIONS:

I. Computer Center

As a support service for both instruction and administration at UNM Los Alamos and its satellite locations, the goals for the Computer Facilities department are driven by the needs of those departments. As such our main objective is to provide support in a manner such that we can help other departments achieve their goals and accomplish their objectives.

II. Public Affairs

In support of the overall institutional goals and all departments at UNM-LA, the public affairs department has established the following goals:

- To provide institutional support through development and implementation of a marketing plan, participation on committees, managing an effective/efficient use of funds, etc.
- To enhance internal communications through the development and production of various publications and use of electronic media.
- To enhance external communications through the development and production of various publications, videos, surveys, etc.
- To effectively use advertising to promote UNM-Los Alamos.
- To improve media relations.
- To improve community relations through external communications, participation in events/ committees/boards and utilizing information from surveys.
- To maintain, develop, produce, and distribute publications that will positively promote UNM-Los Alamos.
- To provide photography/videography/scanning services to departments, for events, and maintain files for archival purposes.

APPOINTMENTS TO STAFF & FACULTY

Name	Position	Area	Effective Date
Michael Ortiz	Custodian	Physical Plant	09/07/2000
Gayle Burns	Accounting Tech.	Finance	09/25/2000
Constance Callaway	Administrative Assistant II	Student Services	09/25/2000
Lisa Salazar	Program Coordinator	Career Center	10/25/2000
Diane Shepard	Program Coordinator	ABE Bernalillo	11/13/2000
Emil Romano	Library Info. Specialist II	Library	01/08/2001
Rosalina Hundley	Graduate Center Manager	Graduate Center	01/08/2001
Tracy Lopez	Administrative Assistant II	ABE	01/09/2001
Todd Nickols	TV Production Tech/On-Call	ITV/Eden	01/16/2001
Randolph Pierce	TV Production Tech/On-Call	ITV/Eden	01/16/2001
Tina Thaxton	ITV Instructional Assistant	Graduate Center	03/01/2001
Cheryl Voltin	Administrative Assistant I	Office of Instruction	03/05/2001
Anna Mae Apodaca	Associate Director	Student Services	06/01/2001
Jay Ruybalid	Senior Public Affairs	Director's Office	06/11/2001

SEPARATIONS FROM STAFF & FACULTY

Name	Positions	Area	Effective Date
Irma Sutphin	Accounting Tech.	Finance	08/31/2000
Linda Hoffman	Library Info Specialist II	Library	10/31/2000
Rebecca Eklund	Instructional Assistant	Graduate Center	11/06/2000
Cathleen Garber	Senior Public Affairs Rep.	Directors Office	01/02/2001
Carole Rutten	Student Services Manager	Student Services	03/09/2001
Karen Vigil	Personnel Coordinator	Administrative Services	03/09/2001
Alvin Tafoya	Custodian Special	Physical Plant	03/28/2001
Kay Binkley	Training Specialist	Computer App. Training	04/02/2001
James Mariner	Registrar	Student Services	04/12/2001
Emil Romano	Library Info. Specialist II	Learning Resource Center	04/17/2001
Tracy Lopez	Administrative Assistant II	ABE	06/01/2001
Tina Taxton	ITV Instructional Assistant	Graduate Center	06/01/2001
Mike Cogan	Senior Academic Advisor	Student Services	06/08/2001

PUBLICATIONS

STAFF

Cathy Garber

- Wrote various articles, concerning the UNM-Los Alamos campus, for *the Los Alamos Monitor, Los Alamos County Chamber of Commerce Newsletter, The Community College Times, Rio Grande Sun* and the *Journal North.*
- Developed and produced several UNM-LA publications for internal and external use including brochures, schedules, catalogs, press releases, video scripts, etc. (through January 2001).

OUTSIDE PROFESSIONAL ACTIVITIES

STAFF

Dr. Carlos B. Ramirez

- Member, New Mexico Association of Community Colleges (NMACC)
- Member, Regional Development Corporation (RDC)
- Member, Dennis Chavez Foundation
- Member, Tri-Area Association for Economic Development (TRADE)
- Member, Northern New Mexico Council for Excellence in Education (NNMCEE)
- Member, Tri-County Higher Education Association (THEA)

Debbie Valdez

- Member Human Resources Committee
- Member Two-year Institutions Formula Task Force
- Member UNM Strategic Planning - Management Systems and Support Functions

Phyllis A Mingus-Pepin

- New Mexico Assessment and Retention Conference, Albuquerque, NM, February 2001.
- State CIO Meetings, Albuquerque and Santa Fe, September 2000 and February 2001.
- NMACC Annual Two-Year Faculty Conference, Ruidoso, NM, May 2001.

Lori Heimdahl

- Alliance for Minority Participation Conference in Las Cruces
- College Days Events at Escalante High School, Taos High School and at Northern New Mexico Community College
- Women in Transition Conference in Albuquerque
- Supercomputing Challenge Kickoff in Glorietta
- Fundraising Fundamental workshop in Santa Fe.

Cathy Garber

- Member, National Council for Marketing and Public Relations
- Member, Habitat for Humanity Board (Española & Los Alamos)

Yohanna Wiuff

- Member, New Mexico Association of Student Financial Aid Administrators (NMASFAA)
- Member, Southwest Association of Student Financial Aid Administrators (SWASFAA)
- Attended Veterans Administration Conference in Las Cruces
- Attended College Cornerstone Retreat
- Attended Los Alamos Financial Aid Night
- Attended SWASFAA conference in Albuquerque
- Attended UNM-Albuquerque Training meeting
- Attended UNM- Los Alamos Retreat in Santa Fe
- Attended NMASFAA conference in Santa Fe
- Attended Lottery Scholarship meeting in Albuquerque

FACULTY

Dennis Davies-Wilson

- Bonds Funds for Libraries Task Force (appointed April 001)
- New Mexico Consortium of Academic Libraries (NMCAL)
  - ✓ Summer Retreat, August 10-11, 2000; Albuquerque, NM
  - ✓ Assumed Presidency in April 2001
  - ✓ Served as President Elect, April 2000-April 2001
- New Mexico Library Association (NMLA)
  - ✓ Poster Session, April 2001
  - ✓ Panel Member for Information Literacy Session, April 2001
- Music Library Association (MLA)
  - ✓ Bibliographic Control Committee, Recording Secretary and Webmaster
  - ✓ Bibliographic Control – Subcommittee on Descriptive Cataloging, began term April 2001
- Musica Antigua de Albuquerque (professional early music ensemble); Albuquerque, NM
  - ✓ Invited artists on music series, Houston, March 2001
  - ✓ Regular performance season
  - ✓ Educational and community outreach performances
- Bassoonist (Opera Southwest)
- Guest vocalist, Cathedral Choir of St. John's (December 29, 2000, St. Therese Catholic Church)

OUTSIDE SPONSORED RESEARCH

No UNM-Los Alamos faculty or staff members participated in outside sponsored research.

The University of New Mexico – Taos
2000-2001 Annual Report

Submitted by Wynn M. Goering
Interim Executive Director

Transition was the theme of the 2000-2001 academic year at the University of New Mexico Taos Education Center. Under the direction of three different chief executives, UNM-Taos faculty and staff strove to remain focused on meeting the needs of their students and community. This annual report, submitted by interim leadership, briefly outlines those efforts.

Significant Developments

At the end of June 2000, inaugural UNM-Taos director Augustine Martinez left to take a position with UNM Extended University in Albuquerque. Under his leadership, UNM-Taos grew from an initial enrollment of 360 students in Fall 1993, to a Fall 2000 enrollment of over 1,000. Of equal significance has been the growth of full-time, degree-seeking students. Since 1995, the proportion of full-time enrollees in the UNM-Taos student body has increased 73.9%. The average number of credit hours taken increased 19.6% during the same period.

UNM-Taos Enrollment, Fall 1995 – 2000

						Percentages				
	1995	-	1998	1999	2000	1995	-	1998	1999	2000
Total Headcount	770	-	1,052	1,013	1,048					
Full-time	**106**	-	**201**	**280**	**251**	**13.8**	-	**19.1**	**27.6**	**24.0**
Part-time	664	-	851	733	797	86.2	-	80.9	72.4	76.0
Avg. Hrs. per Sem.	5.56	-	6.16	6.91	6.65					
Full-Time Equivalent	286	-	433	467	465					

In contrast to each year's dramatic enrollment changes, student demographics have remained relative constant over the same period:

UNM-Taos Student Demographics, Fall 1995 – 2000

	1995	-	1998	1999	2000	Percentages 1995	-	1998	1999	2000
Average Age	35	-	32	33	34					
Females	534	-	727	713	751	69.4	-	69.1	70.4	71.7
Males	236	-	325	300	297	30.6	-	30.9	29.6	28.3
White Non-Hispanic	326	-	341	326	336	42.3	-	32.4	32.2	32.1
Hispanic	340	-	589	522	517	44.2	-	56.0	51.5	49.3
Native American	36	-	35	62	71	4.7	-	3.3	6.1	6.8
Asian/Pacific Islander	1	-	5	10	7	0.1	-	0.5	1.0	0.7
African American	2	-	3	8	6	0.3	-	0.3	0.8	0.6
Foreign	2	-	3	3	2	0.3	-	0.3	0.3	0.2
No Response	63	-	76	82	109	8.2	-	7.2	8.1	10.4

In July 2000, Carlos Ramirez of UNM-Los Alamos assumed the duties of Acting Campus Director in Taos. Dr. Ramirez commuted two days a week from his home in Los Alamos, and along with extraordinary efforts on the part of UNM-Taos's cabinet, supervised the Center's operations while UNM conducted a search for an interim executive director. That search culminated in the selection of Dr. Wynn Goering of Albuquerque, who began his duties in Taos in December 2000.

UNM-Taos's academic program continued the development of its academy model, launched in 1998.

The University of New Mexico – Taos
Academy Structure and Programs of Study

Professions & Liberal Arts	Business & Computer Technology	Arts and Culture	Health & Human Services	Science & Math	Trades & Industries
Communication & Journalism	Pre-Business	Applied Arts & Crafts	Early Childhood Multicultural Ed	Agricultural Science	Construction Technology
Southwest Studies	Small Business Management	Southwest Arts	Human Services	Earth & Planetary Science	Carpentry
English	Business Computer	Art Studio	Psychology	Life Sciences	Wood Technology
History	Administrative Assistant	Art History	Healing Arts	Health Sciences	Heavy Equipment Operation
Interdisciplinary Studies	Publishing Technology	Dance	Criminal Justice	Mathematics	Commercial Driver's License
Philosophy	Multimedia Technology	Foreign Languages	Paralegal Studies	Physical Science	
Social Sciences	Internet Technology	Music			
		Theater			

Throughout the year, UNM-Taos faculty worked closely with their colleagues at Taos High School, as they considered restructuring their own curriculum to a similar model. This level of secondary / post-secondary collaboration is not only unprecedented in Taos, but unique in the state; and promises new levels of educational integration for students in the community.

Significant Plans and Recommendations

In November 2000, New Mexico voters approved bond money for a $1 million addition to UNM-Taos's new Klauer Campus south of Ranchos de Taos. That appropriation was succeeded by a legislative initiative in the 2001 Session, to enable Taos County voters to levy a local gross receipts tax (GRT) for further construction at UNM-Taos and the county's public schools. The momentum and interest generated by this initiative helped to highlight the role of UNM-Taos in the community, even in advance of the actual vote. (Taos County ultimately approved the new GRT, which will provide an additional $4-5 million in capital outlay funds for UNM-Taos, in an October 2001 election.)

All of the capital outlay funds above are undesignated; UNM-Taos will be able to apply them to construction needs as determined by the campus. To set a context for those decisions and other long-range plans at UNM-Taos, Dr. Goering initiated a campus-wide strategic planning exercise during the Spring semester of 2001. Approximately 30 UNM-Taos staff, faculty and students, and an equal number of community stakeholders, worked at this task over a four-month period from February through May 2001. Their assignment was to think strategically about UNM-Taos and its mission, in order to provide a framework for planning and decision-making at the university in both the near- and long-term.

Four broad "strategic focus" areas emerged from this initiative, in which the university's resources and attention are to be concentrated:

> **Central Focus:** To foster success in students' endeavors at UNM-Taos, as defined by their individual goals, and measured by their academic outcomes and program completion.
>
> **Focus #2:** To cultivate partnerships for student opportunity at UNM-Taos, that include area secondary schools, other educational and cultural entities, UNM and other universities, and Taos's business and civic community.
>
> **Focus #3:** To improve the professional environment at UNM-Taos, through attention to organizational communication and processes, and professional development activities and resources.

Focus #4: To develop the appropriate fiscal, capital and program resources t make UNM-Taos a fully-realized branch campus of the University of New Mexico.

For the particular building questions above, a decision was made to use the $1 million bond money for a new art building, with future priorities to include a library and additional general classroom and administrative space. Architect selection for the art center was underway by June 2001.

Staffing / Appointments / Separations

UNM-Taos continues to operate with an almost entirely adjunct core of about 100 faculty. No additional full-time faculty were hired in 2000-2001. Indeed, apart from changes in the Executive Director's office, only one other staff transition occurred as the result of the elimination of a grant-funded program:

UNM-Taos Appointments / Separations, 2000-2001

Appointments			
Employee	*Position*	*Department*	*Effective Dates*
Wynn Goering	Interim Executive Director	Executive Director	12/1/2001 -
Separations			
Yvonne Hart	Mgr. Child Care Operations	Instruction	1/3/2001 – 6/29/2001

Outlook / Conclusion

On June 22, 2001, UNM-Taos was notified by Rep. Tom Udall and Sen. Jeff Bingaman that the campus had been awarded a Title V, Developing Institutions Grant for Hispanic Serving Institutions. The grant, in the amount of $400,000/yr., will provide critical support in the areas of faculty development, student services and library expansion in the next five years. In total, its net fiscal impact will increase these area budgets by over 25%.

As a campus still in its institutional infancy, UNM-Taos is a uniquely exciting and challenging entity within the University of New Mexico. It is still small enough and new enough to be significantly affected by a single allocation, a single grant, or a single

appointment. As these events occur, the challenge for the University and the leadersh.. of UNM-Taos will be to build an institution that can best serve both the community and the university of which it is a part.

UNM-VALENCIA CAMPUS

ANNUAL REPORT

For the Period

JULY 1, 2000 – JUNE 30, 2001

Alice V. Letteney
Campus Executive Director

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INTRODUCTION
Dr. Alice V. Letteney, Campus Executive Director
Highlights of the University of New Mexico-Valencia Campus, 2000-2001

1. Significant Developments

UNM-Valencia celebrated its 20th Anniversary this year as a UNM Branch Campus. The campus was opened in the Rio Communities Shopping Center in 1981 with an enrollment of 320 students.

The college was awarded a $190, 00 U.S. Department of Education Student Support Services Grant to provide tutoring, counseling, and support for first-generation, low-income, and disabled students to ensure their success in their college careers. The grant is a four-year grant with the possibility of renewal after that time.

2. Program Developments

The college's first Fitness and Wellness Education Center opened in the Fall of 2000 and was serving over 500 students by Spring of 2000. Dubra Karnes-Padilla was chosen to lead the Center as a Lecturer in Physical Education.

Now serving over 30 children a week, the college's first Childcare Center opened in the Spring of 2001 supported by a grant from Children Youth and Families of over $64,000. Program Manager Joan Summerhays worked with a UNM-Valencia Campus student, Duane Fritz, to design a playground featuring an adobe playhouse built with the assistance of the McCune Foundation and many student and staff volunteers.

3. Honors and Awards

Stan Ways, co-Valedictorian of the Class of 2001 and past President of the Beta Zeta Zeta Chapter of the student honor society Phi Theta Kappa, was awarded a UNM Presidential Transfer Scholarship. Stan is a returning, older student who is legally blind.
New Mexico Phi Theta Kappa Scholars were Clover Hatcher and Caroline Kohrs.
Two Valencia Campus students were accepted for summer HACU internships--Tony Hanlon, at the National Institute of Health, and Tanya Montoya, at the Federal Deposit Insurance Corporation.

4. Community Outreach

The SU PARTE Welfare Reform program, led by Program Manager Kevin Begley, placed 345 welfare clients in jobs in the community, and served over 2500 clients.

The Community Training Center trained over 1100 people in CPR and First Aid.

The Gifted/High Potential and McCune Programs provided enrichment programs for 303 4th and 5th graders.
UNM-Valencia Campus and the Valencia County Chapter of AAUW co-sponsored the third annual "Sister to Sister" Conference in January, attended by 75 junior high school girls.

UNM-Valencia Campus and the Belen Pilot Club co-sponsored the 4th annual Women's Conference for over 100 women during Secretary's Week. Broadcaster and Belen native Kim Valles was the featured speaker.

The PACE-NM Spring 2001 Conference was held in June in conjunction with the SBDC's 2nd Annual Economic Development Conference for over 80 attendees and featuring speaker Mark Lautman from the Santa Theresa Economic Development Corporation.

5. Campus Executive Director's Office

Major activities of the Campus Executive Director, Dr. Alice Letteney.

New Mexico Association of Community Colleges, President.

American Association of Community Colleges, Minority Resources Commission.

Executive Committee, American Association of University Women, Valencia County Branch.

Past President, Los Lunas/Bosque Farms Chamber of Commerce.

Community Council, Ranchers Banks

United Way Valencia County Advisory Board.

New Hires
Lynne Dickens, Admin. Assistant II, Development Office-November 2000.

Separations
Deidra Wilson, Admin. Assistant II, Development Office-September 2000.

Title V Grant – 2000-2001
Gearld Willis, Title V Coordinator

The University of New Mexico – Valencia Campus was awarded a Developing Hispanic Serving Institutions Program, Title V Grant, in the first year for the period October 1, 1999 to September 30, 2004. At the time of this report, the Campus has successfully completed nearly 75% of the second year of the five-year Grant.

A. Significant Developments

At this point in the second year of implementation of the Title V Grant, the Campus is experiencing great success in attaining the ambitious goals and objectives set forth in the Grant. We are on schedule or ahead of schedule in most task areas. As a result of judicious use of funds and Expanded Authorities, we have been able to move critical tasks from Year Two to Year One, Year Three to Year Two, increase training for Faculty and Staff, complete classroom construction, hire technical personnel, and purchase additional software and computers. These actions have made Title V related programs available earlier in the process, therefore allowing maximum benefit to the Students of the Campus.

Significant progress has been observed in the areas of Faculty retention and technology training, New Student Orientation, the Freshmen Seminar, Developmental Studies, academic support/problem solving, and student retention in **Activity I.** The foundation work toward establishing the centralized student database and preliminary work toward establishing the Automated Degree Audit System is making significant progress in the areas of **Activity II.** An integrated database of local and community contacts for the Development Office is well underway, and is being further advanced through the newly purchased giving software in **Activity III.** The Development Office has exceeded the donor contribution goals for the first two years of the Grant.

1. Activity I - Student Success

GOAL: To increase student retention and graduation rates.

Measurable Objectives

- By September 2003, the retention rate of first semester freshmen to second semester freshmen will increase by 50% from the base year 1999-2000.
- By September 2003, the retention rate of developmental Students to college-level English and Math will increase by 35% from the base year 1999-2000.
- By May 2003, the graduation rate (over three year's time) will increase by 25%.

While it is too early to assess achievement of this objective, the initiatives related to attainment of these goals are progressing on schedule or ahead of schedule. Attention directed towards increasing retention and graduation rates has been focused towards achieving the specific Activity Objectives and Performance Indicators as specified in Activity I, Student Success. The purpose of this activity is to improve student success through the strengthening of developmental programs, student services support, and teaching and learning strategies, including the use of technology in the classroom.

Of 40 tasks included in the Implementation Strategy and Timetable for Year Two, 28 are complete, 4 are in progress and 8 are not scheduled to start until after this reporting period. Five of these tasks were completed in Year One, with funds available as a result

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of late hiring in many areas. These funds were readily accessible to be used in other very important aspects of the Grant as a result of Expanded Authorities.

These funds allowed us to complete the following Year Two tasks in Year One:

- Construction and supplying of the Developmental Lab.
- Renovation and partial supplying of the Developmental Classroom.
- Completion of the Presentation Classrooms.
- Hiring of the Developmental Lab Technician.
- Additional retention training for Faculty and Staff.

The following is a summary of tasks that have been completed on time or are in progress.

- Faculty and Staff retention training, conferences, and meetings.
- Training and assessment of Faculty in retention issues and technology use in the classroom.
- Assess and revise the Freshmen Seminar for new Students.
- Assess and revise New Student Orientation.
- Establish and implement the Exit Interview Program for attrition Students.
- Assess the Problem Solving Program for at-risk Students (part of Early Alert and Exit Interview Process).
- Select and purchase Developmental Lab and Developmental Classroom software.

Preliminary results are encouraging:

- Faculty previously lacking in retention and technology training are utilizing presentation equipment, e-mail and web pages, to increase communication, both in and out of the classroom.
- The new web based Freshman Seminar (Student Success Seminar) has been launched and piloted and is being assessed and revised.
- New Student Orientation is being updated and revised with attendance near 100%.
- Attendance and utilization of the Developmental Lab and Developmental Classroom has increased significantly. The integrated lab curriculum and academic support services are now available.
- The Exit Interview Program has combined with an Early Alert and Problem Solving Support Program, and has identified and contacted at-risk Students that may have disappeared from Campus.
- A mentoring program for new Students has been created and will be piloted during the Summer Semester, ahead of schedule.

Student Services reports that retention of Students for Fall Semester to Spring Semester for the year 2000-2001 is at 73%. This represents a 73.8% increase in retention rates for the first year of the Title V Grant Program over the baseline year of 1999-2000. Our goal, as stated in Measurable Objectives at the beginning of this section, is a 50%

increase in retention under Activity I for the life of the Grant. While very exciting, it is too early in the program to determine if these numbers can be sustained or if they represent a one-year spike in the retention of Students.

2. **Activity II - Institutional Stability Through Information Management**
GOAL: Establish a centralized Management Information System (MIS) that will generate timely and accurate data necessary for internal and external accountability.

Measurable Objectives

- By September 2002, 100% of the full-time Faculty, Administrators and mid-level Managers are trained to access information and generate performance reports.
- By September 2003, at least 95% of all Faculty, Staff, and Students will be able to use the Automated Degree Audit System.
- By December 2000, all 5 performance indicators will be programmed and able to be produced by the central management system.

The project is advancing nicely in the area of implementation of the Automated Degree Audit System. Goals and objectives specific to this area are on schedule under Activity II, Institutional Stability Through Information Management. The greatest challenge to the project as a whole has come in the area of internal data collection, and establishing standards for report generation. This, in turn, affects the remaining Objectives in the areas of data collection and management.

This activity allows the development of a centralized Management Information System (MIS) that provides critical information, including student outcomes data, to improve student advising and institutional planning and effectiveness.

Key success measures are:

- Through the hiring of a User Support Analyst/Activity Director and Automated Degree Audit System Coordinator, establish a management information base system upon which other key elements of this activity can be created.
- Setting-up and creating databases through the Management Information System (MIS) and Degree Audit Reporting System (PROGRESS) to allow electronic generation of reports for all local and state-mandated performance indicators.
- Provide initial training to key Faculty, Staff and Students to successfully integrate the Automated Degree Audit System into educational planning and student success.

The following is a summary of tasks that have been completed or are in progress toward the achievement of the goals of this activity.

- The Activity Director position was refilled in mid-October 2000 and reclassified as a User Support Analyst III, to better accommodate the more technical aspect of the assignment.
- The list of performance indicators selected by the State of New Mexico for measuring the effectiveness of community colleges has been modified from 13 to 5 and is now complete.

- Internal data collection and centralization continues as reporting needs are further analyzed.
- Standards for report generation, distribution, and privacy issues as they relate to student data, are being established.
- Access to Financial Aid Award and Student Information Data has been achieved through a weekly file transfer from the UNM-Main Campus.
- UNM-Main Campus has granted online access to the Student Information Data Warehouse.
- The Campus Registrar and PROGRESS Coordinator have received advanced training in the implementation of the Degree Audit Reporting System.
- The 1997–1999 UNM-Valencia Catalog has been encoded for graduation requirement audits and the 2000–2002 UNM-Valencia Catalog encoding is in progress.

Preliminary results of this activity are indicated by:

- The successful generation of degree audits through the PROGRESS system for all students in the Education Program and a successful orientation of the audit program with those students.
- Successful generation of over 30 new reports through the Management Information System (MIS) activity pertaining to student data that were not readily generated on-site prior to Title V.
- Successfully gained partial access to the UNM-Main Campus student records database.

3. **Activity III - Institutional Advancement**
GOAL: To increase the College's capacity to generate external funding.

Measurable Objectives

- By September 2001, a corporate and community database will be operational.
- By July 2002, 100% Foundation and Advisory Board members, Faculty, Staff, Student and Alumni volunteers are trained in annual, deferred, planned and endowed giving campaigns.
- By October 2002, 100% of full-time Faculty and appropriate Staff will be trained in identifying and writing grants.
- By September 2003, an alumni organization will be established.
- By September 2003, grant applications will increase by 200% from 1997-1998.
- By September 2004 the College will increase its development fund giving by 300%.

These very significant, far-reaching goals of the first year of Activity III, Institutional Advancement, are to be achieved sequentially over the life of the Grant. The corporate and community database is in place and operational at the end of September 2000, well ahead of schedule. This database will grow significantly during Year Two and will continue to grow throughout the life of the Grant and

beyond. It is anticipated that the remaining goals will also be met significantly ahead of schedule.

Activity III calls for the design and implementation of a Campus Development Office that will create the capability for the Campus to access external resources, including grants and individual and corporate gifts.

Keys to success are:

- Hire a well qualified Development Officer to drive the activity successfully forward;
- Set up and maintain a Development Office;
- Establish a corporate and community database of potential benefactors to the College;
- Increase grant applications; and
- Increase development fund giving.

Activity III is on schedule or ahead of schedule in the key performance areas. Year Two tasks that were completed in Year One as a result of underutilized staff funds are all related to giving software. Giving software was selected, purchased, installed and tested in September 2000, one full year ahead of schedule.

Tasks that have been completed on time, or are in progress and on schedule, are:

- Case statement for support has been written based on the results of the impact study conducted in Year One.
- Develop comprehensive plan for resource development based on impact study and incorporating case statement of support.
- The Activity Director has attended national conferences on resource development and planned giving.
- Update integrated college/community mailing lists in a common database.
- Develop initial database of information for corporate and community connections.
- Continue to develop business and community contacts.
- Develop capacity for writing grants and proposals to private, public and corporate foundations.
- Training for Development, Campus Advisory Board, Faculty, Staff and College Administration in the basic components of resource development.

Preliminary success can be reported in the areas of:

- Utilizing the integrated college mailing list to contact community and business leaders and inform the community of special functions.
- Consult with and train Faculty and Staff in preparing five new grant applications.
- The Development Fund has exceeded set goals for Year One and Year Two.

4. Supplemental Information

The UNM-Valencia Campus does not anticipate significant changes to the performance objectives and activities specified in our Grant application, except to the degree that we will surpass our objectives in the five-year Grant period. Our Title V program has been hugely successful in Year I and the part of Year II covered in this report. Unexpected outcomes and benefits as a result of the implementation of the Title V program on our Campus have been earlier and better results than were expected. A few of these outcomes are:

- Our overall program is progressing ahead of schedule and consistently under budget.
- Completion of the Developmental Classroom and Developmental Lab, purchase of computers and software, and hiring of the Developmental Lab Coordinator over one year ahead of schedule. The combination of hiring the Developmental Lab Coordinator and Student Employee Tutors, has resulted in a dramatic increase in the use of the facilities, often to capacity. Hopefully, this will lead to the accomplishment of our retention goals well ahead of schedule.
- Allowing course release time for Faculty to learn new technology and retention strategies has led to an enthusiastic acceptance of these tools and to the direct application in the classroom, with the Faculty asking for additional training.
- In hiring a well-qualified Manager of Donor Relations in our newly established Development Office, we have surpassed our goals for contributions to the Campus for the first two years of the Grant and have provided guidance in the submission of five grant applications.
- Despite the slow start in the area of information management, we have gained access to data from our UNM-Main Campus repository for Student records that has never been available to us in the past.
- The Degree Audit portion of the information management activity is well ahead of the ambitious schedule presented in the Grant application for this time period.
- Through our Title V Student Services activities, our students now know more about our Campus, how it operates, and the availability of counseling and advising services.

I. INSTRUCTION – 2000-2001

Dr. Reinaldo Garcia, Dean of Instruction

A. Significant Developments

1. Overall

a. Continued implementation of outcomes assessment program.

b. Continued assessment of programs of study and effectiveness of course scheduling.

c. Completed Strategic Plan for 2001 – 2004.

d. Continued training faculty in the integration of technology into the classroom.

e. Initiated use of the new Developmental Studies lab and classroom.

2. Credit Programs

a. Curriculum Development

i. Assessment of Human Services degree and certificate programs.

ii. Implemented new Associate of Applied Science in Electronic Engineering Technology (includes Semiconductor Manufacturing Technology program as well as Industrial Electronics and Communication Electronics).

iii. Implemented new Associate of Applied Science in Information Technology with specialty areas and certificate programs in Internet Web Master, Systems Engineer, and Computer Programmer.

iv. Implemented revision Associate of Applied Science in Business Management.

v. Implemented new Associate of Applied Science in Office and Business Technology that includes emphasis in Medical Specialist, or Information Management, or Administrative Professional or, Legal Specialist.

vi. Implemented new Associate of Science and Certificate in Health and Fitness Education.

b. Labs and Equipment

i. Replacement of PCs for two labs in the Business & Technology Division.

ii. Installation of A/V equipment (projector, document camera, and sound) in two classrooms in the Arts & Sciences building.

iii. A wall was constructed in V123. This division of V123 made it possible to have an additional lab (V123a). The computers in V123a contain Computer Aided Drafting software. We are now able to offer drafting classes in V123a.

iv. V121 was configured as a mini-lab. This lab contains mobile computers that may be taken off campus for contract training.

c. Scheduling

i. Continued implementation of use of rating matrix to hire adjunct faculty.

ii. Progress towards automated scheduling and data reporting system.

d. Out-of-District Instruction (administered by Community Education) in Socorro, Moriarty, Estancia and Magdalena and Central NM Correctional Facility:

i. Socorro — Fall, 2000: CIS 120T, 10; MATH 010T, 10; MATH 120, 28; ENGL 100T, 20. Spring, 2001: ENGL 010T, 4; ENGL 100T, 14; MATH 120, 12.

ii. Magdalena — Spring 2001: MUSIC 143, 10.

iii. Mountainair — Spring 2001: IT 101T, 10.

iv. Estancia — Fall, 2000: SOC 211, 10.

v. Moriarty — Fall, 2000: CIS 120T, 19; SPAN 101, 16; SOC 101, 5. Spring, 2001: BSM 116T, 9; CS 150, 14; EDUC 293, 9; IT 101T, 11; SPAN 102, 9.

vi. NM Department of Corrections (Enrollment in this program is restricted to students incarcerated by the NM Dept. of Corrections. CNMCF (Los Lunas) — Fall 2000: OBT 293, 10. Spring 2001: OBT 292, 10. Torrance County Detention Facility (Estancia) — CIS 120, 12; ENGL 010, 13.

e. Distance Education (also administered by Community Education):

i. Electronic Distance Education Network (EDEN) (upper division & graduate courses received via satellite broadcast from UNM- Media Technology Services/Extended University) — Fall 2000, 10; Spring 2001, 12.

ii. Satellite Video Conference/Contract Industry, 4.

iii. Satellite Video Conference/Healthy Communities, 30.

f. Business & Technology

i. A database of our business, technical, and vocational programs/courses was submitted to the Department of Labor for implementation into the Workforce Investment Act careers file. Clients using vouchers may choose the training provider of their choice.

ii. Various short-term training programs Medical Insurance Billing and Coding and Computer Maintenance and Repair were designed for our SU-PARTE clients as well as canned programs (Heavy Equipment and CDL) from vendors.

iii. Developed advisory boards for OBT and IT by working closely with the various chambers and employers in this County. These groups ensure our curriculum is current and relevant to employer needs.

g. Tech Prep

i. Preparation and execution of Articulated Program Agreements, Process Articulation Agreements, and Concurrent Enrollment Agreements between consortium partners.

ii. Development of new course curricula and revision of existing academic and technology courses.

iii. Applied Communications training for ten high school teachers

iv. Curriculum alignment conference hosted by UNM-Valencia Campus for post-secondary faculty and secondary Tech Prep teachers.

v. Professional development training in Adobe Photoshop for Tech Prep high school instructors.

vi. Procurement of state-of-the-art equipment, supplies, and resource materials for the six regional high schools in the Tech Prep Consortium.

vii. UNM-Valencia Campus hosted the third annual Business & Technology Expo to showcase the technology and academic accomplishments of UNM-Valencia Campus and high school Tech Prep students.

viii. Sponsored teachers to participate in NMMATYC Conference to learn about applications of computer algebra.

h. Wellness and Fitness Education Center

i. Opened the Wellness and Fitness Education Center under the supervision of an interim (one-year) faculty member.

ii. All physical education courses (with exception of golf and other courses which require special sites) are now offered at the center.

iii. The facility was made available to all faculty, staff, students, and the community by signing up for a one credit hour physical education course.

i. Other

On November 14, 2000, for the first time in the history of our campus, 18 chemistry (CHEM 121 & 122) students under the direction of Dr. Celestyn Brozek, Associate Professor of Chemistry and Chair of the Science Department, prepared various chemical demonstrations to celebrate the National Chemistry Week. The event was sponsored by the American Chemical Society. All demonstrations were related to applications of chemistry in everyday life. The 6 hours-long exhibit was visited and

well received by 150 seniors from local high schools and by numerous students, faculty, and staff from our campus, as well as by general public.

3. Non-Credit Programs

a. Adult Basic Education

i. Pamela Etre-Pérez, Coordinator, awarded National Institute for Literacy Fellowship to study resistance to learning English among Mexican immigrant women in the Meadowlake area.

ii. Offered first workplace site at Sisneros Brothers in Belen.

iii. Increased number of family literacy sites from 3 to 6.

iv. Implemented use of CASAS for standardized assessment.

v. Designed and piloted workshops in Computer Basics, Learning Styles, Test-taking Strategies and Time Management.

vi. Faculty attended state training sessions on learning disabilities and to prepare for the new GED test.

vii. Tina Shiplet was trained as a trainer and presented to other faculty members on Learner Motivation, Retention and Persistence.

viii. Fall Open House: Approximately 75 people attended this joint effort of ABE, SEC and Career Services.

ix. GED Graduation: 43 of 167 graduates walked the line. Awards were presented.

b. Student Enrichment Center

i. Tutorial Services

a. Two full day and subsequent bi-weekly two-hour sessions in the fall and summer semesters provided required training for SEC and ABE tutors.

b. The College Reading and Learning Association awarded the SEC tutor training program its five-year re-certification from May 2001 to June 2006.

c. Tutoring services expanded to include Grammar 240 and History 260 and a walk-in writing lab.

d. Tutors provided 2,100.5 hours of tutoring this academic year.

e. Several peer tutors participated in the Student Retention Conference.

f. Corporate Time scheduling software was installed for scheduling tutoring appointments and resources.

ii. Computer labs

a. The Developmental Education Lab was equipped with 22 new computers and a printer.

b. The Developmental Education Classroom was equipped with one teacher computer and 16 student computers, a SmartBoard, Elmo projector, amplifier and speakers, and a media cart.

c. The SEC staff have trained several instructors in the use of developmental equipment and have consulted with some instructors on incorporating the technology in their curriculum.

d. SEC staff made two special presentations to at-risk middle school students in the Gear-Up program on 20 April and 19 June 2001.

e. The Spanish Lab, equipped with two computers, a printer, two audio-tape players/recorders, and a VCR opened in September and has provided students of Spanish with a range of media support for their study of Spanish.

f. The open lab contains 19 computers and one printer. Students spent a total of 11,200.4 hours in the SEC in study groups, in the computer labs, in the Spanish lab, and in the developmental labs.

g. Learning Plus, a developmental education software program, was installed on the lab computers.

iii. Professional Development

a. The Senior Tutor attended the CRLA regional conference in September 2000 the NMMATYC, and ACA conferences in June 2001, the Earth Math Project Summer Institute in June 2001, and served as a judge at the New Mexico Science Fair.

b. The Coordinator attended EduCause in October 2000, the National Assoc. of Development Education conference in March 2001, UNM Civil Rights workshop in June 2001, and completed History 260 in July 2001.

c. The Instructional Assistant participated in a UNM workshop on Effective Presentations, the Technology in Developmental Education five-day workshop in July 2001, and completed Math 111 in the summer semester.

d. All three staff members completed the UNM Defensive Driving workshop and participated in the Student Retention Conference.

iv. Equal Access Services

a. The SEC provided services to 25 Equal Access students throughout the academic year.

b. A Kurzweil reader was installed on five open lab computers for use by blind, visually impaired, and dyslexic students.

c. Services included note-taking, tutoring, reading, training in the Kurzweil Reader, echnical assistance in the computer labs, test-taking facilities, and readers and writers for tests.

v. Other

The SEC and Student Services offered a pilot project Math Anxiety Clinic in the summer 01 semester.

c. Library

i. Judy Marquez completed her career ladder moving from Library Technician to Library Information Specialist I in May.

ii. Library use (the gate count) was up 14% over last year to 62,573.

iii. The number of titles cataloged was up 38% over last year to 2,171.

iv. The number of reference questions recorded was up by 69% to 2,781.

v. The number of interlibrary loan items we borrowed was up 25% to 591.

vi. The number of interlibrary loan items that we loaned to other libraries was up by 29% to 350

vii. The number of library instruction classes taught was up by 26% to 133.

viii. The number of students attending the library instruction classes was up by 73% to 140.

ix. The ABE department gave the Library $1000.00 with which to purchase books in Spanish and lower-literacy level English books in July 2000.

x. A new book location was added in July 2000: the ESL (English as a second language) section. This location has our Spanish language, adult literacy, and children's materials.

xi. The new Library Instruction classroom was opened for use in August 2000.

xii. Another full-text database was added in August 2000: Business Source Elite.

xiii. The Library hosted a reception honoring Edwin Berry on October 5, 2000. About 30 people attended from campus and community. The staff from the Zimmerman archives presented the Library with 30+ CD's featuring Mr. Berry singing local folk tunes.

d. Community Education

A total of 4039 individuals participated in programs offered through Community Education Services, including non-credit programs, out-of-district credit course offerings, cultural enrichment activities, Community Training Center for CPR/First Aid and the Gear-Up grant. Details are as follows:

i. Non-Credit Programs

a. A total of 2,634 students enrolled in non-credit Community Education programs for 1999-2000. All programs showed an increase with the exception of the Community Education Non-Credit classes, which decreased by about 4.5%. All other programs reflected healthy increases. Details are as follows:

	Summer 2000	Fall 2000	Spring 2001	Total
Community Education[1]	135	123	165	423
Contract Training[2]	59	30	44	133
Education to Go[3]	0	6	3	9
Heavy Equipment Operator[4]	36			36
Sub-Total:	**230**	**159**	**212**	**601**

[1] Community Education includes non-credit personal enrichment, professional development and computer training courses.

[2] Contract Training refers to customized training for business, industry and government agencies.

[3] Education to Go is a series of web-based classes made available to the community.

[4] Heavy Equipment Operator Training was offered with Department of Labor funds through a partnership with Employment Training Services, Inc. and the City of Belen.

b. Gifted/ High Potential Program: Fall/Spring — Los Lunas & Isleta Elementary Schools, 163, McCune Charitable Foundation Accelerated-Enrichment Program; Fall/Spring — Los Lunas, Belen & Isleta Elementary Schools, 140. Sub-total Gifted/McCune Programs 2000-2001: 303.

c. Community Training Center: (for CPR/First Aid/American Heart Association) 1,146.

d. Gear-Up Grant (tutoring for middle school students): 150

ii. Cultural Enrichment Series:

Fall 2000:

- Hispanic Heritage Night, 100
- Houdini (afternoon performance), 400
- Houdini (evening performance), 55
- El Capitan Rafael Chacon, 22
- Chico and the Cool Kats, 25
- Los Pastores de Belen, 70
- Oedipus, 35

Spring 20001:

- Martin Luther King Jr. Celebration, 180
- New Mexican Horse Project, 60
- Two Voices of the Rio Abajo, 75
- Walt Whitman's America, 130
- Valley Cultural Festival, 110

Sub-total Cultural Enrichment Series, 1,262

iii. Special Events sponsored or cosponsored Community Education:

Fall 2000:

- Professional Association of Continuing Educators (PACE-NM)
- Fall 2000 Conference, 73

Spring 2001

- Sister-to-Sister Conference (with AAUW), 100
- Gear Up Workshop, 75
- PACE-NM Spring 2001 Conference (in conjunction with the Small Business Development Center 2nd Annual Economic Development Conference (PACE only), 18

Sub-total Special Events: 248

e. Childcare Center

i. The new Childcare Center opened the first classroom on January 16, 2001, with an initial enrollment of 5 children.

ii. Workstudy students were hired and trained to assist the Lead Teacher in the classroom, and to assist the Manager as administrative assistant.

iii. Enrollment rapidly increased until an average of 15 children attended daily.

iv. Parent meetings were held bimonthly to create a partnership between the home and Childcare Center.

v. In addition, parents volunteered in the classroom 4 hours per month.

vi. The Manager wrote a grant to the McCune Foundation, which was awarded to build a playground for the Center. Community Development also donated funds for the playground.

vii. The playground project was completed this summer. Trees and grass were planted, play equipment was ordered. An adobe playhouse is presently under construction. Phi Theta Kappa and SU-PARTE are providing volunteer labor to help with construction. This project will meet a multicultural requirement in the scope of work described in our CYFD Grant.

viii. A grant was written to the Federal Dept. of Education to help support expansion of the Center. We have not yet learned the outcome.

ix. Our goals of providing childcare for children of students (to facilitate their college attendance) are being met. We have received very positive feedback.

x. The developmental needs of children enrolled in our program are also being met. We are receiving very positive feedback regarding the quality of our program.

xi. A dance class was successfully added to the curriculum for the Summer Program.

xii. A Handbook and Brochure describing our program have been written.

4. Faculty Assembly:

a. Officers for 2000 – 2001:

i. President: Greg Candela

ii. Vice President: Dubra Karnes-Padilla

iii. Secretary: Cindy Chavez

iv. A & S: Julie DePree

v. B & T: Steve Castillo

b. Standing Committee Chairs for 1999 – 2000:

i. Tenure and Promotion: Celestyn Brozek & Greg Candela

ii. Faculty Professional Development: Michele Diel

iii. Faculty Program Development: Toni Black

iv. Curriculum: Bob Furry

v. Faculty Conflict Resolution: John Conescu/David Coker

vi. Adjunct Faculty: Dubra Padilla

vii. Outcomes Assessment: Michelle LeBeau

B. Significant Plans and Recommendations

1. Overall

a. Create Catalog for 2002 – 2004.

b. Create training programs for workforce development including welfare reform.

c. Enhance and expand business, industry and other agency partnerships to insure currency of vocational programs.

d. Improve communications with main campus departments and other receiving institutions to insure effective student transfer.

e. Enhance and expand business and industry training programs.

f. Improve campus-wide data collection and information management.

g. Continue to integrate technology into the classroom through faculty training, presentation rooms, and inclusion of A/V equipment into other classrooms.

h. Continue to improve internal communications/teamwork/collegiality:

a. Share information to improve effective communications through informal and formal networks and by publishing important documents, such as the Campus Catalog, the Faculty Procedural Handbook, and proceedings of the Instructional Council and Strategic Planning to the web.

b. Provide workshops, seminars, such as ongoing Covey training, to improve teamwork and encourage collegiality campus-wide.

c. Support Staff Association efforts directed at improving communication and morale.

d. Provide easily accessible information/training on setting up email and web pages, including faculty training for viewing course enrollments.

2. Credit Programs

a. Revise all vocational program to reflect business and industry needs.

b. Revise all academic programs to ensure congruency with corresponding UNM programs.

c. Continue to assess effectiveness of all credit programs.

d. Continue to upgrade all business, technology, and vocational programs/courses curriculum.

e. Provide WebCT training to all Business and Technology faculty.

f. Develop and deliver WebCT training courses.

g. Design, develop, and deliver computer based training courses.

h. Implement Residential Steel CAD software courses.

i. Implement Apprenticeship programs utilizing National Center for Construction and Educational Research curriculum

j. Continue to supply short-term training for employers in the community.

k. Update equipment and/or software for all programs in Business and Technology.

l. Advertise, market, and promote Business and Technology programs via brochures, high school visits, radio, billboard, television, and word-of-mouth to community members.

m. Expand and improve Tech Prep programs of study and concurrent enrollment programs to align with Objective #1 of Strategic Direction #3 of the University of New Mexico-Valencia Campus.

n. Continue to closely align high school curricula to UNM-Valencia's curricula in order to improve academic preparedness of students pursuant to Strategic Direction #3 of UNM-Valencia.

o. Implement Student Program Planners to guide students from secondary to post-secondary two year-degree status and beyond.

p. Continue to actively support Tech Program programs of study by acquiring equipment, software, and supplies for consortium schools.

q. Provide on-going opportunities for Tech Prep secondary teachers to attend academic and occupational training contextual learning techniques.

r. Incorporate business and employer partnerships to assess program needs, develop program curricula, and assess program effectiveness.

s. Develop effective marketing strategies and materials to recruit Tech Prep students.

t. Incorporate work-based learning and other meaningful initiatives into Tech Prep programs of study.

u. Recruit teachers for Applied Academic training provided by the State Department of Education.

v. Establish training opportunities for academic teachers, technology teachers, school counselors, career transitional specialists, and district curriculum development specialists.

w. Create on-going interest and awareness of Tech Prep through community outreach efforts and the fourth annual Business & Technology Expo.

3. Non-Credit Programs

a. Adult Basic Education

i. Pilot intensive courses in ESL and GED in the fall and if successful, create a spring schedule of all intensive courses to run for four weeks, four days per week, with testing before and after each session. Classes will also move from all-encompassing multi-level to addressing more specific academic levels. During the pilot study, we will be looking at retention, level gains and student satisfaction to determine whether we should continue in this manner.

ii. To address students entering the program, but unable to attend classes, we will have on-going workshops titled Time Management, Test Taking Strategies, Problem Solving, Learning Styles, Effective Communication and Basic Computer Skills for GED students. ESL students will have workshops on obtaining US citizenship, basic computer skills and English verbs. These workshops are designed to address the desired skills for students entering the classroom. Study groups for math, writing and GED in Spanish are also offered at the campus.

iii. We have formed a committee for student recruitment. They are full of good ideas that may reach our target population. They will be working closely with campus recruitment efforts, statewide ABE efforts and a few of our own. Our goal is to increase enrollment by 10%.

iv. Bridges to Practice is a special project sponsored and funded by the National Institute for Literacy (NIFL) that addresses learning disabilities in programs that provide literacy services for adults. It is estimated through this study that approximately 70% of the adults who enter these programs have undiagnosed learning disabilities. This will lead to a higher success rate for our students.

v. With the changes required from the Workforce Investment Act and the National Reporting System, as well as the Bridges to Practice project and the new GED test beginning January 2002, it is evident that professional development needs to be provided in a variety of methods. This year, as requested by faculty, we will have workshops lead by different faculty members, provide some Internet-based training and encourage more classroom observations and attendance to professional conferences in addition to our regular program sessions.

b. Student Enrichment Center

i. The Student Enrichment Center will offer several new services in the Fall 01 semester.

a. A math anxiety clinic in collaboration with Student Services.

b. Walk-in open tutoring labs in Math, Writing, and Grammar (students will not require an appointment and may stay for just a few minutes or for the entire 1 ½ hour session.

c. Short computer basics workshops in collaboration with AEC.

d. Several new software programs will have been installed to provide a greater array of instructional material to accommodate for different learning styles and course levels. These include LearningPlus, Inspiration6, SynchronEyes, MayaMath, Rosetta Stone for Spanish, et al.

c. Library

i. Learn how to use all of the new instructional equipment purchased in summer 01 for the Library Instruction classroom.

ii. Continue to increase faculty awareness of the need for library skills for their students.

iii. Master new circulation software.

iv. Review performance of new binding vendor.

v. Inventory the entire book collection.

d. Community Education

The 2000-01 Academic Year ended with an overall decrease in enrollment and/or individual participation in some Community Education programs as compared to the overall number reported for 1999-2000. While some programs did experience

significant enrollment drops, others had increased enrollment, and many new initiatives were added. Following is a detailed breakdown of the 13 categories of programs documented in this report:

i. Non-Credit programs:

- Program enrollment has been dropping steadily for the past several years, particularly in personal enrichment course offerings. This is a trend that has been reported both state-wide and nationally; however, an upward trend is expected for 2001-2002 which is evidenced by a 52% increase for Summer 2001. With the reorganization of office staff, which took place in November 2000, improvements are occurring in program development, marketing, and data collection and analysis.

- Contract Training and Workforce Development, however, increased and it is anticipated that growth will continue in these areas due to the Workforce Investment Act and efforts that are underway to establish training programs for business and industry. Examples include:

    - NCCER Industrial Maintenance Core Curriculum introduced by the Business & Technology Division. Although the program is sponsored by the Valencia County Hispano Chamber of Commerce, efforts are being made to strengthen the partnership between the UNM-Valencia Campus, the Hispano Chamber, area high schools through Tech-Prep, and local manufacturing plants.

    - Heavy Equipment Operator Training was completed by 36 individuals through a partnership between UNM-Valencia Campus and Employment Training Services, Inc. Training took place at the new City of Belen Multi-Purpose Sports Complex.

ii. Gifted-High Potential and McCune Charitable Foundation Programs. The program continues to flourish after five years. It is currently entering the sixth year of the third funding cycle.

iii. The Community Training Center:

The Community Training Center for CPR & First Aid offers American Heart Association curriculum in a five-county area. Approximately 125 instructors are registered and new programs include training in the use of the Automatic Electronic Defibrillator. We have obtained new equipment for use by the CTC and the Science and Education departments and look forward to contract training opportunities in the community.

ii. Cultural Enrichment series:

Overall attendance was down in 2000-01, but that was due to specific events that took place in 1999-2000 and were not repeated the following year. Those included the Student-Community Center Ribbon Cutting Ceremony; the Symphony Orchestra performance that was held at the Belen Baptist Church in conjunction with University Chorus when both were directed by Sherilyn

Welton; the Flora Tour which was organized for the Development Fund by Ted Hodoba who is no longer with the Community Ed program; and the Los Lunas Family Fun Fest which we co-sponsored with various agencies at Daniel Fernandez Park as part of our Valley Cultural Festival. For this report I have separated "Cultural Enrichment" from "Special Events" which should differentiate the activities for reporting purposes.

iii. Out-Of-District Instruction:

Enrollment was down which we attribute to severe weather conditions, which occurred in the East Mountain area in January and necessitated cancellation of our registration twice. We plan to accept phone registrations in the future, particularly in the spring, and a new 1-800 number has been established for this purpose.

iv. Distance Education:

While enrollment in the EDEN courses has remained stable over the years, we sponsored video conferences which resulted in an increase in participation.

v. Correctional Facilities:

- Enrollment was down at the Los Lunas facilities due to the NM Department of Corrections requirement that vocational rather than academic classes be offered exclusively. Equipment constraints in the prisons (computers, internet access, etc.), and an inadequate number of instructors willing to teach at the prisons from the vocational area both contributed to the decline. As of this date, we have received no word as to the Department's plans for 2001-2002. Education Director Sandy Yeffa resigned and was replaced by Frank Naccarato, so the program is experiencing a transition.

- Torrance County County Detention Facility, a private prison operated by Corrections Corporation of America in Estancia, hosted two classes with an enrollment of 45 total in the fall. A new administration took over in the spring, and further contact has not been made as of this date.

e. Childcare Center

i. The second classroom will be opened Fall Semester. Three new positions will be filled, and the hiring process is moving forward. We will hire a Lead Teacher, part-time Assistant Teacher, and a part time Administrative Assistant.

ii. We are exploring ways to meet the needs of the SU-PARTE students and others who only need short-term or irregular childcare.

iii. The process to achieve accreditation from the National Association for the Education of Young Children will begin in this fiscal year.

iv. If the Federal Education Grant is not awarded, other sources of funding will be sought.

v. With adequate funding, we will begin the process to open the third classroom.

vi. On-going training for our staff and parents will be held to assure that our program meets the rigorous standards for optimal child development as established by the State of New Mexico CYFD and by the NAEYC.

C. Appointments to Faculty and Staff

1. Full-Time Faculty

a. Jami Hacker, Ph.D., Assistant professor of English – August 2000

b. Maggie Griffin-Taylor, MA, Instructor in English – August 2000

c. Karen O'Kain, Ph.D., Lecturer III and Coordinator of the Student Enrichment Center and Developmental Studies Computer Labs – September 2000

2. Staff

a. Bea Sánchez, Coordinator of Tech Prep Program – January 01

b. Joan Summerhays, Manager of the Childcare Center – October 2000

c. Debora Agee, Assistant in the Childcare Center – October 2000

d. Eileen Davis, Admin Assistant in Community Ed. – November 2000

e. Andrea Santillanes, Admin Assistant in the Academic Office – February, 2001

f. Gloria Mirabal, Coord of Gear Up Program in ABE – February 2001

g. Lisa McCellon, Data Entry Operator III in ABE – November 2000

h. Madonna Yeary, Instructional Technician in the Developmental Studies Lab – January 2001

D. Separations from Faculty and Staff

1. Faculty

Steven Moe, Lecturer and Coordinator of the Student Enrichment Center.

2. Staff

a. Josie Sanchez, Admin Assistant I – April 2001

b. Gloria Mirabel, Coord of Gear Up Program in ABE – June 2001

E. Tenure and Promotion Decisions

1. Advancement to Professor

   a. None

2. Achievement of Tenure and advancement to Assistant Professor

   a. None.

3. Advancement to Code 4

   a. None.

F. Publications, Papers, and Notable Achievements

1. Reinaldo A. Z. Garcia, Associate Professor of Computer Information Systems and Dean of Instruction:

   a. Re-elected as Vice President of Rio Rancho Schools' Board of Directors.

   b. Attended HACU Conference, November 2000, Albuquerque, NM.

   c. Appointed to serve on UNM's Strategic Planning Task Force.

2. Kris Warmoth, Librarian:

   a. New Mexico Library Association Programming Committee.

   b. New Mexico Library Association Public Relations Committee.

   c. New Mexico Academic and Research Librarians Advisory Board.

   d. New Mexico Consortium of Academic Libraries.

   e. Rio Abajo Library Consortium.

3. Kris White, Information Librarian:

   a. Mountain Plains Library Association.

   b. New Mexico Library Association.

   c. New Mexico Consortium of Academic Libraries, Chair of the Interlibrary Loan/Document Delivery Committee.

   d. Northwest Archivists.

   e. Southwest Archivists.

   f. American Library Association.

g. New Mexico Resource Sharing Cooperative (Union List Committee).

4. David Coker, Lecturer in Fine Arts and Chair of the Fine Arts Department:

   a. Awarded "Teacher of the Year" for the Arts & Sciences Division.

   b. UNM-Valencia Faculty Exhibit.

5. Pamela Etre-Pérez:

   a. Awarded a one-year fellowship from the National Institute for Literacy that began October 1, 2000; her research started as the resistance of immigrant women in a rural area to learning English (will be a part of her dissertation).

6. Cindy Chávez:

   a. Continues to pursue her MPA.

   b. Attended IAAP conference in Canada.

7. Toni Black:

   a. Awarded "Teacher of the Year" for the Business & Technology Division.

   b. Made major progress towards completion of her Ph.D.

   c. Attended WebCT conference in Canada.

8. Richard Melzer:

   a. Wrote Breakdown: How the Secret of the Atomic Bomb Was Stolen During World War II (Santa Fe, N.Mex.: Sunstone Press, 2000).

9. Alex Sánchez:

   a. Completed book on Adobe Construction.

10. Raul Ortega:

    a. Awarded "Adjunct Teacher of the Year" for the Business & Technology Division.

11. Michael Ceschiat:

    a. "Gigantic Fantastic Flowers in Clay," Mariposa Monte Vista Gallery, ABQ, NM.

    b. "UNM-Valencia Faculty Exhibition," Fine Arts Gallery, Los Lunas, NM.

    c. "Cone 6 Reduction," Lecture at Harwood Art Center, ABQ, NM.

    d. UNM Anagama firing pass emission test, Madrid, NM.

12. Michael Davis:

a. "What Shall I Cry?," HoneyRock Percussion.

b. Belen SATB Chorus, The New Millenium Harp.

c. Ojo Caliente SATB Chorus, The New Millenium Harp.

d. Placitas SATB Chorus, The New Millenium Harp.

e. Sangre de Cristo SATB Chorus, The New Millenium Harp.

f. Crownpoint SATB Chorus (Folk Hymn), Sacred Harp Convention.

g. Animas SATB Chorus (Folk Hymn), Sacred Harp Convention.

h. Belen SATB Chorus (Christmas-Fuging Tune), California Sacred Harp Convention.

i. Placitas SATB Chorus (Hymn), California Sacred Harp Convention.

j. Tijeras SATB Chorus (Fuging Tune), California Sacred Harp Convention.

k. "In a Room Somewhere" (musical for voices and piano), Anchorage Press.

l. "A Midsummers Night Dream Marimba Ensemble-Percussion," ABQ Little Theatre.

m. "Evening Prayer of Hunger" (for Gamelan Orchestra), Outpost Performance Space.

n. "Evening Prayer of Peace" (for Gamelan Orchestra), Outpost Performance Space.

o. "Degas Little Dancer Piano and Electronic Keyboard," ABQ Tour and UNM (X Theatre).

p. "Frida" (a dance drama for piano, percussion, and prepared piano), Danzantes, Los Angeles.

q. Forgive SATB Chorus (a capella), St. Michaels and All Angels, Issaquah, WA.

r. "Wherever You Go" (for solo soprano and SATB Chorus), UNM-Valencia Choir.

s. "The Play Called Noah's Flood" (for chamber orchestra), Santa Barbara, CA.

t. "The Miser" (sound design), ABQ Little Theatre.

II. STUDENT SERVICES – 2000-2001

Raymond Rondeau, Associate Director Student Services

A. Significant Developments

1. Admissions/Registrar's

a. In an effort to enhance awareness about the Valencia Campus, the staff from the Admissions/Registrar's Office was actively involved in informational workshops conducted at area high schools.

b. A new position was established to create and place all UNM-Valencia Campus degree programs into a degree audit system. This comes as the result of the Title V Grant. The individual filling the position has attended many formal training sessions and has encoded all of our 97-99 and 2000-02 catalog degree programs. This action will eventually allow students to check their own progress toward their degree.

2. Advisement

a. Retention efforts have continued with a preliminary result of 73% of first semester students for fall 2000 retained into the spring semester 2001. The retention for fall 99 to spring 2000 was 42%.

b. Mr. Raymond Rondeau was appointed Associate Director Student Services after serving as Career Counselor and Coordinator for Career Services and as Manager for Advisement and Counseling.

c. Advisors gave Study Skills presentations to various ACAD courses. They also participated in off-campus presentations at Los Lunas and Belen schools. Throughout the academic year, the advisors worked with the Dean of Instruction on curriculum as it related to the recent implementation of the UNM Core Curriculum.

d. The Peer advisor program has been modified to allow the hire of two students as student employees who work with new students during the peek enrollment periods throughout the year. They assist with the admissions application process and with helping new students to understand the admissions/registration and advisement procedures.

e. A pilot project was initiated spring 2001 to provide high school seniors to early admit and register for classes. Students from Belen and Los Lunas participated in the project resulting in some 50 students being registered early for Fall 2001 classes. The students stated they appreciated the opportunity to register early so that they could get a more desirable class schedule. The project will be repeated and expanded for spring 2002.

4. **Career Services**

   a. During the fiscal year Career Services experienced some personnel changes with the Coordinator position. Ray Rondeau was moved to become Manager of Advisement and Counseling and Donna Romero requested to step down from Associate Director Student Services to become the Manager of Career Services.

   b. The Title V Counselor moved from Career Services to the Advisement area, which resulted in the area's title changing to the "Advisement and Counseling Center."

5. **Counseling Services**

   Counseling Services as provided by the Title V program moved to the advisement area, which resulted in the new name of "Advisement and Counseling Center". The Title V Counselor conducted Anxiety and Depression Screenings during national college screening days during the Spring 2001 period. The counselor also led the effort to initiate a peer-mentoring program.

6. **Placement**

   a. The placement testing process was improved by upgrading of the COMPASS test software to a Windows version.

   b. Testing of High School juniors was piloted at Estancia High School in May 2001. The lessons learned will assist in going forward with additional testing during the next fiscal year.

7. **VA**

   The VA program was moved to the Admissions/Registrar's area and is now the responsibility of the Admissions Advisor.

B. Significant Plans and Recommendations

1. On-going training for staff.

2. Career Services to be moved from the LRC to the Students Services Advisement and Counseling Center.

3. A resource room consisting of 9 computers and a printer to be established in the former Security office located within the Advisement and Counseling Center. This will allow for walk-in placement testing, on-line registration and FAFSA on-line for our students.

4. Off-site financial aid workshops will continue to be a big part of recruitment efforts.

5. Continued efforts in the evaluation of Student Services programs using surveys and focus groups.

B. Appointments to Staff

1. Donna Romero, Manager Career Services, October 2000.
2. Frances Duran, Admissions Advisor, February 2001.
3. Nancy Miller, Administrative Assistant, June 2001.
4. Joyce Mondragon, Sr. Academic Advisor, April 2001.
5. Barbara Delgado, sr. Academic Advisor, April 2001
6. Raymond H. Rondeau, Associate Director student Services, January 2001.
7. Vikki Galaz, Sr. Financial Aid Advisor, November 2000.

C. Separations from Staff

1. Eliseo Montoya terminated October 2000.
2. Barbara Delgado terminated August 2001.
3. Dixie Dennison terminated June 2001.

III. OFFICE OF BUSINESS & FINANCE – 2000-2001
Andrew Sanchez, Associate Director, Business Operations

A. Significant Developments:

1. Campus Issues:

a. Work continued on funding and licensing for the Childcare Center with the Center fully operational by Fall of 2001.

b. The Campus made a concerted effort to implement the Five-Year Master Plan, which was completed on June 25, 2000. Presentations were made to the Commission of Higher Education - Capital Outlay Committee for Phase One of the Instruction's facility, which they placed on the states critical need list for state funding. All capital funding was vetoed by the Governor including the planning funds allocated by the Legislature for this facility. As further evidence of the commitment to following the Five-Year Master Plan, the Advisory Board began considering a resolution to send to the voters a proposed $5,000,000 bond issue for continued progress on the plan.

c. Work was not completed on testing and balancing of the campus wide HVAC system as planned. The original system was damaged when debris was introduced into the lines during construction. A new set of ice banks was ordered; however, installation was not yet complete at fiscal year end. The complete system includes a central cooling plant with thermal storage for increased efficiency and lower operating costs. When completed, the system is expected to save on the campus utility bills.

d. Renewal and replacement work began on the campus roofing systems in mid June 2001, with completion expected by mid September 2001. This project consists of full roof replacement on three buildings to include the Administrative, Arts & Science, and the Business and Technology buildings.

2. Business Office:

a. The Cashier's Office took over cash collection duties for Community Education in late Fall of 1999. In the first quarter of the 00 - 01 fiscal year the Community Education staff was given additional training and a list of procedures to follow, and as intended, cash handling duties were returned to the Community Education department in Fall 2000.

b. The Business Office continues to explore new ways of improving service while enhancing our abilities for financial accountability and control. To facilitate this, the Business Office sponsored a number of workshops on Contract and Grant financial record keeping, travel procedures, and general accounting financial record keeping. To further improve customer service, the Business Office continues to enhance our Web site that contains information on all Business and Finance departments as well as policies, forms and links to the Main Campus Business Office Policies and Procedures (Big Red).

3. **Security:**

   The addition of another security guard has allowed the department to cover more hours and to cover other staff schedules in the event of illness or vacations. The additional presence has assisted in keeping vandalism and other safety issues to a minimum.

4. **Human Resources:**

   a. The Human Resource Department moved to the Learning Resource Center to alleviate concerns about access by employees to the office services. The success of that move is still under evaluation. The department continues to emphasis recruitment activities especially focusing on minority recruitment.

   b. A New Hire Orientation Committee was organized to oversee the creation of a new manual and proposed orientation for all new employees.

   c. A new training program for Hiring Committee members was designed and implemented covering EEOC and ADA related issues.

5. **Budget:**

   a. As has been done for many years, the campus continues to have an open budget process involving the entire campus as well as a continued consorted effort to link the budget with the strategic plan. This fiscal year was the most successful year for accomplishing this task.

   b. As a result of receiving a number of grants as well as continued enrollment increases, the size of the campus budget continues to grow. The FY 00-01 budget increased by over 13.34% over FY 99-00 to $7,769,659.

6. **Computer Support Services**

   a. The Computer Support Services staff was moved to a new location, Room 107, in the Business & Technology building. This was done to consolidate all staff in one location as well as to house them directly adjacent to the network server room. This was done in order to enhance response time should network problems arise.
   b. CSS also welcomed Tod Singletary as the new Activity II Director for Title V as a User Analyst III. Mr. Singletary had been on our CSS staff as a user Support Analyst II.

   c. In an effort to speed access to network and internet services on campus, a number of changes have been implemented including converting all PCs on campus to new Internet Addressing Protocol (DHCP) and upgrading the Gateway to UNM - Albuquerque in preparation for new network architecture.

7. **Auxiliary Enterprises:**

   a. The Bookstore continues to improve all aspects of their operations. The changes implemented over the last two years resulted in a minimal inventory adjustment, better service, reduced costs to students, and increased revenue for the Bookstore. In FY 00 - 01 the Bookstore experienced its best year ever.

   b. Operational changes also continue for our Food Service area. Beginning in May 2001 the Food Service department took over the Student Center operations. This was done to provide better service to students as well as to streamline costs to Food Services by sharing cost between both areas. Carol Cronnan was added to enhance services to customers and to provide additional coverage.

8. **Physical Plant:**

   a. The Physical Plant staff received training in the maintenance of the new HVAC system. It is expected that our own maintenance department will do some of the maintenance of this new system and call on outside contractors for major repairs and issues.

B. Significant Plans and Recommendations for the new Fiscal Year:

The Business and Finance area will lead the campus effort to get approval to proceed with the Capital Project Bond issue as well as getting it passed by the voters in April of 2002.

In our continued effort to provide better computer service to our students, faculty, and staff, the Computer Support Services department will concentrate on a number of major issues including:

- hiring a new User Support Analyst II who will be our campus Web master and Multi Media specialist,
- installing and implementing new wireless network access system, purchase new Core Switches for 1 Gb LAN speeds to all buildings, and
- installing two new multi processor, multi NIC servers.

The Physical Plant department is expected to oversee the completion of the installation of ice banks so that the HVAC system can operate as designed as well as overseeing the completion of the roofing project.

Our bookstore will be exploring the possibility of installing a new Point of Sale software that would have the capability to allow students to order their books over the internet. This new software would enhance customer service to both on campus students as well as distance education students, while streamlining bookkeeping duties and enhancing accountability.

C. Staff Changes:

1. Additions to staff:

Stella Renteria	Personnel Coordinator	June, 2001
Bob Maxwell	User Support Analyst II	March, 2000
Guy Steltzer	User Support Analyst I	January, 2001

Maryann Castillo	User Support Analyst I	August, 2000
Carol Cronan	Cook I	March, 2001

2. Staff Departures

Debby Montoya	Admin Assistant III	April, 2001
Jo Ann Line	Accounting Technician	June, 2001

IV. PROGRAM DEVELOPMENT – 2000-2001

Olga Gandara, Associate Director, Program Development

1. Introduction

The Associate Director is responsible for management oversight of the Small Business Development Center, the School-to-Work Initiative, the Tech Prep Program (through February, 2001), the Welfare Reform Program entitled "SU PARTE" and the Welfare to Work Program.

A. Significant Developments

1. Small Business Development Program (SBDC).

a. SBDC held 12 workshops attended by 105 people, resulting in 557 hours of training.

b. The Center helped 12 clients obtain a total of $657,000 of capital during the year, which more than doubles the total for 1999-2000.

c. Twenty-three businesses were opened and a total of 55 new jobs were created.

d. SBDC hosted its second Economic Development Conference in 2001 with 160 attendees. The event had Mark Lautman of Santa Teresa as keynote speaker with two panels consisting of elected officials and local businesspeople.

2. School-to-Work

a. The School-to-Work Initiative completed its fourth year of a five-year cycle, School to-Work supports activities related to career choice and career exploration for grades K-16 in five school districts (Belen, Estancia, Los Lunas, Magdelena and Mountainair).

b. UNM-Valencia Campus and four out of the five schools have received site licenses and training for using 'Pathfinder' to secure job shadowing sites and post student resumes. The software also has the potential for businesses to post job announcements and link students with part-time paying or community service positions.

c. A total of 83 students were awarded certificates by the Belen Chamber of Commerce, which recognized them as Belen Chamber Scholars. This award is made to students who maintain a 2.5 grade point average and have only 5 excused absences from school and is designed to inform the students about the value of education and link between employability skills and earning potential.

d. A total of 453 students received materials and participated in Junior Achievement Activities.

e. All schools provided activities that address career awareness and/or education. The activities included: career fairs, job shadowing, career days, entrepreneurial

activities, attendance at the "Sister-to-Sister" conference, guest speakers, field trips, and academic testing and placement, etc.

f. All 9th grade students completed CAPS and were assigned a mentor that provides assistance in the development of the four-year school plan. During grades 10, 11, and 12, CAPS are revised and with the help of the mentor these plans are implemented.

g. Students at the two alternative schools in Belen and Los Lunas completed CAP portfolios. Students worked on resumes, interest assessments, developing and implementing small businesses. In addition, students were involved in work-study situations and participated in tutorial opportunities. Special needs students received career information materials through the STW grant.

h. A total of 500 students participated in job shadowing experiences.

i. Los Lunas and Belen graduating seniors participated in the "Early Admissions/Early Registration" especially designed to assist them with the admission and registration process including the administration of the placement testing if required and in preparation for New Student Orientation.

j. Belen and Los Lunas high school juniors participated in the "College Readiness Initiative for High School Juniors." High school juniors are administered the college placement tests in reading, writing and math so that during their senior year in high school students may focus on remediation of any deficiencies identified.

k. Three Parent Involvement Summits were held in June. Two days were devoted to parents only. The Summits covered the impact parents have on the schools and the types of parent involvement that can be planned and executed. The third day involved team from each school that included parents, teachers, administrators, and the Career Transition Specialist. A total of 60 people participated over the three-day event. Individual follow-up sessions will be held in August for each school district (Belen, Estancia, Los Lunas, Magdalena, and Mountainair) with the consultant, Dr. Karen Banks. The follow-up sessions will focus on the plans are developed for the coming school year.

l. All five school districts participated in the Annual Business & Technology Showcase Expo hosted by the Business and Technology division.

3. Tech Prep

a. The Program Coordinator for the Tech Prep Program took a position with the Los Lunas School District, August 2000 and continued her affiliation with the Tech Prep Program on a limited basis (10 hours a week). During this time the Program Coordinator ensured that the project's reporting requirements/deadlines were met, that equipment purchases were processed in accordance with UNM and the funding agencies procurement policies. With her assistance and that of the workstudy student assigned to work on this project equipment and materials/supplies purchases totaling$71,488.19 were completed by January 15, 2001 deadline. Equipment and material/supplies were distributed to the

participating schools districts in the consortium. Additionally, the Program Coordinator provided the incoming Tech Prep Coordinator with technical assistance and some training relative to the Tech Prep Project.

b. The Executive Director placed the program oversight of this Project under the Direction of the Dean of Instruction effective March 2002.

4. SU PARTE

a. The program placed 345 TANF clients during the contract year, exceeding the budget of 320.
b. The program assessed 576 TANF clients in the contract year.

c. During the contract year, 173 TANF clients requested vocational training for college credit. 29 of those clients began new state funded program called Education Works. This program allows clients to attend college full-time for two years, working toward their first associates or bachelors degree without counting that time toward the clients 60-month lifetime welfare receipt limit. Of the 29 clients who began Education Works, 21 remain active in the program as of 06-30-01.

d. 15 SU PARTE clients received their GED this year.

e. 579 TANF clients were enrolled in life-skills classes through SU PARTE this year. 130 of those clients completed their assigned classes (22.45%).

f. 202 TANF clients engaged in community service through SU PARTE this contract year.

g. SU PARTE funded a 225-hour MIBC training course for nine TANF clients through Community Education.

h. SU PARTE participated in the Valencia County Economic Development conference, the UNM Valencia Tech Expo and the TVI Career Fair.

i. SU PARTE sponsored the participation of seven staff and 29 clients in the annual Valencia County Women's conference and luncheon "Life is a Patchwork Quilt" held at UNM Valencia Campus last April.

j. The program sponsored the participation of 27 clients' children in the June and July 2001 Kids College at UNM Valencia. Funding was provided by Clothes Helping Kids, Inc. using $1760.00 that was left over from the previous year's grant of $4500.00.

B. Significant Plans and Recommendations for the Near Future

1. Small Business Development Center

a. The Center has scheduled of 5 Workshops for the 2001-2002 fiscal year, and will:

b. reinstate the Bankers' Forum, host a "Marketing Media Workshop," and host a third Economic Development Conference.

c. The Center is fully prepared to collaborate with the appropriate instructional departments and is willing to design and deliver presentations on a variety of business topics to suit specific class needs.

d. The Center plans to continue its marketing efforts through attendance at Chamber of Commerce functions, community events, campus-sponsored events, Rotary and Optimist events as well as participation in appropriate seminars, conferences and workshops.

2. School-to-Work Program

a. The final year of funding for School-to-Work is July 2001 through August 2002. The grant emphasis will be on developing Action Teams within each participating school district. Representatives from these Action Teams will form a region-wide umbrella organization. The goal for all of the groups is to develop stronger partnerships between families, communities, businesses, and schools.

c. The School to Work Initiative received a total of $90,000 to operate during the 2001-2002 fiscal year.

d. Grant funds provided in response to the proposal submitted will allow for the increase of the program coordinator's position from a .5 FTE position to a full-time position.

e. Four out of five school districts have committed to full funding for the Career Transition Specialists. This was one of the major goals for School-to-Work when the first grant was written. This will help to sustain School-to-Work Initiatives within each school.

f. The initial Parent Involvement Follow-up session in all five school districts will take place in August. These efforts will continue throughout the year with the focus that these parent groups will continue the School-to-Work efforts developed and enhanced by the seed funding provided for school-to-work initiatives.

g. The Los Lunas School district is one of the first five schools in the state scheduled to participated in "First Day Holiday Activities," a national program focused on promoting family involvement in the schools by supporting partnership development between families, schools, business and the community- at-large

3. SU PARTE

a. The Welfare Reform "SU PARTE" agreement has been renewed for one year: July 1, 2001 through June 30, 2002. New funding for this fiscal year is $601,005.00. Carry forward from last year is $376,757.54 for a total of $977,762.52.

b. SU PARTE is expanding the availability of introductory computer training classes by adding a new morning class beginning in August.

c. As directed by the Regional Contractor, the Orientation classes will expand in scope and increase to a seven-hour orientation session. The orientation will include SASSI screening and referrals as well as additional emphasis on Domestic Violence prevention and a more thorough approach to goal setting and client involvement in the program. SU PARTE has been asked to provide childcare for those clients who need it for the Tuesday TANF orientations, which will now run from 8:00 AM to 3:30 PM with a half- hour lunch break.

d. SU PARTE has set aside funding for 4 student employees at $7.00 per hour, 20 hours each week, for the new contract year. These employees will work wherever on the Valencia Campus they can best enhance their opportunity to meet their employment goals when they graduate. Student employees must be TANF clients and must be enrolled on a half-time basis for credit classes at UNM Valencia Campus.

e. SU PARTE plans to use special training grant dollars ($92,925.00 total funds) from ISD augmented by SU PARTE budget funds to provide five training sessions through Community Education during the new contract year:

- One 160-hour Commercial Driver's License class for 10 participants.
- One 120-hour Computer Maintenance and Repair course for 10 participants.
- One 225-hour Medical Insurance Billing and Coding class for 9 participants.
- Two 96-hour Certified Nursing Assistant courses for 10 participants.

C. Appointments to Faculty/Staff

Tech Prep		
Bea Sanchez	Program Coordinator	January 2, 2001
SU PARTE		
Rosa Auletta	Client Service manager	November 2001
Kevin Begley	Program Manager	February 2001
John Barber	Client Service Manager	November 2001
Tina Brown	Client Service Manager	November 2001
Rigo Brueck	Coordinator of Job Development	May 2001
Carol Claus	Admin II	June 2001
Diana DeBaca	Coordinator of job Development	January 2001
Stephanie Ingram	Admin II	May 2001
Walter Lawendowski	Client Service Manager	June 2001
Maximillian Luna	Instructor	January 2001
Nanci Nielsen	Instructor	November 2000
Linda Walters	Coordinator of Job development	May 2001

D. Separations Faculty and Staff

Small Business Development Center		
Arlene Stump	Administrative Asst. III	April 23, 2001
Tech Prep		
Corine Trujillo	Program Coordinator	February 19, 2001

SU PARTE

Diana DeBaca	Coordinator of Job Development	February 2001
Danielle Groeling	Case Manager	September 2000
Yvonne Hart	Program Manager	January 2001
Elizabeth Hessinger	Admin II	November 2000
Bea Sanchez	Instructor	January 2001
Debbie Stiles	Coordinator of Job Development	February 2001
Linda Walters	Coordinator of job Development	July 2001

E. Publications

Small Business Development Center

- SBDC Manager writes a newspaper column for the Valencia County News Bulletin with small business topics.
- 38 newspaper articles regarding the SBDC or SBDC clients were published during the 2000-2001 fiscal year.

F. Outside Professional Activities

Small Business Development Center

- SBDC Director wrote articles for local publication.
- Business Advisor participated in Career Days at Los Lunas High School.
- Director and Business Advisor attended all NMSBDC professional development classes presented and received accreditation as Certified Business Analyst.
- Business Advisor attended professional training conference in San Antonio, TX in May 2001.
- Director attended ASBDC meeting in Miami Beach, FL in October 2000.
- Director is working with Forest Service on Business Plan/Marketing training.
- Director attended Economic Development Institute in Silver City in May 2001 and is working toward Certification in Economic Development.
- Director took UNM class on Quality Management and will serve on NMSBDC Quality committee.
- Director serves on NMSBDC Marketing Committee to work on marketing plans pertaining to SBDC clients and stakeholders.
- Business Advisor serves at the President of the Los Lunas Optimist Club.
- Director serves on the International Economic Development Council.
- Director is a member of the Los Lunas Rotary Club.

- Director is a member of the Belen AAUW organization.

School-to-Work

Program Coordinator serves as the conference chairperson of the New Mexico American Society for Training and Development.

COMPUTER & INFORMATION RESOURCES & TECHNOLOGY

Annual Report
July 1, 2000-June 30, 2001

Prepared by Staff and Management of CIRT

Computer & Information Resources & Technology (CIRT) is the computing center at the University of New Mexico. CIRT's experienced staff and dynamic resource capabilities provide computing and networking services to a diverse and extensive campus community.

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2.0 EXECUTIVE SUMMARY

Following a successful and relatively uneventful conversion to Y2K compliance last year, CIRT's major accomplishments for the 2000-2001 academic year fell in the following broad areas:

- Upgrades to UNM's CPU, storage and network improvements.
- Continued improvements in the productivity of CIRT staff through the acquisition and more effective use of system management software to automate what were previously manual processes.
- Continued enhancements to UNM's various administrative and academic support systems.

Usage of CIRT's various services is detailed in the tables and graphs shown in Section 6 and continues to increase in many categories. While the percentage changes are smaller than in previous years, it should be borne in mind that these are calculated on much larger "base" figures than in previous years. A notable exception is disk storage, which has increased by 73% over comparable figures of 1 year ago. The primary factor for this increase include a combination of the following:

- E-mails are using more and larger attachments to transmit power-point presentations, submit research papers for publication, and to electronically distribute and collect student homework assignments. This necessitated an increase in the disk quotas for all students, staff and faculty.
- Increases in the number of UNM and departmental web pages stored on CIRT web servers.
- A quintupling in the number of students (from 2,200 to 11,000 over the past two years) who are taking web assisted courses. As these courses increase in number and become increasingly sophisticated, they require more storage space.
- Academic departments and administrative units demand more data to be stored on the data warehouse to generate needed reports.

Throughout the year, CIRT made numerous incremental enhancements to its academic and administrative support systems which are detailed in Section 4. Some of these included enhancements to UNM's Human Resources System that were suggested by the Business and Finance EMIS project while it continued to wait for UNM to decide whether or not to embark on an $8M, 3 year project to implement the Purchasing and Accounts Payable portion of Oracle's Financial System. As a precursor, partial funding was requested and approved for the CPU, storage, network and software infrastructure that would be necessary to implement that project with the stipulation that any infrastructure so acquired be general purpose to be usable for any future application UNM decided to implement. Much of the needed infrastructure has been acquired and installed towards the end of this academic fiscal year.

In the networking area, CIRT added 1202 new connections for a total of 20,428, used grant funding to help install a robust Gigabit backbone, and implemented the multicast protocol needed by campus research groups to support the transmission of voice and video streams over the data network. Implementation of the multicasting protocol has also increased CIRT staff productivity in that it has reduced the number of staff hours required to restore and install personal computer software in the pods by electronically distributing it over the network.

A special concern this year has been the continued increase in computer security incidents as detailed in Section 6.1. While CIRT's implementation of more robust user authentication services has reduced certain kinds of incidents by 75%, there has been a significant increase in incidents that targeted systems of specific departments causing widespread problems and unavailability of departmental computing resources, sometimes for days at a time. As computer systems become more affordable and more interconnected, they are increasingly acquired by departments who may not have the staff necessary for their effective operation and management. This has left departmental systems vulnerable to external hacker attacks which, in turn, has created a large overhead for CIRT staff in handling and resolving problems that could not be done by departments. To help resolve these, CIRT held numerous discussions, demonstrations, and security training seminars for the campus community, and used special web pages with timely information on how to protect departmental systems from the latest types of attacks. It is hoped that this will provide departments with a greater body of skills needed to make their system less vulnerable to attacks.

As more departmental systems provide mission critical services, the need for 24 x 7 operation and professional administration of these systems is becoming increasingly apparent to some departments. Consequently, CIRT has worked with departments to share the responsibilities for some of these systems. Some examples of such collaborations include:

- The transfer of responsibility from MTS to CIRT for the operation and management of WebCT servers, while MTS provides WebCT training, consulting, and helps faculty with development of web assisted courses.
- The planned transfer of web servers from the Registrar's office to CIRT.
- The use of CIRT's managed storage systems by the library for some of its mission critical systems.
- The on-going discussions between CIRT and the Hospital to mutually back-up each others data to prevent accidental loss of mission critical information.

As in past years, some of the enhancements described in this report were wholly or partially funded through grants from various sources. In FY 2000-2001, CIRT submitted grants to, or received grant and contract funding from the following sources:

- Indirect cost recovery from the Maui Project ($64,000).
- The National Science Foundation (NSF), whose high performance connectivity grant paid for the connection fees to Internet 2 ($175,000).
- The State of New Mexico which provided $550,000 to help introduce technology into the curriculum, enhance connectivity in the pods and acquire servers to host WebCT courses. This grant was leveraged to obtain a Pew grant (see below).
- A contract with the US Court System for processing jury wheels ($109,000).
- The Pew Foundation ($200,000) for redesigning the Psychology 105 course (about 2,000 students/yr.) with the goal of improving the course, reducing the dropout rate and lower the cost of instruction. CIRT was an active participant and a Co-PI in this grant which required a strong technology component as a pre-requisite.

- Submitted an NSF EPSCOR proposal for $300,000/yr for 3 years to maintain current Internet 2 and enhance Internet 1 connectivities. This has been approved for funding effective in early 2002.
- Submitted a CHE IT proposal for $1,075,000 to enhance instruction, connectivity to the branches, the UNM portal and the UNM warehouse. The CHE approved funding $900,000 of this request and is awaiting legislative action on their recommendation.

3.0 CIRT ORGANIZATION

CIRT's organization consists of the executive office of the associate vice president and two directorates. One directorate consists of the Information Resource Center and Administrative Information Support. The other directorate is comprised of Distributed Systems Integration Group, Central Systems and Operations Support and the Communications Support Group. Cross-CIRT support is provided by the executive offices of the associate vice president. The following summarizes the activities of these groups.

3.1 Executive Offices of the Associate Vice President

- Associate Vice President
- Unit Administrator
- Contract Administrator
- Network Specialist
- Supporting Staff

The executive offices provide support common to all groups within CIRT, including contracting, materials management, and administrative support for the entire staff of CIRT. Planning is the shared responsibility of upper-level management in the executive offices and operational groups which include: Administrative Information Support (AIS), Information Resource Center (IRC), Central Systems and Operations Support (CSOS), Distributed Systems Integration Group (DSIG), and the Network Group.

3.2 Administrative Information Support (AIS)

AIS serves the administrative information needs of the University, primarily through the development and 24-hour maintenance of mission-critical central systems such as Registration, Financial Aid Management, Financial Reporting Systems, Payroll, Human Resources and others.

3.3 Information Resource Center (IRC)

The IRC provides the UNM Community with the first level of support for CIRT-supported hardware and software. The CIRT Support Center, staff consultants, CIRT pods and classrooms, computer accounting, public relations, hardware maintence, software distribution, security, tutorial materials, publications, and the CIRT library, are all supported by and included in the Information Resource Center.

3.4 Central Systems and Operations Support (CSOS)

CSOS provides operational support for all CIRT shared systems. This includes the monitoring and operation of all hardware systems, data entry, scanning services, enterprise server operating systems, as well as database, technical, and administrative support. CSOS provides delivery service to administrative departments on campus and monitors, records, and reports the status of hardware problems. In addition, CSOS supports a staff that maintains outside contacts.

3.5 Distributed Systems Integration Group (DSIG)

DSIG supports a variety of systems running AIX and a number of other dialects of the UNIX operating system. DSIG works with academicians, researchers, and administrators throughout the UNM campus and associated organizations to support their computing system management needs. In addition, DSIG

develops and supports mission-critical university-wide-systems such as electronic mail and the World Wide Web servers, as well as the automatic generation of user accounts.

3.6 Network Group

The Network Group is responsible for designing, installing and supporting the Campus Data Communications Network (CDCN), including campus access to the Internet and other national networks such as the very high speed Backbone Network Service (vBNS). The group works closely with various units to ensure that departmental network needs are met. In addition to the installation of the network, this group maintains the current network configurations to allow accessibility on a 24-hr, 7-day-a-week basis.

4.0 CIRT ACHIEVEMENTS

4.1 New Software and Pod Improvements

CIRT implemented several new online tools for use by the UNM community.

- Lsoft, a software tool that manages e-mail lists (listservs), was purchased and implemented to replace an older software that could not handle sufficient numbers of list members and additionally was not easy to use.
- UNM community members using LSoft have found it easy to use, very flexible in functionality, and able to handle volumes of mail sent to large groups in the UNM community.
- Another software tool implemented at the end of the fiscal year, at the request of some departments, is Cold Fusion. Cold Fusion provides an easy-to-use development evironment for applications using databases and web front ends.

CIRT has begun implemention of a software distribution method for its pods and classrooms that takes advantage of the multicasting network protocol. This method has greatly increased productivity by reducing staff hours spent restoring workstation images (the method by which pod workstations are built and restored when needed). Previously, restoring PCs in the CIRT Pod took two student employees, on average, a total of four hours. Today, we can multicast one image to all 22 PCs in about twelve minutes. Utilizing one student employee, the whole process now takes less than 30 minutes. Another big advantage of multicasting is reduced network contention. Restoring the entire CIRT Pod using the multicasting protocol uses the same amount of bandwidth as did the previous method when restoring only one PC. We also feel that multicasting allows us to provide a faster turn around time for implementing urgent software modifications and additions during critical times of the school year. Our hope is to implement multicasting in all our computing facilities by the early part of next year.

CIRT has worked slowly and steadily for several years to consolidate the number of directories that store information needed to authenticate people into online systems and provide lookup information for UNM. This allows information to be more consistent (less chance of storing different information in different directories), frees resources needed to maintain multiple directories, and provides for a consistent experience in authentication or information.

Progress was made to accommodate other departmental needs for a consolidated directory, as the CIRT LDAP team worked with staff from the General Libraries and the Health Sciences Center. Expected work in this coming year will be to:

- Modify the data feeds from the legacy systems to gather more accurate information.
- Convert the existing online directory (used for white pages) lookup to LDAP.
- Meet with additional people in the UNM Community who need to use a consolidated directory for their own services.

4.2 IP Only Project for UNM Networks

Changes in the world of networking affect every UNM department. The most recent major change is that networking equipment vendors are increasingly manufacturing network equipment that only supports a single network protocol, IP (Internet Protocol). Thus, information transmitted across the UNM network backbone (outside one building to another building not in the same network address group called a subnet) needs to become IP-only by the end of the year 2001.

CIRT initiated a project to inform each department individually about the IP-only project, to help identify potential problems, and to discuss timelines. In January 2001 the project team started to contact all departments on campus to make them aware of the new protocol standards. This effort was rather large, but helped make departments aware that everything using non-standard protocols, such as IPX and AppleTalk, would have to be changed or replaced. By February, CIRT staff had talked to over half the departments at UNM.

A benefit of this project is that if buildings have converted to IP only protocol, they will be prepared to move to the newer gigabit backbone as funding becomes available for that. As buildings received funding, or worked with internal departments to come up with the funding, they were added to the GB backbone.

4.3 Administrative Software Enhancements

- Automated the benefits billing for individuals in a no-pay status (e.g., retirees, leave without pay, layoffs).
- Incorporated University Physicians Associates (UPA) benefits and deduction codes into HRS so that these benefits can be administered through the main campus Benefits Office. Eligible employees may now enroll via the IVR during open enrollment periods.
- Produced the Campus White-Pages Directory.
- Printed and uploaded data from Human Resources' Employee Survey to bring HRS database up-to-date.
- Improved the tuition refund process.
- Added Web-based courses (Center 12) to Tuition system.
- Created 4 new production e-mail listservs (2 for Payroll and 2 for Human Resources).
- Created a Business & Finance Systems Support web page for use by the team and user community.
- Published definitions of HRS codes, etc.
- Completed a web-entry Prospective Student Information Page to allow prospective students to contact the Recruitment office and request information about UNM.
- Continued expansion of Data Warehouse usage to the University community (student and financial aid data).
- Made significant progress towards implementation of an upgraded release of Degree Audit (DARS) release for the student systems.
- Committed staff resources and made significant contributions to the Student Systems Re-engineering initiative.

- Started and made significant progress on a Consolidated Person Area (unify and clean up HR and Student data for everyone affiliated with UNM).
- Started planning for the move of the I-Tel Registration system to CIRT.
- Completed 2002 Federal Regulatory Changes for Student Financial Aid system (FAM).
- Made significant strides in evaluation of data warehouse Reporting & Query, Extract, Transform & Load (ETL) tools to help enhance administrative decision making and provide more robust tools to operational users.
- Progress towards implementing a Quality Assurance program for the Student Financial Aid Office to self-monitor compliance with DOE regulations.
- Made significant progress towards implementing a web-based Transfer Evaluation and Degree Audit system for prospective transfer students (What-if scenario).

In addition to these projects, CIRT provided 24x7 production support to enable (among other things) the following:

- Registered about 32,000 students during Fall or Spring semesters (including branch campuses) and about 13,000 students during the Summer semester.
- Received 1,483 admission applications via the Web for Fall '01, up from 646 for the past Spring '01.
- Made 36,500 Financial Aid awards during the current award year (01-02), totaling about $108 million.
- Number of Recruitment web page hits (since 1/01)= 3052
- Number of Recruitment Information packets processed = 393,997
- Number of students contacting Recruitment = 119,842

Payroll Totals:

  - Monthly average dollars paid out = $33,606,113
  - Total for the fiscal year = $405,998,760.72
  - Total checks printed = 51,597
  - Total direct deposits = 207,712

- Cashiers wrote 32,214 checks (mostly for students) via the Cashiering system.
- FRS (General Ledger) processed on average 1,000 batches per month, totaling 130,000 transactions per month.
- BRS (Student Accounting) averaged 45,000 bills/month
- HRS (Payroll) printed 18,186 W2 forms.
- The HR Voice Response Unit processed 6,639 insurance coverage changes during Open Enrollment for Medical/Dental/Vision plans.
- CIRT staff participated in two re-engineering teams formed to conduct an analysis of the current state processes of the student system.
- Procurement Card - Bank of America no longer wants to support the interfaces to PVS which is the current p-card software used by departments and central administration. CIRT staff and Purchasing provided the bank a detailed current state analysis of the Procurement Card process and identified critical business functions that must be present in new system.

- Career Advancement – In the summer of 2000, the HR Employment office formed a re-engineering team to revise the University 's Career Advancement Program. CIRT staff worked with the team to define a new, more streamlined process. The changes that were proposed required extensive programming and design changes to the Employment Tracking System (ETS), which Project staff were responsible for. Of particular note, was the requirement for automated e-mail notifications to applicants and hiring officers throughout the process. Development and programming of this capability required many hours of staff time. Part of this development effort also included building a web-based lookup feature for hiring officers and employment staff that allows them to determine how many applicants are currently active in the various recruitment pools. After some initial problems with the e-mail notifications that were corrected, the new process seems to be operating as designed.

- Advance Recruitment – CIRT staff were requested to assist the Health Sciences Employment Office in its development of a new recruitment process that would help with the recruitment of applicants for hard to fill jobs. Much as with the changes to Career Advancement, this required fairly substantial changes to the ETS table and field structure as well as additional programming to provide the additional functionality.

- OEO Staff Underutilization – CIRT staff re-engineered the interface between OEO and Human resources to eliminate redundant data sources and automate business rules. The new process automatically flags employment requisitions entered in ETS as underutilized job titles; generates underutilization reports for the Vice President's, and provides web lookup for underutilized jobs. In addition, a new business process was created for the OEO office to enter ethnicity and gender for applicants who did not self identify.

- Tier 2 Hires - CIRT staff and Human Resources trained OEO staff to enter the Tier 2 applicant and hire data in ETS. Part of the training included process flowcharting of Tier 2 hires.

- CIRT staff implemented and deployed WEB Tracking for Hiring Requisitions – This allows the department hiring officers to track the progress of their hiring requisitions once the Employment Office receives them. Hiring officers can search for their requisition(s) by number, department code, department name, job code, or job title. Online information includes current status and number of applicants to date.

- CIRT staff implemented and deployed Offer Letters--Added e-mail functionality for distributing the Offer Letter. Allowed the departments to print the Offer Letter on their own letterhead and send directly to the departments. This new process insures that a standarized Offer Letter is sent to all perspective employees.

- Continuous Recruitment--In an attempt to improve the screening and selection criteria used in generating Continuous Recruitment pools, the Employment office revised its Skills Inventory Sheet. This change necessitated structural and programming changes to the ETS, which were performed by CIRT staff.

4.4 Campus Data Communications Network (CDCN)

Facility Planning Projects:

- Provided new fiber cabling for the Yale/Lomas Parking Lot Project.
- Extended existing data network to several areas at the South Golf Course.
- Designed 10/100 switched network for the New Biology Building as well as 6 Gigabit ports to several workstations with a Gigabit uplink to the backbone.
- Extended Bratton Hall network to portable buildings and added plates for Law School Administra tive offices.
- Designed and implemented over 800 connections for the new Redondo Village Dorms and connected them to the backbone.

Department Network Upgrades:

Designed and implemented a completely switched internal building network for the following:

- Bookstore, Chemistry, Geology, Math, Parking Services and Speech and Hearing.

Designed a completely switched internal building network and moved to the Gigabit backbone for the following:

- Air Force ROTC, Onate Hall, Payroll, Scholes Hall, 1921 Las Lomas, 1925 Las Lomas, 1717 Roma, and 1801 Roma.

Provided design and cost estimates for a completely switched LAN environment for the following:

- Continuing Education, Centennial Science and Engineering Library, Fine Arts Library, Parish Business and Economics Library and Zimmerman Library.

Added additional switches to existing LAN's for the following:

- CIRT, CTE, DGR, Financial Aid, Records Management and SAAP Annex.
- Worked with Zimmerman Library to establish a wiring center closet on the 1st floor.
- Provided design and cost estimate to the libraries which will include completely switched LAN environments for Zimmerman, Parish, Centenniel Science and Engineering Library, and Fine Arts with 100Mbps connectivity to the Gigabit backbone.
- Provided a design and cost estimate to Continuing Education for a completely switched LAN environment and an option of 100Mbps or Gigabit connectivity to the Gigabit backbone.
- Installed three 450s at Geology, removed the 3606 putting the building on the road towards a switched environment.
- Bandelier West: added a Summit 24 switch to the equipment in the wiring center to provide isolation for their server farm as well as additional connections.

- Energy Control: completed a project that provided network connections for buildings (Dane Smith Hall, SW Biology, Cancer, HSSB,) to monitor utilities via their monitoring equipment.
- Upgraded the CSU at South Golf Course.
- Replaced the shared hub enviroment in the basement of SSB (CTE) with switches.
- Connected the NFS toaster to the network at 1000Mbps via the Extreme 7I at CIRT.
- 3 subnets moved to Gig core over 24 hour period.
- Upgraded ASM CIRT Pod, Journalism, Economics, and Johnson pods to a completely switched environment and moved the building connections each of these pods is located in to the Gig core at 100Mbps.
- Installed a new Gigabit switch for Geology Fiber Zone hub.
- Migrated CS department from an ATM enviroment to a Gigabit connection on Gig core.
- Assisted with configuration of AHPCC router for connectivity to UNM.
- Designed and implemented Data Ware house routed connection to UNMs network.
- Provided implementation and testing of a Nortel device for DSL connectivity.
- Moved Onate Hall from 176 subnet to the 152 subnet.
- Installed equipment at Speech and Hearing to bring them on to network.
- Biology building upgrade: upgraded building infrastructure from shared to switched enviroment and added to the Gigabit backbone.
- Upgraded SSB to the Gigabit backbone.
- ASM Gigabit upgrade: added building to the Gigabit backbone and provided the department with a new network subnet. Upgraded the shared hubs in GSM (rm 306) and ASM (rm 2005C) wiring centers with switches as part of this project.

Wireless Building Connectivity:

- Installed wireless connectivity at 120 Vassar, CASAA, and 2700 Yale.
- Provided design and implementation of Wireless connectivity to LoadStar and Observatory connectivity.
- Designed and implemented the beginning of UNM Wireless backbone at UNMH, 2808 Central, and Stadium.

Network Backbone Upgrades and Maintenance:

- Upgraded all dialup modems to use Nortel's Versalar Remote Access Channelized T1 modems.
- Changed passwords on over 300 pieces of network equipement as well as the SNMP string as a result of staff turnover.
- Implemented multicast for the use of backups for IRC in CIRT, DSH, and Esc Pods.
- Moved UNM internet service provided from UUNET to Sprint.
- Deployed OSPF – implemented Open Shortest Path First prot ocol on UNMs Backbone.
- Installed 8 hour UPS systems at 8 fiber zone hubs.

- Upgraded the University network to gigabit backbone by installing 3 Extreme Networks Black Diamond core switches on UNMs backbone.
- Project coordinator for the RFP selection for UNM's ISP provider.
- Coordinated the termination of vBNS connectivity.
- Coordinated the installation and implementation of Abeliene connectivity.
- Coordinated the installation and implementation of Akamai.
- Provided ARIN maintenance which is the database for IP addresses on the Internet.
- Migrated UNM campus from a RIP1 routed environment to a RIP2 routed environment to prepare for OSPF migration.
- Migrated UNM campus routers from IP address space belonging to UUNET to IP address space acquired by UNM.
- Provided Multicast capability throughout UNM's Gigabit backbone and specially to HSC Library and AHPCC for use by the Access Grid.
- Updated passwords on wireless Aironet devices.
- Updated passwords on Xylogics Terminal servers.
- Password changes: changed first and second level passwords on all Cisco equipment that included: 2500, 2600, 3620, 3640 and 4500 routers and 3200, 5000 switches.
- Updated the rw and rwa community string passwords on all of the Accelar switches (models 1100, 1150, and 1200).
- Migrated various equipment at CS to a new class C network (Synoptics 3000 and 2813SA).
- Reconfigured ip addresses on the RA2000 and 450 switch at the Escape pod as this network was migrated to a new Class C network.

WAN Projects:

- Career Works (downtown area) – connected them via a WAN circuit and implemented an internal network for their offices in a leased area.
- Implemented WAN connection for UNM-LA BernalilloTraining Center.
- Provided design and implementation of the disconnection of the TVI WAN connection to UNM.
- HSC Library – designed and moved HSC Library to Gigabit Core.
- Implemented WAN connection for 1720 Louisiana.
- Provided upgrade and implementation to Valencia campus router.
- Provided design and implementation of HOPE Clinic WAN connection.
- Provided design and implementation of Taos Education Center Ethernet Expansion at Taos Civic Plaza.
- Upgraded router at Valencia Campus to a 100Mbps connection.
- Changed IP at ME, new Class "C" network.
- Readdressed routers at Taos and upgraded their circuit to a T1 circuit.
- Upgraded Gallup to a dedicated T1 frame relay circuit.

Testing Technology:

- Provided implementation and testing of a Nortel device for DSL connectivity.
- Tested Network Monitoring Tools including:
    - Whats Up Gold
    - Concord Live Health
    - MRTG
    - Network Instruments observer
    - Tivoli Netview
    - Netpipe-TCP
    - NTOP/Flowscan
    - CA TNG
- Implemented Web caching products to speed up web site access.
- Implemented WDM technologies to increase bandwidth.
- Investigation and reporting of vBNS Internet Performance Metrics.
- Researched and successfully tested and implemented Vlan tagging for the wireless connection to the Observatory via Physical Plant.
- Creation of Network Monitoring web site.

Performance issues impacting these services were investigated and solutions implemented to achieve acceptable responses:

- AHPCC to vBNS
- Multicasting to vBNS
- LTER capacity
- NAPSTER usage determination
- PVS System
- NFFBI to vBNS

Complex performance and problem diagnosis projects included the following sites:

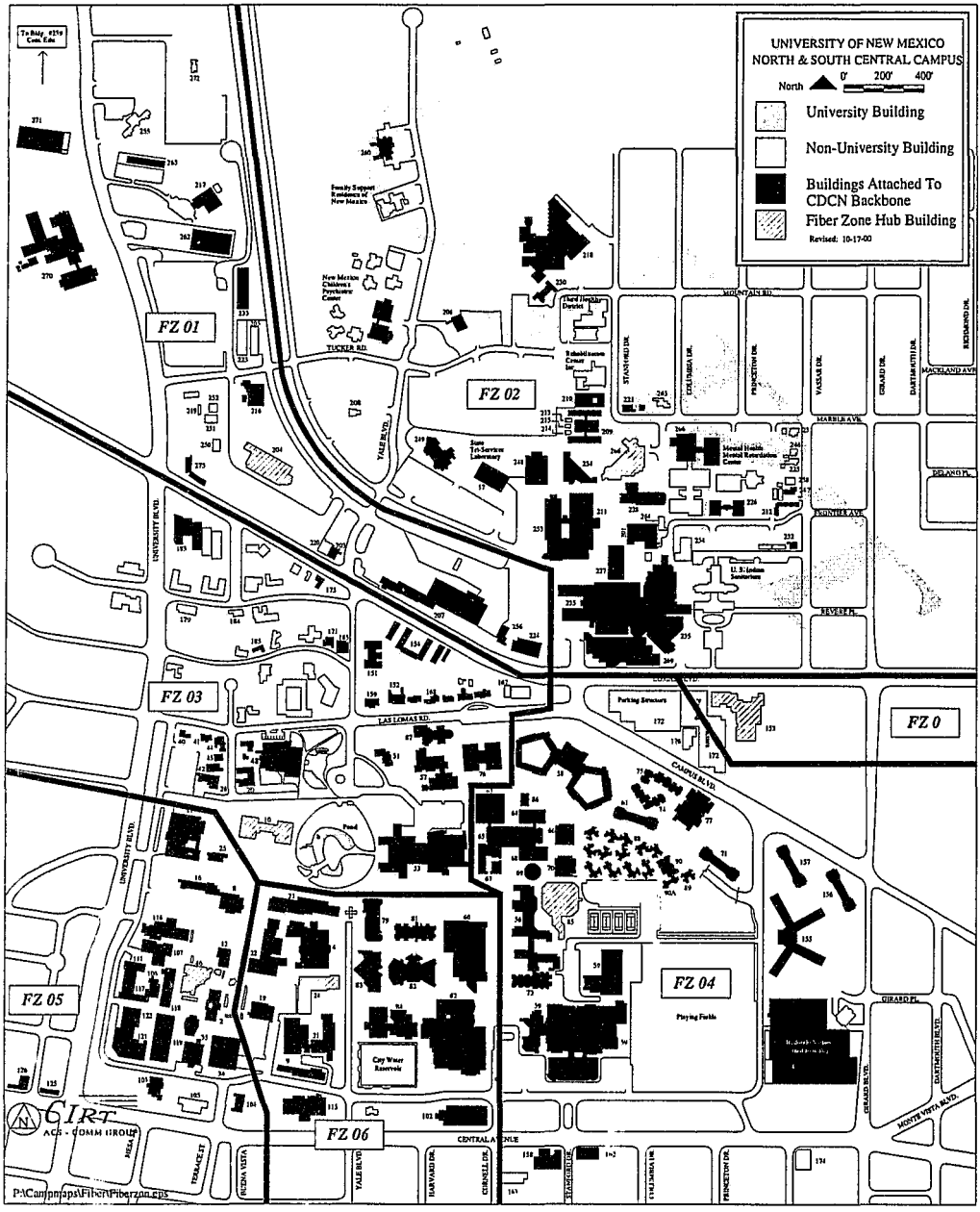
- Housing Services
- Gallup WAN
- Mechanical Engineering
- Continuing Education
- Physics & Astronomy
- Scholes Hall

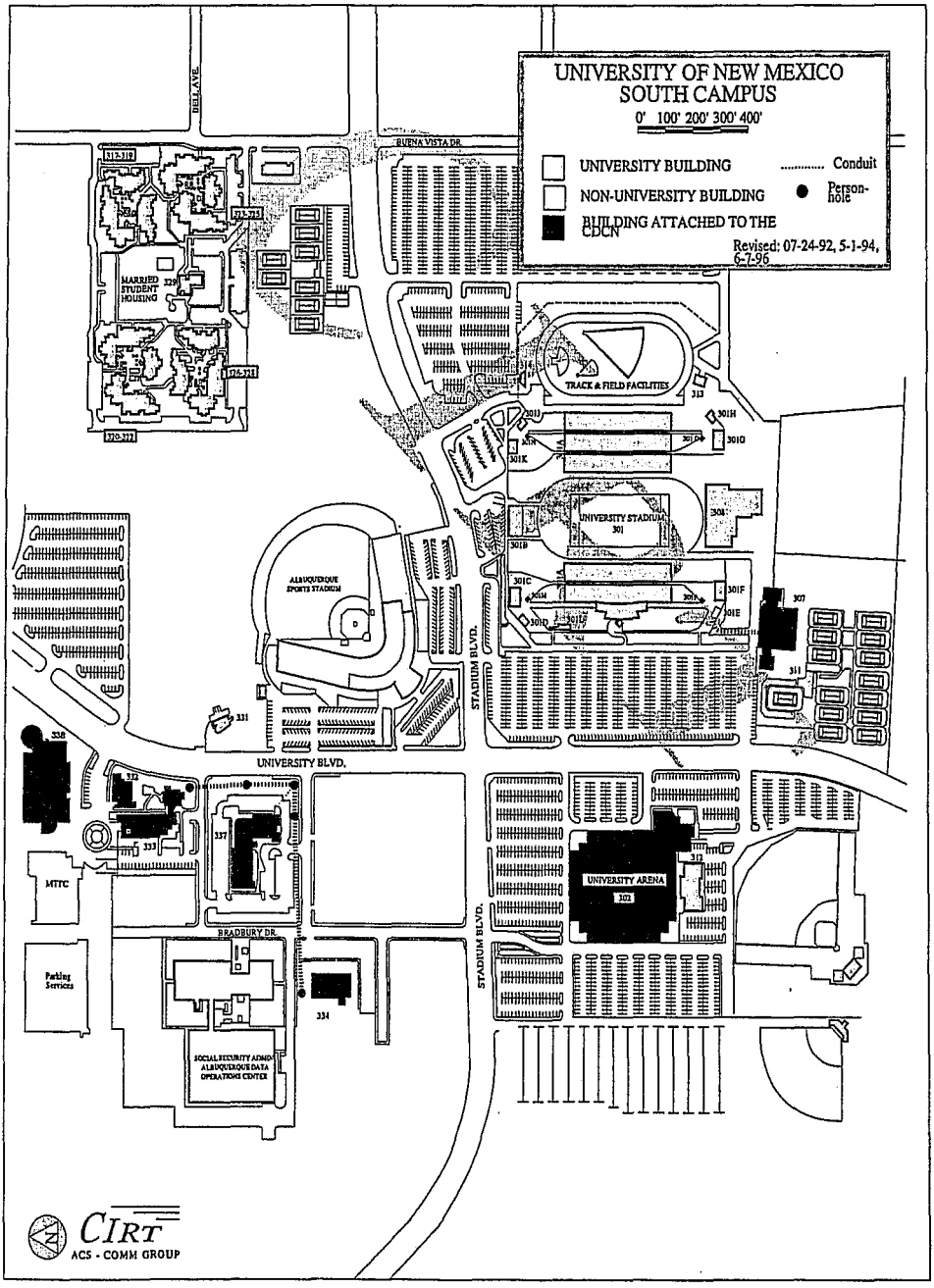
Miscellaneous:

- Port Activation Reports; Total 612, Average/month 51, High 105 for August 2000, Low 15 for December 2000.
- Network operators helped transition and train computer operators to become network operators.
- Streamlining and maintaining of stock items.
- Law School disaster recovery: provided support during the fiber/phone cut outage at the Law School.
- Firewall for MTTC: Repatched multiple plates at MTTC (S.Campus) to accommodate clients installation of a firewall.
- KNME Annex fire: Coordinated replacement and recovery of network connections after a fire damaged the network cabling in the West end of the building. Repatched and tested new wiring.
- Humanities Web Cam: Installed a switch and coordinated cabling installation to provide connectivity for web cams at Humanities.
- Lobo Utilities project: Completed second and third phases of this project to provide network connectivity for buildings to monitor utilities via their monitoring equipment – CIMMS units.
- The e-mail servers were upgraded from ordinary personal computers to server-class machines with dual gigahertz processors. This will improve the reliability of the mail services and will provide room for growth.
- A Netcache system was installed to improve performance for local web usage.
- A WebCT service for online instruction and teaching was migrated to CIRT. It has been set up to use the same authentication facilities that are used by UNIX so that users don't have to manage an additional password.
- Worked with Oracle in developing the "Scope, Objectives and Quality Plan" for the Procurement and Accounts Payable application set (ProAP). Detailed cost estimates for the needed IT infrastructure were provided.
- Worked with the IBM ERP Sizing Center to determine processor and storage alternatives for various ERP application sets.
- Evaluated processor alternatives and ordered two IBM RS/6000 servers, increasing the capacity of the complex of Oracle servers by nearly a factor of three. These servers are highly upgradeable to accommodate future needs.
- Reviewed storage offerings from several vendors in the process of procuring effective storage solutions for ProAP and other future applications.
- A Network Appliance unit with 1 Tb. of capacity (more than twice that of its predecessor) was ordered to provide network attached storage. In addition, an IBM Enterprise Storage Server with 1.68 Tb. of capacity (about four times that of its predecessor) was ordered to provide high performance access to databases and other files for both the IBM mainframe and open systems. Both of these units can scale to accommodate future needs. Backup capabilities were also enhanced. The Adstar Distributed Storage Manager was upgraded to the Tivoli Storage Manager. The number of tape drives supporting the backup server was increased from two to four.

- Upon approval of funding for ProAP pre-implementation activities, developed and began executing a detailed plan to acquire and implement the required infrastructure.
- A Systems Analyst III position was filled to support the DBA team on system-related database issues.
- A set of Akamai servers was implemented at no cost to UNM to improve performance for those browsing many major web sites such as Yahoo and CNN. These servers also have the advantage of reducing the load on UNM's link to the Internet.
- The materials that CIRT receives as a subscriber to Gartner Group were made web-accessible. In addition, the Gartner articles were indexed with the search engine and are now included in searches from the main UNM web page.
- IT infrastructure funding – When it became obvious that the Executive Sponsors of the EMIS Project were not prepared to authorize a new Purchasing/Accounts Payable System, partial funding was requested for the infrastructure (network hardware and software) upgrades that would be necessary as a prerequisite for that project. $1.8M was approved for this purpose with the stipulation that nothing purchased would be specific for the Purchasing/Accounts Payable System. All items were to be capable of general use by any application from any vendor. This project is expected to be complete by the end of calendar year 2001.

Campus Zone Map for North & Main Campus




UNIVERSITY OF NEW MEXICO
SOUTH CAMPUS
0' 100' 200' 300' 400'
UNIVERSITY BUILDING
NON-UNIVERSITY BUILDING
BUILDING ATTACHED TO THE CDCN
Conduit
Person-hole
Revised: 07-24-92, 5-1-94, 6-7-96
BELL AVE.
BUENA VISTA DR.
MARRIED STUDENT HOUSING
TRACK & FIELD FACILITIES
UNIVERSITY STADIUM
ALBUQUERQUE SPORTS STADIUM
STADIUM BLVD.
UNIVERSITY BLVD.
UNIVERSITY ARENA
MITC
BRADBURY DR.
Parking Services
SOCIAL SECURITY ADMIN ALBUQUERQUE DATA OPERATIONS CENTER
CIRT
ACS - COMM GROUP

Buildings Listed by Zone

#	Zone	Building #	Building Name
1	00	153	CIRT
2	01	183	1714 Lomas Printing Plant--UNM Press (1716 Lomas N.E.)
3	01	185	1805 Sigma Chi--Institute for Public Policy
4	01	203	Facility Planning
5	01	204	Physical Plant
6	01	207	PandA
7	01	208	Observatory
8	01	216	Automotive
9	01	217	KNME
10	01	233	SHEA
11	01	255	Child Care Center
12	01	256	Telecom
13	01	258	New Continuing Education
14	01	259	Continuing Education
15	01	262	Postal
16	01	265	KNME Annex
17	01	270	Carrie Tingley
18	01	271	1209 University
19	01	271	UNMH Business Center
20	01	273	OCA
21	01	276	Landscaping
22	01	278	1213 University
23	01	NA	700 Lomas
24	02	17	HSC-OMI
25	02	201	HSC-Med 2
26	02	209	HSC-Med 5/6
27	02	210	Senior Health Center
28	02	211	HSC-BMSB
29	02	212	Communicative Disorders
30	02	218	Bratton Hall
31	02	226	HSC-Surge
32	02	227	HSC-CRTC
33	02	228	HSC-CNCP
34	02	229	HSC-CRF
35	02	230	NM Law Center

#	Zone	Building #	Building Name
36	02	232	Risk Management
37	02	234	HSC-Med Center Library
38	02	235	HSC-UNMH
39	02	236A	HSC-CPH
40	02	248	HSC-FPC
41	02	249	Novitski Hall (Dental Programs)
42	02	249	HSC-Novitski Hall
43	02	253	HSC-BRF
44	02	260	HSC-CMRRC
45	02	266	HSC-HSSB
46	02	269	Ambulatory Care
47	02	280	1401 University
48	02	N/A	1615 University
49	03	10	Scholes Hall
50	03	149	1921 Las Lomas
51	03	151	Naval Science
52	03	154	Institute for Applied Research Services
53	03	159	AFROTC (1901 Las Lomas)
54	03	160	1923 Las Lomas
55	03	165	LAI
56	03	168	Bureau of Business & Economic Research
57	03	169	1915 Las Lomas
58	03	171	SWHRI
59	03	191	1816 Sigma Chi
60	03	20	1801 Roma (Human Resources)
61	03	20A	Payroll
62	03	26	1717 Roma (Human Resources)
63	03	27	University Coffee Shops
64	03	29	Dispute Resolution
65	03	40	Visitor's Center
66	03	41	EMIS

#	Zone	Building #	Building Name
67	03	42	Equal Opportunity Progs (609 Buena Vista)
68	03	44	Psychology Clinic
69	03	48	Dane Smith Hall
70	03	51	University House
71	03	53	Zimmerman
72	03	57	Economics
73	03	76	ASM
74	03	78	Social Sciences Building
75	03	87	Parish Library/GSM
76	04	155	Coronado Hall
77	04	156	Onate Hall
78	04	157	Alvarado Hall
79	04	158	Architecture and Planning
80	04	162	SAAP Annex (2500 Central)
81	04	163	Tamarind Institute
82	04	193	Redondo Village Apartments
83	04	56	Mesa Vista Hall
84	04	58	Hokona Hall
85	04	59	Johnson Center
86	04	61	Santa Clara Hall Dorm
87	04	63	Education Office
88	04	64	Industrial Arts
89	04	64	CTE
90	04	65	Education Administration
91	04	66	Family Studies
92	04	67	Education Classrooms
93	04	68	Art Education
94	04	69	Kiva
95	04	70	Manzanita Center
96	04	71	Santa Ana Hall

#	Zone	Building #	Building Name
97	04	73	Student Health Ctr/University College
98	04	74	Laguna Hall
99	04	75	DeVargas Hall
100	04	77	La Posada Hall
101	04	85	Student Services Center
102	04	88A	SRC 88A
103	04	88B	SRC 88B
104	04	88C	SRC 88C
105	04	88D	SRC 88D
106	04	88E	SRC 88E
107	04	88F	SRC 88F
108	04	88G	SRC 88G
109	04	88H	SRC 88H
110	04	88I	SRC 88I
111	04	88J	SRC 88J
112	04	88K	SRC 88K
113	04	88L	SRC 88L
114	04	89	Student Residence Center Commons
115	04	90	SRC 90A
116	04	90A	SRC 90A
117	04	90B	SRC 90B
118	04	NA	NM Tech
119	05	103	Hodgin Hall
120	05	106	Civil Engineering Lab
121	05	107	Engineering Annex
122	05	11	Anthropology/Maxwell
123	05	111	Chem & Nuclear Engr Lab
124	05	116	Ford Utilities
125	05	117	Wagner Hall
126	05	118	Tapy Hall

#	Zone	Building #	Building Name
127	05	119	Farris Engineering
128	05	12	Anthropology Annex
129	05	121	Nuclear Engineering Lab
130	05	122	Mechanical Engineering
131	05	125	Parking Services
132	05	126	Galles
133	05	16	Bandelier Hall West
134	05	2	ESC Pod
135	05	34	Logan Hall (Psychology)
136	05	35	Regener Hall
137	05	46	EECE
138	05	8	Bandelier Hall East
139	06	102	New Bookstore
140	06	115	Journalism
141	06	19	Biology Annex
142	06	21	Castetter Hall
143	06	22	Clark Hall (Chemistry)
144	06	23	Mitchell Hall
145	06	24	Geology (Northrop Hall)
146	06	4	Carlisle Gym
147	06	60	NM Union
148	06	62	Fine Arts Center
149	06	72	Popejoy Hall
150	06	79	Ortega Hall
151	06	81	Humanities Building
152	06	82	Woodward Lecture Hall
153	06	83	Southwest Biology Center
154	06	84	Art
155	06	9	Marron Hall
156	07	301	Stadium

#	Zone	Building #	Building Name
157	07	302	University Arena (The Pit)
158	07	303	South Golf Course Clubhouse
159	07	307	Athletic Administration
160	07	308	Tow Diehm Athletic Facility
161	07	312	Gymnastics
162	07	331	Crystal Growth
163	07	332	Research Park Bldg 1
164	07	333	NMERI
165	07	334	Dykewood
166	07	337	UNM SNL Advanced Material Lab Parcel 2
167	07	338	Optoelectronic Materials Lab
168	07	339	Office and Light
169	07	341	MTTC
170	07	352	Microelectronics Research
171	07	380	UNM Press Warehouse - Spirit Dr
172	07	NA	RGMT
173	07	NA	2700 Yale (EMIS)
174	NA	173	120 Vassar
175	NA	263	1005 Columbia
176	NA	NA	1650 University
177	NA	NA	CSOS off site storage
178	NA	NA	UNM-LA WAN switch over
179	NA	NA	Unknown
180	NA	NA	Simpson Hall
181	NA	Unknown	Law School Trailer
182	WAN	123 4th St Career Works	123 4th St Career Works
183	WAN	1720 Louisiana	1720 Louisiana
184	WAN	2650 Yale SE	CASAA (2650 Yale SE)

4.5 CIRT Support Center (SC)

This has been a year of consolidation for the Support Center. The Support Center began the year with a redesigned facility and expanded services including evening and weekend hours and worked throughout the year to successfully implement these services. The Support Center is committed to providing leadership in technical support for UNM.

Major Support Center Initiatives ('00-'01):

- New consulting workstations were implemented that enabled instant switching between Operating Systems including Windows 95, 98, NT and ME, leading to faster help for our clients and shorter delays in our call queues.
- Evening and weekend hours have been sustained with a minimal increase in budget through flex hours and targeted staffing.
- Problem/Asset/Change Management — the SC continues to provide high involvement with the PACMAN project including 3 representatives on the team and worked jointly with Martha Talbott to secure a favorable contract from Peregrine & IBM after the sale of Tivoli to Peregrine.
- Advanced the value of system availability message posting (Sysinfo-l) into an increasingly reliable, prompt, professional and critical information resource for UNM's community of system administrator departmental specialists. The SC was especially prominent in researching and communicating virus issues and network issues and resolving problems during the modem switchover.
- SC staff continued in roles as co-chair of UCU (University Computer Umbrella) Group, Mulberry development, and representation for the IRC on CIRT's Change Management meetings and the IP-Only project. Continued developing of relationships with other university support centers, help desks and departmental specialists.

Support Center Activity for 2000-2001

	Calls from off campus during business hours	Calls from on campus during business hours	Total calls during business hours	Voicemail*	Outgoing calls made from SC to clients	Total calls	Email totals	Walk-ins	Total SC contacts	Support Center Web Hits
Jan	1768	732	2500	138	659	3297	47	659	4003	882
Feb	2889	1164	4053	172	1119	5344	112	1069	6525	2483
Mar	2368	984	3352	132	724	4208	96	842	5146	1280
Apr	1980	822	2802	111	612	3525	72	705	4302	1230
May	1800	768	2568	93	528	3189	84	638	3911	1179
June	1207	514	1721	61	378	2160	62	432	2654	809
Jul	2226	893	3119	159	508	3786	71	757	4614	1362
Aug	1762	743	2505	103	525	3133	111	627	3871	1135
Sep	1451	670	2121	95	455	2671	113	534	3318	1014
Oct	1755	832	2587	127	580	3294	105	659	4058	785
Nov	1961	906	2867	125	627	3619	117	724	4460	774
Dec	1974	923	2897	115	519	3531	95	706	4332	786
	23141	9951	33092	1431	7234	41757	1085	8351	51193	13719?

*Data estimated based on historical information and data available from comparable months.

5.0 CIRT PROFESSIONAL DEVELOPMENT

CONFERENCES

TIVOLI Service Desk User's Conference
Dallas, TX
Stephen Spence, Kingsavanh Bounkeua, Ivan Boyd
Anthony Waldron, Yvette Fournier

ACM/SIGUCCS 2000 Conference
Richmond, VA
Joseph Quintero, Rosemary Barrett, Scott Parker,
Randall Perkins

MAC World Conference & Exposition
San Francisco, CA
Barbara Rigg-Healy

Peregrine Systems Forum "Synergy 2001"
New Orleans, LA
Ivan Boyd, Kingsavanh Bounkeua, Tony Waldron,
Yvette Fournier

Portal 2000 Technology Symposium
San Diego, CA
John Sobolewski, William Adkins

Computer Associates Information Systems Executive Exchange Conference
Colorado Springs, Co
John Sobolewski

Dell Computer Corp Direct Connect 2000 Conference
Austin, TX
John Sobolewski

Midsize Enterprise Summit
San Francisco, CA
John Sobolewski

EDUCAUSE 2000 Conference
Nashville, TN
John Sobolewski, William Adkins, David McGuire

CUMREC 2001 Conference
Phoenix, AZ
John Sobolewski

DEFCON Conference
Las Vegas, NV
Jeff Gassaway

NASFAA 2000 Conference
Washington, DC
Raymond Baca, Lorraine Tafoya

IUA Conference
Chicago, IL
Carolyn Brislen

DOE 2000 Electronic Access Conference
Dallas, TX
Barbara Nolan, Raymond Baca

Webdev Share 2000 Conference
Indianapolis, IN
Richard Valdez

Oracle "APPS World" E-Business Applications Conference
New Orleans, LA
Carolyn Brislen, Randall Whelan, Starlyn Brown

Dept of Education "Direct Loan 2001" Conference
Houston, TX
Barbara Nolan

Dept of Education "Direct Lending Focus Group I"
Washington, DC
Barbara Nolan

Dept of Education "Direct Lending Focus Group II"
Washington, DC
Barbara Nolan

Gartner Spring Symposium
Denver, CO
William Adkins

Educause "CUMREC 2001 Higher Educ Admin Technology"
Phoenix, AZ
Lorraine Tafoya, Barbara Pfaff, Daniel Trujillo, Richard Campbell,
Paula Lopez Jane Green, David McGuire, Andrew Gutierrez

Oracle Openworld Corp Conference
San Francisco, CA
Starlyn Brown, Penny Giller

SHARE Conference
Boston, MA
Charles McQuade, James Iden, Louis Sullo

SHARE Conference
Long Beach, CA
Louis Sullo

AFCOM 2000 Fall Conference
Nashville, TN
Lawrence Fernandez

AFCOM SPRING 2001 Conference
Las Vegas, NV
Veda Goslar, Sandra Jones

2000 Computers on Campus National Conference
Myrtle Beach, SC
Louis Sullo

COMDEX 2000 Conference
Las Vegas, NV
Nathan Becker

IOUG-A Live 2001 Conference
Orlando, FL
Bruce Fraser

CONFERENCES (continued)

IT Asset Management and Software Asset Mgmt Gartner Conference
San Diego, CA
Louis Sullo

Gartner's Storage 2001 Conference
Palm Desert, CA
Louis Sullo

Cybernation & ESP Conference
Charlottesville, VA
Theresa Chavez-Villareal

PEW Foundation Grant Conference
New Orleans, LA
John Sobolewski

CHECS Conference
Albuquerque, NM
Sandy Carter-Mayes, Pam Mirabal, John Sobolewski, Jesus Gutierrez, Louis Sullo, Aaron Baca, David Grisham, Mark Harty, Linda Miller, Sandy Robinson, Dusty Teaf, William Adkins, Alice Garcia, Jane Green, Mary Hanson, Dolores Kirian, David McGuire, David Mooney, Jean Russell, Theresa Sanzone

CLASSES/WORKSHOPS/SEMINARS

Seminars on Academic Computing
Snowmass, CO
William Adkins, John Sobolewski

Quality Assurance Training
Seattle, WA
Lorraine Tafoya

Oracle Designer 61: New Feature Training
Orlando, FL
Beth Lowery

Oracle Designer 61: New Feature Training
San Francisco, CA
Richard Valdez

Storage Area Networks Seminar of Evaluations Group
Denver, CO
Charles McQuade

CDE "Bootcamp" Seminar
Ft. Lauderdale, FL
Kingsavanh Bounkeua, Cynthia Leon

MEETINGS:

Desktop Standards Task Force Committee Meeting
Snowmass, CO
William Adkins

NM Virtual University Meeting
Santa Fe, NM
Arthur St. George

MEETINGS: (continued)

CHECSNet Meeting
Socorro, NM
John Sobolewski

CHECS Spring Planning Meeting
Roswell, NM
John Sobolewski, William Adkins

Strategic Communication Alliance Meeting
Santa Fe, NM
John Sobolewski

Westnet Meeting
Phoenix, AZ
John Sobolewski

5.1 GUIDE TO ACRONYMS

ACM/SIGUCCS:	Association for Computing Machinery/Special Interest Group on University & College Computing Services
ACUTA:	Association for Telecommunications Professionals in Higher Education
AFCOM:	Association for Data Center, Network & Enterprise Systems Management
CAUSE:	Association for Managing & Using Information Resources in Higher Education
CHECS:	Council for Higher Education Computing Services
CUMREC:	College and University Computer Users Association
DARS:	Design of Advanced Robotics Systems
DOE:	Department of Energy
IOUG-A:	International Oracle Users Group-Americas
NASFAA:	National Association for Student Financial Aide Administrators
NDSS:	New Dimension Service Solutions
ODTUG:	Oracle Tool Development Users Group
RMACRAO:	Rocky Mountain Association of Collegiate Registrar's & Admissions Officers
SATD:	Structured Analysis and Design Technique

5.2 CIRT Contract Services

During FY-2000-2001 CIRT staff and CIRT Contract Services accomplished the following:

- Prepared and negotiated major bids and requests for proposals for the Maui High Performance Computing Center (MHPCC) Kihei, Maui, HI. Monitored bankruptcy proceedings on behalf of Department of Defense, Research and Engineering (DREN) and MHPCC regarding OC3 lines from MHPCC to Pearl City, Oahu, HI and Pearly City, Oahu, HI to Barking Sands Missile Range, Kauai, HI. Attended bankruptcy court proceedings in DE on behalf of UNM/MHPCC and DREN. Spoke to the Hawaii Internet Consortium meeting in Honolulu, HI regarding the OC3 lines and the bankruptcy proceedings of GST Hawaii. Held numerous meetings to negotiate continued services of OC3 line with GST Hawaii and law firms retained by UNM, as well as the Justice Department.

- Hosted and spoke to a group of twenty international visitors participating in a United States Department of State multi-regional international visitor project, which is administered by the Academy for Educational Development (AED). The group was interested in learning how a major research university, such as UNM, protects its intellectual property rights. The group had questions regarding what UNM considers patentable; how the university works with the UNM research community; who holds the license, UNM or the inventor, and how UNM markets the inventions.

- Negotiated and monitored contract services provided by CIRT to Administrative Office of U. S. Courts.

- Negotiated and established Information Technology Contracts with several consulting firms for contract-to-hire Information Technology personnel.

- Negotiated and established Tier 1 Internet Service Provider (ISP) contract to provide full internet protocal (IP) services at multi-megabit data rates up to 45 Mbps, full duplex, to the University.

- Negotiated and established a contract for the provision of a web portal for the University.

- Reviewed, negotiated, and approved license agreements and on-line subscription services for UNM libraries.

- Monitored major IT contracts for compliance and costs effectiveness.

- Monitored Uniform Computer Information Transactions Act, UCITA, on behalf of University IT contracts.

- Monitored and negotiated network equipment, software, maintenance, and training for Infrastructure Project approximately $1,342,000.

5.3 Grants

B. Tacker, J. Sobolewski, Co-PI's
National Science Foundation
$182,500 for second year of award
"NMIMT High Speed Connection to the vBNS and Abilene Networks"

J. Sobolewski, A. St. George, D. Stuart, Co-PI's
Commission on Higher Education (CHE)
$791.1 K requested
$676K funded
"IT Infrastructure to Support Distance Independent Education and Lifelong Learning"

J. Sobolewski, A. St. George, L. Sullo, Co-PI's
State of New Mexico
$575,000
CHE IT Grant

M. Talbott
U. S. Court Systems
$109,000
Processing Jury Wheels

J. Sobolewski, G. Hodge, N. Uscher, Co-PI's
The Pew Foundation
$200,000.
Redesigning Psychology 105 Course

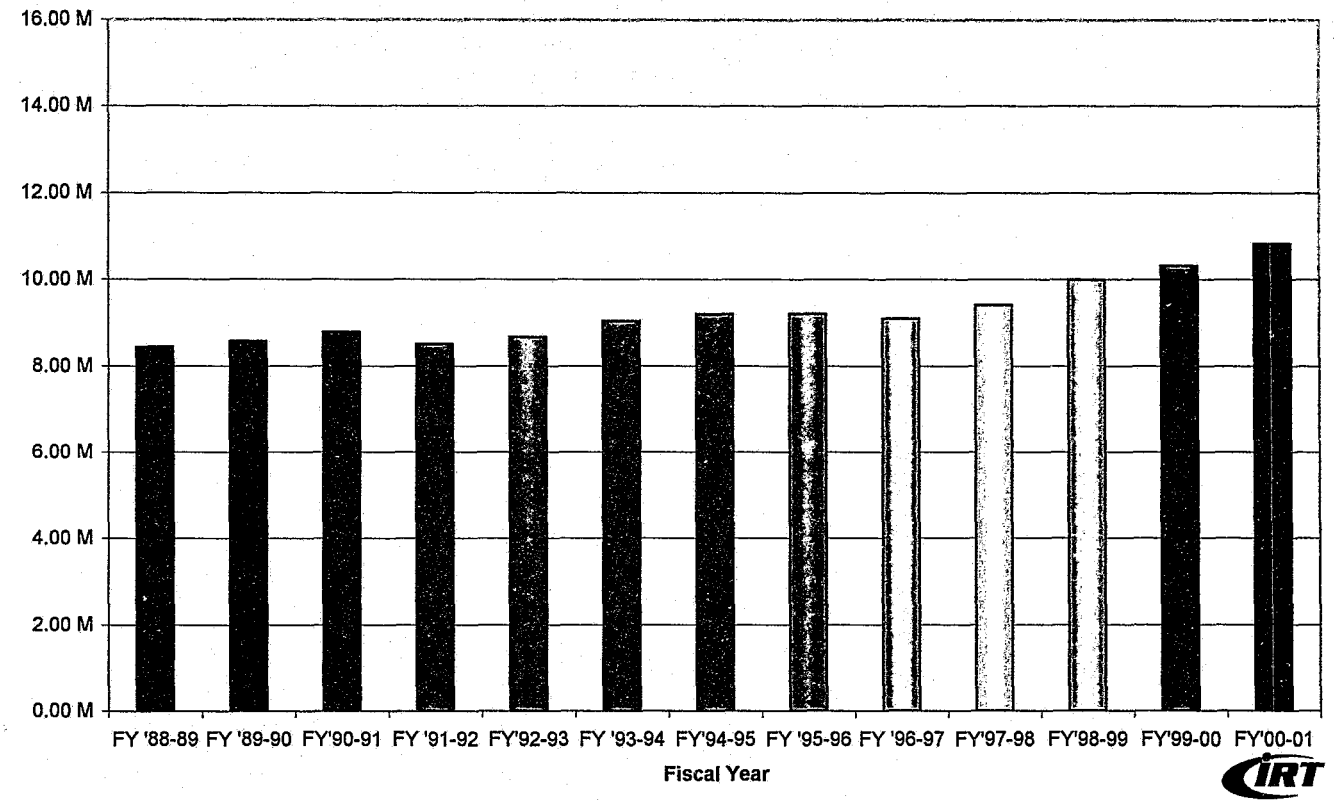
6.0 STATISTICAL REVIEW OF CIRT PROVIDED SERVICES

The following statistics summarize key services provided by CIRT. The following tables summarize the changes over the past 11 years and clearly illustrate the growth in computing services, despite no increases in staff and only token increases in total budget. As such, it provides a measure of the efficiency and effectiveness of CIRT.

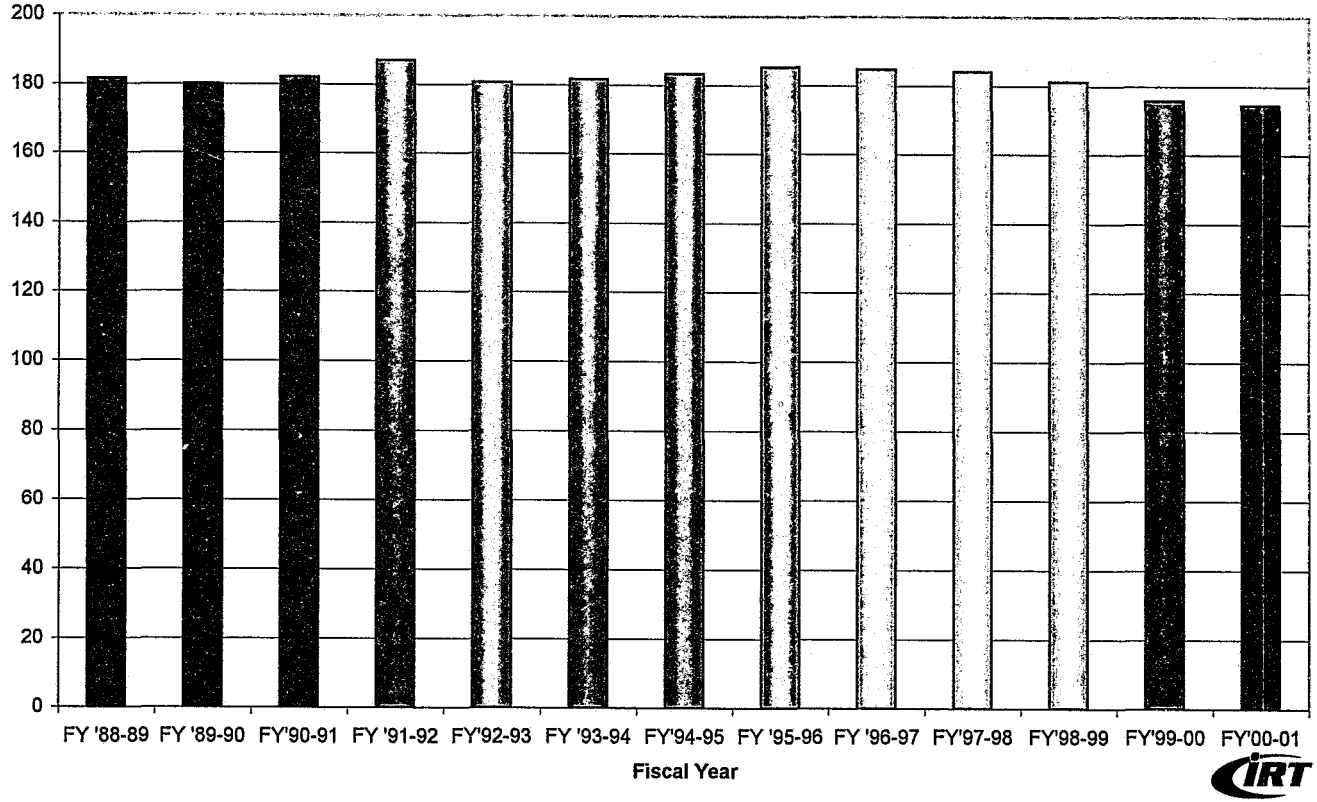
1988-1989 to 2000-2001 Fiscal Year Change

	FY '88-89	FY '89-90	FY'90-91	FY '91-92	FY'92-93	FY '93-94	FY'94-95	FY '95-96	FY '96-97	FY'97-98	FY'98-99	FY'99-00	FY'00-01
Budget	8.43 M	8.57 M	8.79 M	8.50 M	8.66 M	9.05 M	9.20 M	9.22 M	9.10 M	9.41 M	9.98 M	10.30 M	10.82 M
Full-time FTE's	162.0	161.0	163.0	154.2	154.2	154.2	154.2	155.7	155.7	155.4	151.5	146.9	145.2
FTE's	181.4	180.0	182.0	187.0	180.6	181.6	183.2	185.3	184.8	184.1	181.2	175.7	174.4
# Accounts	3,933	6,625	10,072	13,120	17,425	32,955	40,326	58,509	58,201	67,544	71,907	73,322	73,078
# Sessions	567,754	1,068,697	1,644,448	1,900,647	1,800,123	2,201,300	3,013,235	4,818,319	4,978,951	5,650,893	6,934,902	8,456,901	7,998,577
Connect Time in Hours	335,924	727,740	1,170,498	1,173,567	1,779,979	2,610,629	2,610,629	2,290,415	3,190,297	3,831,168	4,701,695	5,923,112	6,130,950
Normalized CPU Hours	113,824	194,928	289,677	459,702	1,109,968	1,606,830	6,380,037	7,191,537	7,116,482	8,461,929	16,808,605	21,997,234	22,054,147
Disk Space (GB/Day)	48	46	48	58	72	80	118	212	350	456	645	879	1,520
Mail Message/Day	300	405	2,500	7,000	11,000	23,500	32,000	48,500	70,000	140,000	160,000	160,000	165,000
WWW Hits/Day	0	0	0	0	0	150	2,300	39,700	70,000	82,000	122,000	138,400	147,375
Network Connections	700	1,274	1,975	2,578	3,403	6,526	8,065	11,808	12,700	15000	17,213	19,246	20,428

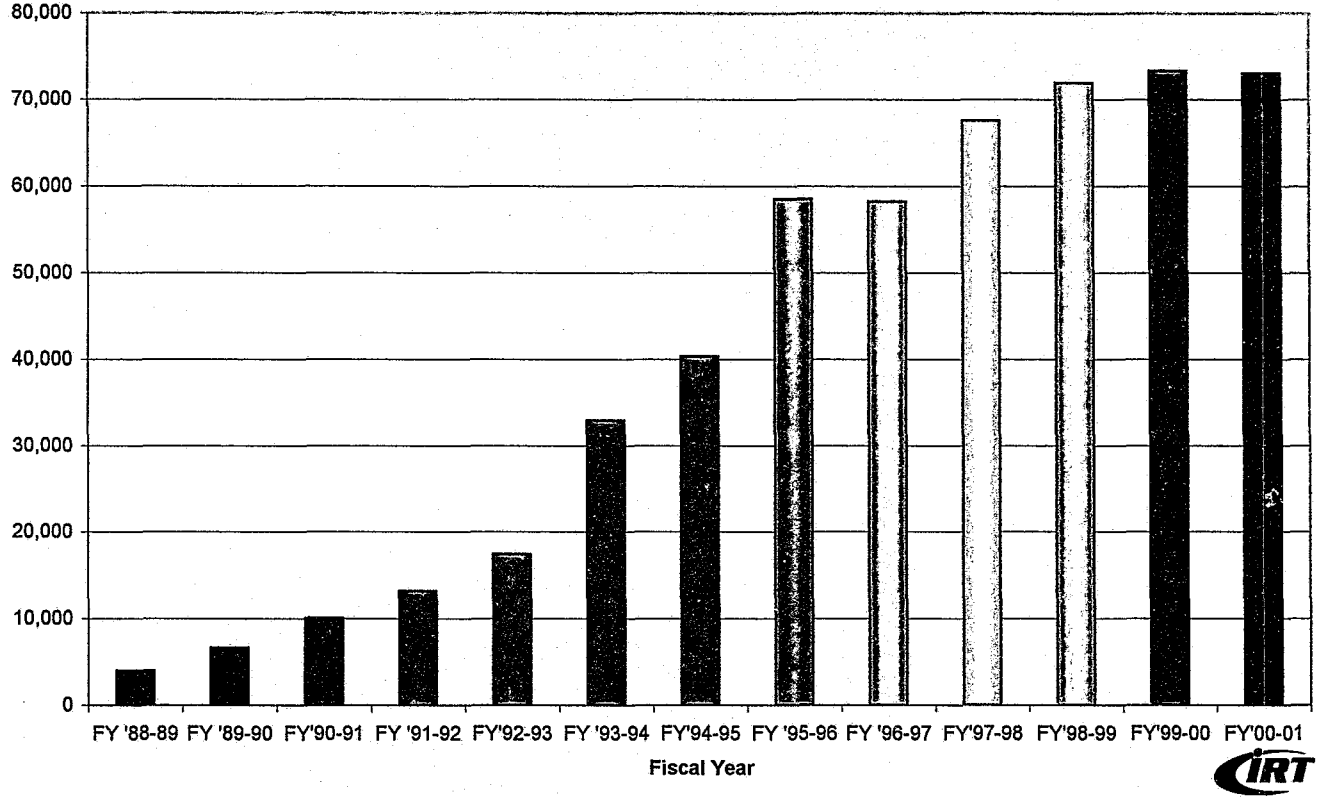
CIRT Budget


16.00 M
14.00 M
12.00 M
10.00 M
8.00 M
6.00 M
4.00 M
2.00 M
0.00 M
FY '88-89
FY '89-90
FY'90-91
FY '91-92
FY'92-93
FY '93-94
FY'94-95
FY '95-96
FY '96-97
FY'97-98
FY'98-99
FY'99-00
FY'00-01
Fiscal Year
CIRT

CIRT FTE's


200
180
160
140
120
100
80
60
40
20
0
FY '88-89
FY '89-90
FY'90-91
FY '91-92
FY'92-93
FY '93-94
FY'94-95
FY '95-96
FY '96-97
FY'97-98
FY'98-99
FY'99-00
FY'00-01
Fiscal Year
CIRT

Accounts


80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
FY '88-89
FY '89-90
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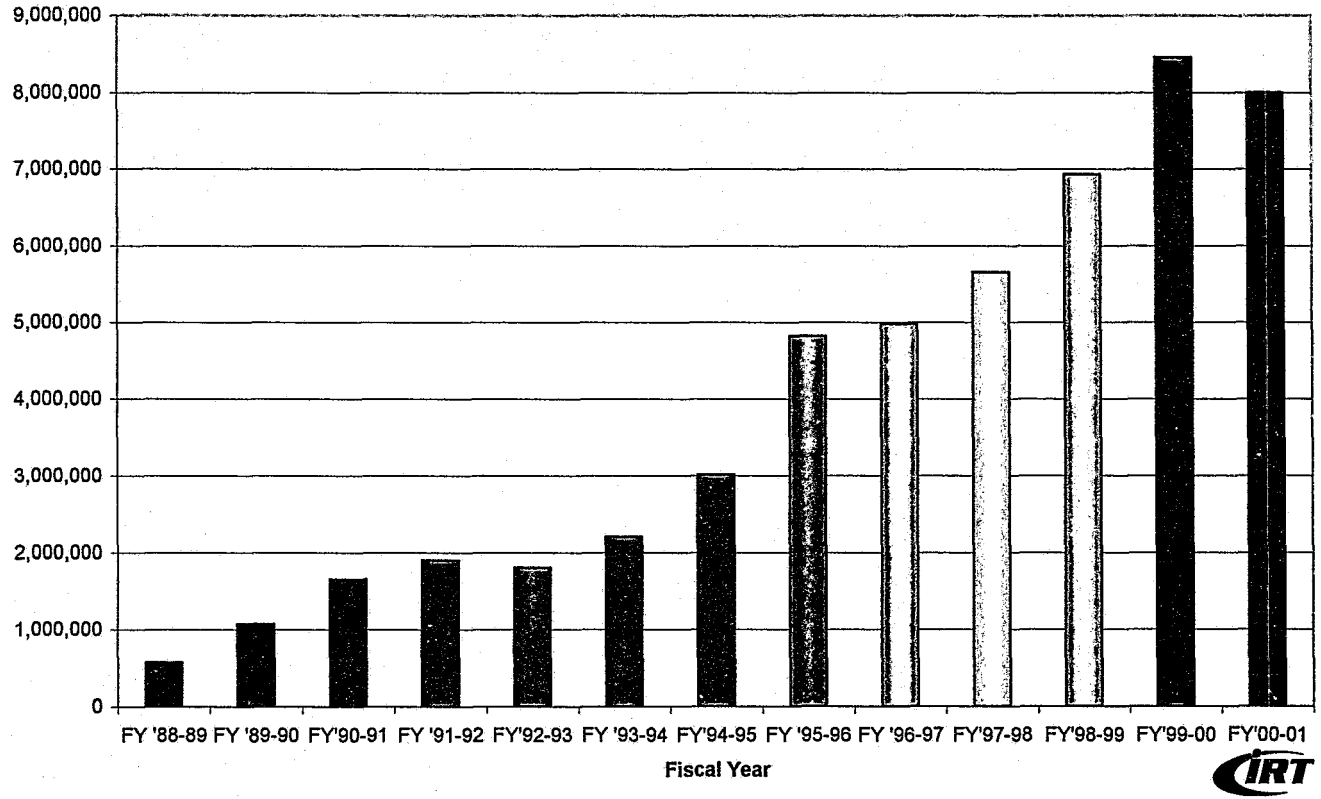
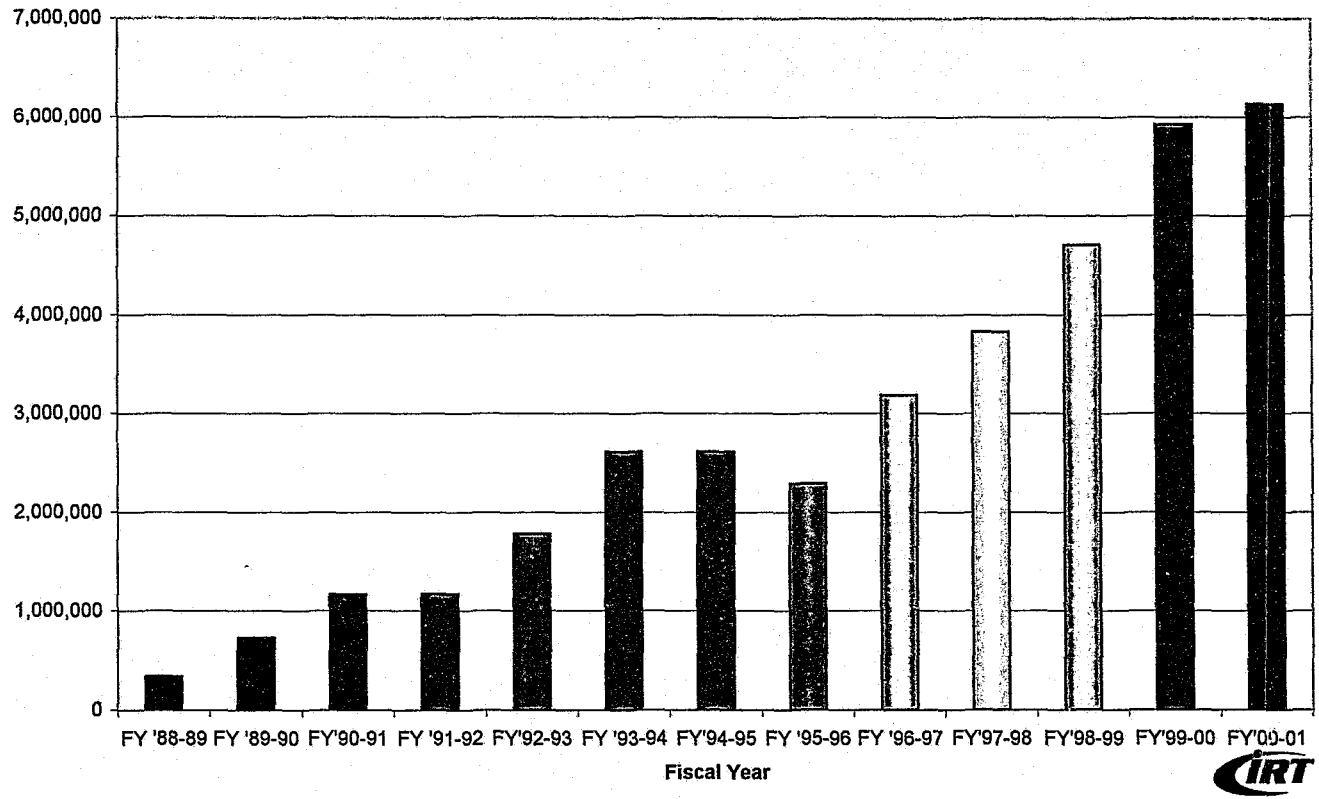
FY '91-92
FY'92-93
FY '93-94
FY'94-95
FY '95-96
FY '96-97
FY'97-98
FY'98-99
FY'99-00
FY'00-01
Fiscal Year
IRT

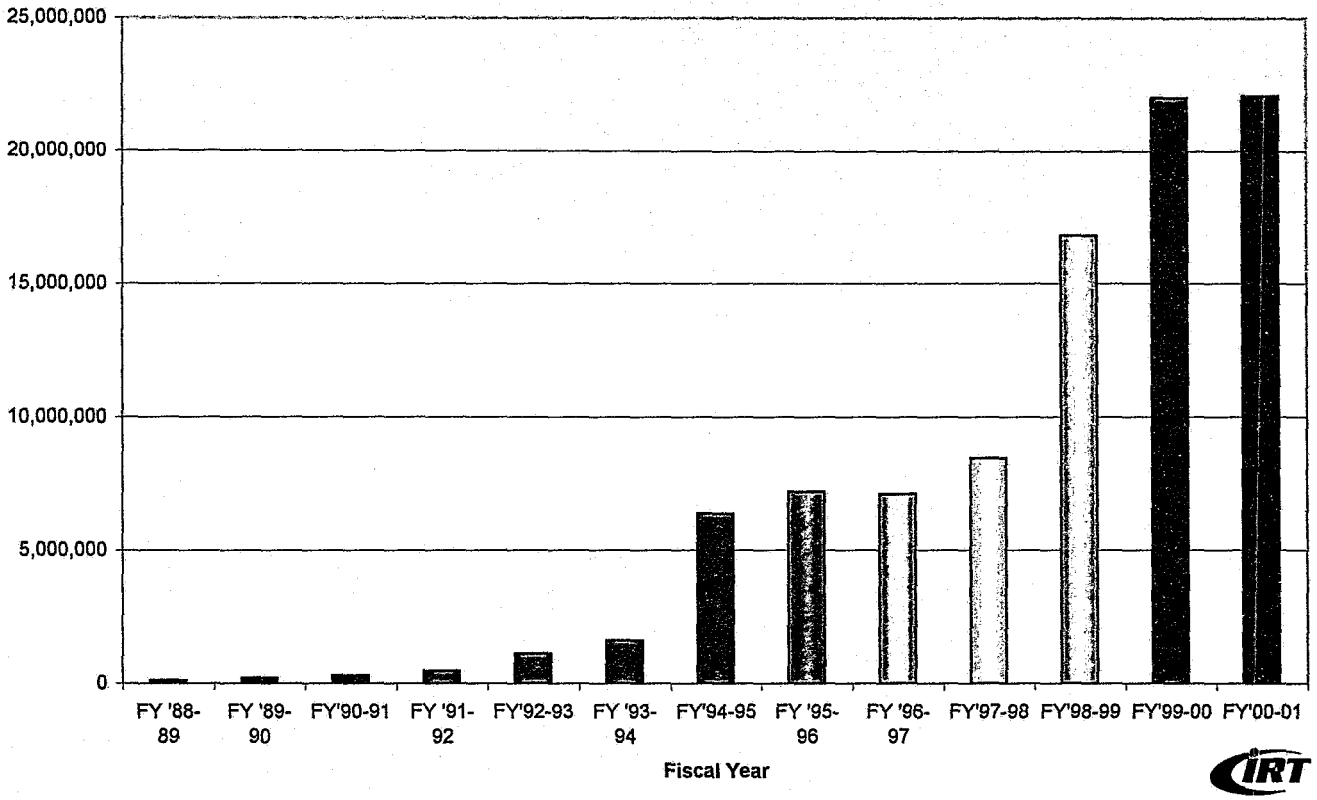
Sessions

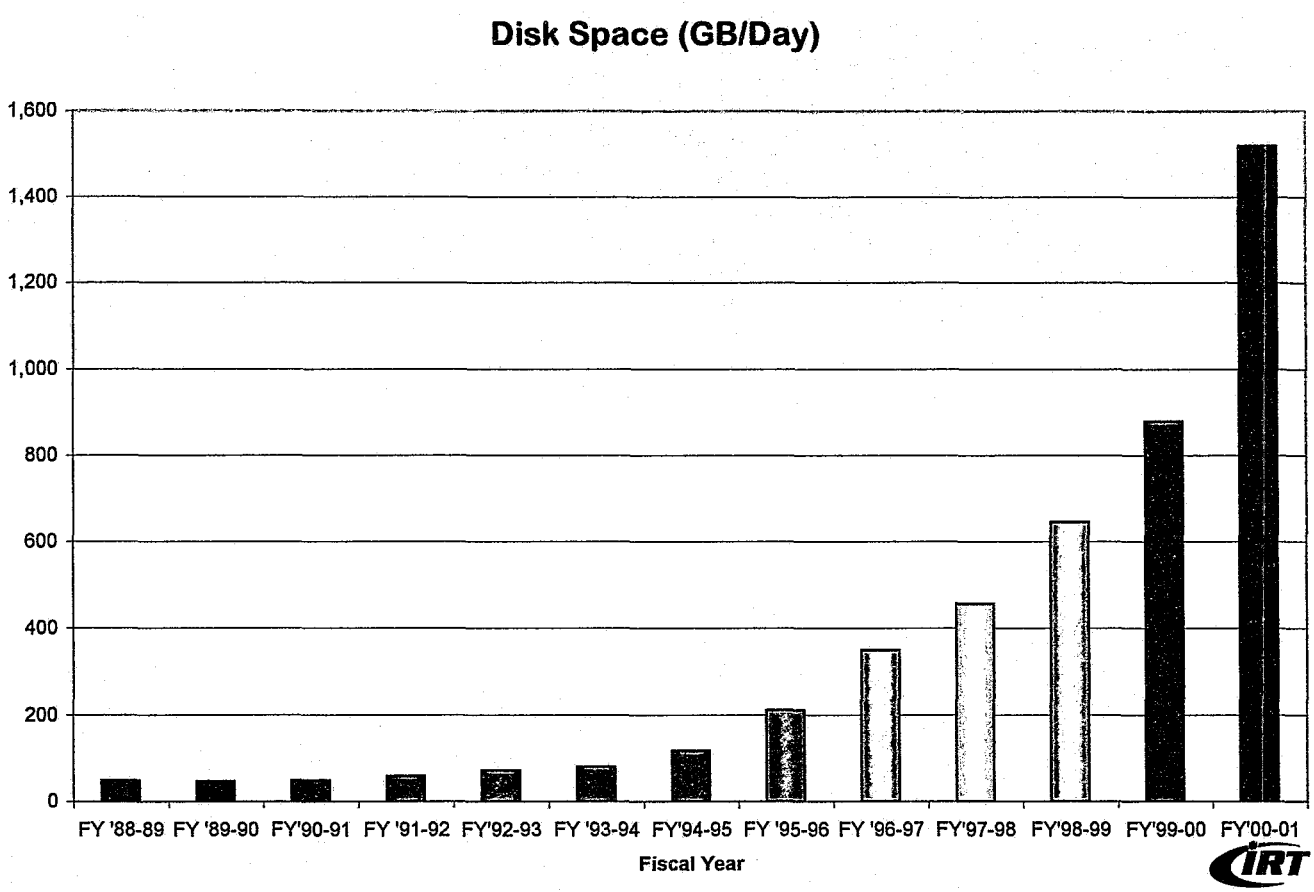

9,000,000
8,000,000
7,000,000
6,000,000
5,000,000
4,000,000
3,000,000
2,000,000
1,000,000
0
FY '88-89
FY '89-90
FY'90-91
FY '91-92
FY'92-93
FY '93-94
FY'94-95
FY '95-96
FY '96-97
FY'97-98
FY'98-99
FY'99-00
FY'00-01
Fiscal Year
IRT

Connect Time in Hours

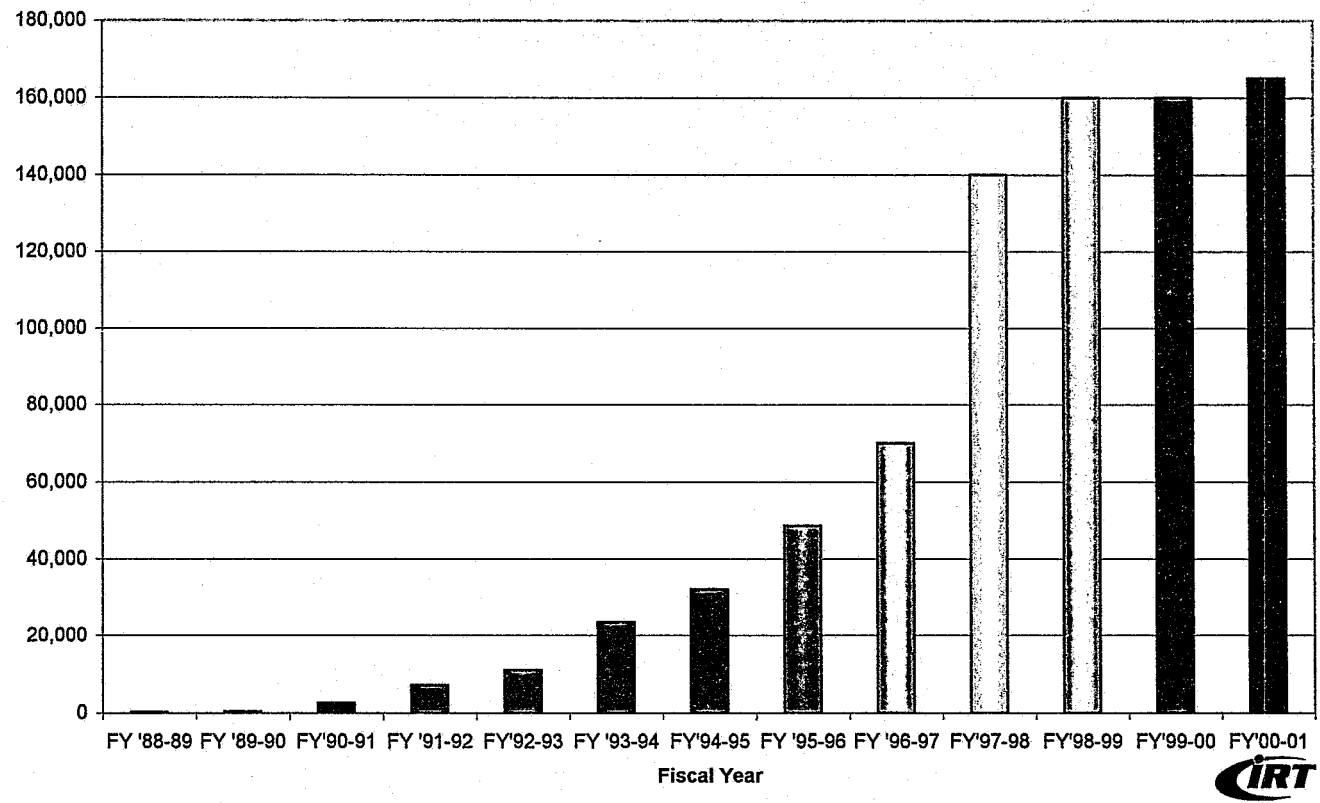


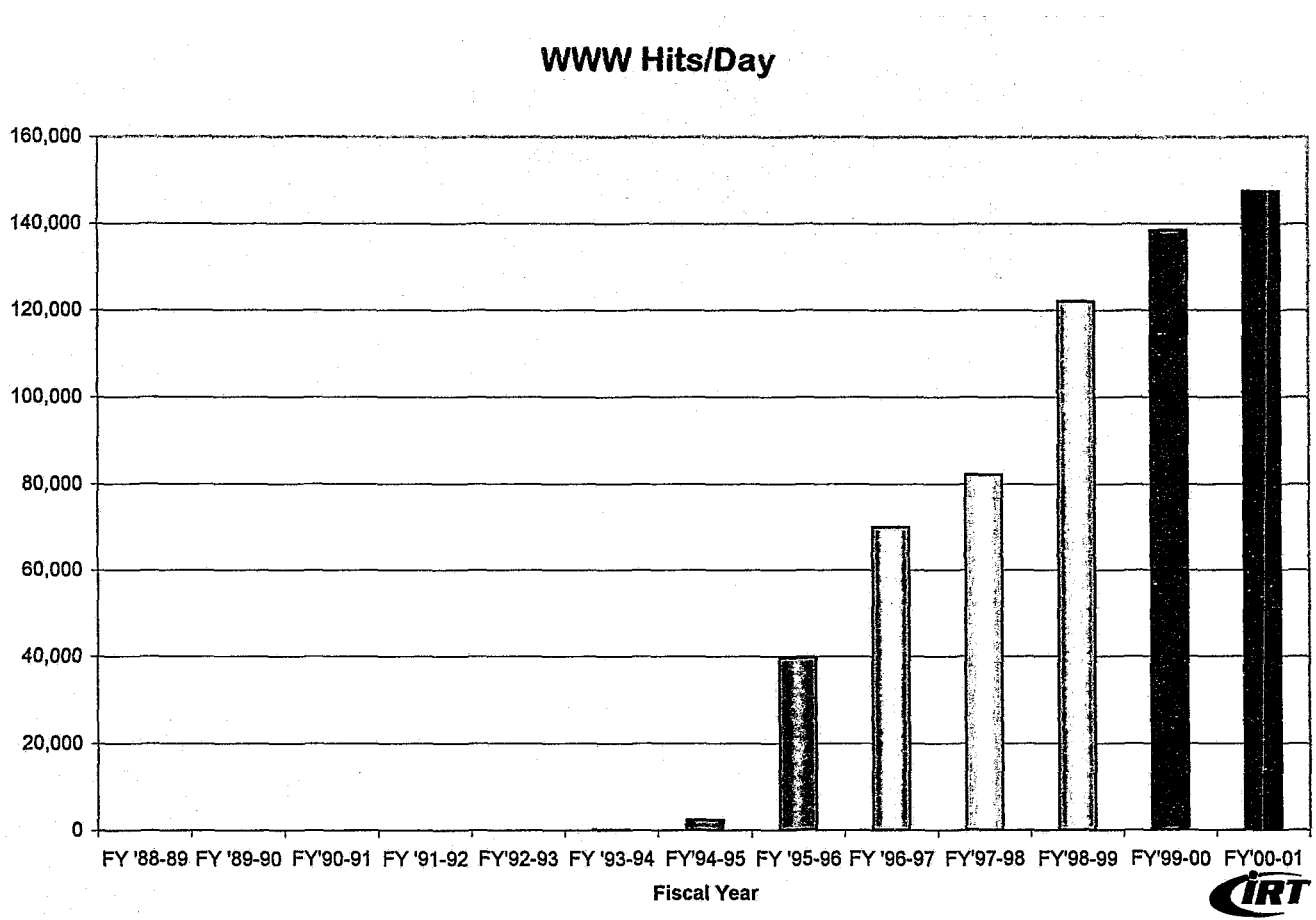
Normalized CPU Hours



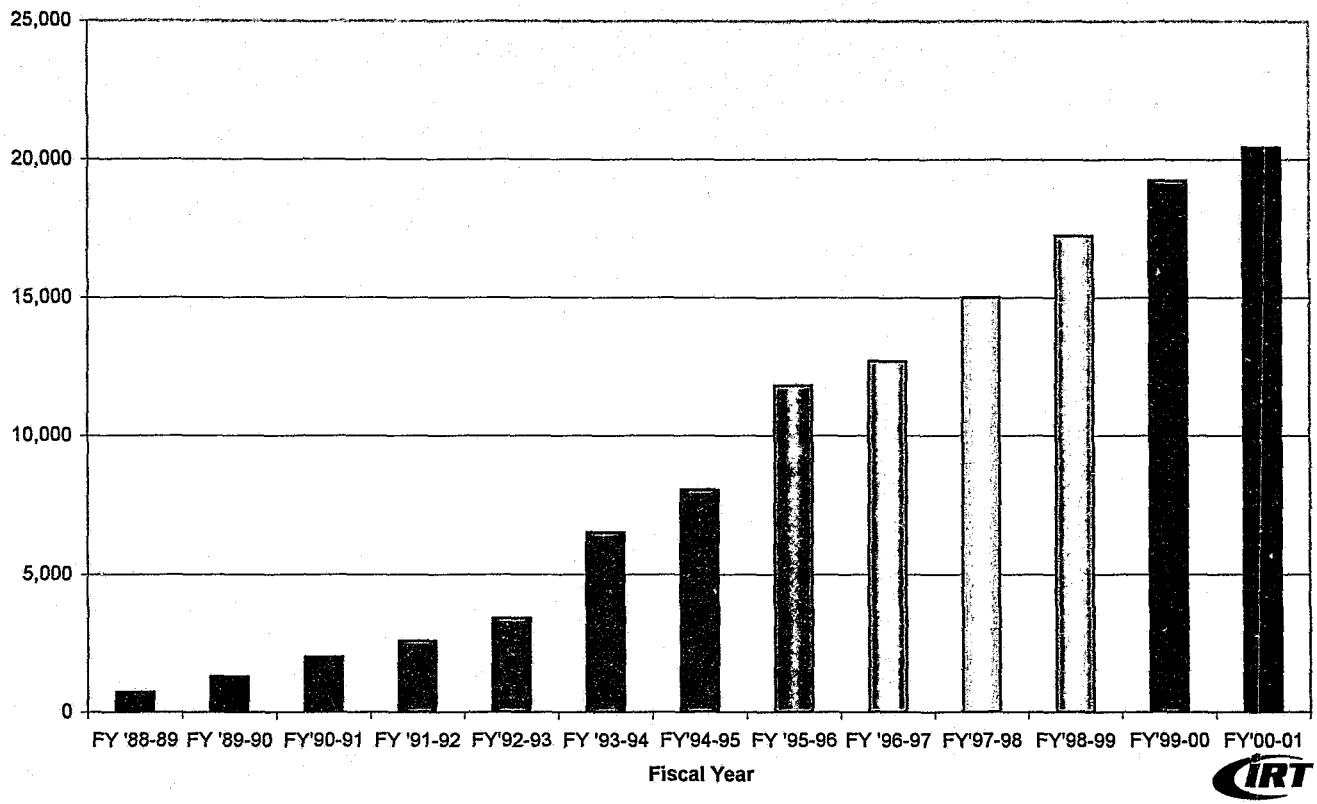

Disk Space (GB/Day)
1,600
1,400
1,200
1,000
800
600
400
200
0
FY '88-89
FY '89-90
FY'90-91
FY '91-92
FY'92-93
FY '93-94
FY'94-95
FY '95-96
FY '96-97
FY'97-98
FY'98-99
FY'99-00
FY'00-01
Fiscal Year
IRT

Mail Message/Day




WWW Hits/Day
160,000
140,000
120,000
100,000
80,000
60,000
40,000
20,000
0
FY '88-89
FY '89-90
FY'90-91
FY '91-92
FY'92-93
FY '93-94
FY'94-95
FY '95-96
FY '96-97
FY'97-98
FY'98-99
FY'99-00
FY'00-01
Fiscal Year
IRT

Network Connections



6.1 Summary Security Incidents

Summary:

Security incidents increased again at UNM for Fiscal Year 2000-2001 (following the trend of the last five years), although the distribution in attack type did fundamentally change. Incidents of break-ins were significantly lower than in preceding years. Internet worms and Denial of Service (DOS) attacks increased disproportionately relative to the increases in other types of attacks from the last several years. Harassment cases decreased for Fiscal Year 2000-2001, as did Acceptable Computer Use Policy (ACUP) violations in general, with the exception of Copyright violations. The decrease in the trend of internal security issues is likely due to the implementation this year of pragmatic steps that tightened security, such as controlling application level access to centralized password files (YP). Applications which require user authentication are migrating to Lightweight Directory Access Protocol (LDAP) authentication.

Account Abuse Problems:

In FY 2000-2001, CIRT experienced a significantly smaller number of account abuses than last year. Harassment incidents are down approximately 75%. This is partially due to client education as to what constitutes harassment and what the consequences of harassment are. As behaviors which constitute harassment become associated with negative consequences through the enforcement of our ACUP, this trend will likely stabilize and remain in the lower incidence range seen in Fiscal Year 2000-2001. Commercial misuse is also down significantly. There were several incidents typical of the last few years, but with the ease and low cost of colocation and DNS services for commercial ISPs, many clients who might be tempted to utilize state resources for private gain seem to have migrated to the backbones of commercial ISPs. Copyright issues experienced a slight increase with the Digital Millennia Copyright Act and the various music and file sharing services, however, DMCA does provide ISPs like UNM with certain burden of proof protections which make handling these kinds of incidents less problematic than in previous years.

Break-ins to Systems and Personal Accounts:

System compromises at UNM increased significantly, while break-ins to individual accounts were down. Many of the systems compromises were a result of Windows authentication and open file sharing issues. Unpatched Operating Systems (OSs) and applications made up the remainder of System compromises, comprising Microsoft, Sun, and IRIX OSs. The decrease in personal account break-ins likely resulted from the aforementioned changes in CIRT's authentication methods.

System Abuses:

Several break-ins occurred in Fiscal Year 2000-2001 which targeted the services of specific departments and caused a wide spread unavailability of departmental computing resources (typically via DOS attacks), sometimes for days at a time. Other less directed attacks, like CodeRed, caused similar sustained unavailability of services for departments while they sought administrative assistance in a limited pool of qualified resources. Both varieties of system abuse underscore the consequences of the current economic trends in computing: server hardware and software costs have become so affordable that departments without the FTE to support the administrative overhead of a file server and its associated responsibilities can acquire and implement one. The lack of FTE for system administration has left departments largely vulnerable to both kinds of system abuse. This lack of FTE in critical system administrative areas, like security, causes an off-loading of the essential functions of a department's

computing resources to CIRT, far outstripping the limited resources of UNM's computing infrastructure to accommodate. Much of the increase in demand for CIRT services has been in consultation and direct assistance in locating appropriate patches for OSs and applications and properly configuring network computing devices to limit their exposure to abuse. Other such increases arose through CIRT's handling and directing of complaints from outside entities, primarily corporate and military, regarding computing devices within UNM's network.

CodeRed and several of the other Internet worms targeted Web and mail servers primarily, and the decentralization of computing resources to the departmental level for services like e-mail and Web services has created a large overhead in handling, directing, and resolving complaints, creating a still greater burden on computing resources. While addressing the impact of the numerous worms and unpatched applications and OSs, CIRT was able to take some proactive measures in dealing with computing security on campus. Among these were propagation of critical information in a timely manner through CIRT's Sysinfo-l list, discussions and demonstrations in computer use groups, like the UCU, and conducting topical security training seminars for the UNM community.

It is CIRT's hope that while limited in availability, security information dissimenation, discussion, and training will provide a greater body of skills to department as they continue to innovate computing solutions for their clients.

6.2 CIRT 2000-2001 Class Stats

Class	Date	Audience	Number in class	Class Length	Contact hours
CIRT Services	Jul. 12, 2000	CEP	40	2	80
	Aug. 01, 2000	Gen Student	10	1	10
	Aug. 01, 2000	Gen Student	15	1	15
	Aug. 14, 2000	Gen Staff	50	1	50
	Aug. 14, 2000	Gen Student	10	1	10
	Aug. 16, 2000	Gen Student	25	1	25
	Aug. 18, 2000	Gen Student	100	4	400
	Aug. 23, 2000	Gen Student	10	1	10
	Aug. 23, 2000	Gen Student	10	2	20
	Aug. 23, 2000	Gen Student	10	2	20
	Aug. 24, 2000	Gen Student	5	1	5
	Aug. 24, 2000	Gen Student	10	4	40
	Jun. 06, 2001	CEP	40	2	80
	Jun. 13, 2001	CEP	40	2	80
	Jun. 27, 2001	CEP	40	2	80
		Class Totals	**415**	**27**	**925**
Computer Literacy	Dec. 14, 2000	Gen Staff	15	3	45
	Apr. 18, 2001	Gen Staff	3	1	3
	May. 16, 2001	Gen Staff	12	3	36
		Class Totals	**30**	**7**	**84**
	Jul. 13, 2000	Gen Staff	10	2	20
Corporate Time	Jul. 26, 2000	Gen Staff	15	1.5	22.5
	Aug. 29, 2000	Gen Staff	5	1.5	7.5
	Sep. 07, 2000	Gen Staff	5	2	10
	Sep. 07, 2000	Gen Staff	10	2	20
	Sep. 19, 2000	Gen Staff	10	2	20
	Sep. 29, 2000	Gen Staff	15	2.5	37.5
	Oct. 03, 2000	Gen Staff	10	2	20
	Oct. 04, 2000	Gen Staff	4	1.5	6
	Oct. 04, 2000	Gen Staff	5	1	5
	Oct. 18, 2000	Gen Staff	5	1.5	7.5
	Oct. 25, 2000	Gen Staff	10	2	20
	Oct. 31, 2000	Gen Staff	10	2	20
	Nov. 15, 2000	Gen Staff	10	2	20
	Nov. 15, 2000	Gen Staff	10	2	20
	Nov. 30, 2000	Gen Staff	3	1.5	4.5
	Dec. 06, 2000	Gen Staff	5	2	10
	Dec. 13, 2000	HR	5	2	10
	Jan. 11, 2001	Gen Staff	10	2	20
	Jan. 18, 2001	Gen Staff	10	2	20

Corporate Time (cont.)	Jan. 30, 2001	Gen Staff	10	2	20
	Feb. 05, 2001	Gen Staff	5	2	10
	Feb. 12, 2001	Admissions	10	2	20
	Feb. 14, 2001	Gen Staff	10	2	20
	Feb. 22, 2001	Gen Staff	5	1	5
	Feb. 27, 2001	Gen Staff	10	2	20
	Mar. 08, 2001	Gen Staff	3	1	3
	Mar. 08, 2001	Gen Staff	10	2	20
	Mar. 08, 2001	Gen Staff	20	2	40
	Mar. 20, 2001	Gen Staff	3	1.5	4.5
	Mar. 28, 2001	Gen Staff	3	2	6
	Mar. 28, 2001	Gen Staff	10	2	20
	Apr. 03, 2001	Gen Staff	5	2	10
	Apr. 09, 2001	Gen Staff	10	2	20
	Apr. 11, 2001	Gen Staff	10	2	20
	Apr. 11, 2001	Gen Staff	7	2	14
	Apr. 12, 2001	Gen Staff	10	2	20
	Apr. 12, 2001	Gen Staff	12	2	24
	Apr. 17, 2001	Gen Staff	5	1	5
	Apr. 19, 2001	Gen Staff	10	2	20
	Apr. 24, 2001	Gen Staff	7	2	14
	Apr. 25, 2001	Gen Staff	10	2	20
	Apr. 26, 2001	Gen Staff	15	2	30
	May. 01, 2001	English	12	2	24
	May. 01, 2001	Gen Staff	10	2	20
	May. 02, 2001	Gen Staff	3	1	3
	Jun. 12, 2001	Gen Staff	10	2	20
	Jun. 12, 2001	Gen Staff	10	2	20
	Jun. 14, 2001	Gen Staff	10	2	20
	Jun. 25, 2001	English	3	1	3
	Jun. 26, 2001	Gen Staff	10	2	20
	Jun. 28, 2001	Gen Staff	5	1	5
	Jun. 28, 2001	Gen Staff	10	2	20
		Class Totals	**450**	**96.5**	**861**
Html I					
	Jul. 19, 2000	Gen Staff	10	3	30
		Class Totals	**10**	**3**	**30**
Mulberry	Jul. 10, 2000	Gen Staff	4	1.5	6
	Jul. 11, 2000	Gen Staff	10	2	20
	Jul. 18, 2000	Gen Staff	7	2	14
	Aug. 08, 2000	Gen Staff	5	1	5
	Sep. 06, 2000	Gen Staff	10	2	20
	Sep. 20, 2000	Gen Staff	15	2	30
	Oct. 26, 2000	Gen Staff	10	2	20
	Nov. 09, 2000	Gen Staff	10	2	20
	Nov. 21, 2000	Gen Staff	10	2	20
	Nov. 22, 2000	Gen Staff	10	2	20
	Nov. 29, 2000	Gen Staff	10	2	20
	Jan. 24, 2001	Gen Staff	10	2	20

Mulberry (cont.)	Feb. 06, 2001	Gen Staff	10	2	20
	Feb. 21, 2001	Gen Staff	10	2	20
	Mar. 21, 2001	Gen Staff	8	2	16
	Mar. 22, 2001	Gen Staff	10	2	20
	Apr. 04, 2001	Gen Staff	10	2	20
	Apr. 10, 2001	Gen Staff	10	2	20
	Apr. 18, 2001	Gen Staff	10	2	20
	Apr. 26, 2001	Gen Staff	10	2	20
	Jun. 05, 2001	Gen Staff	10	2	20
	Jun. 13, 2001	Gen Staff	10	2	20
		Class Totals	**209**	**42.5**	**411**
Powerpoint	Jul. 27, 2000	Gen Student	40	2	80
	Oct. 02, 2000	Gen Student	20	2	40
	Oct. 03, 2000	Gen Student	25	1.5	37.5
	Oct. 03, 2000	Gen Student	25	1.5	37.5
	Oct. 18, 2000	Gen Student	20	1.5	30
	Mar. 01, 2001	Gen Student	25	1.5	37.5
	Apr. 16, 2001	Gen Student	20	2	40
		Class Totals	**175**	**12**	**302.5**
Word	Sep. 12, 2000	Gen Staff	10	1.5	15
	Oct. 10, 2000	Gen Student	15	1.5	22.5
	Mar. 19, 2001	Gen Student	8	2	16
		Class Totals	**33**	**5**	**53.5**
		Totals	**1322**	**193**	**2667**

7.0 NEW STAFF AND SEPARATIONS

New Staff

David Northrop - Systems Analyst III - 6/5/01

Heidi Reed - Mgr Applications - 8/04/00

Kelly Cowan - Tech Support Analyst II - 11/04/00

Anne Snider - Database Admin - 12/18/00

Andy Gutierrez - Mgr Applications - 01/22/01

Jeanne Ainsley - Analyst Prog I - 1/02/01

Separations

Jesus Gutierrez - Computer Operator - 5/04/01

Alex Estrada - Systems Analyst III - 2/26/01

Ron Gaudreau - Computer Operator - 10/09/00

Aaron Ezekiel - Tech Support Analyst III - 7/21/00

Kelly Lesher - Network Engineer - 1/12/01

Dave Grisham - Security Administrator - 6/4/01

Kathryn Ballard - Systems Analyst II - 12/31/00 (although she is still on board as a temp employee)