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Continued in Volume II
UNIVERSITY OF NEW MEXICO
Annual Report for Academic Year 2004-2005
July 1, 2004 – June 30, 2005

Submitted by:
Alistair M. Preston
Associate Dean
The Anderson Schools of Management
The Anderson Schools of Management

At the Robert O. Anderson School and Graduate School of Management (Anderson) we are committed to: (1) shaping the character and intellect of the next generation of business leaders, (2) advancing the knowledge and practice of management, (3) promoting economic development in New Mexico and (4) building a vibrant intellectual environment that serves the best interests of all our stakeholders. The Anderson Schools received initial AACSB International accreditation in 1975 and is currently accredited in both business and accounting.

In the past year, Anderson has received national recognition for excellence in three key areas: Education for Hispanic students (Hispanic Business Magazine), ethical business education (Beyond Grey Pinstripes), and Management of Technology (International Association for Management of Technology).

Anderson enjoys excellent relations with the New Mexico business community, especially from members of the Anderson Foundation Board. We also benefit from the support of our National Advisory Board consisting of prominent alumni and other leaders serving in executive and board positions in Fortune 500 corporations. These relationships have helped Anderson form strategic alliances with a host of for-profit corporations, not-for-profit organizations and governmental agencies. These symbiotic alliances create learning opportunities for both our students and faculty and help our State grow and prosper.

Anderson is dedicated to the principles of the new AACSB International Standards and has made significant progress in the core areas of strategic planning, assurance of learning and faculty sufficiency. Past and current initiatives, emerging from our updated strategic plan, demonstrate our commitment to continuous improvement.

Our effective practices emerge from our highest priorities. The following describes eight specific practices, organized according to our four top priorities.

Educating the Next Generation of Business Leaders

1. Our efforts in this area have focused on curricular improvements, from individual courses (whereby each clearly identifies learning objectives) to entire degree programs. A notable example is the redesign of the professional Master in Accounting degree program for non-accounting students. This is a new and novel target market for this professional degree that historically has been populated by accounting majors. This idea, which emerged from a series of State-wide town hall meetings with local chapters of the New Mexico Society of Certified Public Accountants, integrates the new 150-hour requirement for CPA certification in order to prepare qualified accounting majors to serve the needs of New Mexico.

The initial cohort of this program has now graduated and enjoys 100% job placement. The market response to this program has been quite encouraging and, as a result, we will begin offering both day and evening cohorts of this program in the fall of 2005. Given the large number of available jobs for accountants, we are confident we can meet this market demand with well qualified Anderson graduates.

2. Encouraging students' ownership of their academic efforts at a university populated in the main by commuter students poses unique challenges. Due to the demands of family and work, many of our students see college as just another stopping point in a busy day—more like a Wendy's drive-through experience than a day at the office. Our goal is to transform Anderson into an environment...
that encourages each student to spend a greater portion of his or her day on campus, thus building ties among students, and between students and the Anderson Schools.

Our new student center is designed to create an environment that more actively engages our students. We will soon break ground on this student center that will also be home to our new educational investment program (in which students manage a multi-million dollar portfolio) and related programs in finance and banking. This will be the first such center in New Mexico and one of only a few throughout the Southwest. The facility will also house an event center that will accommodate lectures, dinners and receptions; a center for business ethics and another center yet to be designated. When not used for special events, this facility will serve as a study center and an area where students and faculty can gather. This wi-fi equipped facility will be completed in the 2005-2006 academic year.

Advancing the Knowledge and Practice of Management

3. Our efforts in advancing knowledge have focused on building programs of excellence as evidenced by our national ranking in the area of management of technology. Anderson has a 20-year history of partnerships with the two national laboratories in New Mexico, Sandia and Los Alamos. These partnerships have spawned business ventures and helped our faculty establish a distinguished record of scholarship in the area of management of technology. Moreover, with support from the McCune Foundation, Anderson faculty and students have worked in partnership with the Science and Technology Corporation—a UNM owned 501(c)3 corporation. This partnership has developed technology assessment reports used to assist business start-ups that emerge from intellectual property developed at UNM.

The advent of the PNM Chair in Microsystems Technology and Commercialization (2002) has enabled us to further enhance our research partnerships, scholarship and outreach in the area of technology management. The PNM Chair joined a distinguished core faculty in the area of technology management who have received nearly $500,000 in contracts over the accreditation review period and earned for Anderson a number six (#6) worldwide ranking by the International Association for Management of Technology.

4. Our efforts in the area of ethics have distinguished us in both teaching and research. Through growing partnership with leading not-for-profit organizations within the State, Anderson has developed a series of programs that have led to national recognition. We have launched a business ethics student competition, we have taken a leadership role in the evaluation and judging of the State-wide Samaritan Counseling Center Ethics in Business Awards, and we are taking the lead in establishing the New Mexico Ethics Consortium—a not-for-profit corporation developed to offer training, counsel and support services for firms throughout New Mexico.

In addition to these important ethics-related teaching and service components, Anderson faculty's scholarship influences the research agenda of the study of ethics. For example, one of our faculty members served as editor of Business and Society during much of the review period (2001-2004). These and other fine works have resulted in our continued ranking in the area of ethics. (See the Aspen Institute’s Beyond Grey Pinstripes ranking of universities worldwide at http://beyondgreypinstripes.org/pdf/2005_beyond_grey_pinstripes.pdf).

5. Our efforts in advancing the practice of management have built upon the outreach arm of Anderson, our Management Development Center. This Center is home to our Executive MBA which serves over 100 mid-career professionals each year. The program has been continuously and thoroughly
evaluated, and many new program enhancements and improvements have been implemented. These and other changes have been very well-received, as demonstrated in our student satisfaction ratings.

Perhaps the most telling statistic is the change in our “loyalty index” that is calculated as part of the EMBAC Student Satisfaction Exit Survey, a national benchmarking study in which we participate each year. In 2000, only 32% of our graduating EMBA students were classified as “apostles,” giving the program an overall rating of nine or ten (based on a ten-point scale). Following significant program changes, by 2005, 58% of our graduating EMBA students were classified as “apostles,” slightly ahead of the national average of 55% for similar EMBA programs offered by public institutions that typically charge twice the tuition that Anderson does.

Fostering Economic Development in New Mexico

6. Our efforts in the area of economic development have focused on building capacity: ongoing lobbying for earmarks (2002); Chair in Creative Enterprise (2003); Kauffman Foundation seed grant ($50,000) and subsequent $2,000,000 grant application (2004); Chair in Economic Development (2005); and selected economic development initiatives (technology commercialization programs with Los Alamos National Labs, Sandia Labs, Science and Technology Corporation, and contacts with the State of New Mexico).

This capacity building has enabled us to consolidate four different centers or programs under the umbrella of the Center for Support for Economic Development. As a consolidated unit, we have in the past academic year generated over $200,000 in contracts and grants, and have prepared over $700,000 in outstanding grant applications. We have also written an economic impact study for New Mexico Governor Bill Richardson.

Building a Vibrant Intellectual Community

7. Anderson is working to create a more stimulating intellectual environment, not only for our students and faculty but also for the business community at large. Toward this end, we are hosting more events and activities to encourage greater interaction among our various stakeholders. For example, we are now in the second year of our CEO lecture series; speakers for the coming year include Dick Kavosevich, CEO of Wells Fargo, and Senator Pete Domenici, Chair of the Senate Finance Committee. Previous speakers included Jim Haines, CEO of Westar, and Henry Cisneros, former CEO of Univision.

8. Continuous improvement of academic programs involves not only appropriate changes to curricula, but also improvements to facilities and technology, and the support of faculty to enhance research and instructional efforts. At Anderson, we have upgraded physical facilities to make the entire School wifi compatible, created three Classrooms on Wheels and begun to roll out a program to create a totally wireless Anderson.

Statement of Vision, Mission, and Goals

Anderson faculty has crafted an updated statement of Vision, Mission, and Goals for the Schools that more accurately reflects our collective aspirations for the future. Adopted on December 10, 2004, the statement is as follows:

Vision
We envision a nationally recognized management school that will build on the University of New Mexico’s strategic advantages to provide high quality education, research, and service to enhance the quality of life of our constituents.

Mission
We seek to develop and inform business and management leaders through a balance of teaching and scholarship, and to contribute to economic development and the quality of life of our constituents.

Goals
- **Quality Education**: Provide high-quality, value added management education programs at the undergraduate and graduate levels for students who come primarily from the diverse population of New Mexico.
- **Knowledge Advancement**: Advance the knowledge and practice of management through scholarly activities.
- **Economic and Professional Development**: Promote economic development in New Mexico and continue to provide professional development opportunities for our constituents.
- **Vibrant Intellectual Atmosphere**: Foster a vibrant climate of academic excellence that actively engages all elements of the Anderson community.
- **Careers for Graduates**: Enhance the career preparedness of students by expanding quality employment opportunities for Anderson graduates through strong ties with organizational recruiters.
- **Stakeholder Relationships**: Strengthen relationships with and support to internal and external constituents to enhance Anderson’s visibility and reputation.
Chair: James R. Hamill  Professor

Full-time faculty: Philip D. Bougen  Associate Professor
Ann K. Brooks  Lecturer
Michele Chwastiak  Associate Professor
Norman Colter  Lecturer
Tom Mouck  Associate Professor
Leslie S. Oakes  Associate Professor
Alistair M. Preston  Professor
Robert J. Tepper  Visiting Faculty
Dennis F. Togo  Professor
Craig G. White  Associate Professor
Joni J. Young  Professor

Part-time faculty: Dawn Addington  Brandon Haines
Brian Ivener  Carol LaRotonda
James Maes  Roger Nagel
Alvan Romero  Dennis Sterosky
Tony Strati

SIGNIFICANT DEVELOPMENTS, SPONSORED ACTIVITIES
DEPARTMENT OF ACCOUNTING

In addition to the service activities listed under the names of the faculty members within the Department of Accounting, each faculty member participates in the recruitment process by attending a minimum of two on-campus lunches and two off-campus open houses sponsored by the Accounting Firms and other businesses in the community who hire Anderson School accounting students. The focus of this recruitment takes place during the month of September.

The Department of Accounting organized the Annual Accounting Career Fair held at the Marriott on Tuesday, September 14, 2004. The honor society, Beta Alpha Psi assisted in manning the front sign-in desk the evening of the event. This event offers Anderson accounting students an opportunity to meet with local and national accounting firms, local businesses recruiting accounting students, government agencies and members of local and national accounting organizations assisting members in a variety of ways. 142 BBA, 21 MBA and 17 Master of Accounting graduates attended this career fair. In addition, more than 100 students currently enrolled in the introductory financial accounting course also attended to become acquainted with the career opportunities available to accounting majors. Department of Accounting faculty attended.
PROMOTIONS, SABBATICALS, SEPARATIONS, AWARDS
DEPARTMENT OF ACCOUNTING

James Hamill, Chair
- continued as the KPMG Professor
- continued writing a featured weekly tax column in Business Outlook, Albuquerque Journal
- continued writing a featured monthly tax column in Mature Life Magazine Albuquerque Journal
- Recipient 2005 Anderson Schools of Management Economic Development Research Grant

Alistair Preston
- continued as the Grant Thornton LLP Endowed Professor

Robert Tepper hired as Visiting Faculty for Fall 2004 and Spring 2005 semesters

INTELLECTUAL CONTRIBUTIONS
DEPARTMENT OF ACCOUNTING

Philip Bougen
Publications
The ‘Becoming’ Insurable of Terrorism Risk in the USA, in M. Dillon and C. Wright (Eds), Complexity, Networks and Resilience; Interdependence and Security in the 21st Century. London: Royal Institute of International Affairs (Published on the Brookings Institute Website.) (forthcoming)


Michele Chwastiak
Publications:

James R. Hamill
Invited Publications (not refereed)

**Tom Mouck**

**Publications**


**Presentations**


**Alistair M. Preston**

**Publications**


"Enabling, Enacting and Maintaining Action At A Distance: An Historical Case Study Of The Role Of Accounts In The Reduction Of The Navajo Herds," Accounting Organizations and Society, June 2004 (forthcoming)


**Dennis F. Togo**

**Publications**


**Presentations**


**Craig G. White**

**Publications**


**Invited Work**
2004. “Loss of Federal Tax Credits Due to the Lottery Scholarship” study for the Commission on Higher Education, 2004
Contribution to “Improving Student Success in Postsecondary Education in New Mexico” written for the New Mexico Commission on Higher Education, 2004

**Presentations**
Resident Faculty – AICPA/University of Illinois National Tax Education Program, June 2004
“Recent Issues in Assignment of Income” presented at the 2004 Annual New Mexico Tax Conference

**Joni J. Young**

**Publications**
“Changing the Questions,” Accounting and the Public Interest, (forthcoming)

**Presentations**
“Good Options, Bad Options: Metaphors and Accounting for Stock Options,” presented at 2004 AAA annual meeting, Orlando, FL by Melissa Walters, co-author and Critical Perspectives on Accounting Conference, April 2005, New York, New York

**SERVICE ACTIVITIES**
**DEPARTMENT OF ACCOUNTING**

**Philip Bougen**
Ad hoc Reviewer:
- *Accounting, Auditing and Accountability Journal*
- *Accounting, Organizations and Society*
- *Critical Perspectives in Accounting*
- *European Accounting Review*
- *Issues in Accounting Education Organization*
- *Research in Accounting in Emerging Economies*

Curriculum and Programs Committee, Anderson Schools of Management
Entrance and Credits Committee, Anderson Schools of Management
Faculty Advisor for Beta Gamma Sigma Honorary Society

**Ann Brooks**
Serves as the NM Educators Federal Credit Union Supervisory Committee Chair
Member of TVI online Advisory Board responsible for developing best practices, infrastructure and policies based on feedback from NM Virtual College
Institute of Management Accountants Board Member – Secretary
Member of Anderson Schools of Management Information Technology Task Team
Attended ASM and Accounting Career Fairs
Member of Committee on Students for IMA National
Consult with the national office of Institute of Management Accountants for website redesign, development of online resources, development of virtual chapters for full and student chapters
Member of Title V Grant Committee to evaluate the effectiveness of higher education reaching underserved populations
Collaborate with UNM’s New Media Extended Learning department on effectiveness of online teaching tools and applications, pilot test new tools for distance education, participate in roundtable presentations for the University

Michele Chwastiak
Editorial Board: Accounting Forum
Ad hoc Reviewer:
   Critical Perspectives on Accounting
   Accounting Forum
   Accounting and the Public Interest
Faculty Advisor to the UNM student SGI Buddhist Club
Accounting Department representative on the Curriculum & Programs Committee
Attended ASM Hall of Fame Awards Dinner
Attended Pride in the Profession Luncheon
Attended Accounting Career Fair
    Coordinate and plan activities for the Soka Gakkai Int’l, a world peace Buddhist organization
Member of the Peace Studies Program Committee
UNM Freshman Convocation Committee

Norman Colter
Attended ASM Career Fair
Fiscal consultant and planning board member for Academia de Lengua y Cultura, APS charter school
Member of the American Institute of CPAs
Member of the NM Society of CPAs
Faculty Advisor for Future Business Executives
Serve on the Executive Board of the Assoc. of Latino Prof. in Finance and Acctg.
Served as auditor of the Miss Albuquerque and Miss Rio Rancho Scholarship Pageant
Faculty Advisor for Association of Latino Professionals in Finance and Accounting

James R. Hamill, Chair
New Mexico Society of CPAs: Chair, 2004-2005; Executive Committee; Board of Directors; Nominating Committee
AICPA Council Member 2004-2005
AICPA Virtual Grassroots Panel, 2003-2005
Panelist, Academic Career Strategies, ATA Doctoral Consortium, March 2005
Editorial Board Membership – Commerce Clearing House Executive’s Tax and Management Report, 1994 to present

Tom Mouck
Ad hoc Reviewer:
*Critical Perspectives on Accounting*
Member Editorial Advisory Board for: 
*Accounting, Auditing and Accountability Journal;* 
*Accounting Forum* 
*Alternative Perspectives on Finance and Accounting*
Member Board of Directors and Chair of the Finance Committee of the NM Wilderness Alliance

Leslie S. Oakes
Member of the Financial Committee of Health Care for the Homeless
Ad hoc reviewer for:  
*Accounting Historians Journal* 
*Management Inquiry* 
*Administrative Science Quarterly* 
*Critical Perspectives on Accounting* 
*Contemporary Accounting Review* 
*Accounting, Organizations and Society* 
*Organizational Studies* 
*Advances in Public Interest Accounting* 
*European Accounting Review* 
*Accounting, Auditing and Accountability Journal*
Volunteer at Harm Reduction Services

Alistair M. Preston
Faculty advisor for the Association of Latino Professionals in Finance and Accounting
Speaker New Mexico Telehealth Alliance Spring Conference
Member New Mexico Telehealth Alliance Board
Attended ASM Accounting Career Fair and ASM Career Fair; Pride in Profession Lunch
Speaker at ASM-EMBA Open House
Ad hoc Reviewer:  
*Critical Perspectives in Accounting*
Faculty advisor for the Master of Accounting Professional Concentration
Chair, Promotion Committee for Dr. Santa Falcone, School of Public Administration
Assisting with Project ECHO, a State funded medical knowledge network to combat Hepatitis C in New Mexico.

Robert Tepper
Member–Colorado Society of CPAs and AICPA.
Coordinator and instructor for annual law clerk orientation program sponsored by the US District Court in Albuquerque, New Mexico
Assist law school career services in clerkship placement efforts every fall.
Member State Bar of New Mexico

Dennis F. Togo
Editorial Board, Issues in Accounting Education, AAA
Member:
- NM Society of CPAs
- American Institute of CPAs
- American Accounting Association
Sandia Audit Intern Program Committee
Member of the UNM Faculty Senate Curricula Committee
Ad Hoc Reviewer
- Accounting Education - An International Journal
- Southwest AAA Conference
- Western Decision Sciences Institute Conference
IMA Campus Director for the University of New Mexico
Federated Schools of Accountancy Curriculum and Content Committee

Craig G. White
Chairperson American Taxation Association Family Tax Policy Committee
Ad hoc reviewer Accounting and the Public Interest
Faculty Advisor – Beta Alpha Psi – ASM Chapter
Faculty Advisor University of New Mexico Volunteer Income Tax Assistance Program
Attended ASM Hall of Fame Event
Member
- NM Society of CPAs Marketplace Committee
- American Accounting Association
- American Taxation Association
- NM Society of CPAs
Attended visiting scholar presentations
Curriculum & Program Committee department representative

Joni J. Young
Member of editorial boards of:
- Accounting Organizations and Society (2005-)
- Accounting History (1999-present)
- Accounting Historian's Journal (1995-present)
- Accounting and the Public Interest
- Accounting, Auditing and Accountability Journal
Ad hoc Reviewer for:
- Critical Perspectives on Accounting
- Scandinavian Journal of Management
Board of Directors of YDI
Strategic Development Committee YDI
Financial Oversight Committee YDI
Participated in Sarbanes-Oxley Forum 4-16-05 hosted by Grant Thornton
ASM Scholarship Committee
Chair, Accounting Lecturer Search Committee
Member of Faculty Senate
Attended Faculty Senate Retreat
Member Dean's Advisory Committee
LAT Portfolio Evaluation Group Member
Attended Accounting Career Fair
Attended ASM Career Fair
Beta Alpha Psi Advisory Board Member
Attended Beta Alpha Psi Advisory Board meeting
Attended Accounting Department Career Fair
Attended ASM Hall of Fame Event
Member of World Congress of Accounting Historians Scientific Program Committee
DEPARTMENT OF ORGANIZATIONAL STUDIES

Chair: Allen M. Parkman  Professor

Full-time Faculty: John Ackerman  Visiting Lecturer
Michelle Arthur  Associate Professor
Joe Champoux  Professor
Jan B. Corzine  Associate Professor
Ann Cunliffe  Associate Professor
Eddie Dry  Lecturer
Jacqueline Hood  Professor
Ron Johnson  Visiting Lecturer
Jeanne Logsdon  Professor
Helen J. Muller  Professor
James Porter  Associate Professor
Howard Smith  Professor
Doug Thomas  Assistant Professor
Harry Van Buren  Assistant Professor
John E. Young  Professor

Part-time Faculty: Monica Abeita  Don McCandless
Amanda Carrillo  Elaine Ramirez
Jens Deichman  Rebecca Rigney
Dan Faber, J.D.  Paul Sandoval, Ph.D.
Jose Garcia  Maggie Seeley
Howard Hickey  Doug Turner
John Kneen  Larry Waldman
Nikki Mann

SIGNIFICANT DEVELOPMENTS, SPONSORED ACTIVITIES
DEPARTMENT OF ORGANIZATIONAL STUDIES

- Hosted a reception in fall 2004 to thank DOS faculty and adjunct faculty for their contributions.
- Faculty searches 2004-2005: Search process begun in Fall 2004 included obtaining authorization for search (Dean & OEO), organizing and working with two 3-member and one 4-member search committees, interviews in April for one tenure-track Assistant Professor position in Business Law, interviews in May for one Lecturer position in General Business, and interviews in June for one Lecturer position in Business Ethics. Candidates interviewed resulted in hiring of Mr. John Ackerman, current Visiting Lecturer for the department, for the position of Lecturer in Business Ethics. The other two positions were placed on hold until further notice from Dean Crespy.
- Visiting Lecturers hired including extension/continuation of Dr. Paul Sandoval for 04-05.
The American Indian Business Association (AIBA) had a very successful, active year which included recruitment to Native American feeder schools, American Indian Higher Education Consortium National Conference participation, and an honor banquet held at the UNM Student Union Ballroom that involved tribal leaders, corporate sponsors, ASM faculty, students, and family. Professor Muller is faculty advisor.

John Ackerman continues with his work on Integridad, a statewide ethics consortium (education, for profit business, not-for-profit organizations, and government) focused on creating, supporting, and sustaining ethical cultures and conduct within all organizations. ASM's partnership with Integridad includes housing it in the Management Development Center at ASM, conducting most of the training, and sharing revenues generated by the consortium. Public launch is expected in the first quarter of 2006. John continues as the ASM liaison to the Annual NM Business Ethics Awards in which undergraduate classes gain experience in real-life ethical situations by assessing the potential recipients' qualifications for the Award.

Michelle Arthur continued as faculty advisor for the Society of Human Resource Management – ASM Chapter.

Ann Cunliffe was chosen to membership on the UNM Senate Graduate Committee and also serves on the Curriculum Subcommittee.

Jacqueline Hood continued her service on the UNM Academic Freedom and Tenure Committee, was elected to the Faculty Senate Operations Committee for 2005-2006, served on the UNM OEO Search Committee and the UNM Core Curriculum Committee, and continued her work with the Management Development Center doing consulting and training for profit, government, and not-for-profit organizations.

Jeanne Logsdon was instrumental in ASM's recognition in the Beyond Grey Pinstripes report, prepared by the World Resources Institute and The Aspen Institute Initiative for Social Innovation through Business as one of the top ten MBA programs that infuse environmental and social impact management into the classroom, activities and faculty research. She continues to serve as an ASM representative to the UNM Faculty Senate.

Helen J. Muller is the Faculty Advisor to the American Indian Business Association.

Allen Parkman is a member of the Teaching Allocation Subcommittee.

Paul Sandoval was the faculty advisor for Delta Sigma Pi and continued his work with small businesses and the Native American community for grant writing and economic development. He worked with Eddie Dry and Jaye Francis to write a Learning Center business plan for the Institute of American Indian Arts in Santa Fe. The plan was funded by the Kellogg Foundation for $16 million.

John E. Young served as a member of the Provost’s Areas of Marked Distinction Committee, the DOS Business Law faculty search committee, and Director of the UNM Small Business Institute.

SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE
DEPARTMENT OF ORGANIZATIONAL STUDIES

Jackie Hood was appointed the new Department Chair in summer 2005. In summer 2005, the Department began working on a revision of its strategic plan to emphasize to foster the following Departmental mission:
DOS prepares people to lead socially responsible organizations in diverse contexts through education, scholarship, and service, by focusing on:

- Personal, professional, and organizational development
- Ethical decision-making and behavior
- Business growth and economic development

**APPOINTMENTS, PROMOTIONS, SEPARATIONS**  
**DEPARTMENT OF ORGANIZATIONAL STUDIES**

- John Ackerman was hired in the area of Business & Society as a Lecturer.
- Nikki Mann was hired as a Visiting Lecturer
- Ann Cunliffe received tenure and promotion to Associate Professor in Spring 2004.
- Eddie Dry, Lecturer, retired from the Anderson Faculty after many years of service.

**INTELLECTUAL CONTRIBUTIONS**  
**DEPARTMENT OF ORGANIZATIONAL STUDIES**

**Michelle Arthur**  
**Publications**  


**Presentations**  

**Joseph Champoux**  
**Print Books/Monographs**  

"Our Feature Presentation: Management". Mason, Ohio: South-Western, a division of Thomson Learning, 2004 (52 pages).

"Our Feature Presentation: Organizational Behavior". Mason, Ohio: South-Western, a division of Thomson Learning, 2005 (52 pages).

**Electronic Books**  


Other Book/Electronic Book Contributions

Biz Flix film scene (20) analyses for the instructor’s manual to accompany C. Williams, Management, 3rd edition. Mason, OH: South-Western, part of the Thomson Corporation, 2005.

Journal Articles


Papers/Workshops Presented


Chair, “Technology Mediated Learning.” Academy of Management meeting, August 9, 2004, New Orleans, Louisiana.


Publications

“Our Feature Presentation: Management.” Mason, Ohio: South-Western, a division of Thomson Learning, 2004 (52 pages).


Ann Cunliffe

Refereed Academic Publications


Published Book Chapters


Conference Presentations

Academy of Management, New Orleans, LA 2004
Cunliffe, A. L. Constructing actionable knowledge through dialogue.
Cunliffe, A. L. A critical approach to teaching management.
Cunliffe A. L., & Downs. A. Transference, counter-transference and social poetics: The need for radical-reflexivity in research. Showcase Symposium
Invited Panel Member, Careers in critical management studies.
Organization Studies Workshop, Santorini, Greece. June 2005
Invited paper presentation: Manchester University, UK, November 2004
Evolution of Business Knowledge Seminar on Knowledge Management.
Paper Presentation: Discursive approaches to knowledge and research.

Editorial Positions

Associate Editor, Management Learning
Associate Editor, International Journal of Qualitative Research in Work and Organizations. (New journal)
Editorial Board, Organization Studies
Robert DelCampo
Publications

Conference Presentations


Invited Presentations

Eddie Dry
Project


Jacqueline Hood
Publications


Presentations


Jeanne Logsdon
Publications

"Sustainability Reporting: Road to Greater Accountability or Road to Nowhere?" In K. Strong & S. Welcomer (eds.), Proceedings of the Fifteenth Annual Meeting of the International Association for Business and Society, Jackson Hole, Wyoming, pp. 49-53. (With Patsy G. Lewellyn.)


"Impacts of Evolution of Consciousness on Organizational Functioning: A Contribution to Positive Organizational Scholarship." In P. Miners (ed.), Proceedings of the Eleventh Annual International Conference on Advances in Management, Orlando, FL. (With John E. Young.)

Academic Presentations


Helen J. Muller
Book Chapters

Allen Parkman
Book Chapters
"To What 'Marriage' Do We Have a Right," in Peter Lodrup and Eva Modvar, Editors, Family Life and Human Rights (Oslo, Norway: Gyldendal, 2004), 553-67.

Articles


Howard Smith
Refereed Articles
Delivering care that satisfies doctors, patients and the bottom line: How high performing providers reinvent practice. 24th National Symposium for Healthcare Executives, The University of Alabama at Birmingham, Sandestin, FL, August 3, 2004

Delivering care that satisfies doctors, patients and the bottom-line: The challenge and process of creative thinking. Tennessee Medical Group Management Association, Gatlinburg, TN, April 7, 2005.

**Douglas Thomas**

**Refereed Journal Articles**


**Presentations**


**Harry Van Buren**

**Publications**


**Paper Presentations and Proceedings**


**John E. Young**
Grants, Endowments, Sponsorships and Contributions

Book Chapters

Other Refereed Presentations


The Anderson Schools of Management and members of the FIT Department at The University of New Mexico hosted 25 Executive MBA students from a private university in Sao Paulo, Brazil. The students, from the Fundação Armando Álvares Penteado University (FAAP) spent two weeks at The Anderson Schools as part of an international exchange study. They took classes in Organizational Behavior and Diversity, Electronic Commerce, Management of Services and Mergers and Acquisitions, taught by Anderson Schools’ faculty members Dante Di Gregorio, Jackie Hood, Sul Kassicieh, Dwight Grant and Steve Yourstone. The students were accompanied by 2 professors.

Steve Walsh was on sabbatical. While on sabbatical he developed an electronic version of the Student and Faculty Mentor of the Student certification program. This program is the cornerstone of our faculty mentored student intern program. This certification is required by the New Mexico Small Business Program administration for our sole source grant. Some of the more than 20 companies supported by 2 to 3 students this year were: CyberWolf, Nickelbrand Software, Maas BioLAB, GLOlinear, Five & Dime General Store, Santa Fe Farmers Market, Consophic R & D, Alliance Pest Management, ATIP, ISTEC, Lujan Agency, PatchWork Systems, ATA, MSI and Digital Media and the Paradise Project. This resulted in more than 20 students and teachers receiving certifications.
Many research grants were generated by members of the faculty. They include:

**Sul Kassicieh**


**Andy Salazar**

Received 5 contract awards totaling over $150K for the Center on Entrepreneurship and Innovation including 2 from the Kauffman Foundation, NCIIA, SATOP and LANL National Collegiate Inventors and Innovators Alliance (NCIIA) (2004). A $16,400 grant was awarded to CEI for planning an expanded mechanical engineering/electrical engineering course entitled “Entrepreneurial Engineering.” (ME45/ECE495) Part of the funds will be used for construction of product prototypes by student teams in creating business plans.

**Steve Walsh and Craig White**

McCune Foundation Grant. A $50,000 grant was awarded to analyze UNM technologies and build business cases for these technologies.

**Steve Walsh**

A total of 5 internships totaling $150,000 were granted to MOT students at Sandia Microsystems Engineering and Scientific Applications Center, Sandia Tech Transfer and Zyvex.

**Significant Plans and Recommendations for the Near Future**

**Department of Finance, International and Technology Management**

The department intends to continue to strengthen its teaching and research activities, its strong ties with the technological innovation community to support company formation, high-wage job growth and economic development and with universities in other countries, especially Latin American countries.

**Appointments, Promotions, Separations**

**Department of Finance, International and Technology Management**

Professor Jana Hranaiova is spending the 2003-2005 academic years working at the Commodities Futures Trading Commission in Washington D. C. on an Inter-Agency Personnel Agreement contract.

Dwight Grant, Chair of the department, submitted his resignation to take a position with Thunderbird School of Business, in Phoenix, AZ. He will remain Chair through July 2005.

**Intellectual Contributions**
Leslie Boni
Publications:

Working papers, presentations, and academic research in progress:
"Analysts, Industries, and Price Momentum" (with Kent Womack) is under submission at the *Review of Financial Studies*. Was presented at the 2004 Western Finance Association meetings.

Raul De Gouvea
Publications


Program Presentations Refereed


Dante DiGregorio
Publications


Dwight Grant
Publications

Sul Kassicieh
Refereed Publications


**Book Chapters**


**Presentations:**

Papers in proceedings above were also presented but not listed here to reduce duplication


**Andy Salazar**

**Publications**


**John Schatzberg**

Publications


Presentations


**Steve Walsh**

Publications


Walsh, S., Wylde, J. etc. (2005) *The International RF MEM Road map, pp.122, MANCEF, Naples, Florida*


Book Chapters


Academic Journals


Professional Journals


Presentations
Invited Speaker: COMMERCIALIZATION OF Micro and Nano Technology FZK, Kqrlsuhe, Germany December 2004


Invited Speaker: “International Micro / Nano Roadmap” COMS 2004 Alberta, Canada August 2004

SERVICE ACTIVITIES
DEPARTMENT OF FINANCE, INTERNATIONAL AND TECHNOLOGY MANAGEMENT

Dante DiGregorio
Director of ASM International Student Exchange Programs
Co-Director of UNM-ITESM (Tecnológico de Monterrey) Aguascalientes summer program, Aguascalientes, Mexico, July 2004
  Instructor, Mergers & Acquisitions, UNM-Fundaçao Armando Alvares Penteado (Sao Paolo, Brazil) joint EMBA program, 2001-2004

Dwight Grant
Ad hoc reviewer for:

Sui Kassicieh
Director of Management of Technology Program, 1994-present.
  Chair, Policy and Planning Committee 2004-2005
  Presentations to local technology commercialization, economic development and entrepreneurship groups
  Board member of MaNCEF, Micro and Nano-technology Commercialization Educational Foundation, 1999-present.
  Board Member of the New Mexico Private Investors (Angel Network), 2002-present.

John Schatzberg
  Recent Administrative Assignments at UNM:
    ASM Faculty Chair – Fall 2003 to Summer 2005
    Chair of the Dean’s Advisory Review Committee – Fall 2003 to Spring 2005
    ASM Leadership Council – Fall 2004

Gautam Vora
Director, CFA Society of New Mexico 2004-todate.
  Program committee of Financial Management Association 2005
  President of the New Mexico chapter of the American Association of Individual Investors since 1998
  Director, Glenwood Hills Casa Grande Neighborhood Association, 2000 – to date.
  Computer Use committee 2004-2005
P & P Committee 2004-2005

Steve Walsh
Area Editor for the Journal of Microlithography, Micromachining and Microfabrication
Area editor in technology Entrepreneurship for Technovation, 2005
Management liaison: Sandia National laboratories selection of ASM Management of Technology program as their sole management school partner
Board Member and Chair of Education committee for the International Association of Management of Technology
Workshop developer and Chair for the International Small Business journal on “Entrepreneurial Commercialization of Micro and Nano Technology based enterprises” (obtained funds that funded the conference; two other University of New Mexico personnel funded)
Board Member: Executive Board Member of MANCEF – 2005
Board Member, R&D Magazine’s Micro Nano Magazine, 2005
Board of Reviewers for IEEE Transaction on Engineering Management, 2005
Board of Reviewers for TFSC – 2005
Area Reviewer for Journal of High Technology Management, 2005
for the R&D Management Journal. 2005
2005
Technology All Star 2005
MARKETING, INFORMATION AND DECISION SCIENCES

Chair: M.M. Weber (2004-05) Associate Professor (Weber)
William Bullers (2005-06) Professor (Bullers)

Full-time Faculty: Gerald Albaum Visiting Scholar
Kenneth Baker Associate Professor
Thomas Becker Lecturer
John Benavidez Lecturer
Ranjit Bose Professor
Stephen Burd Associate Professor
Don Cook Assistant Professor
Dwane Dean Assistant Professor
Nick Flor Assistant Professor
David Harris Lecturer
William Kime Lecturer
Howard Kraye Lecturer
Richard Reid Professor
Catherine Roster Assistant Professor
Laurie Schatzberg Associate Professor
Alex Seazzu Lecturer
Linda Shul Lecturer
Doug Stewart Assistant Professor
Jack Su Assistant Professor
Steven Yourstone Associate Professor

Part-time Faculty: William Epler Kerry Perry
Peter Jurkat Martine B. Peterson
Bob McCarty Stacy Sacco
Lana Merewether

SIGNIFICANT DEVELOPMENTS, SPONSORED ACTIVITIES
MARKETING, INFORMATION AND DECISION SCIENCES

SCH sufficiency coverage in operations management improved through the hiring of two assistant professors.
A revised MBA MIS concentration went into effect in August 2004.
Nick Flor was named Outstanding Teacher of the Year by UNM CASTL.
Doug Stewart co-authored a journal article “The Human Side of Mistake-Proofing” which won a 2004 Shingo Research and Publication Prize for Excellence in Manufacturing.

SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE
MARKETING, INFORMATION AND DECISION SCIENCES

SCH sufficiency coverage in marketing will improve through the hiring of an assistant professor for 2005-06, and an associate professor and professor for 2006-07.

APPOINTMENTS, PROMOTIONS, SEPARATIONS


MARKETING, INFORMATION AND DECISION SCIENCES

Doug Stewart, Ph.D., and Jack Su, Ph.D., joined the operations management faculty in August 2004.
Richard Ried, Ph.D., retired from operations management in December 2004.
Tom Becker and Linda Shu! were hired as full time lecturers in marketing for the 2004-2005 academic year under Form 5 exceptions.
William Kime and Howard Kraye were hired as full-time lecturers in operations management for the 2004-2005 academic year under Form 5 exceptions.
Dwane Dean, Ph.D. will join the marketing faculty in August 2005.
Linda Ferrell, Ph.D., and O.C. Ferrell, Ph.D., will join the marketing faculty in August 2006.
William Bullers will replace Mary Margaret Weber as Department Chair in August 2005.

INTELLECTUAL CONTRIBUTIONS
MARKETING, INFORMATION AND DECISION SCIENCES

Gerald Albaum

Books
Fundamentals of Marketing Research. Sage Publications, 2005 (with S. Smith)


Monographs

Articles


“Are There Central Tendency Errors in Simple Rating Scales?” Eleventh Cross Cultural Research Conference, Cancun, Mexico, December, 2005 (with R. Rogers, C. Roster, and J. Yu)


**Papers Delivered (Not in Proceedings)**


**Other**

International Business and Economy Conference, 2004 (San Francisco, CA.): program chair and presenter of paper

American Marketing Association Winter Educators’ Conference, 2004 (Scottsdale, Arizona): discussant

International Business and Economy Conference, January 2005 (Honolulu, HI): conference chair

Academy of Marketing Science World Marketing Congress, July, 2005 (Muenster, Germany): track co-chair

**Ranjit Bose**

**Refereed Journals**


**Refereed Proceeding Publications**

“Challenges in Integrating Web Services into E-Commerce Applications,” (with V. Sugumaran), Proceedings 2004 Annual Meeting of the Decision Sciences Institute, November 20-23, Boston, Massachusetts, pp. 7961-7966.

**Conference Presentations**


**William Bullers**

**Refereed Proceedings (Peer Reviewed)**

**Stephen Burd**

Books


**Dean, Dwane H.**

Journal Articles

Presentations and Conference Proceedings

**Nick Flor**

Refereed Journal Publications


Book Chapters

Refereed Conference Publications


Invited talks (after critical review)

Conference talk after critical review prior to presentation


Howard Kraye
Presentations
"Entrepreneurial Management" presented twice through Technology Ventures Corporations Education Program, 2004-2005
"Why Come to Anderson” presented to the top 10% of high school students in Las Cruces, NM sponsored by the UNM Recruitment Services, 2005

Catherine Roster

Refereed Journals


Invited Papers (Non-Referreed)

Refereed Proceedings

Laurie Schatzberg

Conference Proceedings

Journal Articles


Douglas Stewart

Journal Articles

Conference Proceedings and Presentations


Jack Su
Conference Presentations

Mary Margaret Weber
Refereed Journals

Refereed Proceedings

Steven Yourstone
Publications (Journals)

Publications (Conference Proceedings)

Presentations
“Service System Failures”, Decision Sciences Institute National Meeting, November 2004, Boston, MA.
SCHOOL OF PUBLIC ADMINISTRATION

Submitted by Kaye Summerhayes – Dept. Administrative Assistant

Director Ken Baker

Full-time Faculty Santa Falcone
Karen King
Bruce Perlman
Zane Reeves
Mario Rivera
Roli Varma

Part-time Faculty Mark Allen
Glenn Kuswa
David Soherr-Hadwiger

SIGNIFICANT DEVELOPMENTS
Discussions begun with Office of the Provost about separation of the School of Public Administration (SPA) from the Anderson Schools of Management (ASM) and inclusion of SPA in new initiative to serve public sector.
Granted postponement of accreditation self-study year to 2004 – 2005 school year by National Schools of Public Affairs and Administration (NASPAA).
Piloting of a new methods orientation course for core curriculum in program and project planning and evaluation.

SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE
Deciding on reporting and administrative arrangements for SPA after separation from ASM with Office of the Provost.
Development of SPA goals, objectives, and organizational growth proposal consonant with decision of Office of the Provost on reporting arrangements.
Conduct review of existing concentrations and supporting curriculum to improve fit with new organizational arrangements and goals.
Conduct faculty retreat to examine SPA goals and organization and to develop accreditation strategy.
Production of self study for NASPAA.

APPOINTMENTS, PROMOTIONS, SEPERATIONS
Assistant Professor, Karen King resigned from SPA faculty effective 5/04.
Associate Professor, Santa Falcone began year long sabbatical in semester 2.
INTELLECTUAL CONTRIBUTIONS

Santa Falcone
Publications


Bruce Perlman
Publications


Mario Rivera
Publications


Roli Varma

Publications


OUTSIDE PROFESSIONAL ACTIVITIES

Santa Falcone

Papers

Bruce Perlman

Papers


Program Evaluator, Women’s Economic Self Sufficiency Team Corp. (WESST Corp), JOLI Micro-enterprise Development Grant, United States Department of Health and Human Services, Albuquerque New Mexico, December, 2002 to present.

Consulting
Management Consultant, City of Albuquerque, Environmental Health Department, Metropolitan Medical Response System, May, 2004 to present.


Professional Service
Member, Editorial Board, Public Performance and Management Review, May 2003 to present.

Member, Executive Board, Section on Public Administration Research, American Society for Public Administration, May 2002 to present.

Member, President’s Task Force on International Issues, American Society for Public Administration, September, 1992 to present.

Mario Rivera
Consulting
Consultant Analyst, Legislative Finance Committee, New Mexico State Legislature, for projects involving performance budgeting, measurement, and reporting, 2003-to present.

Educational Consultant, New Mexico Retail Association, 2001-present.
Professional Service
Appointee, Committee on Peer Review and Accreditation NASPAA, 1997 to present
Appointee, Editorial Boards, Policy and Management Review, PA (Public Administration) Times, and Problems and Perspectives in Management;

Zane Reeves
Consulting


Consultant, Dine College Presidential Search Committee, Tsaile, 2002-2003;

Trainer, Training the Trainers in Performance Evaluation, Navajo Department of Personnel Management, Scottsdale, AZ, 2003;


Advisory Hearing Officer, Navajo Nation, tribal grievance panel in seven disciplinary grievance hearings, 1998-2003.


Personnel Hearing Officer, City of Albuquerque, conducted over fifty hearings involving disciplinary appeals for sexual harassment, 1987 to present.


Roli Varma
Papers


“Immigrants’ Adaptation” Annual Meeting of Western Social Science Association (WSSA), Salt Lake City, Utah, 2004, April 21–24.


With D. Kapur “Cross-Ethnic Differences in Undergraduate Women’s Preference for Information Technology” National Science Foundation's ITWF and ITR/EWF Principal Investigator Conference, Albuquerque, New Mexico, Invited by Dr. Caroline Wardle, National Science Foundation, 2003, October 26–28.

“Mobility of Asian Indian Scientists/Engineers between the United States and India”, Annual Meeting of Society for Social Studies of Science (4S), Atlanta, Georgia. 2003, October 15–18.


**Professional Service**

External Reviewer:  
Organizing Partner, *XXIX All India Sociological Conference, Udaipur, India, 2003.*


Member, NASTS (National Association of Science, Technology and Society), since 2003.  
Member, ASEE (American Society for Engineering Education), since 2001.

Member, (Association of American University Professors), since 1999.
Member, IEEE (Institute of Electrical and Electronics Engineers), since 1999.
4S (Society for Social Studies of Science), since 1994

Member, IEEE International Conference on Advanced Learning Technologies (ICALT), 2004

Member, India Association of New Mexico, Albuquerque, NM, since 2000.

OUTSIDE SPONSORED RESEARCH

Bruce Perlman

“Program Evaluation for Techonex Hardmark Telecommunications Implementation Grant”, United States Department of Labor, October, 2003 to present $66,000

Roli Varma
(Principal Investigator) with D. Kapur, “Cross-Ethnic Differences in Undergraduate Women’s Preference for Information Technology” Information Technology Work Force Program, National Science Foundation, Grant EIA-0305898, 1/9/03 to 8/31/05, $344,392.

“Cross-Ethnic Differences in Undergraduate Women’s Preference for Information Technology” Research Experiences for Undergraduates Program, National Science Foundation, Grant EIA-0305898, 1/9/03 to 8/31/05, $6,000.

“Out of Mix: Native Americans in Information Technology” The Alfred P. Sloan Foundation, Grant B2002-68, 1/1/03 to 12/31/04, $40,000.

“New Immigrants: Science and Engineering in the United States” Science and Technology Studies Program, National Science Foundation, Grant SES-0136467, 6/1/02 to 5/31/05, $79,766.

“New Immigrants: Science and Engineering in the United States” Research Experiences for Undergraduates Program, National Science Foundation, Grant SES-0328787, 6/1/02 to 5/31/05, $6,000.
UNIVERSITY OF NEW MEXICO ART MUSEUM

Annual Report
2004-2005

Linda W. Bahm
Director
November 10, 2005
1. Significant Developments

The leadership of the University of New Mexico Art Museum passed to its ninth director (plus three interim directors) in the 42 years since the Museum opened October 10, 1963. Linda W. Bahm began as director on July 1, 2004. Michele Penhall joined the staff in November 2004, the Museum’s sixth curator of prints and photos. These new appointments to senior positions were an added dimension of an extremely busy year filled with projects, increasing demands from the changing University community, and new initiatives.

**Grants and donations:** The Museum was awarded a grant from the National Endowment for the Arts for a conservation survey of its collection of nineteenth-century bound volumes, which include albums of photographs and prints as well as illustrated books. Book conservator Jo Anne Martinez-Kilgore conducted the survey in spring 2005.

Negotiations that had gone on for sixteen months were resolved in April 2005 by new Interim Provost Reed Dasenbrock, who pledged matching salary funds, enabling UNM to accept a $475,000 5-year Stockman Family Foundation grant for the operation of the Museum’s paper conservation lab.

The Museum received an American Association of Museum (AAM) Governance Survey grant. Upon subsequent acceptance into the AAM accreditation program and upon advice of AAM, the governance survey was cancelled as redundant.

**Construction projects** took a great amount of staff time and attention this year, and necessitated temporary closure of the galleries. In summer 2004, the art carpets in the Center for the Arts foyer were replaced by terrazzo floors designed and overseen by artist Joan Weissman. Because of the corrosive dust from these installations, the Museum was closed for several days in August. The galleries were again closed, this time for five weeks in May and June 2005 during the installation of a fire suppression system. Emergency lighting was installed throughout the facilities during December 2004, but it was not necessary to close the facility during this construction.

**Staff and administration changes,** both in the Museum and in the University’s central administration, made the year more complex. After a national search, Michele Penhall was hired as Curator of Prints and Photos. Conservator Laura Downey Staneff left the Museum to pursue private practice in Colorado. David Stuart, Associate Provost for Academic Affairs to whom the Museum director had reported for a number of years, retired. Responsibility for the Museum passed temporarily to Richard Howell, Special Assistant to the Vice Provost, and then to Richard Holder, Deputy Provost for Academic Affairs. Other changes in upper administration and in University policies and procedures—the resignation of the Provost; new appointments in the office of Institutional Advancement, Administration, and the UNM Foundation; a 3-year term appointment for Dean of the College of Fine Arts; the extensive remodel of Scholes Hall with attendant requests for art to be installed in the offices of the President and Vice Presidents; and the roll-out of the new Banner financial reporting system—all provided ample opportunities for the Museum staff to demonstrate flexibility, creativity, and patience in the face of fundamental institutional change.

Regardless of these sometimes difficult external circumstances, our exhibitions and programs this year were enthusiastically received by faculty, students, and other visitors. Two exhibitions from the permanent collection—*Face and Figure* and *Flora et Fauna*—presented works never before exhibited, as well as some old favorites in strikingly new configurations. *Vietnam Visions* and *Cu Chi, Vietnam* were part of a larger project to revisit the Vietnam War and brought a host of first-time visitors to the Museum. *Art, Culture, Place* was a highly effective educational project, a fresh look at the interplay of diverse elements seen in the art we call “Southwestern.” At the Jonson Gallery, *Reservation Stories—Photographs by Zig Jackson* drew enthusiastic crowds for programs including a presentation by the artist, while *Jaune Quick-to-See Smith: Made in America* brought a record number of tours and visitors to the Art Museum.

**Collaboration with other campus entities** took many forms this year. The Director served on the planning committee for the UNM Health Sciences Center Sculpture Garden of Healing and on the Museum Studies advisory committee, taking over as chairperson in June 2005. She also served as chairperson of the Art on
Campus committee. Museum staff worked diligently to accommodate a record number of requests for art loans to public spaces on campus.

Staff also worked intensively with two Vietnam veterans to present the Vietnam War exhibitions mentioned above. In-depth planning and efforts to raise funds for an exhibition *Art Lessons from the Holocaust—Friedl Dicker Brandeis and the Children of Terezin*stadt* were begun with the College of Education development officer and art educator/therapist Linney Wix. Working with Music Department professor Christopher Shultis, we presented a sound/art installation *The Green Zone* in conjunction with the UNM Composers Symposium in spring 2005. All Museum senior staff were involved in planning and implementation of the “Students as Curators” project: working with three Art Department graduate students in the planning and production of an exhibition *Allegorical Constellations—Works by Frederick Sommer* (Study Gallery, September 2005). This collaboration is a prototype for a Museum program to encourage students to develop museum exhibitions as part of a Museum Studies concentration.

This year saw the loss to the art world of Van Deren Coke, founding director of the University Art Museum, of complications following surgery, on July 11, 2004, in Albuquerque at the age of 83. Born on July 4th, 1921, in Kentucky, Coke was a legendary figure in American photography—a gifted professor in art history, a seminal collector, curator, scholar of photography, and recipient of numerous national and international awards. A visionary, “Van encouraged his students to think of themselves as artists on a par with painters, sculptors and printmakers and to adopt many of the same crystal theories, methods of analyzing pictures, and so on” (Bill Jay, professor emeritus, Arizona State University). A memorial service was held in Keller Hall, Center for the Arts, on September 18, 2004; an exhibition, *Van Deren Coke (1921-2004) His Life in Photograph*, honoring his life and art, was presented in our Van Deren Coke Gallery.
2. Plans and Recommendations

The Museum’s first priority task in 2005-2006 will be beginning the process of receiving professional institutional accreditation—completion of the American Association of Museum’s self study. This process will involve all Museum staff, our support group the Friends of Art, and, ultimately, our communities—administration, students, visitors, and others. The self study is designed to be more than the assembling of information and pertinent documents: it is meant to create a heightened sense of awareness of the Museum’s strengths and mission within our communities. The self study is rigorous and time-consuming; the benefits of accreditation, and with it recognition of our high professional qualifications, are well worth the considerable investment of time and effort we will need to make.

The Museum director is chair of the Museum Studies Advisory Committee this year; the main focus will be on content of the program, identifying courses and faculty, and on establishing procedures that will enable the program to grow and move most efficiently into the future.

Working with the UNM Foundation and the Office of Research Administration, we will be actively seeking funding for several projects. Proposed exhibitions and programs for which special funding is required are a Patrick Nagatani retrospective exhibition and catalog; an exhibition of newly digitized images from Bolivia and Peru, A Photographic Tale of Two Cities; Art Lessons from the Holocaust: Friedl Dicker Brandeis and the Children of Terezin, an exhibition and related programs; and a major Raymond Jonson retrospective and monograph. In addition, we are working with the Latin American Institute on a proposed exhibition of paintings by Pablo O’ Higgins. Funds will also be solicited for conservation of the painting collections and for a new Museum lighting system to replace the current, antiquated system for which replacement parts are no longer available. Additionally, an effort is on-going to secure a permanent staff line for the Museum educator position and program currently funded through grants from the Institute of Museum and Library Services and the City of Albuquerque Urban Enhancement Fund.

Other major efforts on the horizon include acquisition of the third-floor Center for the Arts space to be relinquished by the Fine Arts Library when it is relocated to the Architecture Building, beginning construction in fall 2005; working with the UNM Foundation and Vice President for Institutional Advancement on a new staff position for Museum development; and replacing existing, outdated collections management hardware and software.
3. Staff Appointments

Camille Moore  
Michele Penhall  
Katherine Pomonis  
Augustine Romero

June 16- August 11, 2004  
November 8, 2004  
December 6, 2004  
August 30, 2004

4. Staff Separations

Camille Moore  
Laura Downey Stanoff

June 16, 2004-August 11, 2004  
December 3, 2001-August 13, 2004
5. Achievements/Products

A. Exhibitions

Art Museum (all galleries empty for fire system installation May 23-June 10, 2005)

**Upper Gallery**

<table>
<thead>
<tr>
<th>2004</th>
<th>Taos Modernists</th>
</tr>
</thead>
</table>
| June 8-August 22 | Curator: Kathleen Howe; Guest curator: David Witt |}

<table>
<thead>
<tr>
<th>2005</th>
<th>Art, Culture, Place: Visual Traditions of the Southwest</th>
</tr>
</thead>
</table>
| September 10-December 12 | Curator: Kathleen Howe; Guest curator: Joyce Szabo |}

<table>
<thead>
<tr>
<th>2005</th>
<th>Jaune Quick-to-See-Smith: Made in America</th>
</tr>
</thead>
</table>
| February 6-May 15 | Traveling exhibition           |}

<table>
<thead>
<tr>
<th>June 28-September 25</th>
<th>Looking Back at the Present: Photography and New Media at UNM</th>
</tr>
</thead>
</table>
| Curator: Michele Penhall |                                    |}

**West Gallery**

<table>
<thead>
<tr>
<th>2004</th>
<th>Taos Modernists</th>
</tr>
</thead>
</table>
| June 8-August 22 | Curator: Kathleen Howe; Guest curator: David Witt |}

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**Van Deren Coke Gallery**

<table>
<thead>
<tr>
<th>2004</th>
<th>Gifts from the Vernon Nikkel Collection</th>
</tr>
</thead>
</table>
| June 8-August 22 | Curator: Linda Bahm |}

<table>
<thead>
<tr>
<th>September 10-December 12</th>
<th>Van Deren Coke (1921-2004) His Life in Photography</th>
</tr>
</thead>
</table>
| Curator: Lee Savary, Guest Curator: Peter Walch |}

<table>
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<tr>
<th>2005</th>
<th>New World’s Old World: Photographic Views of Ancient America</th>
</tr>
</thead>
</table>
| February 6-May 15 | Curator: Christopher Jones |}

<table>
<thead>
<tr>
<th>June 28-September 25</th>
<th>Eliot Porter’s Natural World</th>
</tr>
</thead>
</table>
| Curator: Michele Penhall |                                    |}

**Study Gallery**

<table>
<thead>
<tr>
<th>2004</th>
<th>Kathleen Jesse: War Paintings for the Nursery</th>
</tr>
</thead>
</table>
| April 13-July 25 | Curator: Lee Savary |}

<table>
<thead>
<tr>
<th>August 3-October 3</th>
<th>&quot;Natural&quot; Africa: Photographs by Ian van Coller</th>
</tr>
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<tbody>
<tr>
<td>Curator: Lee Savary</td>
<td></td>
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</tbody>
</table>
October 15-January 16, 2005  
Cu Chi, Vietnam 1968-1969: Photographs by Herbert Lotz  
Curator: Lee Savary and Bonnie Verardo

2005  
January 25-March 20  
Whatever It Takes: Works by Joyce Neimanas  
Curator: Michele Penhall

March 29-May 22  
The Green Zone: An Installation by Ellen Band  
Curator: Lee Savary, Guest Curator: Ellen Band

Lower Gallery  
2004  
August 3-October 3  
Face and Figure  
Curators: Bonnie Verardo and Lee Savary

October 15-January 16, 2005  
Vietnam Visions: Art from the National Vietnam Veterans Art Museum  
Curators: Robert “Chip” Ware and Lee Savary

2005  
January 25-May 22  
Flora et Fauna: Selections from the Permanent Collection  
Curators: Lee Savary and Bonnie Verardo
<table>
<thead>
<tr>
<th>Date</th>
<th>Exhibition Title</th>
<th>Curators</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 21-August 20</td>
<td><em>Works from One Year: 1965 Lithographs by Raymond Jonson, Clinton Adams, Garo Antreasian, and Elaine DeKooning</em></td>
<td>Curator: Robert “Chip” Ware, Guest Curator: Carol Cheh</td>
</tr>
<tr>
<td>May 21-August 20</td>
<td><em>The Transcendental Painting Group in Taos: Emil Bisttram, Florence Pierce, Horace Towner Pierce, Robert Gribbroek, Dane Rudhyar</em></td>
<td>Curator: Robert “Chip” Ware</td>
</tr>
<tr>
<td>May 21-August 20</td>
<td><em>Erika Adams: Migration</em></td>
<td>Curators: Erika Adams and Robert “Chip” Ware</td>
</tr>
<tr>
<td>September 3-October 1</td>
<td><em>Incoming: New Graduate Students</em></td>
<td>Curator: Robert “Chip” Ware</td>
</tr>
<tr>
<td>September 9-October 1</td>
<td><em>Moving On: New Work by Raymond Jonson’s Students</em></td>
<td>Curator: Robert “Chip” Ware</td>
</tr>
<tr>
<td>October 15-January 7</td>
<td><em>Painting over Vietnam: Raymond Jonson and War, 1965-1975</em></td>
<td>Curator: Robert “Chip” Ware</td>
</tr>
<tr>
<td>October 15-January 14</td>
<td><em>Vietnam Visions: Art from the National Vietnam Veterans Art Museum</em></td>
<td>Curator: Robert “Chip” Ware</td>
</tr>
<tr>
<td>2005</td>
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<tr>
<td>January 21-March 4</td>
<td><em>Reservation Stories: Photographs by Zig Jackson</em></td>
<td>Curator: Robert “Chip” Ware</td>
</tr>
<tr>
<td>January 28-August 12</td>
<td><em>Raymond Jonson Cycles</em></td>
<td>Curator: Robert “Chip” Ware</td>
</tr>
<tr>
<td>March 18-May 6</td>
<td><em>11th Annual Juried Graduate Student Exhibition</em></td>
<td>Curator: Robert “Chip” Ware</td>
</tr>
<tr>
<td>May 20-August 19</td>
<td><em>Raymond Jonson: Critical Reflections</em></td>
<td>56th Annual Summer Exhibition</td>
</tr>
<tr>
<td>May 20 – August 19</td>
<td><em>Matthew Lutz: Shadows and Portraits</em></td>
<td>MFA Exhibition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Curator: Robert “Chip” Ware</td>
</tr>
</tbody>
</table>
B. Print Study Room

During the 2004-2005 year, 991 individual visits were made to the UNM Art Museum Print Study Room. Visitors to the Print study Room included scholars from the City University of New York; the Museum of Fine Arts, Boston; and Ohio Wesleyan University. There were 78 group or class visits to the Print Room, including classes from the UNM Art and Art History Department, the Tamarind Institute, the UNM Museum Studies program, and UNM Native American Studies. Institutions outside of UNM made use of Print Room facilities as well, such as Albuquerque T-VI and the Art Center Design College. Local public schools, such as Jackson Middle School and El Dorado High School, also included visits to the Print Room during their field trips to the UNM Art Museum.
C. Programs, Receptions, and Other Special Events

-Overall attendance to the main UNM Art Museum decreased slightly from last year's totals. The Museum was closed from May 20 – June 26, 2005, for the installation of a fire suppression system, and that month of closure accounted for an 8% reduction in open hours to the public. The resultant decrease in overall attendance was only down 4% from last year's total. However, during the year, there was a dramatic increase in class tours to the museum.

- Total attendance at the UNM Art Museum was 27,920, a slight decrease from last year's total of 29,793 due to a 146-hour reduction in hours open to the public.
- Total attendance at the Jonson Gallery was 2,502, a slight decrease from last year's 3,039.

Total attendance is broken up into several categories below: public and private school tours, UNM class tours, community organization tours, and finally, Tuesday Talks, events, and opening reception attendance.

UNM Art Museum Summary
The Museum hosted 25 public programs and toured 141 private and public school classes through our exhibitions. Class and community tours more than doubled this year, due to the Institute of Museum and Library Services, Learning Opportunities grant and the addition of educator Sara Otto-Diniz and several education student and staff members. The decrease in walk-in general attendance reflects the percentage of decreased hours. The 25% decrease in attendance at Tuesday talks, events, and opening reception attendance reflects the fact that we hosted 6 less events this year and did not have a public opening reception for our main gallery exhibition Jaune Quick-To-See Smith: Made in America. Program highlights for the year were our well-attended Tuesday talks; the Vietnam reception, talks, panels, and films; the Jaune Quick-To-See Smith artist’s talk, the Van Deren Coke memorial reception; the Joyce Nielsen’s artist's talk, and the Ed Ranney talk. All of these programs generated audiences of 100 or more.
OCTOBER 2004
1  Montezuma Elementary Tour 25
  Ruidoso Elementary Tours 19
12  Bandelier Elementary Tour 30
  UNM Class Tour 4
  Tuesday Talk, Behind the Scenes: Museum Education 30
13  Longfellow Elementary Tour 22
15  Opening Reception: Vietnam Visions 134
19  Home-school Class Tour 9
  Tuesday Talk, Herb Lotz: Cu Chi Vietnam 60
20  Cochiti Elementary Tours (2) 49
21  Bel Air Elementary Tour 19
22  ARC of New Mexico Tour 8
  UNM Class Tour 9
26  UNM Class Tour 3
  Emerson Elementary Tours (3) 75
  Tuesday Talk, Chip Ware: Art, Culture, Place 20
27  UNM Class Tour 11
  Albuquerque Academy Class Tour 20
  Albuquerque High Advanced Photo Class Tour 14
  Painted Sky Elem. Tour 19

NOVEMBER 2004
3  UNM Class Tour 13
  Armijo Elementary Tour 30
9  Tuesday Talk, Vietnam Visions, Film screening 22
10  T-VI Class Tour 9
    UNM Class Tour 13
    Reginald Chavez Elem. Tour 30
    East San Jose Elem. Tour Special Ed. 10
11  Los Ranchos Elem. Tour 12
12  Tuesday Talk, Kathleen Howe: Robert Capa 33
    Eubank Elementary Tours (5) 140
16  Lowell Elementary Class Tours (2) 65
    Tuesday Talk, Vietnam Visions, Panel Discussion 125
17  Armijo Elementary Tours (2) 49
18  UNM Class Tour 13
19  Reginald Chavez Elementary Tour 35
20  FOA Shop Sale 15
30  T-VI Class Tour 10

DECEMBER 2004
1  UNM Print Study Room Class 11
    Jefferson Middle School Tour 43
    Sierra Vista Elementary Tours (2) 80
2  Chamiza Elementary Tour 25
    Ofate Elementary Tours (2) 54
3  Griegos Elementary Tour 26
    McCollum Elementary Tour 24
7  Painted Sky Elementary Tour 27
    Class Tour 25
8  Lowell Elementary Tours (2) 60
    Eubank Elementary Tour 40
9  21st Century Academy Tour 35
    21st Century Academy Tour 33
10  Longfellow Elementary Tours (3) 50

JANUARY 2005
27  Inez Elem. Tour 16

FEBRUARY 2005
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tr>
<td>2</td>
<td>Bellhaven Elementary Tour</td>
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<td>8</td>
<td>Morning Teachers Advisory Committee Tuesday Talk. Evening for Educators</td>
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<td>9</td>
<td>Bellhaven Elementary Tour</td>
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<td>10</td>
<td>UNM Class Tour</td>
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<tr>
<td>11</td>
<td>Private Reception: <em>Jaune Quick-To-See Smith</em></td>
</tr>
<tr>
<td>14</td>
<td>St. Pius High School Tour</td>
</tr>
<tr>
<td>15</td>
<td>Sandia Prep Class Tour Tuesday Talk. <em>Jaune Quick-To-See Smith</em></td>
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<td>22</td>
<td>Tuesday Talk: Michele Penhall</td>
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<tr>
<td>22</td>
<td>Gale Memorial Lecture</td>
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<td>24</td>
<td>UNM International Students Tuesday Talk. <em>Jaune Quick-To-See Smith</em></td>
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<td>25</td>
<td>Art In the School Tour</td>
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<td>Los Padillas Elementary Tours (2)</td>
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**MARCH 2005**

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<td>Youth Development, Inc. Tour</td>
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<td>Bandelier Elem. Tour</td>
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<td>2</td>
<td>Lavaland Elem. Tours (2) T-VI Class Tour</td>
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<td>4</td>
<td>UNM Class Tour T-VI Class Tour</td>
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<tr>
<td>8</td>
<td>Tuesday Talk: Joyce Neimanas, artist's talk</td>
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<td>UNM Class Tour</td>
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<td>Los Ranchos Elem. Tour</td>
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<td>Adobe Acres Elem. Tours (2)</td>
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<td>St. Pius Tours (3)</td>
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<td>Bellhaven Elementary Tours (2)</td>
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<td>22</td>
<td>Tuesday Talk: Ed Ranney, <em>New World's Old World</em></td>
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<td>24</td>
<td>UNM Print Study Room Class</td>
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<td>28</td>
<td>Coffee Social for artist Leandro Katz, <em>New World's Old World</em></td>
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<td>29</td>
<td>Tuesday Talk: Leandro Katz</td>
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<td>Chaparral Elementary Tour</td>
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<td>YMCA Tour</td>
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**APRIL 2005**

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<tr>
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<td>Menaul School Tour Tuesday Talk. Ellen Band: <em>Green Zone</em></td>
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<td>Bandelier Elementary Tours (3) Tuesday Talk: Evening for Educators</td>
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<td>Tuesday Talk: Kathleen Jesse</td>
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<td>Tuesday Talk. Joyce Szabo: Native American Art</td>
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<td>Cuba H.S. Tours (2)</td>
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<td>Youth Development, Inc. Tour</td>
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<td>MAY 2005</td>
<td>Adobe Acres Elementary Tours (3)</td>
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<td>Tuesday Talk: Prague Exchange Students</td>
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<td>Gale Memorial Lecture: Vasulka/Laura Addison</td>
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<td>Jackson Middle School Tours (2)</td>
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<td>Horizon Academy Southwest Tours (6)</td>
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<td>FOA Brunch Annual Meeting</td>
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<td>Mountain Mahogany Elementary Tour</td>
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<td>Los Padillas Elementary Tours (3)</td>
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<td>Jonson Gallery</td>
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<td>21</td>
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</tbody>
</table>
March 2005
1 Beverly Singer and Charlene Teeters talk 41
23 Friends of Art meeting 18
25 11th Annual Juried Grad show opening 115

April 2005
7 Jess Dunn graduate review 10
UNM drawing class (Vera Sprunt) 18
11 UNM painting class (Michael Cook) 27
14 Eloisa Guanlao performance (Ana Mendieta Prize) 12
15 Museum Development Group meeting 5
20 Friends of Art meeting 14
21 Jennifer Nehrbass talk (Florence Henri Prize) 10
22 John Nichols reading 45
25 Jess Dunn talk (FOA Prize) 27

May 2005
12 Matthew Lutz talk 17
20 Critical Reflections Opening Reception 47
26 Caleb Smith talk 50

June 2005
20 Kinder Care tour 20

Hours open to the public: 1298
Attendance:
General 1235
Class visits 297
Gallery talks, receptions, and other events 970
Total: 2,502
D. Publications

Art Museum
- Art, Culture, Place (Raymond Jonson) 3-fold gallery guide, October 2004
- Jaune Quick-to-See Smith: Made in America 3-fold gallery guide, March 2005

Jonson Gallery
- Reservation Stories: Photographs by Zig Jackson, exhibition catalog, January 2005, 16 pages, 17 black and white reproductions of the artist's photographs
- 11th Annual Graduate Student Exhibition, exhibition catalog, March 2005, 32 pages, 46 black and white photograph illustrations
Activities:

_Jaune Quick-to-See Smith: Made in America_, special opening reception, Friday, February 11, 2005

Annual brunch and tour at the UNM Art Museum, Saturday, May 7, 2005

Best Friends Award, 2005:
Allene and Walter Kleweno

Awards given:
Art History: Lara Evans, Native American Art History
Art Studio: Jess Dunn

Board 2004-2005:
Becky Brown, President
Barbara Witemeyer, Vice President
Lerke Foster, Secretary
Joyce Szabo, Treasurer

Board Members:
Sharon Bruce
Kathy Cranage
Christina Fenton
Margot Geist
Jann Kindel
Candice Lichtenfels

Ex officio:
Linda Bahm
Michele Penhall
Chip Ware
Art Museum
Funding agent: Stockman Family Foundation Trust
Title: Art Restoration and Conservation
Dates: July 1, 2004-June 30, 2005
Amount: $95,000
Project Director: Linda Bahm

Funding Agent: Michael Mattis & Judy Hochberg
Title: Photography Acquisitions
Dates: July 1, 2004-June 30, 2005
Amount: $12,000
Project Director: Linda Bahm

Funding Agent: Eric Alterman
Title: Photography Acquisitions
Dates: July 1, 2004-June 30, 2005
Amount: $25,000
Project Director: Linda Bahm

Funding Agent: Donald Lappé
Title: Photography Acquisitions
Dates: July 1, 2004-June 30, 2005
Amount: $19,000
Project Director: Linda Bahm

Funding Agent: Thomas Southall
Title: Photography Acquisitions
Dates: July 1, 2004-June 30, 2005
Amount: $1,000
Project Director: Linda Bahm

Funding Agent: National Endowment for the Humanities
Title: 19th Century Bound Volumes Conservation Assessment
Dates: January 1, 2005-June 30, 2006
Amount: $16,640
Project Director: Linda Bahm

Jonson Gallery
Funding Agent: Various Donors
Title: Exhibits and brochures
Dates: July 1, 2004-June 30, 2005
Amount: $280
Project Director: Chip Ware

Funding Agent: Donation box
Title: Exhibits and brochures
Dates: July 1, 2004-June 30, 2005
Amount: $175
Project Director: Chip Ware
Funding Agent: Dan Noyes
Title: Exhibits and brochures
Dates: July 1, 2004-June 30, 2005
Amount: $120
Project Director: Chip Ware

Funding Agent: New Mexico Council on Photography
Title: Support for Zig Jackson exhibition and catalog
Dates: December 23, 2004
Amount: $3590
Project Director: Chip Ware

Funding Agent: Art Books West
Title: Exhibits and brochures
Dates: February 23, 2005
Amount: $180
Project Director: Chip Ware

Funding Agent: Judith Rothschild Foundation
Title: Support for Conrad House Exhibition
Dates: February 17, 2005
Amount: $15,000
Project Director: Chip Ware

Funding Agent: Sheilah Garcia, Garcia Motor Group
Title: Conrad House exhibition and catalog
Dates: June 2, 2005
Amount: $10,000
Project Director: Chip Ware

Funding Agent: GAA
Title: Support for 11th Annual Juried Graduate Student exhibition and catalog
Dates: March 18-May 6, 2005
Amount: $300
Project Director: Chip Ware

Funding Agent: Art Department
Title: Work study subsidy
Dates: August, 2004-May, 2005
Amount: $2,700
Project Director: Chip Ware

Funding Agent: New Mexico Humanities Council
Title: Support of Zig Jackson talk
Dates: February 1, 2005
Amount: $736
Project Director: Chip Ware

Funding Agent: Lauren Harper
Title: Exhibits and brochures
Dates: April 21, 2005
Amount: $21,791
Project Director: Chip Ware
7. Professional Activities

Linda W. Bahm
Member, UNM Dept. of Art/Art History Advisory Committee
Chair, UNM Campus Art in Public Places Committee
Member, UNM Research Administrators Network
Member, UNM Museum Studies Committee
Member, UNM Museums Consortium
Member, UNM Health Sciences Center Sculpture Garden of Healing Committee Member, New Mexico Association of Museums
Member, Transitions exhibition Advisory Board
Member, Museum Cooperative Council of Albuquerque
Member, Harwood Museum Advisory Committee
Member, Visitor Studies Association Annual Meeting Planning Committee
Member, Museum Development Group Board
UNM Representative, Albuquerque Arts Alliance Sustainable Funding Initiative

Professional Activities:
American Association of Museums annual meeting, Indianapolis, Indiana, May 1-5, 2005
Association of College and University Museums and Galleries annual meeting, Indianapolis, Indiana, April 30, 2005
Legal Problems of Museum Administration, American Legal Institute/American Bar Association (ALI-ABA) continuing legal education course, San Francisco, California, March 30-April 1, 2005 (scholarship)
Visitor Studies Association annual meeting, Albuquerque, August 3-7, 2004

Kelvin Beliele
Member, Modern Language Association
Member, The Melville Society

Professional meetings and classes attended:
Purchasing Process for Departments Lab, July 20, 2004

Teaching:
English 101: Composition I: Exposition, August 23, 2004–December 17, 2004
English 102: Composition II: Analysis and Argument, January 18, 2005–May 13, 2005

Professional Activities:
Conference paper, "The Life-long Blessings of Home: Travel in the Novels of Bayard Taylor"
The International Society of Travel Writing, Milwaukee, Wisconsin, October 23, 2004

Michael Certo
Member, Board Member of Albuquerque Contemporary Art Center [AC²]
Member, Albuquerque Arts Alliance
Member, Artists’ Awards Committee for Magnifico Festival of the Arts

Professional activities:
Guest Lecture on Georgia O’Keeffe, Ghost Ranch, NM
Department representative for Visiting Scholars- J-1 Visas

Kathryn A. Guscott
Professional meetings and classes attended:
American Institute for Conservation of Historic and Artistic Works, Minneapolis, Minnesota, June 8-13, 2005

Christopher Jones
Member, American Association of Museums

Professional meetings and classes attended:
Thesis hours completed toward Master of Arts in Art History
Sara Otto-Diniz
Member:
National Art Education Association, and Museum Education Division
American Educational Research Association
New Mexico Art Education Association
New Mexico Association of Museums
New Mexico Association of Arts Education, vice-chair
Albuquerque Public Schools Fine Arts Advisory
City of Albuquerque, Tricentennial Visual Arts Committee
New Mexico Foundation on Social Justice Advisory Board

Professional meetings and classes attended:
National Art Education Association annual conference, Boston, MA, March 2005
Museum Education Pre-Conference, Boston, MA, March 2005
Teaching Institute for Museum Educators, Chicago, IL, July 2005
Thought and Language, UNM, Fall Semester 2004
Academic Writing, UNM, Spring Semester 2005

Teaching:
Professional development in art education for teachers in Clovis, New Mexico, September 2004 and February 2005
Workshop for parent volunteers in Santa Fe, New Mexico, September 2004 and January 2005

Professional Activities:

Lectures:
Anne Taylor's (UNM School of Architecture and Planning) Architecture and Children class, on qualitative research, October 2004
Joni Palmer's (UNM School of Architecture and Planning) Designing Public Spaces class, on educating the public, February 2005

Michele Penhall
Member, American Association of Museums
Member, Association for Latin American Art
Member, Earthwatch Institute
Member, Friends of Art, UNM Art Museum
Member, Society for Architectural Historians

Professional meetings and classes attended:
Engraving: History and Practice January 18, 2005–May 13, 2005

Professional Activities
Gallery talk: "Archive Adventures in Peru and Bolivia" February 22, 2005

Lee Savary
Member, New Mexico Association of Museums

Professional meetings and classes attended:
Museum Lighting Conference, General Electric, Cleveland, Ohio, June 15 & 16, 2005

Professional Activities:
Guest lecturer, “Career with BFA/MFA, or Life after Graduation,” Theory and Practice, Art and Art History 389/429, Mickey McConnell, April 27, 2005
Shelley Simms
Professional meetings and classes attended:
- Teaching Art in the Elementary School, August 23, 2004-December 17, 2004
- Introduction to Creating and Maintaining a Website, October 04-08, 2004
- Teaching Art in the Secondary School, January 18, 2005-May 13, 2005
- P-Card for Purchasing Airline Tickets, January 25, 2005
- Higher Markets Refresher, March 17, 2005
Professional activities: Juror, Staff as Artists exhibition

Ursula Mines Stauber
- Member, Museum Store Association

Bonnie K. Verardo
Member, American Association of Museums
Member, American Association of Museums, Registrar’s Committee
Member, Mountain Plains Museums Association
Member, Mountain Plains Museums Association, Registrar’s Committee
Member, New Mexico Association of Museums
Professional Activities:
- Guest Lecturer: Museum Practices, Art and Art History 402, Joyce Szabo, October, 2004
- Guest lecturer, “Career with BFA/MFA, or Life after Graduation,” Theory and Practice, Art and Art History 389/429, Mickey McConnell, April 27, 2005
Professional meetings attended:
- American Institute for Conservation of Historic and Artistic Works, Minneapolis, Minnesota, June 8-13, 2005
Certification:
- Certified Institutional Protection Specialist, International Foundation for Cultural Property Protection

Robert Ware
Member, American Association of Museums
Member, College Art Association
Member, Friends of Art
Member, Contemporary Art Society
Advisory Board of the Steffen Thomas Museum, Madison, GA
Steering Committee, the Spiral Symphony project, with Jonson Gallery, Music, and Arts and Technology Center/ArtsLab
Professional meetings and classes attended:
- Spiral Symphony Committee
- Friends of Art: monthly except summer
Professional Activities:
- Juror, Staff as Artists exhibition
- Member graduate committee: Lea Anderson
PLACE: Downtown Window: Zig and Grads, February-May 2005
Review of Ernest Knee in New Mexico: Photographs, 1930s-1940s, for New Mexico Historical Review, June 2005
Appendices

A. Personnel

### Permanent Staff:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Dates</th>
</tr>
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<tbody>
<tr>
<td>Tyler R. Anderson</td>
<td>Curatorial Assistant</td>
<td>January 8, 1999</td>
</tr>
<tr>
<td>Linda Bahm</td>
<td>Director</td>
<td>December 9, 1985</td>
</tr>
<tr>
<td>Kelvin Beliele</td>
<td>Administrative Assistant</td>
<td>April 19, 1999</td>
</tr>
<tr>
<td>Michael Certo</td>
<td>Curator of Education and Public Programs</td>
<td>April 5, 1999</td>
</tr>
<tr>
<td>Kathryn A. Guscott</td>
<td>Conservation Preparator</td>
<td>July 3, 1995</td>
</tr>
<tr>
<td>Christopher A. Jones</td>
<td>Asst. Curator</td>
<td>January 13, 2003</td>
</tr>
<tr>
<td>Michele Penhall</td>
<td>Print &amp; Photo Curator</td>
<td>November 8, 2004</td>
</tr>
<tr>
<td>Augustine Romero</td>
<td>Curatorial Assistant</td>
<td>August 30, 2004</td>
</tr>
<tr>
<td>Ursula Mines Stauber</td>
<td>Museum Shop Manager</td>
<td>October 2, 2000</td>
</tr>
<tr>
<td>Lee Savary</td>
<td>Exhibitions Curator</td>
<td>August 3, 1992</td>
</tr>
<tr>
<td>Shelley Simms</td>
<td>Administrative Assistant, Jonson Gallery</td>
<td>January 6, 2003</td>
</tr>
<tr>
<td>Laura Downey Staneff</td>
<td>Conservator</td>
<td>December 3, 2001-August 13, 2004</td>
</tr>
<tr>
<td>Bonnie K. Verardo</td>
<td>Collection Manager</td>
<td>November 1, 1995</td>
</tr>
<tr>
<td>Robert “Chip” Ware</td>
<td>Jonson Gallery Curator</td>
<td>August 7, 2000</td>
</tr>
</tbody>
</table>

### Work Study, Student, Interns, Volunteers, and Temporary Employees:

<table>
<thead>
<tr>
<th>Name</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gwendolyn Bryant</td>
<td>August 23, 2003-May 20, 2005</td>
</tr>
<tr>
<td>Lisa Duncan</td>
<td>June-July 2004</td>
</tr>
<tr>
<td>Dan English</td>
<td>January 7, 2003</td>
</tr>
<tr>
<td>Wei Fan</td>
<td>January 7, 2003</td>
</tr>
<tr>
<td>Sean Gantt</td>
<td>August 23, 2003-May 20, 2005</td>
</tr>
<tr>
<td>Audra Kerwin</td>
<td>January 10, 2003</td>
</tr>
<tr>
<td>Camille Moore</td>
<td>June 16–August 11, 2004</td>
</tr>
<tr>
<td>Katherine Pomonis</td>
<td>December 6, 2004</td>
</tr>
<tr>
<td>Maria D. Sanchez</td>
<td>January 2005</td>
</tr>
<tr>
<td>Maxine Roush</td>
<td>August 23, 2003-May 20, 2005</td>
</tr>
<tr>
<td>Kyrsten Sanderson</td>
<td>October 3, 2003</td>
</tr>
<tr>
<td>Christopher Smith</td>
<td>August 23, 2003-May 20, 2005</td>
</tr>
</tbody>
</table>
B. Committees

UNM Art Museum
Advisory Committee
2004-2005

Roger L. Schuntz, Dean, School of Architecture and Planning
Thomas F. Barrow, Professor Emeritus, Art and Art History
Joyce Szabo, Chair, Art and Art History
Susan Mullins, University Auditor
Becky Brown, President, Friends of Art
Sheilah Garcia, Community Representative

Jonson Gallery
Sub-Committee on Jonson Collections

Susan Mullins, University Auditor
Joyce Szabo, Associate Professor, Department of Art and Art History
Linda Bahm, Director, UNM Art Museum, ex officio

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

Adjunct Curators: UNM Art Museum

Thomas F. Barrow
David Craven
Christopher Mead
O. J. Rothrock
Appendices:
C. Gifts and Purchases

Gifts
Listed by Donor
Artist, Title, Date, Medium

Espen Tveit
Tveit, Espen
Luster, from the series RITE, 1999;
Forde, from the series RITE, 1999
Gelatin silver prints

Thomas Barrow
Barrow, Thomas
f/vs: Pink Stuff–Van’s Folly, 1972
Gelatin silver print

Julie Anand
Anand, Julie
Fountain Hills Country Club, n.d.
Chromogenic print

Megan Jacobs
Jacobs, Megan
Uprooted, n.d.
Color duratone

David Craven
Zamora, Alicia
Sisifo, 2003
Relief print on polyester

Jackie Schlegel
Siskind, Aaron
Martha’s Vineyard, 1954;
New York, 1950
Gelatin silver prints

Barbara Kasten
Neimanas, Joyce
Her Attaché, 2002
Digital ink jet print

O.J. Rothrock
App, Timothy
Untitled, 1980
Drawing

Ilene Pattie Durkalski
Hnizdovsky, Jacques
Eagle, 1968
Breitenbach, William J., n.d.
Thistle, n.d.
Woodcut

Joyce Neimanas
Neimanas, Joyce
Total Chaos, 1995
Two (2) publications

Elizabeth Olton
Olton, Robert
Untitled, n.d.
Six (6) gelatin silver prints

Jean and Vicki Vanderslice
Hibbard, James
Birds, n.d.
Lithograph

Burks, Myrna
The Stone Holds Me, 1980
Lithograph

Portland, Jack
Frick, 1981; Frack, 1981
Lithographs

Cottingham, Robert
The Spot, 1982
Lithograph

Richard and Carolyn Sweetland
Unknown (United States Pacific Railroad Survey)
View on the Gila Below the Great Bend, n.d.;
Fort Massachusetts at the Foot of the Sierra Blanca, Valley of San Luis, n.d.;
View of Sangre de Cristo Pass, n.d.;
Crossing of Chowchillas River, n.d.;
Mammoth Tree Beauty of the Forest, n.d.;
View Showing the Formation of the Canon of Grand River, n.d.
Lithographs

Unknown
Statesmen, No. 126 An Arbitrator, n.d.
Lithograph

Unknown
Lithograph

Ian Van Coller
Van Coller, Ian
Natural History, Gemsbok, 2003
Digital print
Purchases

Katz, Leandro
Tulim, After Catherwood (El Castillo), 1993;
House of the Nuns, after Catherwood, 1985,
Gelatin silver prints; Before the Stela B, Copán, 1989
Digital archival print

Tamarind Archive Collection: (all lithographs)

Beerman, John
Beach, Sylvan Lake 11 a.m., 2004
Rowing in the Mist, 2004
Night at Sandia Mountain, 2004

Berkenblit, Ellen
Laboratory on Rt. 66, 2003
Return of Bright Brown, 2003
P. Mouse, 2003

Brown, Larry
Balancing Act, 2003
Hot Spot, 2003

Deo, Steven
Principle of Identity, 2004
Alluvium, 2004

Goler, Gustavo Victor
San Miguel, 2003

Helper, Anna
Whorl, 2004
Furl, Coil, 2004
Blue Radial, 2004

Jacquette, Julia
Small White Square (Wedding Dress), 2004
White Square (Wedding Dress), 2004

Jensen, Gendron
Minongers, 2003
Berceau, 2004
Inukshuk: Angnak (left), Angon (right), 2004

Jones, Tom
Commodity I, 2004
Commodity II, 2004

Kelly, Robert
Mimesis I, 2004
Mimesis II, 2004
Mimesis III, 2004
Mimesis IV, 2004
Mimesis V, 2004
Mimesis VI, 2004

Lasker, Jonathan
Ball Figures I, 2004
Ball Figures II, 2003
Ball Figures III, 2003

Lauritzen, Wright, Tad
Beautiful Playmates, 2005
Beautiful Ground Attack, 2005
Beautiful Landscape, 2005

Liu, Hung
Sisters in Arms I, 2003
Sisters in Arms I (State II), 2003
Sisters in Arms II, 2003
Sisters in Arms II (State II), 2003
Butterflies, 2003

Lopez, Felix
Mensajero: En Memoria de mi Madrecita Eva (7/20/08-2/29/04), 2004

McNeil, Larry
Native Epistemology, 2004
Edward Curtis' Last Photograph, 2004

Mentor, Will
Untitled, 2004

Morris, John
Cluster, 2003
Forth, 2003
Simula, 2003
Self, 2003

Murr, Greg
Untitled I, 2004
Untitled II, 2004
Untitled III, 2004
Untitled IV, 2004

Nanano, Kenjiro
Ripple (State I), 2004
Ripple (State II), 2004

Norman, Joseph
Berlin Autumn: Der Tiergarten, 2002

Pletka, Paul
Untitled (State I), 2004
Untitled State II, 2004

Robles, Julian
Santa Clara Dancer, 2003
Root, Ruth
*Untitled I*, 2003
*Untitled II*, 2003
*Untitled III*, 2003

Row, David
*The Kingdom of Time and Place*, 2003

Schmidt, Alejandro
*Paisaje I*, 2004
*Paisaje III*, 2004
*Celebración*, 2004

Smith Jaune Quick-To-See
*Where Is John Lennon?*, 2003

Smith, Ryan Lee
*Be Prepared to Stop*, 2004
*Bare Foot*, 2004

Stevens, May
*Water Is A Gift*, 2003

Wallowing Bull, Star
*A Moment of Silence*, 2004
*My Three Sisters*, 2004

Watt, Marie
*Transit*, 2004
*Receive*, 2004
*Three Ladders*, 2004
D. Works Deaccessioned
E. Conservation Lab

In August 2004, the Museum Conservator, Laura Downey Stanef, resigned from the Museum to pursue a private practice in Colorado. In her absence, Kathryn Guscott coordinated Conservation Lab proceeding with the assistance of Tyler Anderson and Bonnie Verardo. Conservation activities in 2004-2005 included the reconfiguration of flat files to accommodate collections needs; organization of lab materials and supplies; fabrication of boxes for individual object housing and storage; survey of remaining collection objects in lab, separated to prioritize projects; identification and filing of object treatment slides; and the entry of condition reports into the Museum collections database.

A major conservation endeavor this year was the survey of collection holdings of nineteenth-century photograph albums, conducted by book conservator Jo Anne Kilgore-Martinez (financed with a grant from the National Endowment for the Humanities, National Foundation on the Arts and Humanities).
F. Institutions to Which We Have Loaned Work

Art Museum
Georgia O'Keeffe Museum
Santa Fe, New Mexico
June 11-September 12, 2004

The University of Michigan Museum of Art
Ann Arbor, Michigan
July 10-September 26, 2004

Columbus Museum of Art
Columbus, Ohio
October 1, 2004-January 16, 2005

The Fresno Metropolitan Museum of Art, History, Science
Fresno, California
October 20, 2004-January 3, 2005

National Academy of Design
New York, New York
February 17-May 8, 2005

Albright-Knox Art Gallery
Buffalo, New York
February 17-May 15, 2005

Eiteljorg Museum of American Indians and Western Art
Indianapolis, Indiana
January 17-April 3, 2005

Deutsche Guggenheim, Berlin
Berlin, Germany
January 29-April 10, 2005

Hunter Museum of American Art
Chattanooga, Tennessee
April 17-June 19, 2005

The Albuquerque Museum
Albuquerque, New Mexico
April 17-July 31, 2005

Peggy Guggenheim Collection, Venice
Venice, Italy
June 4-September 18, 2005

Phoenix Art Museum
Phoenix, Arizona
June 5-September 25, 2005

Boise Art Museum
Boise, Idaho
June 30-September 18, 2005
Jonson Gallery
The Texas Plains Panhandle Museum, Canyon, Texas
Albuquerque International Sunport
University of New Mexico:
  Office of the President
  University House
  University Art Museum
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Appendix 1. New By-Laws of the College
I. OVERVIEW

The College's administrative team in 2004-2005 changed with Wanda Martin stepping down as Associate Dean and Mark Ondrias taking that position. Robert Duncan was on sabbatical and Richard Santos served as Acting Associate Dean for Research.

During Spring 2005, and for 2005-2006, there continue to be changes. Reed Dasenbrock was moved into the Interim Provost position and Vera Norwood became Interim Dean for the College. Jane Slaughter, former chair of History, took the position of Senior Associate Dean for Faculty.

Chairs for the departments and program directors continue to play a significant role in academic and research administrative functions. See Table 1 for the names of Chairpersons and Program Directors in the College.

II. ADMINISTRATION

During 2004-2005, Senior Associate Dean Norwood continued to assume responsibilities for various aspects of College administration related to faculty. These included organizing and advising the College tenure and promotion review committees (see Table 2), meeting with faculty coming up for reviews, consulting with department chairs on faculty progress through the ranks, and reviewing and making recommendations to the Dean on all tenure, promotion and mid-probationary reviews. She advised the Dean and Chairs on policies and practices related to annual reviews and post-tenure reviews of faculty. She also served as the College Hiring Officer, with oversight of search, recruitment and selection efforts associated with the appointment of new faculty in the College (see Table 3 for results of these activities). She convened and served on the College Sabbatical Review Committee, and allocated special funds...
for faculty travel (see Table 4) and the College Speaker’s and Conference Fund (see Table 5).

She oversaw the Faculty Development Fund to support faculty research efforts, which is funded with $30,000 from the Office of the Vice President for Research and Economic Development, and $15,000 from the Dean. She continued to be responsible for the interdisciplinary programs, developing with the directors an evaluation instrument and sharing the results of the evaluation with their respective department Chairs. In this regard, Norwood took on College leadership responsibilities for the new combined BA/MD program, an effort to increase the availability of rural minority physicians in New Mexico by admitting students from underserved areas to an 8-year combined degree program.

Associate Dean Robert Duncan was on sabbatical. In his stead, Richard Santos administered and supported the research activities within the College through both routine and focused initiatives. Acting Associate Dean Santos worked closely with the Research Cabinet, which consists of the Vice President for Research and Economic Development Terry Yates and the Associate Deans for Research from each of the Colleges and Schools across UNM. The Research Cabinet coordinates larger initiatives, and becomes the point for discussion of University wide research issues. Other routine activities of the Associate Dean for Research included consideration and structuring of cost share proposals, extra compensation issues, and summer salary and research faculty leave issues. The Associate Dean for Research also structures agreements on major research efforts between the Colleges and Schools, and provides consideration and approval of research proposals within the College.

In addition to these routine activities, the Associate Dean for Research continued to oversee the activities of PROFOUND (Program of Research Opportunities for Undergraduates), which was developed in 2003 to serve the entire UNM community. The PROFOUND
Coordinator is Ms. Theresa Lopez and the program has a Faculty Advisory Committee to provide guidance and support for undergraduate research activities. Five administrative offices across UNM, including the Provost, the Vice President for Research and Economic Development, The Vice President for Student Affairs, the Dean of Engineering, and the Dean of the College of Arts and Sciences, invested equally in 2003 to provide the start-up funds necessary to create and support for three years the PROFOUND Office at UNM.

Other activities of the Associate Dean included advising the Dean regarding future research investments such as the nanoscale science initiatives, maintaining close collaborations with the National Laboratories within New Mexico, and with the Santa Fe Institute. Internal management activities, such as a comprehensive review of all Category I centers, and the development of a new plan regarding the hiring and career advancement of Research Faculty within the College, continued to be undertaken by the Associate Dean for Research.

Associate Dean Wanda Martin returned to the Faculty, and Mark Ondrias, former Associate Dean in University College and Professor of Chemistry, assumed that position as Associate Dean for Curriculum and Instruction. Ondrias directed the College’s student advisement effort and assumed responsibility for curriculum changes, graduation requirements, and student complaints and academic disputes. He managed scheduling and budgeting for the Summer Session (see Table 6) and Evening and Weekend Degree programs.

Ondrias served as the College’s Office liaison to the Arts & Sciences Undergraduate and Graduate Committees (see Table 7), convening those two groups and facilitating their work. As the College’s liaison to the College of Education and the K-12 education sector, he participated in the decision to seek membership in the National Network for Educational Renewal and organized the Math Education Initiative, a joint effort of A&S, COE, APS, and officials from the
New Mexico Public Education Department identify and address issues in the teaching and learning of mathematics in K-14 classrooms.

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

The cadre of chairs in the College continued to change in 2004-2005, with the new chairs and the acting chairs in place at the beginning of the year. In addition, three new programs had new directors and another changed its director mid-year. In August of 2002, we initiated a new program consisting of a full week of training of new chairs and directors, informally called 'chairs' school'. This consisted of sessions run by each of the Associate Deans, the College Administrator, and the Director of Development, along with a session with the Deputy Provost and University Counsel on employment issues and a session with staff from the Office of the Vice President for Research and Economic Development. We continued this in Summer 2005 with some changes.

We continued to make great progress on a number of internal fiscal matters in the College. The process of investigating and settling all outstanding prior claims on the College from units in the College has been completed, and we are working on deficit payback plans. The College froze its historic overhead debt at $1.065 million at the end of the 2001-2002 year, and has been paying it down at 25% annually, with a current balance of $275,000 at the end of the fiscal year. The goal is to have it fully paid at the end of 2005-06.

Our instructional and general budget remains under more pressure, given the rise in freshmen enrollments (from 3004 in Fall 2003 to 3086 in Fall 2004) and overall enrollment continuing at record levels. The number of graduates continues to increase as well (see Tables 8
and 9 for degrees awarded, and Table 10 for instructional budget commitments). For 2004-2005, we were able to expand our offerings in a number of fields substantially, primarily because of $750,000 in non-recurring funding received from the central administration in 2003-2004. The new formula funding coming from the increased enrollment also was allocated to the College: in 2004-2005 we received $1.1 million in new funding. Some of these monies funded a plan for adding new lecturers, which we developed in the last two years. A good deal of work remains to be done so that this addition to our budget is allocated and spent well, allows us to meet student needs and addresses some of the underlying budget problems in the College. But this gives us the breathing room to address those issues in the coming year. We received significant help in making more progress in 2005-06 with an increase of $1.1 million for faculty hires and $400,000 in graduate student assistance support to provide discussion sections in large lecture courses.

Following the resignation of Megan Minoka Hill, we hired Sachiko Isobe as our Constituent Development Officer and Debbie Dobson continued as a Development Specialist. Elly Van Mil continued as our Communication Specialist, and is involved in preparing grants for student training, programs and facilities as well as other kinds of communication. Details about progress these individuals made in acquiring additional resources follow in Section VI below.

We are working hard to acquire resources in many different directions. The University moved in spring to develop student support for capital bonds in support of critical renovation and building projects. As a result the College received $7 million in funds to renovate Castetter Hall in order to provide new introductory Biology laboratories. We also received $5.6 million in new funds in support of the Biology department's genomics wing expansion. This expansion will increase vital research lab spaces in a key research area for the department.
In large part due to the efforts of Interim Provost Reed Dasenbrock, we received $16 million in new funds to construct a Science and Mathematics Learning Center - a state of the art facility that will house Biology, Chemistry and Earth and Planetary Sciences introductory course labs, “smart” classrooms for mathematics instruction, and bring together a scattered mathematics faculty into one facility. We continued to work on funding in support of the D.H. Lawrence Ranch, one of our federal priorities in 2004-05, and funded a “friends” group that has already raised over $10,000.

We developed our draft case statement for the university’s planned capital campaign toward the end of the year. The statement was developed through a “bottom-up” approach from the faculty and resulted in a $35 million plan for improving education, research and public service across the College from entering students through our National Academy of Sciences faculty members. In order to be successful we will need to develop a strong understanding of our potential donor base. The Development staff and the Interim Dean worked on this during the year and will continue with this endeavor during the coming year.

IV. AFFIRMATIVE ACTION

The College continued its efforts to increase the cultural and gender diversity among its faculty during the 2004-2005 academic year. 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 2004-2005 added fifty new faculty (including ten full-time lecturers). Of those appointed, twenty-three are female, nine are Hispanic, two are Native American, and one is African American. These are impressive
numbers and we are pleased to have been so successful in expanding the gender and cultural diversity of College faculty.

During AY 2004-2005, the College continued its 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. In the year ahead we will continue existing programs for faculty development, and consider new initiatives, particularly those designed to support recently tenured faculty as they move toward promotion to Full Professor. In order to obtain a more accurate view of general College equity in such things as rank and salary, the College funded a major research project on these matters during Spring and Summer 2005, which was carried out by three female faculty in the Department of Economics. We expect to have the results of this study for inclusion in next year's annual report.

V. RESEARCH AND SCHOLARLY ACTIVITIES

The total level of sponsored research, contracts, and grants at UNM increased rapidly from $166.6M in FY94 to $255.7M in FY03. This rapid growth has accelerated this year, to $278.4M in FY04. All indicators suggest that this level of activity will exceed $300M in FY05. Of this level of activity in FY04, 55% ($152.7M) came from sponsored research grants. UNM's Main Campus was responsible for 62% of the total FY04 activity, with the remaining 38% conducted within the UNM Health Sciences Center (HSC). The College of Arts and Sciences was by far the top performer on UNM's Main Campus, second only to the HSC in both research proposals and research expenditures. In FY04 the College of Arts and Sciences generated 20% of all the research proposals submitted from UNM (see Table 11), and was responsible for 22% of all Facilities and Administrative (F&A) costs derived from sponsored research throughout
This growth in research is advantageous for two reasons: First, it permits our faculty to become more active through their leadership roles in their disciplines and their professional societies, which advances UNM’s reputation as a major ‘Research Extensive’ University within the United States. Secondly, this increased role generates a true influx of money to New Mexico that would otherwise not be available to UNM or the State. The $255.7M last year from our sponsored research, contracts, and grants activities provide a measure of the extent to which others within the United States and throughout the world are willing to invest in New Mexico’s scholarly and service activities. While most of the external sponsored research funding within the College of Arts and Sciences is received in the ‘Natural Sciences’ (Biology, Physics and Astronomy, Chemistry, Earth and Planetary Sciences) and Mathematics, the College has received far more than the national average of funding for our efforts in Psychology and the Social Sciences.

In order to expand and leverage this impressive research growth, the Associate Dean for Research works closely with the Dean and with the College Development Officer and Communication Specialist to expand the level of sponsored research, contracts, and grants within the College. In addition to this push to expand our current sponsored research opportunities, the Associate Dean for Research leads new major initiatives to improve the research climate within UNM and to leverage our excellent research position to improve our primary mission in student education. To this end, the PROFOUND Office (Program for Research Opportunities for Undergraduates) under the coordination of Theresa Lopez sponsored the first campus-wide Celebration of Undergraduate Research during the Spring 2004 semester. Fifty students representing twenty-seven undergraduate degree programs and thirty-one faculty mentors
presented posters. The research contents of the posters were judged by fifteen faculty from the Main Campus and the Health Sciences Center. Posters were judged on content, creative display, and/or oral presentation. The Second Annual Celebration of Undergraduate Research was held at UNM on April 13, 2005. This Celebration was quite successful, with a similar level of activity. The Honorable Mari-Luci Jaramillo, the former US Ambassador to Honduras, delivered a motivating lunch time address to the participants.

The PROFOUND Program also promotes student research at UNM through the coordination of a monthly student research feature in Campus News. PROFOUND provides UNM undergraduates with an excellent opportunity to become directly involved in world-class research efforts under faculty mentorship while they work for academic credit or pay. As a group, students who are employed on campus typically have much better retention rates and grade point averages than the general student cohort, making this an excellent program for improved student performance. Furthermore, most sponsors of federally funded research specifically want to be sure that they leverage improvement in educational opportunities, especially for minority and other under-represented groups in the sciences.

The College of Arts and Sciences continues to produce new opportunities to expand the level of undergraduate research at UNM. A proposal was recently submitted to the Beckman Foundation to support undergraduate research scholars in the biomedical sciences, and a new campus-wide effort has been initiated to assist principal investigators in NSF-funded projects to obtain Research Encounters for Undergraduates (REU) funding to supplement their research efforts. Other activities, such as a proposal to the McCune Foundation to support undergraduate research in the humanities, are planned for the near future and will be completed by the end of 2005.
Several sponsored research activities within the College of Arts and Sciences illustrate the importance of our contributions to many different disciplines: Professor Claudia Tesche within the Department of Psychology uses arrays of near-quantum limited magnetic sensors called SQUIDs (Superconducting Quantum Interference Devices) to study the dynamic activity of the brain, especially in the hippocampus region. Dr. Tesche’s research applies state-of-the-art measurement techniques to understand the basis of human cognition. Other researchers at UNM are applying similar techniques to search for the origins of major psychiatric disorders. As another example, Distinguished Professor Jim Brown, one of the leading ecologists throughout the world, has been awarded the Robert H. MacArther Award by the Ecological Society of America (ESA) for his long-term experimental studies of desert ecologies, and for his theoretical work in microecology and biological scaling. Furthermore, the Consortium of the Americas for Interdisciplinary Sciences, funded by the NSF and directed by Distinguished Professor V. M. Kenkre, provides research opportunities for students and faculty from throughout Latin America to visit UNM for extended periods of time. This, the first NSF Center for international collaboration in the sciences has been a great success and its funding has recently been renewed.

The College of Arts and Sciences also excels in research in the humanities and the social sciences. Here are a few examples of the breadth and depth of research in these fields: The Hibben Center and the Maxwell Museum at UNM attest to our strength in anthropological research, especially within Latin America. The College of Arts and Sciences recently established the Institute for American Indian Research, with Professor Amanda Cobb as the founding Director. UNM has taken the lead to establish a Visitor’s Center with an interpretive museum at the D. H. Lawrence Ranch at Taos, New Mexico, to honor this famous 20th Century writer.
The College of Arts and Sciences will continue to be a major participant in this rapidly growing research mission of UNM through our active participation in the Research Cabinet, through activities designed to enhance the economic competitiveness of New Mexico, and most importantly through the expansion of our faculty and student involvement in our research mission. The key to our past and future success rests in the professional dedication and motivation of our faculty to seek additional research opportunities as they build upon existing research strengths. The success of our research mission has depended, and will continue to depend upon the collegial spirit of our professoriate, and upon the good faith efforts of our faculty to fulfill, and often exceed, the research expectations within their faculty contracts.

VI. TEACHING

Summary data on the various aspects of the College’s teaching efforts are presented in Tables 6, 8, 9, and 10. While the total number of degrees awarded decreased, the student credit hour (SCH) generation of the College increased at both the undergraduate and graduate levels. The decade long increase in SCH for the College is especially significant in view of the continued decline in faculty numbers over that period. This trend necessarily means that an ever increasing fraction of the College’s teaching load is being borne by part time instructors and graduate students. The total budget for part time instruction increased again this year to over $2.5M.

The College’s teaching capabilities were bolstered by the Interdepartmental Teaching Assistant Program funded by the Provost’s Office. This program allows graduate students from one A&S department to be TAs in another department. During the 2004-05 year a total of 21 TA
lines were funded (11 in English and 10 in Math) by this program. This expanded the number of SCH available in lower division English and Math courses by over 12,000.

VII. SPECIAL PROJECTS AND FUNCTIONS

Advisement Center

Under the supervision of Mark Ondrias as Associate Dean of Curriculum and Instruction, the College Advisement Center oversees the student undergraduate population. The Center admits undergraduate students to the College of Arts and Sciences once they have been accepted into their major department. The Center's seven advisors monitor the academic progress of these students, if necessary, placing students on probation and/or suspending them for unsatisfactory progress in their program of study. These Center staff members advise students on general degree issues that are not specific to the departments of their major or minor.

The Center also is responsible for the certification of all Arts and Sciences baccalaureate graduates. The Advisement Center not only serves the needs of their current population, but also responds to inquiries from prospective students at the New Student Orientation, Transfer Day, UNM Branch on-site visits, as well as many events and requests from prospective students.

There have been some personnel changes to the unit including the hire of Stephanie Hands for the Director of Academic Advisement. She replaced Dr. Ellen Grigsby who had held this position the year before. The first objective of the new Director was to examine many aspects of advisement, including the mission of the Center and how the functionality supports this mission. The Center has taken a more student centered, supportive stance. The mission of A&S Advisors is to assist students in navigating their academic careers while giving them the tools for success that reach beyond their life at the University. This may have been the intention
in the past but it was not being represented as such to the students. Under close examination, many areas of the Center were changed to reflect the new understanding of the role of advisors at the College level.

Traffic and availability.

The Center operates on an appointment-based system Monday through Thursday that has successfully controlled traffic and managed visits in an organized manner. The Center moved walk-in days from Wednesday to Friday to accommodate the students need to seek assistance on “deadline days.” Previously the Center was limiting appointments to fifteen minutes, this year they have increased this to thirty minutes. This was in response to student requests and concerns. To counter the impact of increasing appointment time, the Director implemented group seminar advisement sessions for students transferring into Arts and Sciences as well as applying to graduate from the College. These seminars are offered several times a week throughout the semester and allow students to receive valuable information for processing necessary paperwork without waiting for a one-on-one appointment. The Center has also partnered with departments and student centers around campus to offer on-site advisement. Students may also ask general questions via email at the artsci@unm.edu address. This mode of communication is encouraged and all advisors take time to answer these questions on a weekly basis.

The number of Arts and Sciences students enrolled during 2004-2005 consists of the following: Summer 2004 – 1821, Fall 2004 – 4984, and Spring 2005 – 5266. The total number of visits to the Advisement Center during 2004-2005 was 10,000, which does not include out of office advisement sessions or electronic communications. The Center attributes the sustained traffic from last year to the availability of seminars and the flexibility for students to contact their
advisors electronically. The Center plans to expand these kinds of opportunities for student
interaction in the next year.

Other initiatives.

The role of Advisors was limited in the past. They were not allowed the authority to
make certain student approvals based on an outdated hierarchy within the unit. They now are
trained to approve such things as overloads, probation status, withdrawing from classes and
minor requests for degree completion. This was changed to treat all advisors as professionals
and to allow them the power to help students. Other training for advisors includes Pre-
Professional training that is tied to their career ladders. The unit currently has two trained Pre-
law advisors and one Pre-health advisor.

The Director has implemented other initiatives that focus on enhancing the students’
experience. There are several student contacts that are proactive in nature. This has resulted in
reducing the amount of reactive advisement that must be done each semester. Electronic notice
that is sent early about not having met the requirements for graduation, requests to verify
graduation intention, reminders of deadlines, notice about research and internship opportunities,
and student status notices are among the kinds of correspondence that our students receive. If
students are given information in a timely manner, they can adjust their record or schedules
accordingly to achieve a possible solution.

The departments and the Center now communicate by email to assist students with
waivers and/or substitutions regarding degree completion. This enables students to be included
in the exchange of information and a resolution is reached much faster. The departments have
also been given access to DARSweb which is the degree audit system that the University uses.
They may now find specific information on the student’s record with the student present. This
also is how the student will view the information in approximately a year. There were several demonstrations of this tool given by the Registrar’s Office facilitated by the Advisement Center. Allowing departments to have access is the first step in making applications for degree automated and paperless. This also prepares advisement staff College-wide to start thinking about the Banner system that will be interfacing with DARS next year. The Director will continue to improve the process and flow of information interdepartmentally and with the student. There are several initiatives that are being implemented in preparation for the next academic year including paperless student records, transfer student focus, pre-major initiatives and the expansion of advisement via the BA/MD program.

The advisors in the College of Arts and Sciences continued to play a major role in Summer Freshman Orientation, advising almost 900 incoming students in Summer 2004. During Orientation, incoming students planning to major in an A&S field come to the College to attend a presentation on degree requirements, to plan their schedules, and to register with assistance from A&S advisors. In addition to participating in Freshman Orientation, one or more advisors provided advisement at the following extramural or campus-wide advising activities during the year: Welcome Back Days, Senior Day, Staff as Students, Evening and Weekend Orientation Advisement, High School Visitation Day, African American Student Day, American Indian Student Day, Pre-Dental Reception, Spring Orientation for Freshmen, Transfer Day, Star Scholar Reception, American Indian Graduation Ceremony, Advisors Networking Group, Academic Retention Meeting, American Indian Retention Meeting, and College Enrichment Program. This year the advisors also made multiple trips to the following campuses for advisement, specifically UNM-Gallup, the Santa Fe Community College, TVI-Albuquerque, TVI-Montoya, UNM-Los Alamos, UNM-Valencia, and UNM-Taos.
Curriculum

College of Arts and Sciences Graduate Committee

The Charge of the College of Arts and Sciences Graduate Committee is to be responsible for maintaining and enhancing the quality of graduate education in the College.

The A&S Graduate Committee was reconstituted in the Fall of 2004 according to the new by-laws of the College (see Appendix 1). The responsibilities of this Committee are to represent graduate program interests to the Dean of Arts & Sciences and the Office of Graduate Studies and to report developments to the College faculty through the departmental graduate advisors. This includes consideration of actions related to curriculum change, instructional programs, academic advisement for graduate students, and changes in administrative or academic regulations which affect graduate programs. The Committee met each semester to consider issues concerning Graduate recruitment, Teaching Assistant workloads and other topics relevant to the College’s working relationship with the Office of Graduate Studies.

College of Arts and Sciences Undergraduate Committee

The College of Arts and Sciences Undergraduate Committee is responsible for maintaining and enhancing the quality of undergraduate education in the College. This includes conducting activities related to curriculum change, instructional programs, academic advisement, and changes in administrative or academic regulations that affect undergraduate programs.

Each of the 20 academic departments in the College designates one faculty representative (voting faculty as defined in the Faculty Handbook) to the College of Arts and Sciences Undergraduate Committee (see Table 7). The Committee also includes 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 (consisting of four members of the A&S Faculty and chaired
by Associate Dean Ondrias) reviews requests from departments both within and outside the College for curricular and/or program requirement changes that may impact one or more Arts and Sciences departments. The Undergraduate Committee and Curriculum Subcommittee were active participants in the initial implementation of the student BANNER system. As a prelude to BANNER implementation, all course prerequisites and department catalog requirements were reviewed and updated.

**Enrollment Management Initiatives**

In order to address ever increasing enrollment pressures in specific high demand courses, the College initiated an aggressive program of enrollment management. In consultation with the Associate Provost of Academic Affairs and the University Rapid Response team, the College added over 20 sections of high demand courses in Fall 2004 and 15 sections in Spring 2005. These courses were predominately lower division core courses and allowed over 700 students to enroll in classes from which they would otherwise have been excluded.

**Education Outreach Activities FY 2004-2005**

**A&S Teachers' Institute**

The Teachers' Institute has continued its work of providing professional development opportunities for K-12 teachers in the community and the state by supporting the development of content understanding in the core subject areas, and in helping teachers' professional growth in learning new teaching strategies that encourage student learning. The program's key components include:

- **Summer Seminars** – The Teachers' Institute offered 5 courses for teachers in collaboration with the Science Education Institute of the Southwest (SEIS) in June 2005. The
Courses were targeted at teachers needing Arts & Sciences credit hours to maintain their teaching credentials under new federal Highly Qualified requirements. The five courses attracted 69 middle school and elementary school teachers to the program.

- Saturday Workshops – The Teachers’ Institute continued its successful Saturday Workshop series by offering 8 workshops during the Fall and Spring semesters. The subjects covered topics representative of the broad scope of the College’s programs of study. Approximately 150 teachers took part in the one-day workshops, representing schools in Albuquerque, Rio Rancho, Santa Fe, Los Lunas, Belen, Bernalillo, Laguna-Acoma, Moriarty, and Socorro.

- “Find An Expert” Database – New to the Teachers’ Institute program this year is a service designed to help teachers locate and schedule A&S faculty guest speakers. The experts are listed on the ATI website, where teachers can request a guest speaker to visit their classroom and make a presentation or work with students (http://www.unm.edu/~abqteach).

- Taos Writer’s Conference Teacher Initiatives – In July 2004, the Teachers’ Institute sponsored two Albuquerque high school teachers to take part in the internationally recognized Taos Writer’s Conference. The support allowed the teachers to take part in the weeklong conference, with a goal that this experience would later impact their work with students. For Summer 2005, ATI sponsored a weekend workshop solely for secondary teachers at the end of the regular Writer’s Conference. Fifty teachers participated, with funding to support lodging and food costs, presenter’s stipends, and fees for workshop participation, which was provided by the Teachers’ Institute.

Science Education Institute of the Southwest (SEIS)
Arts & Sciences faculty and staff have been founding members of the newly established Science Education Institute of the Southwest (SEIS). The goal of this program is to provide leadership in science learning and teaching by building a network for supporting best practices and intellectual growth, facilitating partnerships and community involvement to promote high quality science education, and creating a center for innovative research. The partnership includes the UNM Colleges of Arts & Sciences and Education, Sandia National Laboratories, Albuquerque Public Schools, and several local science museums. The funding from this group supported the five courses offered through the Teachers' Institute in Summer 2005. Other initiatives will include classes and workshops for teachers, curriculum and lesson plans support via a website, and summer internships for secondary teachers in research labs at UNM and SNL. The Institute has submitted several grant proposals to support these and other activities.

La Meta Program

The 2004 – 2005 FY saw the completion of the first year and the beginning of the second year of a program funded by the NM State Public Education Department for middle school mathematics teachers. The program has brought teachers from Albuquerque, Gallup, Las Vegas, Mora, Tatum, Las Cruces and Bernalillo together to improve their math content knowledge and foster their development as middle school educators. In the two cohorts, about 56 teachers have benefited from coursework offered through the program. The PI on the project is Kristin Umland from Mathematics & Statistics, with funding support of approximately $800,000 during the two years of the project. A third year of funding is expected to be awarded during the Spring Semester of 2006.

Other Educational Outreach Initiatives
Annual High School Summit – In collaboration with the K-12 Continuing Success Committee, A&S sponsored the 2nd Annual High School Summit on April 13, 2005. Over 120 attendees from area high schools, UNM, and Albuquerque TVI took part in discussions focusing on improving student success as high school students move into university freshmen level math and English courses. Recommendations from the Summit have led to the development of a high school teacher/UNM TA mentoring program in the English department, and the expansion of UNM Math 120 courses being taught in three APS high schools during Spring 2006.

NASA “Bridging the Gap” Workshop for Teachers – Using a $49,000 grant from NASA’s IDEAS program, a weeklong workshop for teachers was hosted on the UNM Main Campus in June 2005. The program’s goal was to work with Native American teachers, or teachers who work primarily with Native American students, to develop their knowledge of astronomy and space science. To do this, ways of making the subject more relevant to Native American students by bringing together Native views of the universe with scientific perspectives was highlighted. Teachers who attended the workshop were primarily from the Gallup-McKinley County School District.

College Scholarship and Deans’ List

College Scholarships

In 2004-05, the College of Arts and Sciences continued to expand and update its web-enabled descriptions of our scholarship program, including the seven awards and how students could apply for them. The application period was from January 15 to April 1, 2004, and over 250 applications were received with 143 complete portfolios, which were reviewed by the College Scholarship Committee (Deborah Evans, Kate Krause, Diane Marshall and Maya Elrick). The
Committee reviewed all of the completed files and chose recipients for seven of the awards. The seventh award, the Frank O. and Sadie M. Lane Endowed Scholarship, has its own procedure and a separate review committee that chooses new recipients each year.

This year marked the beginning of the Robert Noyce Scholarship program in the College. This initiative is funded by the National Science Foundation and is intended for students who are currently pursuing an undergraduate degree in science or math and wish to change their careers in order to become secondary teachers. A total of six scholarships were awarded this past year. The College also provided funds for an undergraduate course in the teaching of ecological science as part of the Noyce program. The scholarship award recipients for 2004-05 are as follows:

- Charles E. Brown and Katherine M. Brown Scholarship
- Marjorie Yepsen and Carleen F. Farnam Endowed Scholarship
- Ralph W. Douglass Memorial Scholarship
- Dr. Harry Vanderpool Endowed Scholarship
- F.P. Clements Endowed Scholarship
- George A. Kaseman Memorial Scholarship
- Frank O. and Sadie Lane Scholarship
- Robert Noyce Scholarship

Jennifer Bayley
Leslie McMurtry
Gloria Jean Becker
Carlos Quintana
Melissa Smith
Yolanda Nez
Ashley Nicole Allen
Kylea Odenbach
M. Jennifer Markus
Holly Rodecap
Michael Mendoza
Robert Cougar Burke
Thansewi Martinez
Holly Heiser

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 being enrolled for 12 or more credit hours with letter grades, and a cumulative GPA for UNM coursework of at least 3.25. Over 700 students achieved this honor; in both the Fall 2004 and
Spring 2005 semesters. Students who met the criteria for inclusion on the Dean’s List received a notation on their transcript and an email of appreciation and congratulations signed by Associate Dean Ondrias. The College also displays a list of awardees on the A&S homepage.

**Summer Session**

The 2005 Summer Session allocation to the College was $736,000, a 5.7% increase over Summer 2004. Much of the increase in funding was used to increase the number of high demand courses. In particular, collaboration with the Office of the Provost produced a viable plan to offer more high demand laboratory courses. In addition to a full range of on-campus courses for degree-seeking students, the College continued to support unique summer programs such as the intensive German Summer School in Taos and field schools in Anthropology and Geology (see Table 6).

**Travel and Special College Funds**

The College disbursed $20,988 to faculty in the College for travel expenses to supplement the support provided by departments. In addition, the College provided $14,515 to departments to support honoraria for guest speakers, conferences, and publications. A summary of these distributions appears in Tables 4 and 5.

**Research Semester**

The A&S Research Semester program was reconfigured in Fall 2001 in an effort to compete with market incentives offered to junior faculty at other institutions and to strengthen the tenure cases of our new hires. Junior faculty hired since Fall 1999 are eligible to be relieved
from formal teaching responsibilities for one semester in order to pursue research activities. To be eligible for a leave, the faculty member normally would take the leave before their mid-probationary review, but must take the leave prior to the tenure decision year. The faculty member should demonstrate to the chair and the Dean a successful research trajectory, a meritorious research proposal and plan, and a good teaching record. After the award, the faculty member is required to teach full-time at UNM for, at minimum, the next year. In Fall 2004, Krishna Kandah (Communications and Journalism) was awarded a research semester while in Spring 2005 the awards were made to: Kelly Becker (Philosophy), Lorie Brau (Foreign Languages and Literature), Chris Butler (Political Science), Luis Cadavid (Biology), Jennifer Denetdale (History), Glenda Balas (Communications and Journalism), Kristin Grimsrud (Economics), Alex Lubin (American Studies), Mousumi Roy (Earth and Planetary Sciences), Jennifer Thatcher (Economics), David Tierney (Chemistry), Catherine Travis (Linguistics), Tim Wadsworth (Sociology), and Joe Watkins (Anthropology). It is the intent of the College to continue to offer a research semester as an integral part of each junior faculty member’s hiring package in future years, with continued quality oversight through screening proposals at both the department and the College level twice a year.

**Development Efforts**

In FY 2004-2005, the College of Arts & Sciences raised $3,294,485 in private funds from individuals, corporations and foundations.
Debbie Dobson, Development Associate, remained with the College, while Megan Minoka Hill, former Development Officer for the College of Arts and Sciences, left in December of 2004. Her replacement, Sachiko Isobe, began her tenure as Development Officer in March of 2005. They are focusing their efforts on strengthening the College's major gift program. Both Debbie and Sachi have an active portfolio of prospects and are setting up meetings focusing on prospect identification and cultivation. This emphasis on individual major gifts is part of their efforts to prepare the College for an eventual multimillion dollar capital campaign.

In addition, the development office has focused on improving donor stewardship. Development officers have worked with faculty chairs to encourage and assist award recipients to personally thank donors. Several chairs have also met with donors and potential donors, and are renovating their websites to make them more "development" friendly. As a result of these efforts, we expect a corresponding increase in contributions.

The office continues to write and produce Inside Arts and Sciences, the College of Arts and Sciences, newsletter which is mailed out in the fall and in the spring to over 30,000 individuals. In Spring 2005, the development office added non-alumni donors, emeriti faculty, and donors who have established endowments to the mailing list. Previously, it had been sent only to alumni.

The development office is re-examining the mission and responsibilities of the Dean's Advisory Council to improve fundraising and public relations efforts. Meetings with individual members have begun as this transition continues.

The development office plans to continue its work with College departments and programs to increase revenue from the $1,000+ Dean's Circle donors to the College. Eventually,
the development office will also create a program designed to grow the junior pool of alumni donors to the College through targeted events.

**Public (Federal and State) Fundraising Efforts**

During FY 2004-2005, the Communication Specialist (a new position in April 2004) of the College of Arts & Sciences worked with each of the Associate Deans and the Dean in facilitating achieving important goals for the College by assisting A&S faculty and staff teams with several multidisciplinary projects. These included the Nanoscience IGERT (a NSF graduate student training program), the state EPSCoR (NSF) program, a PREP (NIH post-baccalaureate training program), and two REU proposals, which were all awarded. A proposal for a Genomics wing for Biology that was submitted in December received a good score, but was not funded largely due to the 75% cut in the agency’s program funds. The D.H. Lawrence Ranch was one of the focal projects for which a PowerPoint presentation was developed and given for consideration on UNM’s Federal Priorities list (restoration/renovation and constructing a Visitors’ Center), and this project was selected. Work continues with identifying opportunities for funding and submitting proposals for small sectors of the entire project, and we expect to seek funding for the endowment from community members and Lawrence admirers. Still pending are the results for the HHMI student training proposal submitted in June, and we will be preparing a proposal for the Beckman Scholars program, for which UNM received an invitation to submit a proposal. Second round proposals were also prepared for the GK-12 (NSF graduate training /K-12 teacher mentoring program) that was well received but not funded, yet the PI was encouraged to submit a slightly-revised version; and for the MARC program that responded to the reviews of the earlier proposal with the establishment of an institutional committee in the Provost’s Office to provide coordination and oversight of underrepresented student training.
programs at that level. The entire year saw the continuing development of the new Nanoscience and Microsystems Graduate Degree Program, with more than 50 faculty from 11 departments in three UNM Colleges (Arts and Sciences, Engineering, Medicine). The NSMS project is being reviewed at the department level, and it is hoped that the first cohort of students will be enrolled for Fall 2006. Great headway was made in developing a campus-wide coalition comprised of 26 faculty in eight departments from five Colleges for a NIH T-32 graduate student training program; during the next year a proposal will be submitted, as a preliminary effort toward developing a UNM center to address in a multidisciplinary manner the multiple factors in understanding and treating alcohol and substance abuse. Having attended the CCAS Deans’ Seminar on Facilities for the Liberal Arts, the Communication Specialist also is a participant in the discussions about the biology building renovation and addition, and the Science and Mathematics Learning Center.

VIII. DEPARTMENT REPORTS

Detailed reports about activities in the twenty departments and a selection of programs in the College of Arts and Sciences are submitted along with this College report.
<table>
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<tr>
<th>Department</th>
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<td>Speech &amp; Hearing Sciences</td>
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<td>Program</td>
<td>Director</td>
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<td>American Indian Research Institute</td>
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<td>Richard Wood</td>
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<td>Women Studies</td>
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TABLE 2

COLLEGE OF ARTS AND SCIENCES

STANDING COMMITTEES I

TENURE AND PROMOTION COMMITTEES
2004-2005

College of Arts and Sciences Senior Promotion Committee 2004-05

Professor Mike Dougher, Psychology (Chair)
Professor Jane Buikstra, Anthropology
Professor John Bussanich, Philosophy
Professor Carlton Caves, Physics & Astronomy
Professor Miguel Gandert, Communication & Journalism
Professor Linda Hall, History
Professor David Jones, English
Professor Vladimir Koltchinskii, Mathematics & Statistics
Professor Bruce Milne, Biology

College of Arts and Sciences Junior Promotion and Tenure Committee 2004-05

Associate Professor Peter Fawcett, Earth & Planetary Sciences (Chair)
Associate Professor Melissa Axelrod, Linguistics
Professor Steve Cabaniss, Chemistry
Professor Jens Lorenz, Mathematics & Statistics
Associate Professor Tim Moy, History
Associate Professor Janet Patterson, Speech & Hearing Sciences
Professor Karen Foss, Communication & Journalism
Associate Professor Hector Torres, English
Associate Professor Les Field, Anthropology
## TABLE 3
### COLLEGE OF ARTS AND SCIENCES

#### PROMOTIONS, TENURE, MID-PROBATIONARY REVIEWS, NEW APPOINTMENTS, RESIGNATIONS AND RETIREMENTS

**2004-2005 Review Candidates**

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<th>Name</th>
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Total: $200,647 $20,988
## TABLE 5

**COLLEGE OF ARTS AND SCIENCES**

**A&S DISBURSEMENTS OF SPECIAL COLLEGE FUNDS –2004-2005**

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<thead>
<tr>
<th>Department</th>
<th>Special Allocations (a)</th>
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<td>Chemistry</td>
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<td>Communication &amp; Journalism</td>
<td>$</td>
</tr>
<tr>
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<td>Mathematics</td>
<td>$</td>
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<tr>
<td>Medieval Studies</td>
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<td>Sociology</td>
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<tr>
<td>Spanish &amp; Portuguese</td>
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<td>Speech and Hearing</td>
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**$ 14,515**

(a) Includes speakers' honoraria, support for conferences, publications
## TABLE 6
COLLEGE OF ARTS AND SCIENCES

SUMMER SESSION ALLOCATION DATA – 2004-2005

<table>
<thead>
<tr>
<th>Department</th>
<th>Final 2004 Figures</th>
<th>Percentage</th>
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TABLE 7
COLLEGE OF ARTS AND SCIENCES

STANDING COMMITTEES II
GRADUATE AND UNDERGRADUATE COMMITTEES
2004-2005

A&S Graduate Committee

Amanda Cobb, American Studies
Sylvia Rodriguez, Anthropology
Eric Charnov, Biology
Michele Penhall, Chemistry
Karen Foss, Communication & Journalism
Janet Cramer, Communication & Journalism
Adrian Brearley, Earth & Planetary Sciences
Janie Chermak, Economics
David Jones, English
Walter Putnam, Foreign Languages & Literature
Brad Cullen, Geography
Timothy Moy, History
Claudia Isaac, Latin American Studies
Jill Morford, Linguistics
Todd Kapitula, Mathematics & Statistics
John Taber, Philosophy
Wolfgang Rudolph, Physics & Astronomy
Christine Sierra, Political Science
Steven Gangestad, Psychology
John Roberts, Sociology
Rena Torres Cacoulos, Spanish & Portuguese
Barbara Rodriguez, Speech & Hearing Sciences

A&S Undergraduate Committee

Rebecca Schrieber, American Studies
Les Field, Anthropology
Lee Cruch, Biology
Cary Morrow, Chemistry
Jan Schuetz, Communication & Journalism
Dennis Herrick, Communication & Journalism
Laura Crossey, Earth & Planetary Sciences
Kate Krause, Economics
Carolyn Woodward, English
Susanne Baackmann, Foreign Languages & Literature
Jerry Williams, Geography
Charlie Steen, History
Barbara Shaffer, Linguistics
Vageli Coutsias, Mathematics & Statistics
Kelly Becker, Philosophy
Daniel Finley, Physics & Astronomy
Gilbert St. Clair, Political Science
Gordon Hodge, Psychology
Bob Fiala, Sociology
Kathryn McKnight, Spanish & Portuguese
Phyllis Palmer, Speech & Hearing Sciences
Amy Neel, Speech & Hearing Sciences
Shaime Okuner, African American Studies
Jonathan Porter, Asian Studies
Bill Anderson, Biochemistry
Steve Bishop, European Studies
Claudia Isaac, Latin American Studies
Daniel Wolne, Religious Studies
Gail Houston, Women Studies
TABLE 8

COLLEGE OF ARTS AND SCIENCES

DEGREES AWARDED – 2004-2005

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<th>Year</th>
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<th>All Degrees Combined</th>
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<td>Number of Awards</td>
<td>% Increase over Previous Year</td>
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Data Source: Office of Institutional Research.
TABLE 9

COLLEGE OF ARTS AND SCIENCES

DEGREES AWARDED BY DEPARTMENT – 2004-2005

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<td>Psychology Department</td>
<td>178</td>
<td>12</td>
<td>8</td>
<td>198</td>
</tr>
<tr>
<td>Religious Studies Program</td>
<td>12</td>
<td></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Sociology Department</td>
<td>127</td>
<td>4</td>
<td>1</td>
<td>132</td>
</tr>
<tr>
<td>Spanish Portuguese</td>
<td>24</td>
<td>16</td>
<td>4</td>
<td>44</td>
</tr>
<tr>
<td>Speech and Hearing Sciences</td>
<td>31</td>
<td>18</td>
<td></td>
<td>49</td>
</tr>
<tr>
<td>Women Studies</td>
<td>4</td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Other Programs (Interdisciplinary)*</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Art</td>
<td>3</td>
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<td></td>
<td>3</td>
</tr>
<tr>
<td>Asian Studies</td>
<td>2</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>21</td>
<td></td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>English-Philosophy</td>
<td>6</td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>European Studies</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Latin American Studies</td>
<td>14</td>
<td>24</td>
<td></td>
<td>38</td>
</tr>
<tr>
<td>Total - Other Programs</td>
<td>47</td>
<td>24</td>
<td></td>
<td>71</td>
</tr>
</tbody>
</table>

Total                                             | 1,179     | 231     | 101      | 1,511 |

Source: Office of Institutional Research
### TABLE 10

**COLLEGE OF ARTS AND SCIENCES**

**FTE BUDGETED FACULTY – 2004-2005**

<table>
<thead>
<tr>
<th>Department</th>
<th>Regular Faculty</th>
<th>GA/TA</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Studies</td>
<td>6.00</td>
<td>3.00</td>
</tr>
<tr>
<td>Anthropology</td>
<td>26.64</td>
<td>7.75</td>
</tr>
<tr>
<td>Biology</td>
<td>37.39</td>
<td>21.22</td>
</tr>
<tr>
<td>Chemistry</td>
<td>20.15</td>
<td>16.00</td>
</tr>
<tr>
<td>Communication &amp; Journalism</td>
<td>18.48</td>
<td>8.50</td>
</tr>
<tr>
<td>Earth and Planetary Sciences</td>
<td>19.15</td>
<td>6.75</td>
</tr>
<tr>
<td>Economics</td>
<td>13.00</td>
<td>6.50</td>
</tr>
<tr>
<td>English</td>
<td>33.10</td>
<td>29.50</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>13.16</td>
<td>7.75</td>
</tr>
<tr>
<td>Geography</td>
<td>4.00</td>
<td>1.50</td>
</tr>
<tr>
<td>History</td>
<td>25.73</td>
<td>11.50</td>
</tr>
<tr>
<td>Linguistics</td>
<td>10.66</td>
<td>2.00</td>
</tr>
<tr>
<td>Mathematics</td>
<td>36.47</td>
<td>21.00</td>
</tr>
<tr>
<td>Maxwell</td>
<td>0.80</td>
<td>-</td>
</tr>
<tr>
<td>Medieval Studies Institute</td>
<td>0.50</td>
<td>0.25</td>
</tr>
<tr>
<td>Philosophy</td>
<td>11.00</td>
<td>3.50</td>
</tr>
<tr>
<td>Physics</td>
<td>29.84</td>
<td>12.00</td>
</tr>
<tr>
<td>Political Science</td>
<td>15.67</td>
<td>6.00</td>
</tr>
<tr>
<td>Psychology</td>
<td>19.88</td>
<td>12.25</td>
</tr>
<tr>
<td>Sociology</td>
<td>17.58</td>
<td>7.00</td>
</tr>
<tr>
<td>Spanish &amp; Portuguese</td>
<td>14.17</td>
<td>18.25</td>
</tr>
<tr>
<td>Speech and Hearing</td>
<td>5.10</td>
<td>2.00</td>
</tr>
<tr>
<td>Women's Studies</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Data Source: College of Arts and Sciences Instructional Budget, 2004-05
## TABLE 11

**COLLEGE OF ARTS AND SCIENCES**  
**NEW RESEARCH AND TRAINING GRANTS - 2004-2005**  
(tenure track and research faculty)

<table>
<thead>
<tr>
<th>Department</th>
<th>Amount</th>
<th>Number of Faculty</th>
<th>Number of Grants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>$783,393</td>
<td>9</td>
<td>13</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>$504,008</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Biology</td>
<td>$12,417,151</td>
<td>44</td>
<td>106</td>
</tr>
<tr>
<td>Center for Advanced Studies</td>
<td>$1,710,750</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry</td>
<td>$2,943,782</td>
<td>10</td>
<td>31</td>
</tr>
<tr>
<td>Communication &amp; Journalism</td>
<td>$181,846</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Contract Archeology</td>
<td>$864,212</td>
<td>2</td>
<td>19</td>
</tr>
<tr>
<td>Earth &amp; Planetary Sciences</td>
<td>$1,236,320</td>
<td>14</td>
<td>19</td>
</tr>
<tr>
<td>Earth Data Analysis Center</td>
<td>$1,009,246</td>
<td>4</td>
<td>19</td>
</tr>
<tr>
<td>Economics</td>
<td>$409,485</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>English</td>
<td>$2,000</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>$24,675</td>
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<td>1</td>
</tr>
<tr>
<td>Geography</td>
<td>$191,057</td>
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</tr>
<tr>
<td>History</td>
<td>$44,500</td>
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<td>3</td>
</tr>
<tr>
<td>Institute for Public Policy</td>
<td>$651,418</td>
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<td>7</td>
</tr>
<tr>
<td>Institute for Social Research</td>
<td>$339,773</td>
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<td>14</td>
</tr>
<tr>
<td>Linguistics</td>
<td>$3,500</td>
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</tr>
<tr>
<td>Mathematics</td>
<td>$707,989</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Maxwell Museum</td>
<td>$19,650</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Meteoritics</td>
<td>$936,255</td>
<td>8</td>
<td>20</td>
</tr>
<tr>
<td>Philosophy</td>
<td>$103,320</td>
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<tr>
<td>Physics</td>
<td>$10,619,159</td>
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<td>Psychology</td>
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<td>8</td>
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<td>Sociology</td>
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<td>1</td>
</tr>
<tr>
<td>Speech</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$37,074,388</strong></td>
<td><strong>155</strong></td>
<td><strong>347</strong></td>
</tr>
</tbody>
</table>
Preamble

The College of Arts and Sciences is the largest College at UNM and incorporates the most diverse array of disciplines. It enrolls more students and includes more majors than any other division of the University. All UNM undergraduates take numerous courses within the College as it is the repository for the core curriculum. Thus the College of Arts and Sciences occupies a primary place in the education of UNM students. The mission of the College is to create new knowledge, to broadly disseminate existing and new knowledge to students, and to train students in the evaluation and application of ideas to issues important to society at the local, state, national, and international levels.

Because of the great breadth of humanities, social science, and natural science disciplines encompassed by the College, it has traditionally featured an unusually high degree of cooperation and understanding among the constituent departments, Deans who have an integrative and synthetic vision, and a long-standing commitment to the principle of shared governance. The following By-Laws provide a detailed guide to the supradepartmental organization and operation of the College, the duties and responsibilities of the Dean, and the mechanisms by which the Dean and A&S faculty act cooperatively to fulfill the missions of the College.

I. The Office of the Dean

1. Authority

The authority of the Dean derives from the Board of Regents, the President of the University, the Provost, and the Faculty of the College, each acting within its lawful authority.

2. College By-Laws and the Faculty Handbook

a. The College By-Laws amplify and complement the UNM Faculty Handbook. None of the By-Laws shall be interpreted as revising or contradicting the provisions of the Handbook.

b. The appointment, term of office, functions, and periodic review of the Dean are described in the Handbook, Sections A51 (Article III) and C35. The duties of the Dean in connection with faculty reviews and the appointment and review of
departmental chairpersons are specified in the *Handbook*, Sections B4.3.2, B4.9.4-7, B5.6, and C40.

3. **Other Duties**

In addition to the duties prescribed by the *Faculty Handbook* (see article 1.2 above), the Dean shall have the following responsibilities:

- **a.** To provide educational leadership and set high standards for the College’s instructional and research programs;
- **b.** To promote the academic quality and welfare of the College’s faculty, through the authorization of new faculty positions, the diversification of the faculty, oversight of faculty development and review, and recommendations to the Provost concerning faculty reappointment, promotion and tenure, and special honors;
- **c.** To represent the College in its relations with the central administration, other colleges and units within the University, the student body, and public, and to advocate for the resources necessary to fulfill the College’s mission;
- **d.** To exercise control over the internal budget of the College, allocating and reallocating faculty and staff lines, graduate assistantships, and other resources;
- **e.** To review and assess the quality of the College’s departmentalized and non-departmentalized units, their effectiveness in clarifying, developing, and achieving their missions, and their participation in the College’s mission; and to use these assessments as the bases for budget decisions and decisions affecting the units’ instructional programs;
- **f.** To promote and maintain shared governance within the College concerning policies and resources, by consulting regularly with the departmental executive officers and the Faculty of the College, either directly or through their representative bodies;
- **g.** To select, assign responsibilities to, and evaluate the Associate Deans;
- **h.** To determine and oversee collegiate administrative structure and activities, including the associate deanships and the necessary nonacademic staff;
- **i.** To oversee and promote external fundraising and the acquisition of grants and contracts in support of the College’s instructional and research programs; and
- **j.** To facilitate conflict resolution by addressing conflicts as they arise and working to resolve them expeditiously according to established policies and procedures.

4. **Selection**

- **Search.** When a vacancy occurs in the deanship of the College, the Provost oversees a search for a new dean. After consultation with the Faculty and the Chairs of Departments in the College and other such persons as the Provost shall see fit, the Provost shall appoint a search committee. The search committee shall be diverse and broadly representative of the faculty in the College. The faculty component of the committee shall constitute a majority of the voting members of the committee and shall be chosen from a list of nominees provided by the
Council of Chairs. The committee shall be chaired by a person who holds a faculty appointment in the University. The committee shall include representatives of the student body and the College’s non-academic staff; it may also include other members designated by the Provost.

b. Appointment. The committee shall be consulted in connection with the drafting of the job description. The committee shall assess applications for the deanship and recommend candidates to be interviewed for the position. The Provost shall select finalists from the search committee’s list, and may add finalists from the pool of qualified applicants whose names do not appear on the list. The committee shall participate in campus interviews and shall ascertain and transmit to the Provost the assessments by faculty, staff and students regarding the short list of candidates being considered. The committee shall make recommendations to the Provost concerning the offer of the appointment.

II. Associate Deans

The College Professional staff at present includes three Associate Deans:

The Associate Dean for Faculty is responsible for matters involving faculty hiring, tenure and promotion, annual reviews and other personnel deliberations, as well as oversight of the College’s interdisciplinary programs and museums as appropriate.

The Associate Dean for Curriculum and Instruction is responsible for advising, student complaints and grievances, and advising the Dean concerning all matters involving curriculum and instruction, including summer session and part-time budgets.

The Associate Dean for Research is responsible for approving research proposals, especially compliance issues and cost-share, encouraging the sponsored research of all units in the College, and coordinating with the Office of the Vice President for Research, the Research Cabinet and Category 3 Research Centers, as well as oversight of interdisciplinary research centers in the College as appropriate.

Normally one of the 3 Associate Deans will also carry the title of Senior Associate Dean with responsibilities for serving as Acting Dean in the Dean’s absence.

The Senior Associate Dean and the Associate Dean for Faculty must have the rank of Professor; the other Associate Deans may come from the ranks of tenured Associate Professors or Professors. The Associate Deans do not participate in promotion and tenure decisions or votes at the departmental level. The Associate Dean for Faculty reads and makes recommendations to the Dean on all promotion and tenure decisions in the College. At the Dean’s discretion, normally in cases with divided votes, the other Associate Deans may be asked to make recommendations to the Dean as well, except that an Associate Dean holding the rank of Associate Professor shall not participate in reviews of candidates for promotion to full professor.
When a vacancy occurs the Dean circulates an open call for nominations and applications among the tenured faculty of the College. The Dean, other Associate Deans, College Development Officer, and College Administrator constitute the search and hiring committee.

III. The Faculty and the Faculty Assembly

1. The Faculty

In keeping with section A51, article 1, of the Faculty Handbook, the faculty of the College of Arts and Sciences includes all professors, associate professors, assistant professors, instructors, and lecturers, including part-time temporary faculty.

2. The Voting Faculty

In keeping with section A51, article 1, of the Faculty Handbook, the voting faculty of the College of Arts and Sciences shall include all full-time, continuing members of the faculty: instructors, lecturers, and assistant, associate, and full professors. All tenure-track and tenured faculty, regardless of FTE, will be voting members of the College faculty. Research professors, faculty on temporary or interim appointments (such as visiting professors) and non-tenure-track faculty on part-time appointments are not voting members of the College faculty. Voting rights at the departmental level are established by the faculty of the department according to Article II, Sec. 2 of the Faculty Constitution.

3. The Faculty Assembly

a. Membership. The Faculty Assembly comprises all members of the College faculty, as defined in article II.1 above. All faculty of the College may attend and comment in the Faculty Assembly, but only voting members, as defined in article II.2 above, may participate in formal votes. A quorum for the purposes of voting requires the attendance of at least 20% of the voting faculty.

b. Meetings. In keeping with section A51, article III.3c, of the Faculty Handbook, the Dean of the College of Arts and Sciences is the presiding officer of the Faculty Assembly. The College faculty delegates to the Dean, the authority to determine the number and timing of Assembly meetings. However, a special meeting may be called in writing by at least ten members of the voting faculty. In that case, the Dean will convene a meeting within three weeks of receiving the call. Except in the case of emergency meetings, the agenda shall be circulated at least five days in advance of the meeting.

c. Duties. The duties of the Faculty Assembly are to establish rules for the conduct of its business; to receive and respond to reports or recommendations of the Dean and College Committees; to identify topics about which the Dean or College Committees shall report back to the Assembly with information or recommendations; and to consider amendments to the College By-Laws.
IV. Committees

Some committees are established by authority of the Faculty Handbook and some by the authority of the College By-Laws.

1. Standing Committees

a. Chairs Council

The Chairs Council comprises the Dean, the Associate Deans, the Chairs of all departments, and the Directors of those programs, museums, and institutes with independent budgets in the College. (At present, these include the Maxwell Museum, the Museum of Southwestern Biology, the Institute of Meteoritics, African American Studies, Feminist Research Institute, Latin American Studies, Institute for Medieval Studies, Peace Studies, Religious Studies, Women Studies, and the International Studies Institute.)

The Chairs Council meets at least once a month during the academic year and can meet more frequently if there is sufficient business and during the summer if there are urgent matters. It also has a full-day retreat in August just before the academic year begins. The Dean chairs the meetings. The agenda is set by the Dean, but individual Chairs or groups of Chairs can also submit items for Council discussion or action.

The duties of the Chairs Council are to share information about developments in the College; to serve as a forum in which the Dean and Associate Deans can get advice about key issues; to serve as a major deliberative forum for issues involving College policy including, but not limited to, selection of the Dean, planning, budget, hiring, tenure and promotion practices, and development.

b. Senior Promotion Committee

Function. The Senior Promotion Committee (SPC) reviews the dossiers of faculty advanced by their departments for consideration for promotion from Associate to full Professor, and reports its recommendations regarding each candidate to the Dean. These recommendations are reviewed by the Dean in formulating his/her decision on the case, and are forwarded to higher administrative levels together with the Dean’s decision. Following the policy for more complete post-tenure reviews defined in section B4.9.7 of the Faculty Handbook, the Dean will seek a recommendation from the Senior Promotion Committee on cases where serious deficiencies appear to persist in a faculty member’s performance after a reasonable period of time for improvement. Should the Dean conclude that the case warrants informing the Provost, the dossier submitted to the Provost will include the recommendations of the Senior Promotion Committee. Prior to sending his/her recommendations on tenure and promotion or post-tenure review to the Provost, the Dean will inform the Committee Chair about the decisions.
Membership. The SPC consists of nine members of the College faculty having the rank of full Professor. Members are appointed by the Dean each year, following consultation with departmental Chairs. Each chair is responsible for nominating at least one potential member of the SPC each year. The precise nomination processes used are determined at the departmental level, but should include appropriate consultation with departmental faculty. Committee member terms are generally for two years and are staggered, in order to allow continuity from year to year. Members will be chosen by the Dean in order to provide new members as well as continuity from the previous year, and in order to reflect a broad range of departments and disciplines within the College. The Chair of the SPC is appointed by the Dean.

Process. The SPC typically has an organizational meeting late in the Fall semester, when information is available regarding which A&S faculty are being advanced for promotion to full Professor. At this meeting, the Dean and Associate Dean for Faculty discuss the Committee’s charge and review the criteria for promotion specified in the Faculty Handbook. Promotion candidates are assigned to committee members so that each candidate is reviewed especially thoroughly by two members.

After the candidate dossiers are complete in early January, each committee member reads all of the dossiers, provides a detailed written summary of the record of each candidate assigned to him/her for thorough review, and leads the discussion of those candidates before the committee in a second meeting (usually in late January). At this second meeting, each candidate’s record and qualifications for promotion are discussed thoroughly. Any committee member from the same department as a given candidate recuses him or herself from the work of the committee: they leave the room during discussion of that candidate and make no recommendation regarding promotion. Within a week after this meeting, each committee member fills out the standard A&S promotion evaluation form for each candidate, recommending for or against promotion, and returns these to the committee Chair. The Chair summarizes the Committee’s recommendations for each candidate in a report to the Dean, and the individual evaluation forms are forwarded together with the committee Chair’s report to the Dean.

c. Junior Promotion and Tenure Committee

Function. The Junior Promotion and Tenure Committee (JPTC) reviews the dossiers of faculty advanced by their departments for consideration for tenure and for promotion from Assistant to Associate Professor and faculty advanced for mid-probationary review, and reports its recommendations regarding each candidate to the Dean. These recommendations are reviewed by the Dean in formulating his/her recommendations, and are forwarded to higher administrative levels together with the Dean’s recommendation. Prior to sending his/her recommendations on tenure, promotion, and mid-probationary reviews to the Provost, the Dean will inform the Committee Chair about the decisions.

Membership. The JPTC consists of nine members of the College faculty having tenure and the rank of Associate or full Professor. Members are appointed by the Dean each year, following consultation with departmental Chairs. Each chair is responsible for
nominating at least one potential member of the JPTC each year. The precise nomination processes used are determined at the departmental level, but should include appropriate consultation with departmental faculty. Committee member terms are generally for two years and are staggered, in order to allow continuity from year to year. Members will be chosen by the Dean in order to provide new members as well as continuity from the previous year, and in order to reflect a broad range of departments and disciplines within the College. The Chair of the JPTC is appointed by the Dean.

**Process.** The JPTC typically has an organizational meeting late in the Fall semester, when information is available regarding which A&S faculty are being advanced for promotion and tenure and for mid-probationary review. At this meeting, the Dean and Associate Dean for Faculty discuss the Committee's charge and review the criteria for promotion specified in the *Faculty Handbook.* Promotion and mid-probationary candidates are assigned to committee members so that each candidate is reviewed especially thoroughly by two members.

After the candidate dossiers are complete in early January, each committee member reads all of the dossiers, provides a detailed written summary of the record of each candidate assigned to him/her for thorough review, and leads the discussion of those candidates before the committee in a second meeting (usually in late January). At this second meeting, each candidate's record and qualifications are discussed thoroughly. Any committee member from the same department as a given candidate recuses him or herself from the work of the committee: they leave the room during discussion of that candidate and make no recommendation. Within a week after this meeting, each committee member fills out the standard A&S promotion evaluation form for each candidate, recommending for or against tenure and promotion, and returns these to the committee Chair. The Chair summarizes the Committee's recommendations for each candidate in a report to the Dean, and the individual evaluation forms are forwarded together with the committee Chair's report to the Dean. A similar process is conducted for mid-probationary review candidates in February and the results are forwarded to the Dean.

d. **Sabbatical Leave Committee**

The Sabbatical Leave Committee is appointed yearly by the Associate Dean for Faculty, who chairs the Committee. The Committee consists of three tenured faculty, one each from the Humanities, Social Sciences, and Sciences. The Committee meets each semester and reviews and recommends sabbatical leave requests to the Dean. The Committee may ask candidates to clarify or strengthen requests as appropriate before making a recommendation to the Dean.

e. **Undergraduate Committee**

**Function.** The Arts and Sciences Undergraduate Committee (ASUC) is made up of representatives of the undergraduate units within the College. The overall role of ASUC is to advise the Dean on all matters pertaining to undergraduate programs and undergraduate units within the college, and to provide a link between the Faculty Senate
Curriculum Committee and decision-making in the College regarding undergraduate programs.

ASUC will not duplicate the governance work of the Faculty Senate Curriculum Committee, but will maximize less formal communication and dialogue regarding the improvement of undergraduate education within the College and the development of new undergraduate programs. ASUC’s purview will include, but not be limited to, identifying, addressing, and troubleshooting problems in undergraduate education that transcend any single department; advising the College in its efforts to support departmental recruitment and retention of minority undergraduate students; advising the Dean regarding proposals for new undergraduate programs and changes in existing programs; recommending improvements in college student advising processes; and following up on issues which surface from unit reviews involving undergraduate programs.

**Membership and Structure.** The Chair of each undergraduate unit in the College will appoint a faculty member to the ASUC. Members are chosen under procedures defined by each department, which should include appropriate consultation with departmental faculty.

**Operation.** The ASUC will generally meet two times per semester. The Dean of Arts and Sciences will be asked to attend one meeting per year. At other times, the ASUC will be presumed to have access to the Dean and Associate Deans as appropriate for ongoing consultation. These Deans will offer staff support for such areas as scheduling meetings, arranging meeting space, coordinating with the Faculty Senate Curriculum Committee, taking minutes, etc. Meetings of the ASUC will be convened by the Associate Dean for Curriculum and Instruction. Ten members will constitute a quorum.

f. **Graduate Committee**

**Function.** The Arts and Sciences Graduate Committee (ASGC) is made up of representatives of the graduate units within the College. The overall role of ASGC is to advise the Dean on all matters pertaining to graduate programs and graduate units within the College; to coordinate with the Dean of Graduate Studies on all matters affecting graduate programs within Arts and Sciences; and to provide a link between the Faculty Senate Graduate Committee and decision-making in the College regarding graduate programs.

ASGC will not duplicate the governance work of the Faculty Senate Graduate Committee, but will maximize less formal communication and dialogue regarding the improvement of graduate education within the College and the development of new graduate programs. ASGC’s purview will include, but not be limited to, identifying, addressing, and troubleshooting problems in graduate education that transcend any single department; advising the College and the Office of Graduate Studies in their efforts to support departmental recruitment and retention of minority graduate students; advising the Dean regarding proposals for new graduate programs and changes in existing programs within the College; and following up on issues which surface from unit reviews...
involving graduate programs, and carrying any concerns regarding graduate education within the College to the Faculty Senate Graduate Committee and the Dean of Graduate Studies, as appropriate.

Membership and Structure. The Chairperson of each graduate unit in the College will appoint a faculty member to the ASGC. This will ordinarily be that unit’s Director of Graduate Studies (or equivalent, for example Chair of Graduate Committee). The latter are chosen under procedures defined by each department, which should include appropriate consultation with departmental faculty.

Operation. The ASGC will generally meet two times per semester. The Dean of Arts and Sciences and the Dean of Graduate Studies will be asked to attend one meeting per year. At other times, the ASGC will be presumed to have access to both Deans and Associate Deans as appropriate for ongoing consultation. The deans will offer staff support for such areas as scheduling meetings, arranging meeting space, coordinating with the Faculty Senate Curriculum Committee, taking minutes, etc.

Meetings of the ASGC will be convened by the Associate Dean for Curriculum and Instruction. Ten members will constitute a quorum.

2. Ad Hoc Committees

The Dean has the authority to constitute and appoint ad hoc committees as needed. The following are the current (2003-04) ad hoc committees. This list will be amended yearly to reflect any changes in the committees or their structure.

a. Gunter Starkey Teaching Awards Committee

These awards recognize individuals who have made significant contributions to the College’s teaching mission. Three faculty and two teaching assistants are selected each year. The Starkey Committee is convened each year in the spring by the Associate Dean for Faculty and comprises the previous year’s winners of the award – both faculty and graduate students. The Committee reads applications from departments for faculty and graduate student awards and ranks the candidates. The final decision on the awards is made by the Dean.

b. Regents’ Professor and Regents’ Lecturer Committee

Regents’ Professor is a special title bestowed on selected senior faculty members who in the judgment of the Dean on the advice of a faculty selection committee merit recognition of their accomplishments as teachers, scholars, and leaders both in university affairs and in their national/international scholarly communities. There are three such awards and the term is three years. Regents’ Lecturer is a special title bestowed on selected junior faculty members (Associate Professors) who in the judgment of the Dean on the advice of a faculty selection committee merit recognition for their scholarly, teaching and service
accomplishments. There are eight such awards and the term is three years. As vacancies become available, the Regents' Professor and Regents' Lecturer Committees are convened by the Associate Dean for Faculty. Both committees are composed of previous awardees. The Committees read applications from departments for faculty and graduate student awards and rank the candidates. Applications are also reviewed and ranked by the Associate Deans. The final decision on the selections is made by the Dean.

c. **Distinguished Professor Nominations**

Following University guidelines for appointment of Distinguished Professors, once a department has agreed to support a distinguished professor nomination, and the Deputy Provost has reviewed the materials and conducted the Provost level evaluation, the Dean will be contacted for a recommendation on the candidates. The Dean will constitute a committee of current Regents' Professors, College Distinguished Professors and the Associate Deans to review and make recommendations to the Dean on candidates for this title. The Dean will report the results of the review and provide his/her recommendation to the Deputy Provost.

d. **Educational Properties Committee**

This Committee collects information on UNM properties generally located outside Albuquerque that have been, or could be, utilized by College departments or programs for their teaching, research, and outreach activities. The Committee advises the Dean on issues involving the acquisition, use, management, development, and disposition of such educational properties. The committee is composed of faculty from departments with interests in the properties. Members are appointed by the Dean for renewable yearly terms, and the Chair is selected by the Dean.

V. **Procedure for Electing Faculty Senators**

_Representation._ The *Faculty Handbook*, section A51, article 1.6a, states that “There shall be one senator for each thirty full-time faculty members or major fraction thereof from each school [and] college...elected by the members of that faculty.” Currently, each of the 13 A&S Faculty Senators represents 27 A&S faculty. A&S members of the Faculty Senate are determined by proportional representation based on departments or small groups of departments, as follows:

- Physics and Astronomy: 1 Senator
- History: 1 Senator
- Anthropology: 1 Senator
- Foreign Languages and Spanish & Portuguese: 1 Senator
- Linguistics, Speech/Hearing, and American Studies: 1 Senator
- Economics and Philosophy: 1 Senator
- English and Communication & Journalism: 2 Senators
- Biology and Earth & Planetary Sciences: 2 Senators
- Mathematics & Statistics and Chemistry: 1 Senator
Because it is possible that the number of faculty members within departments may change across time, and that adjustments in Senate representation may be needed in the future to maintain proper proportional representation, the Associate Dean for Faculty will monitor numbers of faculty in each department or departmental group once every two years to determine if any changes are needed in the composition of departmental groups or in allocation of Senators to the above groups.

*Election.* Chairs of each department or departmental group will be notified by the Associate Dean for Faculty when it is time for their department or group to hold an election for the Senate. Departmental groups should coordinate election of their representative(s), according to a process agreeable to all the departments within the group. Each group is also responsible for electing an alternate representative. Chairs will report the selection of their Senate representative(s) to the Associate Dean for Faculty promptly, who will then notify the University Secretary. These results shall be provided by the last working day of the sixth week of the Spring semester.

Terms for senators are two years. Initially, to establish a rotation, for departmental groups represented by two senators, the term of one senator will be one year and of the other, two years. Thereafter, all terms are for two years.

As current A&S representation is “at large” within the College, implementation of proportional departmental representation will be phased in as the terms of present Senators end, so that by the end of the two-year terms of Senators currently in the first year of their term, the proportional representation outlined in the section on Representation above is achieved.

*Caucus.* The College Senators may elect to organize themselves as a caucus in the College to provide information and advice to the Dean and Chairs Council on Faculty Senate matters of interest to the College.

**VI. Approval and Amendment of By-Laws**

1. *Approval*

A mail or electronic ballot with a copy of the By-Laws document shall be sent to the voting faculty of the College. Upon approval by a majority of those who cast ballots and by the Dean, these shall become the permanent By-Laws of the College.

2. *Amendment*
The Dean shall review and consider amending the College By-Laws at least once every seven years. Amendments may be proposed at any time by ten voting members of the Faculty Assembly, or by the Dean. Amendments shall be transmitted to the Faculty Assembly at least ten days before the scheduled vote takes place, and discussed at a Faculty Assembly meeting before the vote. Ratification of amendments shall require the approval of a majority of the voting faculty of the College who cast ballots. If approved, amendments shall become effective at the beginning of the next academic semester.

In those areas which the College By-Laws entrust to the discretion of the Dean, the By-Laws may, without a faculty vote, be revised to reflect changes in the College administrative structure. Such areas include the creation or dissolution of Ad Hoc Committees and the redefinition of the titles, qualifications, and duties of the Associate Deans and other administrators. Such changes should, however, be made only after consultation with the Chairs Council.
1. Significant Developments:
   In January 2005, in conjunction with the MLK State Commission, the program mounted a very successful Dr. Martin Luther King Jr. Birthday Celebration. Several hundred members of the local and academic communities were in attendance.

   In February, Army veteran Ms. Shoshanna Johnson was invited to serve as the keynote speaker for the university's annual Black History Month Celebration. The event was an overwhelming success. The event sold out its 300 seats.

   With the announcement of the retirement of Dr. Shianne Okunor, the Program was represented by Dr. Admasu Shunkuri during the College of Liberal Arts' search for a new director. The search yielded the current director, Dr. Finnie D. Coleman, former Associate Director for the Honors Program at Texas A&M University as Dr. Okunor's replacement.

2. Significant Plans and Recommendations – The coming academic year promises to be an exciting one for African American Studies. Numerous interdependent plans are being developed. Three of the most significant of these are listed below:

   Curriculum Revision – In Fall 2005, the African American Studies Program will significantly revise its curriculum for both the Bachelors degree and Minor degree in African American Studies. This curriculum revision will shift the particular focus of the program from the exclusive study of the African American community to a more global focus on the various communities that constitute the Black or African Diaspora.

   Name Change – Anticipating the curricular changes mentioned above, the director has forwarded a petition to have the program's name changed from the "African American Studies Program" to the "Africana Studies Program." While African American Studies will remain a strength of the program, the faculty will seek to cultivate other areas of strength in Africana Studies that will provide our students with an even richer undergraduate experience that encourages the development of a global world view, champions undergraduate research, and offers a rigorous interdisciplinary approach to the study of the historical, cultural, and intellectual
- legacies of people of African descent. While a complete refashioning of the curriculum will take a number of years, it is important to move forward with changes that reflect the program's new direction. The proposed name change has been enthusiastically accepted by the African American Studies faculty and other stakeholders on campus.

**Hiring Plan** - With the unflinching and generous support of the Dean, the program has developed a progressive and ambitious hiring plan that will address the virtual absence of tenure-track faculty serving the program and the University as a whole. The first step in this plan is to pursue a "joint" hire with the Department of history, fall 2005.

**Recommendations** - While the College of Liberal Arts has demonstrated its commitment to building a strong tenure-track faculty in African American Studies, it is important to reiterate that these efforts address a pressing need for the campus at large: namely the glaring under representation of Black faculty on our campus. Concomitantly, recognition and resolution of the problem of under-representation must not rest solely on the College of Liberal Arts. Nor can the capital and hiring outlays required for a robust program rest solely on the College.

The program is at a critical moment in its history, and the future is contingent upon the development of strong interdisciplinary ties that move beyond the College. As a result, other stakeholders on campus, beginning of course with the President's and Provost's offices, should at every turn be encouraged to become more vested in the development of the African American Studies Program. Moreover, stakeholders should be encouraged to clearly state the level and nature of their support as well as the degree to which they are willing to share resources.

If the university's goal of fostering diversity and providing a welcoming environment for underrepresented students is to meet with success, resources must be directed towards the realization of a program that is more than an academic home, but that also serves as a cultural and intellectual bridge between UNM and the Black community at large.

3. Appointments to Faculty/Staff – None from July 2004 to June 2005

4. Separations of Faculty/Staff – None from July 2004 to June 2005

5. Publications – None from July 2004 to June 2005

6. **Outside Professional Activities of Staff Members** – None from July 2004 to June 2005

7. **Outside Sponsored Research** – None from July 2004 to June 2005
The faculty in American Studies continues to operate as a committee-of-the-whole in setting policy and implementing the program of study for undergraduate and graduate students. During the 2004-2005 year Professor A. Gabriel Meléndez served as Chair of the department. Professor Amanda Cobb served as Graduate Director and Professor Rebecca Schreiber served as Undergraduate Director.

I. Significant Developments

Three major areas of work shaped the 2004-2005 academic year in American Studies. These areas were 1) new faculty hires, 2) faculty mid-career reviews and 3) completion of the planning for College-lead initiatives on Success, Excellence and Distinction. American Studies has move to a position of increasing strength and distinction in marked areas of its graduate program. It is now clear that the department is outpacing the prognosis of our external reviewers in 2003 to the effect that “with greater commitment and support, American Studies at the University of New Mexico is within striking distance of emerging in the top ten program on a national level within the next five to ten years” (External Review Report, 5) We are confident that if subjected to NRC rankings today, American Studies would rank among the top 10 American Studies graduate programs in the nation. We are pleased that our distinctive achievements (faculty-student diversity, location in Hispanic-serving UNM, the balance between our undergraduate and graduate programs) have been strengthened by recent developments in our department. In our estimation, American Studies excels at fostering interdisciplinary
research and at building student and intellectual diversity in its programs. We believe that our graduate programs enjoy distinction at the University of New Mexico.

1. New Faculty Appointments

American Studies has been diligent in working to fill faculty lines resulting from departures or lines created through opportunity hires approved by the Dean of Arts and Sciences. As a result, we have hired two full time Assistant Professors and two tenured part-time Professors. All four appointments made in 2004-2005 will begin in August of 2005 at which time American Studies will have a core faculty of 7.25 FTE, a historic high. But, beyond FTE considerations, these particular appointments are of enormous strategic importance to Department’s forward movement toward greater distinction and increased standing as a leader in interdisciplinary graduate education.

Our recent hires include:

Jake Kosek (Ph.D. Geography, U.C. Berkeley, 2002) who was hired in the spring of 2004 as an Assistant Professor to teach in Environment, Science and Technology concentration. Prof. Kosek appointment was deferred to the fall of 2005 to allow him to complete a Ciriacy-Wantrup Post-Doctoral Fellowship in Natural Resource Studies at U.C. Berkeley over the 2004-2005 academic year. Kosek is an outstanding young scholar whose research on nature, environment and social policy tracks complex connections between environmental and social policies. His current work results from some 20 months of field research in Truchas, New Mexico exploring cultural politics and the political economy that has created tensions between historic communities and the National Forest Service over land and resources. Aloysha Goldstein (Ph.D. American Studies, New York University, 2005) is an energetic, young scholar with research and teaching interests in globalization, social movements, civil society, critical policy studies, policing and punishment, urban studies and comparative histories of colonialisms. Goldstein will join the faculty full time in the fall of 2005 as a consequence of a spousal hire in our department. Laura E. Gómez (Ph.D. (Sociology)/J.D. Stanford University, 1994) comes to UNM from the University of California at Los Angeles were she held a joint appointment in Sociology and the Law School. Currently, Professor Gómez is a resident scholar at the School of American Research where she is advancing her research on comparative racialization and the American legal system. In the fall of 2005, Professor Gómez will hold a .25 FTE senior-rank appointment in our department and will teach one course a year in the area of Race and the Law for American Studies. The remainder of her appointment will be in the Law School. Gerald Vizenor (Emeritus Professor, American Studies, University of California at Berkeley) is among the best-known and most widely published scholars on Native American literature. The author of some 30 books and dozens of scholarly essays on Native America, Professor Vizenor, emeritus from U.C. Berkeley, will hold a .50 FTE senior-rank appointment in the department beginning in the fall of 2005.
Notice of these recent hires has begun to circulate to scholars and students in American Studies and to far-ranging interdisciplinary areas like ethnic studies, environment/nature studies, southwest studies and critical legal studies. When added to the roster of continuing faculty in American Studies, the potential for our department to become a national academic power is in sight and at hand.

2. Faculty Mid-Career Reviews

In 2004-2005 American Studies conducted a mid-probationary review of Assistant Professor Alex Lubin. As is the case in a small department like American Studies, a great deal of time, energy and resources went into the review process. In this particular instance, the Department also needed to call upon senior faculty in History to serve on the faculty review committee.

II. Faculty Contributions 2002-2003

Visiting Assistant Professor Kristan Cockerill

Kristan Cockerill (Ph.D. UNM-American Studies 2000) held a one-year visiting appointment in American Studies in 2004-2005. Professor Cockerill taught a set of courses to supplement our undergraduate and graduate offerings in our Environment, Science and Technology concentration.

Assistant Professor Rebecca Schreiber

Professor Rebecca Schreiber continues to teach in Popular Culture and Culture Studies, two important teaching areas in our department. Professor Schreiber offered three courses this year: AM ST 500 (Proseminar), 510 “Visual Culture” and 485 “Senior Seminar in U.S. Culture”. The Proseminar and 485 are required courses in the department. The former is a team-taught common experience course required of all incoming graduate students, the latter qualifies as a
common experience course for our undergraduate majors. In addition, Professor Schreiber developed AM ST 310/510, “Visual Culture”, specifically to fit the needs of students in our Culture Studies concentration. As Undergraduate Director this year, Professor Schreiber was responsible for mentoring the majors in our program. Due to her efforts, five undergraduate majors successfully completed Senior Honor’s theses in the department this spring. Students presented their work at a Senior and Honors symposium that Professor Schreiber organized at the end of the spring term. Professor Schreiber’s mentorship of graduate students also proceeds at an energetic pace.

Professor Schreiber’s scholarly activity this year includes the presentation of a paper in November 2004 at the annual meeting of the American Studies Association. She was also invited to do a talk for the Robert Rodriguez Film Festival as part of the Southwest Semester at UNM. Professor Schreiber has recently received a RAC grant to support research for her book. Her book monograph, *The Cold War Culture of Political Exile: U.S. Artists and Writers in Mexico, 1940-1965*, is under advance contract with a midwest university press. Professor Schreiber also had a review essay published in *American Quarterly*, the journal of record in her field. As Undergraduate Director, Professor Schreiber has worked to promote the undergraduate major by participating in “senior” days and major fairs on campus. She has taken the initiative to improve the experience of the undergraduate majors by coordinating workshops for their benefit. This spring, she worked with the Chair to produce an ASA Community Partnership Grant designed to fund graduate and undergraduate interns. She has also helped shape the American Studies Lecture Series and organized a book signing for Alex Lubin. Professor Schreiber is contributing to the academic community-at-large as a member of the American Studies Association and as a result of being asked to be a manuscript reader for Longman Publishers.
Professor Lubin underwent a third-year mid-probationary evaluation this past year. The department and College committees reviewed all aspects of his appointment. Professor Lubin’s undergraduate and graduate courses are generating high student interest inside and outside of American Studies. In the fall of 2004, Professor Lubin became the senior member of the teaching pair (Lubin and Schreiber) for AM ST 500. This assignment is a move into the heart of graduate instruction and reflects the Department’s confidence in his ability to guide our cohort of graduate students in the critical first year of study. Last year, largely at his insistence, the department initiated an undergraduate film night that lead to the creation of the American Studies Undergraduate Student Association, a first in our department. Next year, Professor Lubin is slated to become the department’s Undergraduate Director. He is also preparing a new large-format introductory course that we believe will funnel an increased the number of majors and minors to our program.

Professor Lubin’s a single-authored book, Romance and Rights: The Politics of Interracial Intimacy, 1945-1953 with the University of Mississippi Press was issued in January 2005. The book is notable for its innovative approach to civil rights scholarship and its interdisciplinary scope. Professor Lubin is already moving forward on other major research projects. His new work on the African American writer, Ann Petry, has already brought forth an article, but more importantly, the new work announces a trajectory in his scholarship that builds on previous research questions that add to the scholarly conversation about post World War II civil rights in America. He is now on to the work of producing a co-edited volume on Ann Petry and is continuing work on his proposal to study the regulation of intimacy in Israel and Palestine in a cross-cultural, cross-disciplinary and comparative fashion. Lubin was instrumental
in establishing the American Studies Lecture Series that has drawn a great deal of campus-wide support and involvement for two-years running. He also developed a proposal to the American Studies Association to bring the national meeting to Albuquerque in 2008. The ASA executive committee ratified the idea and asked him to chair the site committee for the 2008 national meeting to be held in Albuquerque.

In the spring of 2005, Professor Lubin received word of a positive mid-probationary evaluation.

**Associate Professor Amanda Cobb**

Professor Cobb was tenured in American Studies in May 2004. Her main teaching assignment continues to be in Race, Class and Ethnicity concentration. In the fall Professor Cobb offered a graduate seminar on “Language and Representation” along with “Native American Experiences,” an undergraduate course that was also part of a Freshmen Learning Community. In the spring she taught “Introduction to Race, Class and Ethnicity,” a course that enrolled a large number of undergraduates (49 students). She also offered “Native American Cultural Production” as a graduate seminar.

Professor Cobb was productive in her scholarship this past year. She served as guest editor for a special issue of American Indian Quarterly that featured the opening of the National Museum of the American Indian in the nation’s capital. She authored two of the items in this issue, an article and an interview with NMAI director, Richard West. Her other publications this year include an encyclopedia entry for the Oklahoma Historical Society and a book review for the New Mexico Historical Review. In November 2004, Professor Cobb presented a paper at the American Studies Association meeting in Atlanta. She engaged in an active speaking and teaching schedule that carried over into the summer of 2005 when she was asked to direct a two-
week summer institute at the Newberry Library in Chicago focusing on American Indian boarding schools.

Professor Cobb is active in service to American Studies, to UNM and to the broader community. This year she served as Graduate Director for the department. Campus-wide, she served as a faculty senator, was a member of the Teaching Enhancement Committee and was an outside member of a faculty search committee in Art History. In 2004-2005 Professor Cobb was appointed the first Director of the Institute for American Indian Research (IFAIR), a center housed in Arts and Sciences and affiliated with American Studies.

Professor Vera Norwood

Professor Norwood began the 2004-2005 academic year in her full time assignment as the Senior Associate Dean in the College Office. She continued to participate in Department faculty meetings throughout most of the fall semester. In April, she was appointed Interim Dean of the College of Arts and Sciences. Despite her taxing schedule, Professor Norwood continues to advise and direct a limited number of graduate students in the department.

Professor Jane Young

Professor Young completed her first year of a renegotiated contract with UNM that reduces her time in the department to 0.0667 FTE. By contract, Professor Young is to teach one course per semester and to provide service commensurate with this two-thirds appointment. Professor Young’s teaching areas remain Gender Studies, Ethnographic Research Methods and American Folklore and Folk life. Professor Young advises several American Studies graduate students. In the 2004-2005 year she continued to chair 9 dissertation committees. In the fall Professor Young published, “Ethnographic Analogies in Southwestern Rock Art” a chapter in the edited volume, *New Dimensions in Rock Art Studies* issued by Brigham Young University. Professor Young has
several on-going research projects slated for future publication. She continues work on a manuscript for the School of American Research for which she has had an advance contract since 2003. A co-edited volume of articles has accepted for publication by the University of Texas Press and is due out in the summer of 2005. She is also a consulting editor for Archaeoastronomy at the University of Texas.

Professor Gabriel Meléndez

Professor Meléndez’s teaching areas remain in Culture Studies, Race, Class and Ethnicity and Southwest Studies. Professor Meléndez advises several American Studies graduate students and is directing five dissertation committees. He graduated one MA student who completed the thesis in the summer of 2005. Professor Meléndez maintains a high level of scholarly activity. His major research in 2004-2005 stems from his on-going development of a book monograph titled, “Chicano Film Drama in New Mexico: Cultural Encounters On and Off the Screen”. This monograph of some 230 pages in length is approximately eighty-five percent complete. It presents a fascinating, scholarly account of a half-dozen or so “film moments” in New Mexico history and examines materials previously untouched by serious scholarship and research. Each of these “scopic” or “specular moments,” is replete with drama, intrigue and a politics of cultural representation fixed by specific cinematic practices and by an uncanny set of socio-cultural encounters peculiar to our region. In 2004-2005, he, on two occasions, presented, “Competing Images of Mexican Americans in Salt of the Earth and And Now, Miguel,” a talk and media presentation derived from his monograph. As a participating scholar, he delivered the paper at the Conference on Expressive Culture in the Hispanic Southwest, Southwest Hispanic Research Institute, University of New Mexico, Albuquerque, NM in September 2004. In the spring, he
was invited to deliver the same talk at the Center for the Study of Race and Ethnicity in America at Brown University, Providence, RI. Professor Meléndez’s publishing activity continued this past year, in the spring, the University of Arizona Press released Professor Meléndez’s book, *Spanish-language Newspapers in New Mexico, 1834-1958* [a reprint of *So All Is Not Lost*]. Later in the year he was an invited scholar-consultant for the Robert Rodriguez Film Festival as part of the Southwest Semester at UNM. In the fall of 2005, he will co-teach the Proseminar, (American Studies 500) a move that will put him at the heart of graduate instruction and training for the department.

Professor Meléndez was on the site committee for the 8th Conference of The Recovering the U.S. Hispanic Literary Heritage Project that was held at UNM in November 2004. He was also invited to deliver a paper on Hispanic biographical narratives at this meeting and he was selected to co-edit Volume VI, the selected papers of this conference to be published by the University of Houston.

In his capacity of Chair of American Studies, Professor Meléndez prepared each of the three planning documents requested from the department by the Dean of Arts and Sciences. Also, under his direction, American Studies submitted and was successful in receiving a grant from the American Studies Association to implement a service-learning program that provides for paid graduate and undergraduate internships with the New Mexico Office of the State Historian.

III. 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 can be seen in the following overview:
<table>
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The Department 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 2004-2005 academic year American Studies maintained cooperative course

¹ Includes Undergraduate Problems, Individual Graduate Problems, Theses and Dissertation Hours.
scheduling arrangements with African-American Studies, Chicano Studies, English, Native American Studies, Political Science, Women Studies and University College.

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 31 applications from students seeking admission to our graduate degree program. American Studies offered admission to 23 students. Eleven new students accepted our offer and 2 returning students were readmitted to the program while 3 students continued on from MA to PhD candidacy. A total of 13 graduate students will enter the program in the fall of 2005, with one new student deferring to fall, 2006.

V. Future Plans

At the request of the Dean of Arts and Sciences American Studies produced three planning documents around the College-lead initiatives on Success, Excellence and Distinction. These documents map out the short, mid, and long-range initiatives for our department.

American Studies is implementing a number of mid-range initiatives meant to enhance its undergraduate program over the course of the next three years. The overarching goal of our reforms would be to stimulate moderate to vigorous growth in the undergraduate major by increasing the number of majors by just over a third, going from the present number of 45 to 70 and by increasing the number of minors by half, from 30 to 60. We are not interested in growth for growth’s sake but would like to establish a pace and rate of growth that bolsters our program while approximating the experience that undergraduate students receive at smaller liberal arts colleges as they course through the major. While we believe that some increase in numbers is a good thing, we also think that we will be most successful in transferring the “liberal arts effect” to our own
undergraduate interdisciplinary studies majors and minors by maintaining an emphasis on quality over quantity. Thus, we are most interested in building a community of learners, rather than simply adding numbers to our lists of majors and minors. Our goal is more specifically to transform our major and, to quite frankly, set it apart from others by having it offer students the excitement of building knowledge through the process of dynamic and vigorous group dialogue and exchange.

Building a Community of Undergraduate Learners through Interdisciplinary Studies

We believe that implementing the following ideas will produce the transformation we seek in our undergraduate major and speak to our vision of undergraduate education:

1. develop learning through a service learning and civic engagement component,
2. strengthen American Studies undergraduate honors,
3. encourage a semester away and International/Transnational Study,
4. revise the undergraduate curriculum,
5. partner with Freshmen Living and Learning Communities,
6. publicize our undergraduate major.

As a department we are quite aware that it would be premature to claim victory on the basis of faculty hires alone. Achieving distinction that is measurable and tangible will only be possible if we set out clear and attainable goals for our department for the next 2 to 5 years. Our objectives need to factor in ways to employ our faculty resources efficiently. To this end, here we have identified several initiatives that we believe will garner greater distinction at the national level over the course of the next few years.

1. Planning and Design of Graduate Curriculum

When considered as a group our newest faculty hires (Goldstein, Gómez, Kosek, Vizenor) increase and some instance create whole new interdisciplinary connections to the Social Sciences, the Natural Sciences and the Law. These new links to fields across UNM will require
us to rethink and refashion our existing graduate curriculum. We would seek to ally the expertise of our new and continuing faculty to fields like Sociology, Anthropology, Community and Urban Planning and Law in new interdisciplinary combinations. Some portion of an upcoming retreat would be given to explore faculty initiatives such as one that follows on New Critical Regionalism:

A. New Critical Regionalism

The terrain of American Studies has changed considerably over the last decade in ways that make New Mexico's graduate program well positioned to become a leader in the field. The new emphasis within the field on issues of globalization, borderlands, race and colonialism have led some American Studies scholars to call for a new critical regionalism. This new regionalism attempts to situate the study of local and regional histories within transnational and global contexts. In short, this is the kind of scholarship that has taken place in New Mexico's American Studies program for a long time. We are therefore confident in our ability to be nationally recognized as the place to do transnational and regional American Studies. Few American Studies programs are as well equipped to engage the call for a new critical regionalism. This kind of study requires a faculty willing to do transnational American Studies and one that has embraced the decades long merging of Ethnic Studies and American Studies methodologies. Our faculty's research interests allow us to build strength in the area of critical regionalism and specifically to show the local and global aspects of Southwest history and culture. In this regard we believe we can be a leader not just within the field of American Studies but also on our campus, as the University proceeds with its goals to make international studies an area of marked distinction.
The addition of professors Goldstein, Gomez, Kosek, and Vizenor build on our existing strengths in critical regionalism and will go a long way in solidifying our reputation. Each of our faculty is interested, in various ways, in how questions of race, colonialism, and transnationalism shape American experiences. Yet, because this new critical regionalism is so focused on how bodies are gendered and sexed, as well as racialized and territorialized, we recognize a gap in our department's ability to fully carry out the kind of critical regionalism that will most distinguish our department in the future. We hope to be able to hire a scholar whose engagement with the new critical regionalism comes through an analysis of gender and sexuality. Ideally, this scholar would focus on how issues of colonialism and racialization in the Southwest were carried out through discourses of gender and sexuality.

We feel that the best way to plan and organize major new initiatives such as the one outlined above is to set aside sufficient time for to plan for such change. We think that holding a two-day faculty retreat and summit on our graduate curriculum, away from distractions of campus work is the best. Several more substantial planning items would round out the agenda for this retreat. Things such as 1) plans for hosting the national meeting of ASA in 2008, 2) undergraduate curriculum planning, 2) plans for commemorating our 30th anniversary year and 3) plans for implementing a fund raising campaign.

2. American Studies 30th Anniversary as a Department.

This year 2005 marks American Studies 30th anniversary of the granting of formal approval from the General Faculty for American Studies to take its place as a department in the College of Arts and Sciences. We would like to finalize plans for several events that may include sponsoring commemorative speakers, essays, lectures, awards, programs, seminars and fund raising events. Aside from matters of ceremony, our 30th anniversary year represents an
important milestone for the department that we would like to leverage in the work of creating greater visibility and recognition for the department. We feel it is an opportune moment to launch a major donor campaign that would reach out to our alumni and faculty colleagues around the nation. Some funds will be needed to build and manage a donor database and other duties associated with managing this fund drive. Chief among items we would like to raise money for would be a full-funded speaker and conferences series and multi-year scholarships to recruit top graduate students.


We believe that having ASA in Albuquerque will provide our department the unparalleled opportunity to showcase the talent of our faculty, graduate students and strength of our graduate programs. While this event is sure to bring us national attention we would also anticipate that with such visibility would come the scrutiny of the association and ASA member institutions governing committees. Thus, it is crucial that we prepare and ready ourselves for both welcomed recognition and healthy inquiry as to the status of our program. While Professor Lubin has been appointed by ASA to chair the site committee for 2008 we as a department need to lead in developing and implementing a series of pre-conference workshops and meetings that model our curricula and faculty initiatives to American Studies programs in this country and abroad. For example, we would do well to host a meeting of the Rocky Mountain American Studies Association in Albuquerque in 2007 to involve our graduate students and others in discussions on topics like New Critical Regionalism.

4. Graduate Student Recruitment and Support.
No graduate program can expect to attract high caliber graduate students if it has not done the hard work that leads to high quality graduate training, a dynamic curriculum and intellectual vigor in the form of academic exchange with the best qualified and competitive faculty. Distinction of this sort must be ahead of recruiting students to the department. Still, no department can reasonable be asked rise to distinction in graduate training without securing the kind of financial resources that will allow the department to compete with its comparable institutions. In our 2003 review we took time to check our graduate financial aid packages to graduate students against those of peer institutions. At that time we declared that we wished to measure ourselves against the University of Minnesota’s graduate program in American Studies: “Long-considered a top-tier AS program, we include Minnesota, as something of a “quality mark” the department would like to reach in the next five to seven years (Self-Study, 7). It is clear that in the complex matter of establishing distinction a good portion of our attention must be focused on increasing graduate student support. We are committed to visiting our assignment of financial aid dollars and working with the College and with OGS to find creative ways to bundle financial offers so that they are both attractive and competitive inducements for study to come to program. These cost-neutral initiatives will go a only short way to improving this situation, substantial improvement we believe is through the allocation of new GA and TA lines to our department. Something we would like to have in place by the fall of 2007.

V. Appointments, Departures, etc.

Department Administrator, Peggy Garves, transferred to position in the College of Education, November 2004.

Department Administrator, Sandy Rodrigue was appointed in American Studies, January 2005.
Visiting Assistant Professor Kristen Cockerill held a one-year appointment, August 1, 2004 – May 15, 2005.

Assistant Professor Jake Kosek received a deferral of appointment to allow him to complete a Ciriacy-Wantrup Post-Doctoral Fellowship in Natural Resource Studies at U.C. Berkeley over the 2004-2005 academic year.

Professor Vera Norwood, Senior Associate Dean of the College of Arts and Sciences was appointed interim Dean of Arts and Sciences in April 2005.
DEPARTMENT OF ANTHROPOLOGY
JULY 1, 2004-JUNE 30, 2005

Significant Developments during the Academic Year, 2004-2005

DEPARTMENT ACTIVITY BY SUBFIELD

Subfields

The Department maintains graduate and undergraduate programs in four subfields: Archaeology, Biological Anthropology, Ethnology, and Human Evolutionary Ecology. Conveners (annually elected by the subfield) call subfield meetings at least monthly.

Advisory Council

The subfield conveners (unless such are untenured) and the Chair meet as needed to advise the Chair on matters relating to personnel, administration and budget; make recommendations about related planning, policy, procedures, and other issues for discussion and vote by full faculty. The Advisory Committee is a liaison between the Chair and the subfields. Advisory council members are expected to attend faculty meetings.

[Fall 2004-05] Boone (Arch), Hill (Bio), Weigle (Ethno), Lancaster (HEE)
[Spring 2005] Boone (Arch), Buikstra (Bio), Weigle (ethno), Lancaster (HEE)

Archaeology

UNM Southwestern Archaeological Field School was held in 2005 in the southern portion of the Jemez Mountains. The Mountains are volcanic in origin with elevations ranging from 6,500 to 11,000 ft. During the field school, students learned state-of-the-art field archaeological skills that emphasized recognition and mapping of surface archaeology. As management and protection of archaeological resources have become increasingly important, archaeological fieldwork has moved away from excavation to the research, documentation and protection of the surface archaeological record. Our fieldwork reflects this changing orientation. Students, however, also had exposure to excavation method and technique by working with professional archaeological crews at a large site in the Valles Caldera.

Chaco Canyon Field School. Chaco Canyon is located in the remote center of the San Juan Basin of Northwest New Mexico, and is one of the most spectacular archaeological places in North America. Between A.D. 900 and 1100, a stunning cultural transformation occurred as small farming villages coalesced into dense communities
surrounding massive communal buildings called Great Houses. But despite more than 100 years of archaeological research, the reasons for this remarkable period of social dynamism remain enigmatic and mysterious. The Department of Anthropology at UNM is conducting new research at Chaco Culture National Historical Park and invited applications for places in the first undergraduate field school in Chaco since the 1940s. The field course was held during the Summer of 2005 and will continue in the Fall of 2005.

38th Annual Bioarcheological Field School at the Center for American Archeology
Directed by Jane E. Buikstra, Ph.D., the field school emphasized both empirical and theoretical training in archeological research design and implementation. The University of New Mexico Field School in Illinois offered students the opportunity to participate in ongoing professional research. Students received individual instruction and worked side by side with professional archeologists. Through this "hands-on" method, students are inspired to learn more than the routines of field and laboratory methods for archeological recovery and analysis. We challenged students to develop the conceptual abilities that underlie successful archeological projects and to develop an appreciation for the range of issues addressed through archeological investigation. Experiences at archeological sites and research laboratories were supplemented by classroom study.

Biological Anthropology

Dr. Keith Hunley was hired for the Assistant Professor of Biological Anthropology after a competitive search. He served as a Visiting Research Professor during the academic year and also taught courses as a Part Time Instructor during the summer of 2005.

Primate Enrichment Program at the Rio Grande Zoo is ongoing, and we are now entering our third year of providing enrichment at the zoo. Enrichment is provided for all primates, animals housed in the cat/carnivore area of the zoo, and to the polar bears. Items that we use often have a one-time usage, and we are constantly in need of these items. Our program currently has about 15 graduate and undergraduate volunteers who provide enrichment seven days a week.

Ethnology and Linguistics

**Indigenous Film Festival**, coordinated by Dr. Beverly Singer and co-directed by Dr. Ann Ramenofsky in conjunction with the Department of Native American Studies, was funded by a grant from the McCune Foundation. On January 29, Zackarius Kunuk attended the showing of his film “The Fast Runner (Atanarjuat)”, which received international recognition at the Cannes Film Festival winning the Golden Camera Prize for first time directors. On March 4, Mereta Mita, a Maori filmmaker, showed her film “Mauri”. She is the first Maori to direct fictional films using Maori traditions. On April 29 and 30, Shelley Niro, a Quinte Bay Mohawk, showed her film “Honey Moccasin” which examines the issues of cultural theft.

**Human Evolutionary Ecology**

**Research** Dr. Hillard Kaplan continued his research in Bolivia with $3,167,000 in grants to fund the Tsimane Research project. He also continued other grant funded projects such as The Human Life Course and the Biodemography of Aging (NIA), Grandparenting and the evolution of post-menopausal lifespan (NSF), Inflammation and Metabolic Risk and the Aging Process: Diet, Disease, and Development (NIA), Mellon Network on Collecting Biomarkers in Latin America (Mellon), and Alternative Field Methods for Collecting Biomarkers (Mellon). He also received the International Excellence Award for 2005, Office of International Programs and Studies, University of New Mexico.

**Graduate Successes** We have also had great success with our graduates. Stacy Rucas, who received her PhD in December 2004 has received an appointment to Assistant Professor in the Social Sciences Department at California Poly State University in San Luis Obispo, CA. Amanda Veile received a NSF fellowship for three years to cover research, tuition, and travel. Wes Allen-Arave received an NSF Dissertation Grant, Paul James received a Wenner-Gren Foundation grant, John Wagner received a Leaky Foundation Field Research Grant, and Eric Frink received a Fulbright Foundation Fellowship.

**DEPARTMENT ACTIVITY**

**Committees**

**Graduate Committee** Committee chair is Graduate Director appointed by Department Chair for a two-year term; three other committee members are elected annually by remaining subfields. Meets at least monthly. Oversees all graduate matters, including curriculum, scheduling, allocation of GA/TA/RAships, outcomes assessment, and nominations for various graduate scholarships and awards. Graduate Director has signatory power in the Chair’s absence. The Graduate committee also completed the Distinction component of the document entitled “Planning for Success, Excellence and Distinction” issued by the College of Arts and Sciences in the Fall of 2004.

[2004-05] Rodriguez (chair) Pearson (Bio), Oakdale (Ethno), Huckell (Arch), Kaplan (HEE), Erika Gerety (staff)
**Undergraduate Committee** Committee chair is Undergraduate Director appointed by Department Chair for a two-year term; three other committee members are elected annually by remaining subfields. Meets at least monthly. Oversees all undergraduate matters, including curriculum, scheduling, 101, outcomes assessment, and advising. Undergraduate Director has signatory power in the Chair’s absence. The Undergraduate committee also completed the Excellence and Success components of the document entitled “Planning for Success, Excellence and Distinction” issued by the College of Arts and Sciences in the Fall of 2004.

[2004-05] Field (chair, Ethno), Hill (Bio), Lancaster (HEE) Ramenofsky (Arch), Nieto (staff)

**Instructional Resources Committee** The committee and its chair are appointed annually by the Chair. The committee meets once per year, in September. The committee coordinates and oversees all matters related to the instructional use of computers, media (audio-visual, CD-ROM, renewable and permanent laboratory supplies, etc.), and advises the chair as to the allocation and use of space. The committee also maintains an inventory of current resources and develops (in consultation with Graduate and Undergraduate Committees) a comprehensive, visionary (long- and short-term) plan for instructional programs. This plan will help inform Department grants, equipment requests, policy, and future directions.

[2004-05] Dinwoodie (chair); Crown, Powell, Kimbrough, Capling

**Board of Archaeologists** Communicates with and advises UNM President and other officials on archaeological properties. Chapman (chair, OCA), Hogan, Huckell, Bawden, Buikstra, Crown, Santley, Straus, Boone, Leonard, Ramenofsky, Watkins, Wills.

**Clark Field Archive Policy Committee** Oversees Clark Field Archive and Library, jointly curated by Maxwell Museum, Maxwell Museum Association, and the Department. Straus (chair), Bawden, Kimbrough, Alan Shalette, to be named undergrad/grad student rep to be named by AGSU.

**Strategic Planning Committee** Charged with examining departmental structure. Drs. Hurtado, Wills and Buikstra served on the committee in Fall 2004 and Spring 2005. The committee meets extensively with the Graduate Committee, Undergraduate Committee, and Subfields in order to develop a comprehensive strategic plan for the department. These discussions will continue throughout the next academic year and will help us plan for our External Review which will take place in the coming years.

**Post Tenure Faculty Evaluation Committee** The committee is elected each year by the faculty to evaluate submitted materials on the basis of post-tenure policies and procedure agreed to in 2002. This year the committee was comprised of Dr. Jane Lancaster (Chair), Dr. Steve Feld, and Dr. Lawrence Straus. The committee advised the Chair of rankings. Salary Allocation was discussed in the faculty meeting and it was agreed by all faculty that everyone would receive at least 2.5% to help cover increased cost of living, and the
removing percentage would be allocated on the basis of merit. This continues our efforts to lessen the disparity between long-time faculty whose ERA retirement depends on their five highest salary years and newer faculty whose retirement plans depend on salary earned from the beginning of their UNM career.

Convocation

The 7th Annual Departmental Convocation took place on Saturday, May 14, 2005 in Anthropology Lecture Hall 163 at 1:00 pm. Convocation was hosted by Dr. Carole Nagengast, Chair. Our special guest speaker was Dr. Karl Schwerin, Professor Emeritus and former Chair of the Department of Anthropology. We also had two special presentations: The hooding of Dr. Dave Stuart and the awarding of an honorary degree for Dr. David Brugge, who was also honored at the UNM General Convocation. Dr. Les Field presented the Bachelor of Arts and Bachelor of Science degrees, while Dr. Sylvia Rodriguez presented the Master of Arts, Master of Science and Doctor of Philosophy degrees. She also presented the departmental awards. We held a reception for graduates and their guests in the Maxwell Museum of Anthropology following the convocation. Additional information regarding degrees and departmental awards can be found under the Graduates and Student Fellowships and Awards sections in this report.

Fundraising

Graduate Student Support Fund The Graduate Student Support Fund was established during our 75th Jubilee in 2003. The Anthropology Graduate Student Support fund is set up to create fellowships for graduate students. Thanks to the generosity of our alumni, as of the end of FY05 we have reached the halfway point to our $100,000 goal.

Anthropology Centennial Fund The goal of the Anthropology Centennial Fund is to raise sufficient funds to support the Anthropology Newsletter and annual fundraising events centered on alumni contact and awareness. Contributions to this fund come from donations to the department. We published our first Departmental Newsletter in May of 2005 and distributed them to alumni, graduates, and their families.

Clark Field Archive

The Clark Field Archive & Library (CFAL) is jointly operated by the Maxwell Museum, the UNM Department of Anthropology, and the Maxwell Museum Association (MMA). CFAL collections encompass about 10,000 books and over 225 journal titles. It also houses a complete collection of Ph.D. dissertations and selected masters theses from the Anthropology Department, a map collection, and an extensive collection of reprints. All these materials deal with anthropological subjects and serve the entire UNM anthropology community, including the Maxwell Museum and its Association, the Anthropology Department, and the Office of Contract Archaeology.

Almost all of CFAL's materials have been donated, with the exception of several dozen journal subscriptions supported by the Anthropology Department and MMA. About half
the CFAL's collections are unique on the UNM campus, and perhaps in the state. CFAL collections are cataloged on Libros, UNM's computerized system. The catalog may be accessed at almost any computer on campus and via the Internet. An important source of funding for the CFAL is the MMA's annual Albuquerque Antiquarian Book Fair, the oldest and largest such event in the state. The book fair is usually scheduled during the first full weekend in April.

Ortiz Center for Intercultural Studies

The Alfonso Ortiz Center received $210,000 from the New Mexico Legislature this past spring in order to complete the Ortiz Gathering Space that will be housed within the Maxwell Museum on the UNM main campus. The gathering space will make a place for open storage collections and computers that will facilitate the use of Maxwell's extensive collections by collaborative teams of local artists, cultural experts, curators, faculty and students. The Gathering Space is an important step in realizing the goal of the Ortiz Center that is to create opportunities for collaborative, community-inspired cultural programs (including research, teaching and museum exhibition) that bridge the university and the diverse communities of New Mexico. The Center is dedicated to the memory of Alfonso Ortiz, a UNM professor of anthropology for 23 years and a member of San Juan Pueblo. It is a joint project of the Department of Anthropology and the Maxwell Museum and is directed by Kathryn Klein.

DEPARTMENT OF ANTHROPOLOGY
JULY 1, 2004-JUNE 30, 2005

SIGNIFICANT PLANS AND RECOMMENDATIONS

Dr. Jane Buikstra was to be appointed as Chair of the department upon the completion of Dr. Carole Nagengast’s third year as chair. Dr. Buikstra resigned from the department after accepting a position with Arizona State University. Dr. Nagengast decided not to accept another year appointment as Chair. After extensive discussion, it was decided to conduct an International Chair Search. Dr. Garth Bawden was named Interim Chair, and Les Field named Associate Chair. The Chair Search will continue throughout the next academic year.

The topic of Department Integration/Strategic Planning continues to be a focus of the department. Drs. Hurtado and Wills serve on the Strategic Planning committee, charged with examining department structure and meeting with the Undergraduate Committee, Graduate Committee, and Subfields. However, due to the transitional period, our efforts in this regard are somewhat limited as we await a new Chair who will contribute to the long-term vision of the department. However, such initiatives such as planning a Masters degree in Public Anthropology, assessment of our Core Curriculum offerings, and examination of our student mentoring and affiliated faculty procedures will continue through the current year.
The UNM Department of Anthropology continues to grow and contribute to the field through research, publication, teaching, and service. We are committed to developing the field of Anthropology internationally through the dissemination of information. Our faculty comprise some of the most talented and prolific anthropologists in the world. In addition, our graduate students are at the forefront of the next generation of anthropologists. We look forward to continuing to work with the Maxwell Museum, both as partner in our jointly operated Ortiz Center for Intercultural Studies and in other areas of education and public programs, and with other UNM departments and community organizations to accomplish our goal of bringing a better understanding of the many facets of Anthropology to the world.

DEPARTMENT OF ANTHROPOLOGY
JULY 1, 2004-JUNE 30, 2005

APPPOINTMENTS AND SEPARATIONS

Appointments to Faculty

Keith Hunley, PhD  Assistant Professor
Garth Bawden, PhD  Appointed Interim Chair for FY05-06

Adjunct:
Robert Walker, David Weaver

Appointments to Staff

Jennifer George, Department Administrator (January 2005)
Amy Hathaway, Accountant (May 2005)

Promotions:
Carla Sarracino completed Career Ladder from Administrative Assistant III to Coordinator of Educational Support in May 2005.

Ann Braswell received a reclassification from Administrative Assistant III to Coordinator of Technical Publications in June 2005, which was retroactive to December 2004.

Other:
Erica Capling received an increased FTE from .50 to .75 as Technical Support Analyst I in August 2004.

Separations of Faculty

Jeff Froehlich, PhD
Jane Buikstra, PhD
Robert Leonard, PhD
Brian Foster, PhD (Affiliated)
Adjunct:

Separations of Staff
Doyle Kimbrough (January 2005)
Andrea Rodgers (March 2005)

DEPARTMENT OF ANTHROPOLOGY
JULY 1, 2004-JUNE 30, 2005
FACULTY PUBLICATIONS

Basso, Keith
Don't Let the Sun Step Over You: A White Mountain Apache Family Life, 1860-1795, authored by Eva Tulene Watt with assistance from Keith H. Basso, University of Arizona Press, Tuscon.

Bawden, Garth


Buikstra, Jane E.


Crown, Patricia L.

Dinwoodie, David


Feld, Steven


Producer, Recordist, Composer: The Time of Bells: Soundscapes of Italy, Finland, Greece, and France. Voxlox 104.

Producer, Recordist, Composer: The Time of Bells II: Soundscapes of Italy, Finland, Greece, and France. Voxlox 204.

Field, Les W.  

Gorbet, Larry P.  

Hill, Kim  


Huckell, Bruce B.


Hurtado, A. Magdalena


Kaplan, Hillard S.
Komar, Debra A.

Lamphere, Louise


Lancaster, Jane B.

Oakdale, Suzanne R.


Pearson, Oshjorn M.

"Has the combination of genetic and fossil data solved the riddle of the origin of modern humans?" in *Evolutionary Anthropology* 13: 145-159.

Editorial Associate for Human Nature

Powell, Joseph E.

Rodriguez, Sylvia
"Introduction,” in Taos Baptisms, Catholic Parishes and Missions, New Mexico Genealogical Society: v-viii.

Santley, Robert
"Prehistoric Salt Production at El Salado, Veracruz, Mexico,” in Latin American Antiquity 15: 199-221.

"Ranchoapan: The ‘New Obsidian’ City of the Tuxtlastr?” in Research Papers Series, No. 41, Albuquerque, NM: Latin American Institute, University of New Mexico.

“What was Teotihuacan doing in the Maya Region?” in Journal of Anthropological Research 60: 379-396.

Singer, Beverly R.
Associate Producer of the Film: Who We Are, commissioned by The Smithsonian Institution National Museum of the American Indian in Washington, D.C.

Director, Researcher, Editor of the Film: Waking Up on Central. Premiere screening for homeless fundraising benefit at The Guild Cinema, Albuquerque, NM.


Straus, Lawrence G.


Comment on: *How the West was lost: a reconsideration of agricultural origins in Britain, Ireland and southern Scandinavia*, by P. Rowley-Conwy, in *Current Anthropology* 45: S104-105.


"Six decades of publishing 'in the interest of general anthropology'”, in *Journal of Anthropological Research* 60: 627-633.

Stuart, David

Watkins, Joe E.
"We are always They and They always are We". In Native American Voices on Identity, Art, and Culture: Objects of Everlasting Esteem. Edited by Lucy Fowler Williams, Robert Pruecel, and Wiliam S.Wierzbowski. University Museum Publications, 2005.


"Representing and Repatriating the Past”. In North American Archaeology. Timothy Pauketat and Diana Loren, eds., Blackwell Press, Malden, Massachusetts.


Weigle, Marta
Editorial Board member, Journal of the Southwest
Wills, W.H.

DEPARTMENT OF ANTHROPOLOGY
JULY 1, 2004-JUNE 30, 2005
FACULTY CONTRACTS AND GRANTS

National Science Foundation, “Why Pointed Pots? An Examination of the Relationship Between Ceramic Form, Subsistence, and Mobility,” PI: Patricia Crown and student Kathleen Helton, fund 258H0, 06/15/05 - 05/31/07, $6,865.

Western National Parks, “Chaco Culture Collections Database,” PI: Wirt Wills, fund 25000, 01/01/03 - 12/31/05, $7,200.

UC Santa Barbara, “Grandparenting and the Evolution of Post-Reproductive Lifespans,” PI: Hillard Kaplan, fund 246R0, UCSB primary, UNM sub award, 08/01/04 - 07/31/09, $121,204.

National Endowment for Humanities, “Challenge Grant Alfonso Ortiz,” fund 26220, PI: Louise Lamphere and Garth Bawden, 12/01/98 - 06/30/06, $144,881.

Santa Fe Institute, “The Human Life Course and Biodemography of Aging,” PI: Hillard Kaplan, fund 249L0, SFI primary, UNM & UCSB subs, 10/01/04 - 05/30/09, $1,701,211.

Leakey Foundation, “Electroencephalography and Cognition Across the Lifespan Among the Ache,” PI: Jane Lancaster and student John D. Wagner, fund 251I0, 01/21/05 - 12/31/05, $11,438.

National Science Foundation, “Growth Development, Aging and Sociality Among the Tsimane of Bolivia,” PI: Hillard Kaplan, fund 22791, UNM primary, UCSB sub, 06/01/02 - 05/31/05, $19,400.

Leakey Foundation, “The Middle-Upper Paleolithic Transition in El Miron Cave (Cantabria, Spain),” PI: Lawrence Straus, fund 226T0, 01/21/04 - 05/01/05, $17,000.

National Geographic, “Reinvestigation of Archaeological Trenches Excavated by the National Geographic Society in Chaco Canyon, NM,” PI: Wirt Wills, fund 252S0, 05/03/04 - 12/03/05, $25,000.

National Science Foundation, “Tardiglacial Human Adaptations in the Cantabrian Cordillera, Spain,” PI: Lawrence Straus, fund 20090, 09/01/98 - 08/31/05, $100,284.
National Science Foundation, “REU: Tardiglacial Human Adaptations in the Cantabrian Cordillera, Spain,” PI: Lawrence Straus, fund 20091, 09/01/98 - 08/31/05, $43,700.

National Science Foundation, “The Role of Standardization in Specialization of Ceramic Production at San Marcos Pueblo, New Mexico,” PI: Patricia Crown and student Kari Schleher, fund 253Q0, 05/01/05 - 04/30/07, $11,800.

National Science Foundation, “Convivencia, Politics, and Identity in Ceuta, Spain,” PI: Carole Nagengast and student Gabriel Torres, fund 254B0, 03/15/05 - 02/28/06, $9,466.

National Science Foundation, “Land Use and Sustainability on a Mediterranean Landscape,” PI: James Boone, fund 237W0, 05/01/04 - 05/31/06, $116,280.

National Science Foundation, “Supplement for Land Use and Sustainability on a Mediterranean Landscape,” PI: James Boone, fund 237W1, 05/01/04 - 05/31/06, $7,953.

National Science Foundation, “Taxonomic Implications of Basicranial Variation in Australopithecus africanus,” PI: Osbjorn Pearson and student Tim Petersen, fund 254F0, 03/15/05 - 03/28/06, $8,665.

National Science Foundation, “Archaeological Investigations at Chaco Canyon, NM,” PI: Wirt Wills, fund 256V0, 06/01/05 - 11/30/07, $219,995.

Wenner-Gren Foundation, “Biological Evidence of the San Pau Chu Site, Taiwan, and its Association with Autronesian Migration,” PI: Osbjorn Pearson and student Hsiu-Man Lin, fund 259C0, 07/01/05 - 12/31/06, $24,801.

National Science Foundation, “The Technological Organization and Thermal Efficiency of Grayware Ceramics from Chaco Canyon,” PI: Patricia Crown and student Marianne Tyndall, fund 257V0, 06/15/05 - 05/31/07, $11,468.

Wenner-Gren Foundation, “Genetics of Susceptibility to Tuberculosis in Native South Americans,” PI: Carole Nagengast and student Alicia Wilbur, fund 213J0, 06/10/03 - 09/30/05, $20,578.

National Science Foundation, “Unreciprocated Giving,” PI: James Boone and student Wesley Allen-Arave, fund 239L0, 01/15/04 - 12/31/05, $10,000.

National Science Foundation, “Genetic Adaptation to Disease: Tuberculosis Susceptibility in Native South Americans,” PI: Magdalena Hurtado and student Alicia Wilbur, fund 236B0, 01/15/04 - 12/31/05, $6,030.

National Science Foundation, “Investigating Late Pleistocene Hunter-Gatherer Mobility Patterns in Northern Spain,” PI: Lawrence Straus and student John Rissetto, fund 235C0, 03/29/04 - 04/30/06, $11,958.

National Institute of Mental Health/NIH/DHHS, “Development of Golden Lion Tamarin Foraging Behavior,” PI: Lisa Rappaport (Adjunct Faculty), fund 20210, 06/01/01 - 05/31/05, $379,183

National Science Foundation, “Reproduction and Prenatal Care in Arizona Prehistory,” PI: Jane Buikstra and student Anna East, fund 239P0, 01/15/04 - 09/30/05, $10,000.

Smithsonian Institute, “Ancient Biomolecules: Tuberculosis,” PI: Jane Buikstra, fund 21510, 02/01/03 - 12/31/06, $80,000.

McCune Charitable Foundation, “Indigenous Film Fest Series,” PI: Beverly Singer, 04/23/04 - 12/31/05, $8,000.
Bachelor of Arts and Bachelor of Science with Honors

Spring 2005

Kristina Bair (BA), Ethnology Honors Paper: “Patterns in Pakastani Rugs” (Les Field, Mentor)

Desiree Kosciulek (BA), Ethnology Honors Paper: “Touristification and Influences of the ‘Festa do Divino’, Festival of the Holy Spirit, in the Interior of Sao Paulo, Brazil” (Suzanne Oakdale, Mentor)

Barrett Martin (BA)**, Ethnology Honors Paper: “Woven Songs of the Amazon” (Suzanne Oakdale and Garth Bawden, Mentors)

Patrick Orion Mullen (BS), Archaeology Honors Paper: “You Are What You Eat: Isotopic Reconstruction of Younger Dyas Grass Flora in the Middle Rio Grande Valley” (Les Field, Mentor)

Lily Pino (BA), Archaeology Honors Paper: “Monumental Neolithic Architecture in Social Settlement Contexts” (James Boone, Mentor)

Emily Roberts (BA), Ethnology Honors Paper: “The Origin of Oculopharyngeal Muscular Dystrophy in NM” (Sylvia Rodriguez, Mentor)

Master of Arts and Master of Science

Summer/Fall 2004

Oskar Burger (MS), Helen Idzorek (MA), Melissa LaLiberte (MS), Carrie Laughter (MS), Demelza Poe (MS)

Spring 2005

Teresa Alexander (MS)**, Barbara Ann Bindie (MS), Sean P. Bruna (MA), Emira Ibrahimspasic (MA)**, Zachary J. Mitchell (MA), Johanna Owens (MA), Lisa S. Pacheco (MA), Stephanie Snyder (MA), Ian Thompson (MA), Gretchen M. Ward (MA)

Doctor of Philosophy

Summer/Fall 2004

Rebecca Schwendler, Dissertation: “Hunter-Gatherer Social Interactions in Magdalenian Western Europe” (Lawrence Straus, Chair)

Stacey Rucas, Dissertation: “Female Intersexual Behaviors Among the Tsimane of Bolivia” (Hillard Kaplan, Chair)

Spring 2005

Deborah A. Boehm,** Dissertation: “De Ambos Lados/From Both Sides--Gender, Family, and Nation Among Transnational Mexicans” (Sylvia Rodriguez, Chair)

Briggs Buchanan,** Dissertation: “Cultural Transmission and Stone Tools: A Study of Early Paleoindian Technology in North America” (Lawrence Straus and Bruce Huckell, Co-Chairs)

Nicholas Merrill Chapin, Dissertation: “Hunter-Gatherer Technological Organization: The Archaic Period in the American Southwest” (Wirt Wills, Chair)

Marcel J. Harmon,** Dissertation: “Centralization, Cultural Transmission, and the Game of Life and Death in Northern Mexico” (Robert Leonard, Chair)

Joseph Lally, * Dissertation: “Reconstructing the Cause and Origin of Structural Fires in the Archaeological Record of the Greater Southwest” (Robert Leonard, Chair)
Cecil M. Lewis Jr.*, Dissertation: “Intercontinental to Intrasite Genetic Analyses of Ancient and Contemporary Native American Communities” (Jane Buikstra and Anne Stone, Co-Chairs)
Greg Lockard,** Dissertation: “Political Power and Economy at the Archaeological Site of Galindo, Moche Valley, Peru” (Garth Bawden, Chair)
Meredith Mahony-Mueller, Dissertation: “Conflict and Control: Intimate Partner Violence and Reproductive Control” (Magdalena Hurtado, Chair)
Kenneth Carlisle Nystrom*, Dissertation: “The Biological and Social Consequences of Inka Conquest of the Chachapoya Region of Northern Peru” (Jane Buikstra, Chair)
Alicia Wilbur,** Dissertation: “Genetics of Host Susceptibility/Resistance to Tuberculosis in Ache and Ava of Paraguay” (Jane Buikstra and Anne Stone, Co-chairs)
Gregory Zaro, Dissertation: “Human Ecology and Ancient Agrarian Land Use at Wawakiki Spring, South Coast Peru, AD 1000-2000” (Garth Bawden, Chair)

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Frieda D. Butler Award
The Frieda D. Butler Award is given annually by the department of Anthropology to honor the memory of Mrs. Butler, who established an endowment in 1975, when her grandson, Dr. Richard A. Barrett, was a member of the department faculty. In 1981 Butler’s daughter Margaret A. Barrett requested that a portion of the fund’s income be used for “a small award to a promising graduate student in anthropology.” The Butler Award of $400-$450 is given to an outstanding master’s student who has not yet taken the doctoral specials examination. The recipient delivers a public lecture during the Fall semester.
Recipient in 2004-2005: Sara Jamieson
Lecture: “The Importance of Wayuu Women’s Rituals for Cultural Revitalization in the Barrios of Maracaibo, Venezuela”

Ruth E. Kennedy Award
The Ruth E. Kennedy Award is given annually by the Maxwell Museum of Anthropology to honor the memory of Ruth E. Kennedy, wife of Edwin L. Kennedy, a major donor to the museum. Initiated in 1981, the award recognizes Mrs. Kennedy’s abiding interest in public education. The Kennedy Award of $100 is given to an outstanding doctoral
candidate chosen by the department faculty. The recipient delivers a public lecture during
the Spring semester.
Recipient in 2004-2005: Thomas McIlwraith
Lecture: “Chasing Horses and Shooting Moose: The Legacy of Hunting in a North
Canadian Athapaskan Community”

Karl H. Schwerin Graduate Fellowship in Ethnology
The Karl H. Schwerin Graduate Fellowship in Ethnology is awarded annually by the
Department of Anthropology. Professor Schwerin of the department faculty endowed the
fellowship, which was first awarded in 1999, for an ethnology graduate student who has
not yet begun dissertation research and has not received other support. The recipient of
$500 is selected on the basis of scholastic ability, research potential, and financial need.
Recipient in 2004-2005: Sara Jamieson

Undergraduate Student Awards, 2004-2005

Krisztina Kosse Memorial Scholarship
The Krisztina Kosse Memorial Scholarship is awarded annually by the Maxwell Museum
of Anthropology to honor the memory of Dr. Krisztina Kosse, an archaeological scholar
of the European Iron Age and for many years the Curator of Collections at the museum
until her death in 1995. The scholarship is a cash award of $200 given to an outstanding
senior concentrating in archaeology, preferably with a special interest in or focus on Old
World complex societies.
Recipient in 2004-2005: Stephanie Waldo

Barbara MacCaulley Endowment Scholarship
The Barbara MacCaulley Endowment Scholarship is awarded annually by the Department of Anthropology to honor the memory of Barbara MacCaulley, who graduated from the university in 1951 and then pursued a career in the Foreign Service until her death in 1984. The scholarship is a variable cash award between $400 and $500 given to an outstanding undergraduate with a concentration in archaeology who is a full-time student entering their senior year with high motivation to pursue a career in archaeology.
Recipient in 2004-2005: Felicia Garcia

Graduate Student Awards, 2004-2005

Frank J. Broilo, Harry W. and Margaret Basehart Memorial Endowment Scholarship
The Frank J. Broilo, Harry W. and Margaret Basehart Memorial Endowment Scholarship
is awarded annually by the Department of Anthropology to honor the memory of Frank J.
Broilo, the first director of UNM’s Office of Contract Archaeology until his death in
1979; Professor Harry W. Basehart, professor emeritus of anthropology until his death in
1988 and editor of the Department’s Journal of Anthropological Research from 1962 to
1974 and 1981 to 1982; and his wife Margaret Basehart, who died in 1992. The
scholarship is a cash award of $500 given to deserving graduate students who are
pursuing a course of study in archaeology and ethnology. The scholarship alternates
annually between archaeology and ethnology graduate students, and this academic year has been awarded to four archaeologists.

Recipient in 2004-2005: Thomas McIlwraith

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**DEPARTMENT OF ANTHROPOLOGY**

**JULY 1, 2004-JUNE 30, 2005**

**PROFESSIONAL ACTIVITIES**

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**Feld, Steven**

**Promotion:**
July 2005 to Distinguished Professor of Anthropology and Music

**Awards:**
15th annual Fumio Koizumi Prize for Distinguished Research in Ethnomusicology (awarded June 2004)

Preliminary Grant from the International Community Foundation, to research, record and produce "Bells for Peace," a CD of sounds of some of the 23 United Nations recognized peace bells in the US, Europe, and Asia.

UNM College of Fine Arts, Creative Research Grant, toward production costs of CD 3 of the series 'The Time of Bells.'

**Departmental Activities:**
Organizer, Anthropology of Music and Sound Lecture Series, Spring 2005, Four lectures supported by the College of Arts and Sciences, Depts of Anthropology, Music, American Studies, Native American Studies, Religious Studies, Communication and Journalism, Sociology, Peace Studies, and Medieval Studies.

**Lectures:**
New York University, University of Oslo, University of Bergen, University of Copenhagen, University of Palermo, Musée de l'Homme, Paris, ASU, University of Texas at Austin

**Service:**
Member, Board of Managers, School of American Research
Executive Board Member, Endangered Music Fund

**Gorbet, Larry**

**Lectures:**
Service:
Anthropology Tenure & Promotion Committee (O. Pearson)
Linguistics Policy/Executive Committee,
Linguistics M.A. Examination Committee
Educational Linguistics Doctoral Concentration faculty
Linguistics Department Signed Language Lecturer search committee
Linguistics Department Cognitive-Functional Linguist search committee
Volunteer and sub-permittee (licensed by U.S. Fish & Wildlife Service and New Mexico Department of Game & Fish) with Rio Grande Bird Research, Inc., conducting longterm research and public education on migratory and winter-resident passerine birds in the Middle Rio Grande Valley. (1985-present). Vice-President 1993-present.

Kaplan, Hillard
Awards:
International Excellence Award for 2005, Office of International Programs and Studies, University of New Mexico

Komar, Debra
Service:
Senior member of the Regime Crimes Liason Office (Department of Defense/Iraqi Special Tribunal) investigation which lead to charges of war crimes being leveled against Saddam Hussein and 14 of his top officers

Lancaster, Jane
Service:
Convener of Human Evolutionary Ecology
Editor, Human Nature
President, National Alliance for the Mentally Ill (NAMI) Albuquerque

Oakdale, Suzanne
Presentations at Professional Meetings:

Sessions Organized:
"Self and Person in Amazonia;" Organized "invited" session at the Annual Meeting of the American Anthropological Association, Atlanta, Georgia, December 2004. Due to the meeting being rescheduled, I cancelled the session, though papers appeared on line through AnthroCommons.


Powell, Joe
Service:
Collaboration on the biology and archaeology of Paleoindians with colleagues at Universidade de Sao Paulo (Brazil)

Rodriguez, Sylvia

Presentations at Professional Meetings:
“Roundtable on Acequias at the Millennium” Organizer and participant, National Association of Chicana and Chicano Studies, Albuquerque, NM, April 1, 2005.

“Acequia and Place,” Colloquium, School of American Research, Santa Fe, NM, July 14, 2005.


Public Talks:


Fellowships:
Ethel-Jane Westfeldt Bunting Summer Scholar Fellowship, School of American Research, Santa Fe, NM.

Service:
Department of Anthropology Annual Review Committee for Ozzie Pearson, Fall 2004
Department of Anthropology Graduate Advisor, Spring 2005
Department of Anthropology Ethnology Subfield secretary-scribe, Fall 2004
UNM Executive Council, UNM Center for the Southwest
UNM Sabbatical Review Committee, Fall 2004

Straus, Lawrence

Research:
Excavation of El Miron Cave (Cantabria, Spain) in early Magdalenian levels dating to around 16-17,000 radiocarbon years ago. Six UNM students and one UNM exchange student were involved in the excavation this year.
Prepare by: Jennifer George, Department Administrator

Stuart, Dave
Public Talks:
Aztec National Monument
Chaco Canyon Petroglyph Monument
Indian Pueblo Cultural Center
OASIS Senior Group

Service:
Promotion review committee at University of Denver
Promotion review committee at University of Chicago

Watkins, Joe
Presentations at Professional Meetings:


Public presentations:


Facilitator, Protecting the Spirits of Our Ancestors II: Repatriation and Sacred Sites Conference, Museum of Indian Arts and Culture, Santa Fe, October 2004.


Invited presentation, “Archaeology in the Americas” seminar, Department of Archaeology seminar, Flinders University, Adelaide, Australia. June 2004

Service:
UNM Anthropology Chair Search Committee (2004-2005)
UNM Institute for American Indian Research Executive Board (2003-2005)
Register of Professional Archaeologists Nominating Committee (2004-2005)
Board of Directors, Society for American Archaeology (2003-2006)
Organizing Committee, World Archaeological Congress 2nd Indigenous Intercongress,
New Zealand (2003-2005)
Editorial Board, University of New Mexico Press (2004-present)

Awards:
Protecting the Spirits of Our Ancestors Award, New Mexico Indian Affairs Department
Fulbright Senior Specialist Candidate (2004-2006)

Research Fellow, School of Humanities, Faculty of Education, Humanities, Law, and
Theology. Department of Archaeology, Flinders University, Adelaide, South Australia
(Summer 2004)

DEPARTMENT OF ANTHROPOLOGY
JULY 1, 2004-JUNE 30, 2005
DEPARTMENT LECTURES

Anthropology Mid-day Series

Dr. J. Kehaulani Kauanui (Wesleyan University) “The Politics of Hawaiian Blood and
the Question of Sovereignty”

Dr. Circe Strum, (University of Oklahoma), “Bill Clinton’s Cherokee Grandmother:
Race, Culture, Kinship and Other Manifestations of Power in a Neoliberal Age”

Jessica Cattelino, a PhD candidate from NYU and current Weatherhead Fellow at the
School of American Research will be here to give her talk: “High Stakes: Seminole
Gaming, Tribal Sovereignty, and the Social Meaning of Casino Wealth”

XVIII Journal of Anthropological Research Distinguished Lecture Series

Dr. Peter M. Whiteley “Why Anthropology Needs More History: Some Hopi and Other
Native American Cases” Thursday, April 22, 2004 at 7:30 p.m. in the Anthropology
Lecture Hall (Rm.163). Specialized Seminar: “Applying Ethnology in the Courtroom:
Virtues and Vices in Adversarial Research” Friday, April 23, 2004 at 12 noon in
Anthropology Rm.178

Dr. David Meltzer “The Seventy Year Itch: Controversies Over Human Antiquity and
Their Resolution” Thursday April 14, 2005 at 7:30 pm in Room 163. Lunchtime Seminar,
“In the Belly of the Beast: A New Look at the Folsom Site” Friday April 15, 2005 at
12:00 noon in Room 178
**Ruth E. Kennedy Memorial Lecture**

Tad McIlwraith "Chasing Horses: The Legacy of Hunting in North Canadian Athapaskan Community." April 28, 2005 (Thursday) 7:30 pm, Hibben 105

**Annual Snead-Wertheim Lecture**

Dr. Marta Weigle “The Lure of New Mexico: Engineering Enchantment, 1821-2001”
April 22, 2005, 2:00 pm, Hibben Building Room 105 (Co-Sponsored by History Department)

**Other**

Dr. Bernardo Arriaza (UNLV) “Chinchorro Mummies: Constructing the Ancestors”
February 8, 2005, 12-2 pm, Anthropology 178.
In calendar year 2004, JAR received and reviewed 57 manuscripts. Each manuscript, besides being read by the editor, is normally reviewed by three to five specialists. 18 manuscripts were received from January 1 - June 30, 2005, and four more to date. We have noted a steady increase in submissions from foreign authors. This fact requires additional effort by the Editor, Copy Editor, and Compositor, but helps bring JAR (and UNM) increased positive international exposure.

JAR has 1093 paying subscribers - 946 institutions and 147 individual subscribers. Subscribers are from all 50 states, Washington D.C., Puerto Rico and Guam, plus 55 foreign countries on five continents. Free subscriptions are provided to UNM Anthropology Faculty, Administrators and Libraries, as well as to indexing agents both in the U.S. and abroad.


Volume 61, nos. 1 and 2 have been published for 2005 and no.3 is in proof at this time. Articles for no. 4 have been selected.

Special Reprinting Vol. 53, no. 3, 1997, a special issue on Universal Human Rights versus Cultural Relativity, was reprinted due to continued demand for course adoption.

JAR Distinguished Lecturers for 2004 were:
Dr. Peter Whiteley (American Museum of Natural History)

Dr. Michael Silverstein (University of Chicago)

JAR Distinguished Lecturers for 2005 are:
Dr. David Meltzer (Southern Methodist University)
*The Seventy Year Itch: Controversies over Human Antiquity and their Resolution.* JAR Volume 61, no.4, 2005.

Dr. Fraser Neiman (Director of Archaeology, Monticello)
*Lost World of Thomas Jefferson and Sally Hemings at Monticello - scheduled for November 3, 2005.*

Dr. Meltzer’s lecture was particularly well received, with a full-capacity audience in Anthropology 163.

Editorial Board
Philip K. Bock, Louise Lamphere, Carole Nagengast, and Robert Santley. Dr. Jane E. Buikstra left the Department of Anthropology in June 2005 and a new Board member will be selected in due time.

**Associate Editors**
John Comaroff (University of Chicago), Raymond DeMallie (Indiana University), E. Paul Durrenberger (Penn State University), Donald K. Grayson (University of Washington), Michael Herzfeld (Harvard University), Jane Hill (University of Arizona), Mary Moran (Colgate), Jeremy A. Sabloff (University of Pennsylvania), Bruce Smith (Smithsonian, National Museum of Natural History), and Stephen A. Tyler (Rice University).

**Book Review Editors**
Archaeology and Paleoanthropology
Physical and Biological Anthropology
Review Committee for Ethnology

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<th>Category</th>
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<td>Lawrence G. Straus</td>
<td>Joseph Powell</td>
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<td>David Dinwoodie, Les Field and Suzanne Oakdale</td>
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**Copy Editor**
M. June-el Piper.
Ms. Piper replaced longtime Copy Editor, Dr. Patricia L. Nietfeld, upon her resignation in October 2004. Ann Braswell has taken over copy-editing of book reviews.

**Employees**
Ann Braswell: Business Manager/Book Review Copy Editor
Andrea Cooper: Student Book Review Coordinator
Ms. Braswell’s position has been upgraded from Administrative Assistant III to Coordinator, Technical Publication.

**Web Page**
Upgraded and maintained in 2004 by Lisa Pacheco, Mitch Teberg and, currently, Sean Bruna, all UNM students.

**JAR On-line**
After lengthy consultations and deliberation, and with authorization from the UNM Office of Legal Counsel and approval of the Editorial Board, a professional contract has been entered into with the Scholarly Publishing Office of the University of Michigan at Ann Arbor. A fee of $3.75/subscriber/annum will be paid to University of Michigan for this service. Beginning with Volume 62, 2006, JAR will be offered electronically to institutional subscribers in conjunction with hard copy subscriptions only, for an additional fee of $25.00/year. This will result in additional income per on-line order of at least $17.50 (after 15% subscription agency fees are deducted). IP address data will be added to the existing JAR database by A. Braswell, who will coordinate these new subscriptions.
The University of New Mexico Press represented JAR at the meetings of the Society of American Archaeology, the American Anthropological Association and the Society of Applied Anthropology. Dr. Straus represented JAR during his travels in Europe in the Spring and Summer of 2004. Advertisements were run in the December issues of both Current Anthropology and American Anthropologist. JAR exchanged mailing lists with the Journal of Field Archaeology (Boston University).

**Professional Composition**
Anthropological Consulting and Editing, (AC&E) Albuquerque, New Mexico

**Printing and Binding**
Thomson-Shore, Dexter, Michigan

**Distribution Subcontract**
Unit Packaging, Ann Arbor, Michigan

**Subscription Rates** for paper will remain the same for 2006. For those institutions wishing to subscribe for the on-line journal, an additional fee of $25.00 will be charged. JAR’s policy is to continue to deliver a high quality, peer-reviewed publication in all areas of anthropology in a way which is efficient, economical, and accessible to institutions and individual scholars worldwide.
MAXWELL MUSEUM OF ANTHROPOLOGY

ANNUAL REPORT
[July 1, 2004-June 30, 2005]

Garth Bawden
Director
A. GENERAL

The year 2004-5 was one of consolidation and planning following the programmatic and physical plant expansions of the previous few years. Following a direction initiated in the previous year, the most substantial efforts were exercised in planning for the future, while at the same time continuing to consolidate the various programs that were created in previous years. Thus, for much of the year, the staff of the Maxwell Museum conducted a strategic planning process with the complementary goals of: 1) reassessing the expanded potentials created by the new expansions; 2) exploring how these could best ensure continued effective institutional development at a time when university museums generally are experiencing economic and programmatic strictures; 3) ensuring that the Maxwell most effectively fulfill the responsibilities central to a successful department of the College of Arts and Sciences; and 4) furthering the educational mission of the University of New Mexico.

B. STRATEGIC PLANNING

The Maxwell Museum staff, in partnership with the Maxwell Museum Association (the museum’s public support institution) and the College of Arts and Sciences conducted a comprehensive strategic planning initiative that culminated in the creation of a task-oriented written plan early in 2005.

Two factors highlighted the need for a planning process at this time in addition to build on recent programmatic success. One is the national trend that reduces university budgets to a level insufficient to support their expanding responsibilities. On the local level, New Mexico’s state economy is insufficient to fully fund many of its most basic human services. In the educational sphere the highest priority is the public school system, which as is vividly illustrated by this week’s news release detailing sub-standard and failing schools, continues to be in deep trouble. As in the country at large, state allocations for higher education have experienced very limited growth over the past few years, much of this in the non-permanent funding sector that may well contract in the future. Within the University of New Mexico, while salaries modestly increased in the 2004-5 fiscal year, state allocations for program support continued to dwindle. With recent expansion of physical facilities and programs in the Maxwell Museum the need has significantly increased for relatively high-paid, specialized student support for collections and exhibits. With no commensurate increment in support to meet these needs, this year we will suffer a small shortfall between the cost of our basic student commitment and our budgeted funds. In addition, over time we have assumed financial responsibility for small portions of the salaries of some regular employees in order to hire at the level of expertise mandated by our mission. While some of this salary will revert to regular college accounts, given the current financial situation there can be no confidence that this will happen any time soon.

The second important factor that drove the planning process derives from the perception that some museums are not effectively fulfilling their educational missions. There is a fairly common sentiment in universities that their museums are not providing a service to the mission
of the parent university commensurate with their financial cost, leading to several prominent closures. It follows that in the negative light of today’s economic pressures it is absolutely vital that this articulation of museum programs with the intellectual focus of the university be asserted through cost-effective programs that bring clear educational benefit to the varied scholarly and public constituencies served by a state institution of higher education.

The Maxwell Museum is in an excellent situation in this regard. In recent years we have expanded our ability to practice museum anthropology through our connection with the Office of Contract Archaeology, creation of the Maxwell Center for Anthropological Research and the Ortiz Center for Intercultural studies, and accrual of the resources of the Hibben Center for Archaeological Research, supported by an increasingly active public support organization (Maxwell Museum Association). In addition the museum is already a central player in the fledgling UNM Museum Studies instructional program. These initiatives, combined with existing public interpretational programs, expanding collections facilities, and above all a highly qualified, professional staff, combine to create a full service museum that is steadily increasing its ability to implement its dual mission of institutional and public education. This status is affirmed by the high visibility of our personnel, reflected in regular involvement in local, regional and national museum and anthropology affairs and by corresponding feedback from this country and beyond. All of this is recognized by our university administration, situating us admirably to avoid the problems that have recently afflicted many other museums.

This current favorable status places the Maxwell in an excellent situation to plan a future that consolidates these numerous recent achievements into a focused program of museum anthropology. The strategic planning process was intended to define the future direction and the means by which this will be implemented and resulted in a document that addressed issues of research, collections, public visibility, funding, and technological development with a detailed schedule of goals and tasks that will ensure growth and improvement.

C. ACCREDITATION

The Museum is currently part way through its re-accreditation process. This review by the American Association of Museums occurs every 10 years and will be completed in the 2005-6 (the current) year. In 2004-5 the museum administration completed the self-study of all aspects of its operations and programs that is the first segment of there-accreditation procedure. This will be followed in 2006 by an external review by academic museum experts selected by the American Association of Museums. The accreditation process very positively coincided with the on going strategic planning process with much of the analysis and discussion that occurred in the associated meetings providing precisely the information required for the self-study. Together the two processes comprised a very profitable assessment of the museum’s standing and challenges in 2005, an advantage that will be further advanced by the final review.
D. INSTRUCTION AND SPONSORED RESEARCH

Instruction

1. Anthropology 328/524 South American Archaeology (Bawden)
2. Anthropology 574. Theory of Archaeology (Bawden)
3. Anthropology 570. Managing Cultural Resources (Chapman/Hogan)
4. Anthropology 497. Archaeological Field Methods (Hogan)
5. Anthropology 570. Lithic Analysis (Huckell)
6. Anthropology 450/570. Paleoindians (Huckell)

Sponsored Research and Education

Archaeology (General and Maxwell Center For Anthropological Research)
1. Research in the Andahuaylas region of the Dept. of Apurimac. Maxwell Museum Hibben Research Endowment: $2,000 (Kellett)

2. Radiocarbon date from pitch from Navajo vessel. Maxwell Museum Hibben Research Endowment: $350 (Van Hoose)

3. Analysis of the stable carbon isotopic content of the bison tooth enamel from the Boca Negra Wash site. $400 (Mullen)

Archaeology (Office of Contract Archaeology)

New contracts awarded: 13

Total value of new contract awards: $513,693

IDC value of new contract awards: $163,588

Actual IDC accrual in FY 2004: $186,310

Discussion and Outlook:

During FY 2004, OCA did business with a total of 13 clients, representing a downturn from the previous year. Encumbered contract value and associated IDC value also reflects a downturn from the previous fiscal year. OCA continued to hold open-end services contracts in 2005 with the New Mexico Bureau of Land Management; U.S. Army Corps of Engineers, Albuquerque District; and the New Mexico Army National Guard, all of whom have contributed significantly to OCA’s contract base through the last several years. However three of these contracts (BLM, USACE and NMARNG) ended during the fiscal year. We were unsuccessful in re-acquiring the
BLM contract, and our proposal to renew the USACE contract was still pending at the end of the fiscal year (notice of award was received in September 2005 however). Partially offsetting the BLM work is a new relationship established with C.H. Guernsey & Co. to perform cultural resource services for the New Mexico Department of Transportation. The first task for that 3-year contract was completed in July of 2005. Our relationship with Enterprise Products Operating LLC has also continued, with budgets totaling over $2.1 M submitted to their new construction firm (Enserca Engineering) for work anticipated to start in Fall of 2005 (with the first award made for mobilization in August 2005). Finally, negotiations were initiated directly with the NMDOT to establish a services contract with that agency, and an audit approving OCA rates was conducted by the NMDOT. No tasks for that contract have been awarded, but a $2 M budget for a large scale excavation project was submitted in July 2005.

**Student Support**
OCA employed 20 students with financial support totaling $46,094.00 during FY 2005. In addition to the financial support, student employment at OCA involves a strong component of professional training by OCA senior staff in cultural resources management, archeological research, fieldwork, analysis, and reporting.

**Education**
1. Provided OCA logistical support to University of Chicago Archeology field school at Paa-ko (June/July 2005)
2. Provided use of OCA laboratory, collections and supplemental data for analysis by for UNM Anthropology student class projects (Fall 2004, Spring 2005)

**Publications, Papers, and Presentations Connected with Sponsored Research**
OCA senior staff authored 10 OCA/UNM professional publications; engaged in educational and public outreach activities such as public lectures, and presented papers at professional conferences. In addition to dissemination of 124 copies of reports mandated by contract terms, OCA distributed 137 copies of reports through sales and complimentary copies during FY 2005, realizing $316.68 in sales.

**Other Sponsored Programs**
1. Education Division APS K-12 Classroom Teaching Program. MMA: $10,000
2. Public Programs Division continuing Monthly Ethnic Arts and Crafts Demonstration series. City of Albuquerque's Urban Enhancement Trust Fund: $8,000
3. Public Programs Division. MMA: $3,000
- 

**Educational Programs/ Department Updates**

**Exhibits**
1. Another Vietnam. October 2004
2. 25 Years of Japanese Porcelain Making at UNM. December 2004

**Public Education**
1. Over 400 classes in the Albuquerque Public School System.
2. Archaeology Fair in collaboration with the Park Service
3. Children’s summer Day Camp in Maxwell Galleries
4. Celebre la Ciencia at the State Fair Grounds
5. Teacher’s Open House at the Natural History Museum
6. UNM Day at the Roundhouse Booth

**Public Programs**
1. Ethnic Lunches (11).
2. *People of the Southwest* Lecture Series (3).
4. Indian Bread Baking Demonstration (18).
5. Gallery talks/Readings/Booksignings (3).
6. Fundraising Events (2)
7. Celebrate the Maxwell (Volunteer Recognition)
8. The Frieda Butler Lecture
9. The Kennedy Lecture
**Archaeology**
1. The move of whole pottery from the Maxwell basement to the Hibben Center basement was completed.

2. The archaeology collections data were reintegrated into the Maxwell master database.

3. A major project began to reorganize the Tijeras Pueblo collections and field notes, in order to update storage conditions and make those collections more accessible for research.

4. A separate project began to reorganize the Gallina area collections and field notes, with the same goals.

5. Work continued on the Pottery Mound collections, leading to a manuscript report on the 1954 field season.

6. In the summer of 2004, the volunteer-based emergency excavation of LA 50245, a Hispanic house and corral in the North Valley, was completed.

7. Planning was started on a 2008 exhibit on the Maxwell’s archaeology collections.

**Ethnology**
1. Anthropology 101 class visits collections to view a selection of Navajo blankets. (November 2004, March 2005.)

2. Ongoing conservation survey of the textile collection near completion.

3. Coordinate with museum’s Curator of Archaeology the renovation of the old pottery storage room B-3 in the Maxwell to expand collections storage for ethnology.

4. Supervise students and consultants, and work with Data Manager to move ethnology collections from B-16 and B-18 onto old pottery storage room B-3.

5. Donations: 69 Kachinas, 3 rattles, 1 mobile 1 santo, 3 sand paintings, 3 paintings and on basket from Hopi, one Navajo Blanket, 132 Baskets from Rural mid- and northeastern United States, including Oneida, Seminole, Coushatta, Mohawk, Choctaw and others.

**Ortiz Center**
1. Inoue Manji Sensei, a living National Treasure of Japan visits UNM along with 30 Japanese dignitaries to view the Arita exhibition, meet with students, and be hosted by the Ortiz Center and UNM President for a dinner reception honoring his contributions to the Arita porcelain class at UNM. June 2, 2005 (100 attend)

2. Alfonso Ortiz Memorial Lecture Series, visiting scholars and community members are invited to speak throughout the year (ongoing).
3. *Weaving Generations Together: Evolving Creativity in the Maya of Chiapas* A book signing and presentation by the author, Dr. Patricia Marks Greenfield. This innovative study provides a rare long-term examination of the cognitive and socialization processes involved in transmitting weaving knowledge across generations. (45 visitors attend) April 15, 2005

**Human Osteology**

1. **Body Donation**
   a. 3 Body donors were received and processed this year.

2. **Collections**
   a. 248 individuals in contemporary documented collection.
   b. 133 individuals in OMI documented collection
   c. 200 individuals in OMI doe collection
   d. 50 individuals in documented doe collection

**Photo Archives**

1. Received NEH grant for "Interpreting the American Image Through the Photographs of John Collier, Jr: A Virtual Experience." $157,497

2. Received the remaining boxes of the Hibben slide collection. Several boxes of photographs and negatives and several hundred hours of film (8mm, 16mm, and 35 mm) were moved to Photo Archives from the Hibben house.

3. Digitization of the Pottery Mound slides is almost complete. Hibben scholar, Chris Millington, has been working on this project since the fall of 2004.

4. Fourteen boxes of document archives and twenty boxes of photographs and negatives were received from Malcolm Collier. The remaining material from the collection will be delivered in late summer/early fall of 2005.
E. PERSONNEL APPOINTMENTS AND SEPARATIONS

Appointments
None

Separations
Carol Anne Brannan 4/25/05

F. PERSONNEL PROFESSIONAL ACTIVITIES AND PUBLICATIONS

Individual

C. Baudoin (Photo Archives)
1. Attended ASM symposium in Tucson examining issues of creation, interpretation and use of photography of Native Americans.

2. Worked with photo conservator Laura Downey Staneff on conservation project funded by the MMA. Conserved three historically significant photographs: an Edward Curtis in its original frame from 1905, a pair of Lee Moorhouse photos from 1898, and an 1895 photo from the Pacific NW.

G. Bawden (Director and Professor)


3. Paper Presented: "Ethnogenesis at Galindo Peru". SAA Annual Meeting, Milwaukee

R. Chapman (Associate Director, Maxwell Museum for OCA)
1. UNM Board of Archeologists 2004-2005 (Chair)

2. UNM Historic Preservation Committee (Anthropology Department representative)

3. Arts and Sciences Committee on Academic Use of UNM Lands
4. External Review Member, Continuing Status Review for Dr. Suzanne Griset, Arizona State Museum (October 2004)

5. Faculty Jury member, AGSU Spring Symposium (2005)

6. *An Assessment of Cultural Resources within a Proposed High School Site on the West Mesa of Albuquerque, Bernalillo County, New Mexico.* OCA/UNM Report No. 185-864. OCA


**H. Edgar (Curator of Human Osteology)**

1. Secretary/Treasurer for the Dental Anthropology Association

2. Ethics Committee, Career Development Committee. American Association of Physical Anthropologists.


**P. Eschman (System Administrator)**

1. Member of the UNM Novell Users Group

2. TAAS-L List Owner (UNM list serve for AAS)

**P. Esquibel-Childers (Museum Administrator)**

1. Member of Museum Cooperative Council.


3. Attended NMAM conference.

**P. Gerow (Senior Archaeologist, Office of Contract Archaeology)**

1. NMARNG Camel Tracks Data recovery program, Santa Fe County, October-December 2005
Project Director: Directed data recovery program at 10 sites located within the NMARNG Camel Tracks Training Site. Sites are mostly Pueblo IV fieldhouses. Co-edited final report.

2. MAPL Western Pipeline Expansion Project, July-August 2005
Project Director: Directed auger testing at 21 sites in four MAPL segments (Segments 8, 9, 11, and 12).
Directed survey of three access roads into Segment 9, Sandoval County, which documented two new sites, 15 isolated occurrences, and updated the condition of four previously recorded sites

3. The MAPL Western Expansion Project, Cultural Resources Inventory of Six Loop Segments and Ten Pump Stations between Huerfano and Hobbs, New Mexico. OCA

4. Across the Caja Del Rio Plateau III: Hunters and Farmers in the Northern Rio Grande, Archeological Investigations at 10 Sites in the NMARNG Camel Tracks Training Site, Santa Fe County, New Mexico. OCA

5. Cultural Resources Inventory of Three MAPL Access Roads for Segment 9 in Las Huertas Valley, New Mexico. Addendum to: The MAPL Western Expansion Project: Cultural Resources Inventory of Six Loop Segments and Ten Pump Stations between Huerfano and Hobbs, New Mexico. OCA

P. Hogan (Associate Director, Office of Contract Archaeology)
1. Member of the Maxwell Museum Collections and Research Committee
2. Society for American Archaeology, Annual Meeting


B. Huckell (Senior Research Coordinator)
1. Continued to develop the program of associated scholars and the mission of the Maxwell Center of Anthropological Research (MCAR)
2. Compiled and edited the second number of the MCAR Newsletter; published on-line in Maxwell Museum website
3. Spent fall break in October conducting test investigations, with a crew of 5, at the Reynolds-Truesdell site, a Plainview bison kill/camp site in east-central Arizona
4. Devoted 7 days in June to archaeological and geological test investigations at the Mockingbird Gap Clovis site in partnership with Dr. Vance Holliday, University of Arizona
5. Attended the Society for American Archaeology meetings in Salt Lake City and presented a paper: “McEuen Cave and the Origins of Southwestern US Agriculture”
6. Participated in long-range planning process for museum

7. Assisted in preparation of documents for museum reaccreditation


9. Submitted book manuscript—*Murray Springs, A Clovis Site with Multiple Activity Areas in the San Pedro Valley*—to University of Arizona Press for review. I am co-editor of the book (with C. Vance Haynes, University of Arizona) and sole author of one chapter and co-author of another

K. Klein (Curator of Ethnology)

1. Hosted Herbert Anungazuk who works for the National Park Service for the upcoming exhibition *North by Southwest*, co-curated by Catherine Baudoin, Maxwell Museum’s Curator of Photo Archive and member of the Ortiz Programming Committee, and Joyce Szabo of UNM’s Art Department. January 2005

2. Hosted artists and Karuk Indian linguist Julian Lang in March 2005 along with Karuk artist Alme Alan to develop the exhibition *Abalone Tales*, a collaborative exhibition/installation by Karuk and Hupa artists/scholars from Northern California that will explore the narratives and complex relationships surrounding the use and history of Abalone in northwestern California. The exhibition will coincide with the release of a UNM publication *Abalone Tales* by Dr. Les Field (UNM Anthropology Department) with Exhibition planned for December 2006.

3. Coordinate the Native American Consortium A group of 8-10 indigenous scholars from New Mexico and Arizona meet to plan for a symposium in 2006 titled, “Marketing Heritage: Tourists, Tourism, and Community Issues,” The consortium will be chaired by Dr. Joe Watkins of UNM’s Anthropology Department and member of the Ortiz Programming Committee. Meeting to take place in December 2005.

4. Coordinate *Africa, The Holocausts of Rwanda and Sudan* a four- part exhibition that will run concurrently with the release of a UNM publication in Spring 2006. Co-curated by the photographer, Lucian Nimeyer, and K. Klein. Project will include a film and lecture series associated with each venue. Speakers to include Lucian Nimeyer and Admasu Shunkuri from UNM’s African American Studies department and member of the Ortiz Programming Committee. December 2005 – November 2006

D. Lasusky (Admin. Assistant, Office of Contract Archaeology)

1. Promoted to Office Administrator

D. Phillips (Curator of Archaeology)

1. Vice-President of the NM Archaeological Council

2. Article in the newsletter for Archaeological Society
R. Stauber (GIS/CAD Specialist, Office of Contract Archaeology)

1. Continues to serve on Board of Directors of the Outpost Productions, a non-profit arts presenter at the Outpost Performance Space and other venues. Currently chairperson of Membership Committee.

2. Contributed to poster, “Early Pueblo IV Farmers on La Bajada Mesa” resulting from OCA’s Camel Tracks data recovery project. Poster shown at 2005 Pecos Conference, White Rock, New Mexico.
In calendar year 2004, JAR received and reviewed 57 manuscripts. Each manuscript, besides being read by the editor, is normally reviewed by three to five specialists. 18 manuscripts were received from January 1 - June 30, 2005, and four more to date. We have noted a steady increase in submissions from foreign authors. This fact requires additional effort by the Editor, Copy Editor, and Compositor, but helps bring JAR (and UNM) increased positive international exposure.

JAR has 1093 paying subscribers - 946 institutions and 147 individual subscribers. Subscribers are from all 50 states, Washington D.C., Puerto Rico and Guam, plus 55 foreign countries on five continents. Free subscriptions are provided to UNM Anthropology Faculty, Administrators and Libraries, as well as to indexing agents both in the U.S. and abroad.


Volume 61, nos. 1 and 2 have been published for 2005 and no.3 is in proof at this time. Articles for no. 4 have been selected.

Special Reprinting Vol. 53, no. 3, 1997, a special issue on Universal Human Rights versus Cultural Relativity, was reprinted due to continued demand for course adoption.

JAR Distinguished Lecturers for 2004 were:

Dr. Peter Whiteley (American Museum of Natural History)

Dr. Michael Silverstein (University of Chicago)

JAR Distinguished Lecturers for 2005 are:

Dr. David Meltzer (Southern Methodist University)
*The Seventy Year Itch: Controversies over Human Antiquity and their Resolution.* JAR Volume 61, no.4, 2005.

Dr. Fraser Neiman (Director of Archaeology, Monticello)
*Lost World of Thomas Jefferson and Sally Hemings at Monticello* -scheduled for November 3, 2005.

Dr. Meltzer’s lecture was particularly well received, with a full-capacity audience in Anthropology 163.
Editorial Board

Philip K. Bock, Louise Lamphere, Carole Nagengast, and Robert Santley. Dr. Jane E. Buikstra left the Department of Anthropology in June 2005 and a new Board member will be selected in due time.

Associate Editors

John Comaroff (University of Chicago), Raymond DeMallie (Indiana University), E. Paul Durrenberger (Penn State University), Donald K. Grayson (University of Washington), Michael Herzfeld (Harvard University), Jane Hill (University of Arizona), Mary Moran (Colgate), Jeremy A. Sabloff (University of Pennsylvania), Bruce Smith (Smithsonian, National Museum of Natural History), and Stephen A. Tyler (Rice University).

Book Review Editors

Archaeology and Paleoanthropology
Physical and Biological Anthropology
Review Committee for Ethnology

Lawrence G. Straus
Joseph Powell
David Dinwoodie, Les Field and Suzanne Oakdale

Copy Editor

M. June-el Piper.

Ms. Piper replaced longtime Copy Editor, Dr. Patricia L. Nietfeld, upon her resignation in October 2004. Ann Braswell has taken over copy-editing of book reviews.

Employees

Ann Braswell
Andrea Cooper

Business Manager/Book Review Copy Editor
Student Book Review Coordinator

Ms. Braswell’s position has been upgraded from Administrative Assistant III to Coordinator, Technical Publication.

Web Page

Upgraded and maintained in 2004 by Lisa Pacheco, Mitch Teberg and, currently, Sean Bruna, all UNM students.
After lengthy consultations and deliberation, and with authorization from the UNM Office of Legal Counsel and approval of the Editorial Board, a professional contract has been entered into with the Scholarly Publishing Office of the University of Michigan at Ann Arbor. A fee of $3.75/subscriber/annum will be paid to University of Michigan for this service. Beginning with Volume 62, 2006, JAR will be offered electronically to institutional subscribers in conjunction with hard copy subscriptions only, for an additional fee of $25.00/year. This will result in additional income per on-line order of at least $17.50 (after 15% subscription agency fees are deducted). IP address data will be added to the existing JAR database by A. Braswell, who will coordinate these new subscriptions.

The University of New Mexico Press represented JAR at the meetings of the Society of American Archaeology, the American Anthropological Association and the Society of Applied Anthropology. Dr. Straus represented JAR during his travels in Europe in the Spring and Summer of 2004. Advertisements were run in the December issues of both Current Anthropology and American Anthropologist. JAR exchanged mailing lists with the Journal of Field Archaeology (Boston University).

**Professional Composition**

| Printing and Binding | Anthropological Consulting and Editing, (AC&E) Albuquerque, New Mexico |
| Distribution Subcontract | Thomson-Shore, Dexter, Michigan |
| Subscription Rates | Unit Packaging, Ann Arbor, Michigan |

Subscription Rates for paper will remain the same for 2006. For those institutions wishing to subscribe for the on-line journal, an additional fee of $25.00 will be charged. JAR’s policy is to continue to deliver a high quality, peer-reviewed publication in all areas of anthropology in a way which is efficient, economical, and accessible to institutions and individual scholars worldwide.

Lawrence G. Straus
Professor/Editor
August 10, 2005
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<td>Venezuela</td>
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<td>Wales</td>
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ANNUAL REPORT
of the
DEPARTMENT of BIOLOGY

FY 2004–05
Annual Report
by:

Eric S. Loker, Chair
Department of Biology
The University of New Mexico
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IX. Public Service .............................................................................. 125

L. Fourteenth Annual Research Day Program, April 2005 (in dept. copy only)

M. Departmental Graduation Program, May 2005 (in dept. copy only)
This is the second annual report prepared by Dr. Eric (Sam) Loker, who took over as chairman from Dr. Kathryn Vogel in mid-July, 2003. In 2004-2005, Dr. Loker was assisted in administering the Biology Department by two Associate Chairs, Dr. Mary Anne Nelson, whose major responsibility was the scheduling and staffing of our classes and oversight of the advising operations, and Dr. Robert D. Miller, who has been involved in oversight of building-related matters, coordination of departmental committees and our graduate program. Both Drs. Nelson and Miller concluded their two-year terms in May, 2005, and were replaced, respectively, starting on July 1, 2005 by Drs. Richard M. Cripps and Stephen A. Stricker. Below are several summary sections that highlight the activities of the Biology Department over the 2004-05 academic year. Additionally, as part of a planning program initiated by former A&S Dean Reed Dasenbrock, the Biology Department produced three documents to outline our needs for gateway introductory courses (SUCCESS), upper-level and majors courses (EXCELLENCE), and for our graduate and research programs (DISTINCTION). These are provided as part of this report in Appendices F, G and H.

STUDENTS

Undergraduate Program

Overall Demand on Biology Courses: The overall demand placed on courses offered by the Biology Department is relentlessly high, reflecting societal demands for solutions to environmental problems, training of health-care professionals, and because life-science training can enable the citizens of New Mexico to be competitive for high-quality employment. The number of declared Biology majors continues to hover at around 1,100 (Table 1) and, for the second time in our history, the number of credit hours generated has exceeded 23,000 per year (Tables 2, 3).

Table 1: Number of Students With a Declared Major in Biology

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<tr>
<td>Undergraduate:</td>
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<tr>
<td>A&amp;S</td>
<td>786</td>
<td>824</td>
<td>809</td>
<td>812</td>
<td>816</td>
<td>796</td>
<td>816</td>
<td>841</td>
</tr>
<tr>
<td>University College</td>
<td>242</td>
<td>195</td>
<td>214</td>
<td>211</td>
<td>254</td>
<td>223</td>
<td>262</td>
<td>262</td>
</tr>
<tr>
<td>Second Major</td>
<td>81</td>
<td>18</td>
<td>20</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
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<tr>
<td>Graduate:</td>
<td>110</td>
<td>108</td>
<td>118</td>
<td>118</td>
<td>98</td>
<td>95</td>
<td>100</td>
<td>97</td>
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<tr>
<td>Total:</td>
<td>1,219</td>
<td>1,145</td>
<td>1,161</td>
<td>1,141</td>
<td>1,168</td>
<td>1,114</td>
<td>1,178</td>
<td>1,200</td>
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Table 2: Total Student Credit Hours (SCH)

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<th>YEAR</th>
<th>SCH</th>
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<th>SCH</th>
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<tr>
<td>1989–90</td>
<td>17,527</td>
<td>2000–01</td>
<td>21,358</td>
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<td>1991–92</td>
<td>20,944</td>
<td>2001–02</td>
<td>21,459</td>
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<tr>
<td>1993–94</td>
<td>22,135</td>
<td>2002–03</td>
<td>21,832</td>
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<td>1997–98</td>
<td>21,627</td>
<td>2004–05</td>
<td>23,270</td>
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<tr>
<td>1999–00</td>
<td>21,882</td>
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Table 3: Student Credit Hours by Semester

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<tr>
<td>Summer</td>
<td>625</td>
<td>715</td>
<td>649</td>
<td>1,109</td>
<td>1,379</td>
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<tr>
<td>Fall</td>
<td>10,689</td>
<td>10,748</td>
<td>10,707</td>
<td>11,200</td>
<td>11,001</td>
</tr>
<tr>
<td>Spring</td>
<td>9,954</td>
<td>9,996</td>
<td>10,476</td>
<td>10,574</td>
<td>10,890</td>
</tr>
<tr>
<td>Total</td>
<td>21,268</td>
<td>21,459</td>
<td>21,832</td>
<td>22,883</td>
<td>23,270</td>
</tr>
</tbody>
</table>

Biology Majors and Implementation of the Majors Core Curriculum: As shown in Tables 4A and B, we continue to phase out our old Biology core curriculum (Biol. 121, 122, 219 and 221) and phase in our new core curriculum (Biol. 201, 202, 203 and 204). A detailed plan for phasing in the new core, and phasing out the old core has been prepared by Dr. Diane Marshall. Biology 201, the first of the four core courses, was first fully phased in during the Fall 2004 semester (two lectures, 12 discussions), and Biology 202 was taught for the first time in the Fall semester (one lecture, four discussions). Biology 219 and 221, remnants of our old core, were still taught in the Fall to allow students committed to the old core to finish up this sequence. In the Spring 2005 semester, Biology 202 was fully phased in (two lectures, nine discussions), and Biology 203 was taught for the first time (one lecture and two labs). Biology 221 was taught for the last time. The coming academic year will see Biology 203 completely phased in during the Fall 2005 semester, and Biol. 204 will come on-line in the Fall and be fully phased in by the Spring 2006. We also have been busy in organizing laboratories that will accompany Biology 203 and 204. The department, with some help from Arts and Sciences (A&S), has set aside considerable amounts of its own funds to support the purchase of new equipment for the majors’ laboratories.
Table 4A: Number of Students Registered in Undergraduate Core Courses for Biology Majors

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<tr>
<td>121 &amp; 122</td>
<td>1,382</td>
<td>1,105</td>
<td>1,236</td>
<td>1,627</td>
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<tr>
<td>219 &amp; 221</td>
<td>860</td>
<td>854</td>
<td>704</td>
<td>667</td>
<td>212</td>
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<tr>
<td>201</td>
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<td>—</td>
<td>—</td>
<td>210</td>
<td>494</td>
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Table 4B: Number of Students Registered in Core Courses for 2004-05

<table>
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<th>COURSE</th>
<th>FALL 2004</th>
<th>SPRING 2005</th>
<th>TOTAL</th>
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<tr>
<td>201</td>
<td>219</td>
<td>238</td>
<td>457</td>
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<td>202</td>
<td>37</td>
<td>118</td>
<td>155</td>
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<td>203</td>
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<td>204</td>
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Non-Majors Service Courses: The demand placed on our introductory, non-majors courses remains very high (Table 4C), with enrollment in Biol. 123 being especially strong, with a 43% increase. Demand for Biology 123 and the associated laboratory course, Biology 124L, remains intense. The latter two courses are required of Nursing, Pharmacy and other allied health-science programs that also continue to grow to keep pace with societal needs. Biology 110, our basic non-majors course, also experiences heavy demand; one step taken during the year was to hire in January 2005 an additional lecturer, Dr. Robert Frankis, to assist in particular with this course. We also hired Dr. Kelly Howe as a lecturer at the start of the Fall 2004 semester to assist with teaching our non-majors and majors introductory core courses. Another course that is under heavy demand and which taxes our teaching laboratory facilities to the limit is Biology 239, Microbiology for Non-majors. We are now in a position of having to teach this course in the evenings and on Saturdays.

Table 4C: Number of Students Registered in Beginning Biology Courses for Non-Majors

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<td>110</td>
<td>341</td>
<td>522</td>
<td>489</td>
<td>527</td>
<td>556</td>
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<tr>
<td>123</td>
<td>137</td>
<td>174</td>
<td>269</td>
<td>555</td>
<td>791</td>
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Key Staffing and Facilities Changes for Undergraduate Education: As noted above, we hired two new lecturers, Drs. Robert Frankis and Kelly Howe, to assist in the teaching of introductory biology courses. Also, with assistance from A&S, we were able to provide full-time salary support for Ms. María Ruby, our undergraduate program coordinator, to serve as an advisor to our undergraduates. Happily, as part of the ongoing efforts to renovate essential parts of Castetter Hall to provide a better learning environment for our students, the new microbiology teaching facility in the southwest
corner of the basement of the new wing of Castetter Hall (Room 37 and associated spaces) was brought on-line and used for the first time in the Fall semester, 2004. We are concerned that eventually the demand placed on this course will require us to add yet additional microbiology teaching facilities in the basement.

Undergraduate Research: The Biology Department has been a leader at UNM in creating a climate in which our undergraduates are encouraged to get first-hand experience in undertaking biological research under the direction of a faculty mentor. A survey of our 2004 graduates indicated that more than half of our students had received such an invaluable experience during their tenure in our department. One of the highlights of our annual schedule is Research Day, an event designed to showcase the accomplishments of both our undergraduate and graduate students. Research Day was held on April 1, 2005, and 40 of our students gave either oral or poster presentations. The guest lecture entitled, “Marine Biodiversity: from Corals to Microbes,” was presented to a packed house by Dr. Nancy Knowlton, Center for Marine Biodiversity and Conservation, University of California, San Diego and Scripps Institute of Oceanography, La Jolla, CA.

Degrees: Another annual highlight is our graduation ceremony, held on May 14, 2005. Our commencement address was given by former New Mexico Speaker of House and current member of the UNM Board of Regents, Raymond G. Sanchez. A total of 37 students received their Bachelor of Arts diploma, and 213 students received their Bachelor of Science diploma (Table 5).

Table 5: Degrees Awarded in Biology (unofficial count obtained for May graduation)

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<td>B.S.</td>
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<td>209</td>
<td>207</td>
<td>186</td>
<td>213</td>
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<tr>
<td>B.A.</td>
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<td>26</td>
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<td>16</td>
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</tbody>
</table>

(A&S 2001-02 data: B.S. 128, B.A. 19)

Graduate Program

Our graduate program continues to be strong and our graduate students perform at a remarkably high level. There were 105 graduate students enrolled in our program as of the start of the Fall 2004 semester. During the last year (Summer '04, Fall '04 and Spring '05), we awarded 7 M.S. and 11 Ph.D. degrees (Table 5; Appendix C).

In 2004-05, we received 78 new applications for admission into our program (as compared to 82 the preceding year). Of the 78 applications received, admission was offered to 28, all of whom accepted. Thus, our acceptance rate of 100% (28 of 28) was up considerably from the previous year (61%).

The number of graduate students entering our program was 24 in Fall 2002, 18 in Fall 2003, and 28 in Fall 2004. A study of our recent applicant pools by our Graduate Policy Committee concluded that there is no indication that the quality of our admitted students has diminished. We continue to attract blue-chip students and successfully compete with prestigious universities to recruit such stu-
A survey of the graduate students conducted during the year indicated that we can do a better
job recruiting students, especially in the form of improved information and application procedures
on our departmental web site. Consequently, in Fall, 2005, we will initiate a program of website redesign.

We have to be continually mindful of the stipends we award students ($13,619 for masters
students, $14,765 for Ph.D. students), which, for the time being, especially when considered with
respect to the cost of living in Albuquerque, and the health and other benefits UNM provides, are
considered by our students to be competitive.

One significant issue with respect to the Office of Graduate Studies (OGS) arose during 2004–
2005. This concerned the likely misplacement of some of Biology’s applications by OGS. This came to
light when local applicants asked whether they had been admitted, and we only then learned that they
had even made application. With a change in leadership at OGS, we are hopeful that such problems
have now been resolved and will not recur in the coming year.

FACULTY

Composition: At the start of the Fall, 2004 semester, we had seven lecturers and 35 tenure-track
faculty members on campus, with Drs. Thomas E. Turner and Andreas Wagner on full-year sabbatical
leaves for 2004–05. Dr. Kelly Howe was hired as a Lecturer III at the start of the Fall semester. During
the Fall semester, Dr. David Faguy resigned his faculty position. At the end of the Fall semester,
Sandy Ligon and Dr. J. David Ligon formally retired from the Biology Department; Sandy has agreed
to consider coming back for additional teaching should she so desire, and David was shortly thereafter
granted the title of Emeritus Professor. At the start of the Spring semester, Dr. Úlfar Berghórs son
joined the faculty as an assistant professor associated with the NIH-funded Centers of Biomedical
Research Excellence Center for Evolutionary and Theoretical Immunology program. Also, Dr. Robert
Frankis was hired as a Lecturer III to begin in January 2005. Thus, during the Spring semester, we had
seven lecturers and 34 tenure-track faculty on campus. At the end of the Spring, 2005 semester, Dr.
Manuel C. Molles, Jr. retired from the Biology Department, and was shortly thereafter granted the
title of Emeritus Professor. One Biology faculty member, Dr. James R. Gosz, formerly a 0.5 FTE
because he also serves as the director of the state EPSCoR program, has now moved completely to
Scholes Hall to serve as EPSCoR’s director and to perform other administrative matters related to the
Long Term Ecological Research (LTER) field station. Dr. Terry L. Yates, a Biology faculty member,
currently serves full-time as the Vice Provost for Research and Economic Development at UNM.
Another retired faculty member, Dr. Donald W. Duszynski, continues to serve in a 0.25 FTE capacity.
After the retirement of Dr. Molles, Dr. Duszynski was appointed as the Director of the Museum of
Southwestern Biology, starting in Fall, 2005.

During the Fall semester, promotion packages were put together for Drs. Joseph A. Cook, Robert
D. Miller and Robert L. Sinsabaugh. All were subsequently promoted to full professor in the Spring
semester. Additionally, successful mid-probationary reviews were undertaken for Drs. David T.
Hanson and Steve Poe.

Using resources provided by the newly funded NIH COBRE-CETI program, a search for a faculty
member with expertise in Comparative Immunology was initiated in the fall, and concluded success­
fully with the hire of Dr. Charles Cunningham from the Medical University of South Carolina in the
Dr. Cunningham will begin his new faculty post as an assistant professor in Fall, 2005. Dr. Cunningham is slated to become a mentee in the CETI program.

In March, 2005, as part of a special faculty retention hiring situation associated with Dr. William T. Pockman, the department approved the hiring of Dr. Marcy Litvak, from the University of Texas, Austin.

Research Semesters were approved in the Spring semester for Dr. Luis E Cadavid.

Dr. Loker was assisted in administering the Biology Department in 2004–05 by two Associate Chairs, Dr. Mary Anne Nelson, whose major responsibility the scheduling and staffing of our classes and oversight of the advising operations, and Dr. Robert D. Miller, who has been involved in oversight of building-related matters, coordination of departmental committees and our graduate program.

Drs. Nelson and Miller concluded their two-year associate chair terms in May, 2005, and were replaced starting on July 1, 2005 by Drs. Richard M. Cripps and Stephen A. Stricker.

During the year, the department was given the opportunity to decide the subject areas of two new faculty members to be hired during the 2005-2006 academic year. The department decided to hire an Arthropod Biologist and an Avian Biologist, both to be members of the Biology Department and curators of their respective divisions in the Museum of Southwestern Biology. We also tentatively agreed to hire two new faculty members in Cell/Molecular Biology in the 2006-2007 academic year.

Faculty Accomplishments: The tenure-track faculty published 115 articles in scientific journals or as book chapters, as well as five books (Structural and Functional Relationships in Prokaryotes by Larry Barton; Foundations of Biogeography, edited by M.V. Lomolino, D.F. Sax and J.H. Brown; Biodiversity in Drylands: Towards a Unified Framework, edited by M. Shachak, J. Gosz, S.T.A. Pickett, and A. Perevolotsky; Ecology: Concepts and Applications, third edition by M. Molles, Jr; and Biology, seventh edition, by N.A. Campbell and J.B. Reece, with M.C. Molles, Jr. as a contributing author). Thirty-two of our tenure track faculty members (85%) reported publications in 2003. Between the years 2000-04, of 66 articles originating from the State of New Mexico published in the two preeminent scientific journals of our time, Science and Nature, 24, or 36%, of them originate from the Biology Department, far more than any other unit in the state, including LANL and the School of Medicine.

One of the most significant developments in the history of the Biology Department was announced in May, 2005 (http://biology.unm.edu/BiologyNews/Brown-NAS.htm), the election of Distinguished Professor Dr. James Brown to the National Academy of Sciences. He has conducted several major research programs over the course of his career including theoretical research in biological scaling and macroecology and experimental research in desert ecology. His research interests include community ecology and biogeography, with special projects on granivory in desert ecosystems; biogeography of insular habitats; and structure of dynamics of geographic-scale assemblages of many species.

Drs. Scott Collins and Jim Gosz were awarded a $985K grant from the NSF to develop LTER sites for multidisciplinary science.

Dr. Joe Cook was awarded a $502K grant from NSF to study of coevolution in Beringian mammals and parasites.

Dr. Cliff Dahm served as president of the North American Benthological Society.
Dr. Jim Gosz served as director of the state EPSCoR committee and as chairman of the U.S. LTER Coordinating Committee.

Dr. Astrid Kodric-Brown was awarded a $100K grant from NSF to study reproductive isolation in cyprinodont fishes.

Dr. Eric Loker serves as a Regents’ Professor from 2003–06 and was awarded a $1.4M grant from NIH to study the epidemiology of schistosomiasis in Kenya.

Dr. Tim Lowrey serves as a Regents’ Lecturer from 2003–06 and was elected co-chair of the U.S. Herbarium Networking Committee.

Dr. Diane Marshall was named the recipient of the Loren Potter Chair in Plant Ecology, from 2004–09, and replaces Dr. Manuel Molles, who previously held that title.

Dr. Rob Miller serves as a Regents’ Lecturer from 2001–04.

Dr. Donald Natvig served as editor of *Mycologia*.

Dr. Mary Anne Nelson was awarded a $166K grant from the NIH to study functional genomics of filamentous fungi.

Dr. Cristina Takacs-Vesbach was awarded a $160K grant from NSF to study microbes in polar deserts.

Dr. Maggie Werner-Washburne served as the chair for the local organizing committee for the SACNAS (Society for Advancement of Chicanos and Native Americans in Science) National Meeting held in Albuquerque in November 2004, and secured a $1M grant through SACNAS to support a genomics program.

Sponsored Research: In 2004–05, 100 new research grants were obtained by the Biology Department, with a total value of $12,470,151. Thus, 2004–05 was an exceptionally good year for grants for us, as a typical year usually results in about $7–8 million in new grant funds. The total grant portfolio held by the Biology Department exceeds $47 million. The department continues to benefit from the NIH-funded Center of Biomedical Research Excellence (COBRE) grant, first awarded in 2003–04 and continuing in effect for three more years. In addition, among the many large grants in force from previous years are the LTER Network Office Program, the Biocomplexity Program, the Sevilleta LTER program, Freshwater Biology and Optics IGERT programs. Dr. William Michener, a Research Professor in the LTER Network office, was awarded grants totaling $1.57M in 2004–05.

**MUSEUM OF SOUTHWESTERN BIOLOGY**
(Prepared by D.W. Duszynski)

The Museum of Southwestern Biology (MSB) went through some transitions in FY 2004–2005. In the fall of 2004, the Director, Dr. Manuel Molles announced he would retire in June, 2005. A (local) search was begun to replace Molles and, after the interview process involving two candidates, Dr. Donald W. Duszynski was appointed the new director, to assume duties July 1, 2005. Manuel and Don worked closely during Spring semester 2005, with Duszynski attending all of the MSB meetings held that semester, including the one on June 30 that addressed the “One Year Warrantee Review” of
the CERIA building. Because of the 15-year period of the construction/reconstruction of the CERIA building, with the Phase I construction company going into bankruptcy and not completing much of the work it had contracted for, a myriad of unresolved problems arose during Phase II when GSL Architects and ESA Construction took over the completion of the building. The (subset of) problems discussed at this meeting involved ESA Warranty issues, safety and security issues (most still unresolved), and UNM improvement items (many promised, but few resolved due to financial constraints). These are serious issues which the new director is working to resolve in 2005.

One contentious issue brought up in September 2005 is that of time wasted doing both fiscal year (FY) and annual reports (AY), a duplication of effort on the part of Curators and Collection Managers. It was decided that they would do only one report, an AY report. Thus, in the future, even though the College requires a report in the fall of each year that summarizes the previous FY, the report from the MSB will be one summarizing only the previous AY from January 1 through December 31. Thus, this year is one of transition between the two reporting formats. Since most of the activities and accomplishments of the MSB through December 31, 2004, were reported in last year’s report, they need not be repeated here. Similarly, most of the Spring 2005 was a transition semester between Molles and Duszynski and the accomplishments of the MSB and its faculty, staff and students will be reported in detail in the 2005 report, which will be completed before the end of Spring semester of 2006.

**STAFF MATTERS**

Currently, the staff in the Biology Department is comprised of 97 members, of which 26 are paid in part or full by I&G funds (see list below and Appendix E). The staff on a regular basis performs minor miracles to keep the department functioning as efficiently as possible. One of the major preoccupations of the past year has been adjusting to the intricacies of the new BANNER accounting system, which began July 1, 2004. Another major job requiring considerable effort from our building manager, John Cox, has been the renovation of both microbiology teaching labs and new research labs and faculty offices. Other major events during the year have been: 1) a substantial reorganization of the accounting staff, with the hiring of Ms. Heather Paulsen to be the head accountant and an increase in the full-time accounting staff from four to five members; and 2) the moving of Ms. Maria Ruby to a full-time supported state line, to support our advising activities.

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<td>Visiting Faculty</td>
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| Staff Separations    | 29 |
| Post-Doc, Research & Visiting Faculty Separations | 10 |

Dr. Lynn Hertel, staff research scientist in the Department of Biology, died on April 2, 2005 after a battle with pancreatic cancer. Dr. Hertel worked for nearly 20 years as a valued researcher and colleague in the department. While continuing her research-related duties, she entered the Ph.D. program
in Biology and was awarded her Ph.D. in 2004, after passing her final comprehensive examination with distinction. She will be missed.

BUILDING PROJECTS

Several building-related activities have been underway in 2004–05. First of all, the large-scale move of several programs such as the Museum of Southwestern Biology, the Sevilleta LTER program and the LTER Network Office to CERIA (Center for Environmental Research, Information and Art), along with the offices of 10 individual faculty members, was completed in early fall, 2004. Second, at a cost of $500K, the new microbiology teaching facility in the southwest corner of the basement of the new wing of Castetter Hall (Room 37 and associated spaces) was brought on-line and used for the first time in the Fall semester, 2004. As part of the COBRE-CETI project, the renovation of much of the second floor of the south wing of the old portion of Castetter Hall was completed in December, 2004, at a total cost of ~$1M. The renovated spaces provide two new faculty offices and labs, refurbished facilities for one of the department's most actively used core facilities, the Molecular Biology Facility (MBF), and provide offices for both CETI and the MBF staff.

Additionally, the Biology Department was active during the spring and summer of 2005 in helping to promote and secure passage of the ~$135M student-funded capital bond issue. Our involvement was to invite members of the press, of the state government and of the UNM administration to tour our antiquated introductory biology laboratory facilities, now 50 years old, on the first floor of the old wing of Castetter Hall. We also made presentations to the Board of Regents and to Department of Higher Education to promote our need for new lab spaces. As a result, included in the bond issue are funds totaling $7M for the renovation of much of the basement of the new wing of Castetter Hall as a teaching complex (see tentative plan in Appendix J). Included in this new complex will be three new teaching labs for our introductory majors courses, two new upper-level teaching laboratories, two new lecture rooms, an advising complex, and a student commons area that is to include much of the Biology courtyard. Construction of this complex is set to begin in the May, 2006, with an August, 2007 proposed completion date.

Also included in the student-funded bond issue is a sum of $5.6M to construct an expansion to Castetter Hall to support research activities associated with the general area of genomics biology. This facility is envisioned to eventually be comprised of 30,000 square feet, distributed over four floors, one of which is to house an animal facility. It mostly will house NIH-funded investigators working with genomic projects in one way or another. The location of this expansion has yet to be decided, but probably will lie on the west side of Castetter Hall. Additional sources of money to complete the facility are being sought from both the National Institutes of Health and from state sources.

The final segment of the student bond issue that involves the Biology Department is a $16M Math/Science Learning Center. This building, location as yet undecided, will be located close to Castetter Hall, and will include at least three new teaching laboratories to support the heavy enrollments we experience in our non-majors biology courses. This building also is intended to encourage multidisciplinary interactions with other departments such as Mathematics. Hopefully, the sum of $16M will be supplemented by additional state funds intended to build additional Biology faculty research labs associated with the learning center.
Another important piece of federal funding of $3M to construct the Sevilleta Research and Education Center at the Sevilleta National Wildlife Refuge (SNWR) was announced in February, 2005, by Congressman Heather Wilson in Castetter Hall. An official groundbreaking attended by Senator Pete Domenici followed at the SNWR on July 6.

Equipment and Infrastructure Upgrades: Several projects have been undertaken over the past year to improve our research facilities: 1) through funds provided by COBRE–CETI, purchase of new research-quality epifluorescence and dissecting microscopes with digital cameras; 2) a freezer alarm system; and 3) new equipment for the instruction of physiology labs in Biol. 203 and Biol. 204.

The department was the recipient of a $287K gift that resulted from the sale of a parcel of land on Albuquerque’s west side. These funds have been used to establish a Harry Ross Quasi Endowment to support the research and teaching missions of the department.

SUMMARY COMMENTS FROM 2004–2005

The 2004–2005 academic year was marked by a most notable event, the election in May, 2005 of Distinguished Professor Dr. James H. Brown to the National Academy of Sciences. Dr. Brown’s distinguished career has unfolded at several different universities, but for nearly 20 years Dr. Brown has graced our halls, and much of the work for which he was recognized was done here at UNM, often in close collaboration with his students. This, along with a host of other tangible scientific accomplishments of the faculty, students and staff of the Biology Department, provides a powerful reminder of the world-class level of scientific achievement that is regularly attained here in the Biology Department.

Another notable development in the past year has been the ongoing renovation of facilities in the Biology Department. As repeatedly noted throughout the year, often in public venues such as meetings of the Board of Regents or the Commission of Higher Education, many of our facilities are frankly inadequate and in need of replacement. As a first step towards this goal, we have built a new introductory microbiology teaching facility in the basement of the new wing of Castetter Hall. We also have provided new laboratory facilities for two tenure-track hires associated with the COBRE–CETI program, and have completed the refurbishing of the department’s Molecular Biology Facility. We have drawn up plans that call for the renovation of much of the rest of the basement to include brand new undergraduate teaching labs, a project that will be initiated in 2006 and completed by 2007, thanks to funds secured in the student-funded bond issue passed in summer, 2005, with considerable input and assistance from the Biology Department.

The department, at least from the vantage point of the chair’s office, although besieged by heavy enrollment demands and occasional attempts by other universities to recruit our faculty, continues to function well as one large, well-integrated department. The faculty has been remarkably and uniformly productive and continues to excel in securing extramural funding for the broad range of activities in which we engage. Also laudable are the tireless efforts of the staff to support all aspects of our teaching, research and service missions, often under difficult conditions.

The department faces many formidable challenges. The overall trend in extramural funding is unequivocally downward given the enormous expenses our government is incurring both abroad and in responding to local disasters at home. One sobering implication is to expect a reduction in our level of federal grant support that enables us to do many creative things to keep our academic enterprise
moving forward. The predicted reduction of research funds sounds an ominous note for universities across the country. Securing better physical locations in which to discharge our teaching and research missions must remain a very high priority for the department. Another major challenge we face is scheduling and staffing all of the courses required of us by non-majors programs. Impending retirements also pose a considerable challenge—if we are to retain and improve the recognition we have achieved in certain key disciplines, we will need the resources to make several important hires in the next five years.

Eric S. Loker
Regents’ Professor and Chairman
October 7, 2005
APPENDICES

FY 2004–05
ANNUAL REPORT
DEPARTMENT OF BIOLOGY
Altenbach, J. Scott
Barton, Larry L.
Brown, James H.
Bergthorsson, Ulfar
Cadavid, Luis F.
Charnov, Eric L.
Collins, Scott L.
Cook, Joseph A.
Cripps, Richard M.
Dahm, Clifford N.
Duszynski, Donald W.
Gosz, James R.
Hanson, David T.
Kodric-Brown, Astrid
Loker, Eric S.
Lowrey, Timothy K.
Marshall, Diane L.
Miller, Robert D.
Milne, Bruce T.
Molles, Manuel C., Jr.
Natvig, Donald O.
Nelson, Mary Anne
Pockman, William T.
Poe, Steve
Sinsabaugh, Robert
Snell, Howard L.
Stricker, Stephen A.
Takac-Vesbach, Cristina
Thornhill, Randy
Toolson, Eric C.
Turner, Thomas F.
Vogel, Kathryn G.
Waide, Robert B.
Wagner, Andreas
Werner-Washburne, Margaret
Wolf, Blair O.
APPENDIX B

DEPARTMENTAL COMMITTEES
- **Departmental Committees – 2004/2005**

  **Chairman**
  Eric (Sam) Loker

  **Associate Chairs**
  Mary Anne Nelson
  Rob Miller

  **Director, Museum of SW Biology**
  Manuel Molles

  **Comparative Immunology Faculty Search**
  Rob Miller, Chair
  Luis Cadavid
  Tina Vesbach
  Joe Cook
  Jason Bragg, BGSA

  **Lecturer II/III Search Committee**
  Kelly Howe, Chair
  Mary Anne Nelson
  Lee Couch
  Scott Altenbach
  Zuly Parra, BGSA

  **Graduate Student Selection**
  Scott Collins, Chair
  Diane Marshall
  Maggie Werner-Washburne
  Don Natvig
  Hilary Lease, BGSA
  Vivian Kent

  **Honors Program**
  Luis Cadavid

  **Promotion and Tenure**
  Howard Snell, Chair
  Kate Vogel
  Randy Thornhill

  **Undergraduate Policy Committee**
  Will Pockman, Chair
  Kelly Howe
  Maria Kjonegaard
  Scott Altenbach
  Jim Swan
  Larry Barton
  Angela England, BGSA

  **Undergraduate Curriculum Implementation**
  Diane Marshall
  Bruce Mline
  Sandy Ligon
  Cara Lea Council-Garcia

  **Graduate Policy**
  Astrid Kodric-Brown, Chair
  Randy Thornhill
  Rob Miller
  Joanna Redfern, BGSA

  **Space/Buildings**
  Cliff Dahm, Chair
  Astrid Kodric-Brown
  John Cox
  Vivian Kent
  Steve Poe
  Ernie Valdez, BGSA

  **Seminars**
  David Hanson

  **Graduate Advisors**
  Ric Charnov
  Don Natvig

  **Computers and Web Site**
  Eric Toolson, Co-Chr
  Nancy Davis, Co-Chr
  Anne Rice
  Jerry Dragoo
  George Rosenberg
  Maggie Werner-Washburne
  Alison Boyer, BGSA

  **Greenhouses**
  Diane Marshall, Chair
  David Hanson
  Will Pockman
  Jane Mygatt
  Joy Avritt
  Jerusha Reynolds, BGSA

  **Research Day**
  Bruce Hofkin, Co-Chr
  Steve Stricker, Co-Chr
  Mary Anne Nelson
  Michelle Baker
  Kelly Howe
  Christina Fridrick
  Daisy Rosero
  Nirvana Barker, BGSA
  Heather Bateman, BGSA

  **Graduation**
  Lee Couch, Chair
  Christina Fridrick
  David Faguy

  **Biology Graduate Student Association**
  Lydia Zeglin, Co-Pres.
  Robin Warne, Co-Pres.
  Rob Miller, Faculty sponsor
Museum SW Biology
Exec Committee
Manuel Molles, Chair
Curators
Bob Sinsabaugh

Scholarships
Larry Barton, Chair
Jim Brown
Tim Lowrey
Howard Snell

Undergraduate
Academic Advising
Maria Kjonegaard, Advising Coordinator
Lee Couch
Kelly Howe
Eric Toolson
Cara-Lea Council-Garcia
Bob Sinsabaugh

Pre-Vet Advising
Bruce Hofkin

Department Publicity
Don Duszynski
Ursula Shepherd
Bruce Hofkin

Field Programs and Vehicles
Don Duszynski
Blair Wolf
Jim Gosz
Joe Cook

Mol. Biology Facility
Richard Cripps

Microscopy Facility
Steve Stricker

Library Liaison
Bruce Milne

LTR Director
Scott Collins

LTR Network Office Director
Bob Waide

Sevilleta Field Station Director
Don Natvig

IGERT Director
Cliff Dahm

IMSD Director
Maggie Werner-Washburne

CETI Director
Eric (Sam) Loker

BGSA Computer Pod
Alison Boyer

BGSA Darkroom
Toni Smythe

Animal Care and Use
Blair Wolf
Bill Gannon

New Grad Student Orientation
David Hanson
Steven Poe

Glass Case Displays
Lee Couch
Cara Lea Council-Garcia

Biological Society of New Mexico/UNM Foundation
Don Duszynski, Chair
Bob Dickerman
Pat Weinbrecht
Terry Yates

Salary Strategy
To be named

Dean's SEED Task Force (?)
Kate Vogel
Jim Brown
Cliff Dahm

Univ. & College Committees

AGEP Representative
Luis Cadavid
Tina Vesbach

Anthro Faculty Search
Steve Poe

A&S Senior Promotion
Bruce Milne

A&S Undergrad Representative
Scott Altenbach

Center for Advanced Studies
Bruce Milne

Center for Research in Ecological Science and Technology
Bob Waide
Consortium for the Americas
Bruce Milne

Faculty Senate
Howard Snell

RAC Committee
Bob Waide

UNM Biosafety Committee
Coen Adema

UNM Radiation Control Committee
Richard Cripps

University Scholarship and Awards Committee
Howard Snell

UNM Sustainability Program, Director
Bruce Milne
APPENDIX C

GRADUATE

DEGREES AWARDED
SUMMER 2004

M.S.
Heather Parmeter, "Environmental Correlates to Parasitism in Native Rio Grande Cutthroat Trout." (T.F. Turner)

Allison Pease, "Resource Use by Larval and Juvenile Fishes in the Middle Rio Grande, New Mexico." (T.E. Turner)

Steven Yanoff, "Vegetation Change in a Northern Chihuahuan Desert Grassland." (T.K. Lowrey)

Ph.D.
Paula Hall, "The Ecology and Evolution of Gynodioecy in Callirhoe (Malvaceae)." (D.L. Marshall)

Kelly A. Howe, "ASD2, a Member of the Argonaute Family of Gene Silencing Proteins, Is Essential for Sexual Development of Neurospora crassa." (M.A. Nelson)


FALL 2004

M.S.
Zuly E. Parra, "Content and Diversity of the Duckbill Platypus T Cell Receptor Gamma Chain." (R.D. Miller)

Anna P. Tyler, "Effects of Climate on the Hydraulic Architecture of a Dominant Desert Shrub, Larrea tridentata." (W.T. Pockman)

Ph.D.

Lynn A. Hertel, "Susceptibility and Resistance of Snails to Trematode Infection: Investigations into the Role of Hemolymph Components and Symbionts in the Snail Biomphalaria glabrata." (E.S. Loker)
Ph.D.


Gavin Conant, "Functional Divergence at the Molecular Level: Robustness, Asymmetry, and Convergence." (A. Wagner)

Michael Fuller, "Chance, Determinism and Community Structure: An Assessment of Ecological Neutral Theory." (A. Wagner)

APPENDIX D

GRADUATE STUDENTS & FACULTY ADVISORS
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APPENDIX E

STAFF LISTS
Total Staff: 97  
Postdocs: 24  
Research Faculty: 22  
Visiting Faculty: 4  
Staff Separations: 29  
Faculty Separations: 10

### BIOLOGY STAFF: FY 2004–2005

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**STAFF SEPARATIONS: FY 2004–2005**

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**NON-TENURE FACULTY: FY 2004–2005**

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NON-TENURE FACULTY HIRES: FY 2004–2005

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NON-TENURE FACULTY SEPARATIONS: FY 2004–2005

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APPENDIX F

MOLECULAR BIOLOGY FACILITY ANNUAL REPORT
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 utilizes molecular biology techniques. 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. Faculty and students from other A&S Departments, including Anthropology, Earth & Planetary Sciences, and Chemistry, and from the Schools of Medicine and Engineering, also utilize the MBF for both research and training. Based on the data contained in this report, the MBF is arguably among the most heavily utilized support units within the Biology Department.

The MBF's role in education and training in the Department and the community continued this fiscal year. Two courses taught within Biology (Biol. 444 and 446) 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 2004-2005 fiscal year include:

1. NIH COBRE grant “Center for Evolutionary and Theoretical Immunology” enabled remodel of MBF was completed. MBF room 230 was turned into offices, some of which will be used by MBF staff. Equipment from room 230 was moved into remodeled laboratory space in rooms 217, 218, and 219.

2. Based on data from the Office of Research Services, there were 30 grants active this fiscal year that utilized or depended upon the MBF. These grants amounted to more than $7,850,000 in total awards.

3. Based on a search of the SciSearch database maintained at the Los Alamos National Laboratory, there were 24 MBF-related peer-reviewed manuscripts published in fiscal year 2004-2005.
MOLECULAR BIOLOGY FACILITY AT THE UNM DEPARTMENT OF BIOLOGY

STAFF

Director: Richard Cripps

Research Scientist/Manager: George H. Rosenberg

Research Scientist/COBRE Project: Jennifer Marshall and April Wright

Teaching Assistants:
Jon Olp (Fall 2004, Spring and Summer 2005)

MAJOR EQUIPMENT ACQUISITIONS

Eppendorf thermocycler
NanoDrop spectrophotometer
VWR circulating waterbath
VWR heatblock
Dell Precision 370 workstation
Apple G5 workstation
Brand multichannel pipettor
USERS:

Faculty (24): Barton, Buikstra (Anthropology), Cadavid, Cook, Cripps, Faguy, Hanson, Hunley (Anthropology), Kodric-Brown, Loker, Lowrey, Miller, Natvig, Nelson, Pockman, Sinsabaugh, Stone (Anthropology), Stricker, Tackas-Vesbach, Thornhill, Turner, Vogel, Werner-Washburne, Yates

Adjunct or Part-time Faculty (7):
Coen Adema, Michelle Baker, Jerry Dragoo, Bruce Hofkin, Leah Larkin, Diana Northup, Si-Ming Zhang

Postdoctoral Fellows (12)
Ben Hanelt, Sara Brant, Michelle Steinauer, Bill Dvorachek, Jodie Van De Kamp, Greg Moyer, Megan Osbourne, Chris Allen, Juanita Martinez, Yiguo Jiang, Yong Zeng, Yong-An Zhang

Biology Graduate Students (37):
Yvonne Bishop, Richard Plunkett, Ryan Schwarz, Anson Koehler, Dolly Crawford, Eric Walteri, Fernando Torres, Natalie Dawson, Ankita Nanavaty, Kathryn Ryan, Phill Baker, Armand Dichosa, Lisa Schwanz, Lynn Hertel, Nirvana Barker, Thomas Nowak, Joanna Redfern, Paula Hall, April Wright, Jon Olp, Zuly Parra, Sandra Melman, Jozlyn Garcia-Bustamante, Andrea Porras-Alfaro, Harriet Platero, Jessica Snyder, Marcy Gallo, Toni Symthe, Kendra Mitchell, Lydia Zeglin, Martina Stursova, Mike Brown, Maureen Peters, Wade Wilson, Anthony Aragon, Jason Thomas, Larisa Harding

Anthropology Graduate Students (3):
Amy Farnbach, Alicia Wilber, Yann Klimentidis

Undergraduates (50)
Steven Saenz, Teresa Madrid, Sandra Brumburgh, Nicole Woodards, Brandie Black, John Paul LaRieu, Lonika Majithia, Mona Rezai, Tuhama Rihani, Kelly Fitzpatrick, Bonnie Lun, Elisa Bonner, Krista Artea, Damian Trujillo, Emily Hodson, Jennifer Brower, Jennifer Ikle, Phong Nguyen, Lynda Arguello, Kathryn Moore, Susan Monzon, Camille Puronen, Melissa Smith, Sandra Ortega, Kaveri Chaturvedi, Tom Phol, Alicia Hosdon, Pat Blair, Jeff Lucero, Nick Card, April Lopez, Tammie Arnold, Andrea Anderson, Kristine Rubio, Donna Pham, Andrea Leather-Lopez, David Stromberg, Jen Pincus, Nick Rael, Sarah Caldwell, Olan Jackson-Weaver, Justine Hall, Kim Rodgers, Christine Cooper, Karen Gaines, Melissa Benevides, Melvin Foster, Melissa Martinez, Gabriel Quinones, Jason Jaetao
Visiting Scientists Using the Facility (9)
Jim Gayle (UNM School of Medicine, Dept. of Cell Biology and Physiology)
Mary E. Shaw (NM Highlands University)
Robin Simons (UNM Chemical Engineering\Dr. Lopez's Lab)
Paul Arbetan (Natural Heritage New Mexico)
Norman Smith, MEMX Inc., Albuquerque, NM
Wael Lofty (Medical Research Institute, Alexandria, Egypt)
Pat Dolan and Liz Patrick (Sandia)
Yan Wu (UNM Department of Chemistry\Mass Spectrometry Group\Dr. Engen's Lab)
Scott Seville (University of Wyoming at Casper)
Rodrigo Vega (National Autonomous University of Mexico (UNAM))

Research Staff (13)
Amy Osterman, Linda Hodes Villama, Matt Fain, Jeanne Louderbough, Jill Hendren, Tyanna Lovato, Jennifer Ellwell, Sarah Joyce, Jennifer Hall, Ming Ji, Chris Laubur, Dominque Alo, Angelina Sanchez

INSTRUCTION AND TRAINING
Formal Courses which used the MBF
Biol 444, Molecular Genetics
Biol 446/546, Molecular Methods

Public Outreach
1. Demonstration for Highland High School, Teacher Oni Leach and 10 students, at MBF on 4/22/05.

Other Undergraduate Training Programs
1. IMSD
2. MARC
SPONSORED PROJECTS USING THE MBF

Principal Investigator(s): Coenraad Adema
Sponsor: National Institute of Allergy and Infectious Diseases/NIH/DH
Amount: $262,500
Title: Anti-Pathogen Responses in Biomphalaria glabrata
Project Period: 4/1/05-3/31/06

Principal Investigator(s): Luis Cadavid
Sponsor: NSF
Amount: $508,809
Title: Molecular and Functional Characterization of an Ancient Histocompatibility System
Project Period: 8/1/03-7/31/06

Principal Investigator(s): Joseph Cook
Sponsor: U.S. Fish & Wildlife Service/Department of the Interior
Amount: $4,500
Title: Molecular Perspectives on Tongass
Project Period: 7/29/03-9/1/07

Principal Investigator(s): Joseph Cook
Sponsor: National Science Foundation
Amount: $334,976
Title: Beringian Coevolution Project II
Project Period: 1/2/05-12/31/06

Principal Investigator(s): Richard Cripps
Sponsor: National Institute of General Medical Sciences/NIH/DHHS
Amount: $210,000
Title: Genetic Regulation of Muscle Fiber Diversity
Project Period: 5/1/01-4/30/05

Principal Investigator(s): Richard Cripps
Sponsor: NIH
Amount: $285,000
Title: Genetic Regulation of Cell Fate in the Drosophila Heart
Project Period: 4/1/05-3/31/06

Principal Investigator(s): Richard Cripps
Sponsor: American Heart Association
Amount: $42,000
Title: Hox Genes and the Patterning of the Drosophila Dorsal Vessels
Project Period: 1/1/05-12/31/06
Principal Investigator(s): Richard Cripps
Sponsor: National Institute of General Medical Sciences/NIH/DHHS
Amount: $8,127
Title: Genetic Regulation of Muscle Fiber Diversity
Project Period: 5/1/04-4/30/06

Principal Investigator(s): Richard Cripps
Sponsor: Muscular Dystrophy Association
Amount: $237,687
Title: Transcriptional Control of Muscle Remodeling in Drosophila
Project Period: 7/1/03-6/30/06

Principal Investigator(s): David Hanson
Sponsor: Sandia National Laboratories
Amount: $40,000
Title: SURP 04-05: Carboxysome function in the marine cyanobacterium Synechococcus WH8102
Project Period: 10/1/04-9/30/05

Principal Investigator(s): Leah Larkin
Sponsor: NSF
Amount: $332,335
Title: RESVSYS: A Holistic Approach to a Holartic Group: Subgeneric Relationships within the Genus Andrena Fabricius (Hymenoptera)
Project Period: 3/1/04-3/31/07

Principal Investigator(s): Eric Loker
Sponsor: National Center for Research Resources/NIH/DHHS
Amount: $1,732,191
Title: COBRE: Center for Evolutionary and Theoretical Immunology
Project Period: 7/1/04-6/30/05

Principal Investigator(s): Eric Loker
Sponsor: National Center for Research Resources/NIH/DHHS
Amount: $58,969
Title: COBRE: Center for Evolutionary and Theoretical Immunology
Project Period: 7/1/04-6/30/05

Principal Investigator(s): Eric Loker
Sponsor: National Institute of Allergy and Infectious Diseases/NIH/DHHS
Amount: $259,671
Title: Evo-epidemiology of Schistosoma mansoni in Western Kenya
Project Period: 4/1/04-3/31/06
Principal Investigator(s): Timothy Lowrey  
Sponsor: Natural History Museum  
Amount: $17,186  
Title: The phylogeography of ocotillos  
Project Period: 1/1/05-12/31/05

Principal Investigator(s): Robert Miller  
Sponsor: National Science Foundation  
Amount: $110,000  
Title: Structure and Evolution of the MHC in a Model Marsupial  
Project Period: 5/15/03-4/30/06

Principal Investigator(s): Mary Anne Nelson  
Sponsor: National Institute of General Medical Sciences/NIH/DHHS  
Amount: $64,849  
Title: Undergraduate Biomedical Research Training at the University of New Mexico  
Project Period: 6/1/04-5/31/06

Principal Investigator(s): Mary Anne Nelson  
Sponsor: Dartmouth College  
Amount: $175,619  
Title: Functional Analysis of a Model Filamentous Fungus: ESTs  
Project Period: 4/1/05-3/31/06

Principal Investigator(s): Diana Northup  
Sponsor: NSF  
Amount: $291,644  
Title: Identification of Microbial Signatures in Biogenic Cave Ferromanganese Deposits  
Project Period: 8/15/03-7/31/07

Principal Investigator(s): Diana Northup  
Sponsor: T & E Inc.  
Amount: $1,964  
Title: Genetic Bacteria as Indicators of Human Impact in Caves  
Project Period: 6/1/05-12/31/06

Principal Investigator(s): Robert Sinsabaugh  
Sponsor: Department of Energy  
Amount: $215,540  
Title: Mechanics of Soil Carbon Sequestration by Nitrogen Deposition  
Project Period: 8/1/03-7/31/05

Principal Investigators(s): Cristina Takacs-Vesbach  
Sponsor: NSF  
Amount: $371,545  
Title: A Microbial Survey of the Greater Yellowstone Ecosystem Thermal Features  
Project Period: 8/1/02-7/31/05
Principal Investigator(s): Cristina Takacs-Vesbach  
Sponsor: NSF  
Title: Collaborative Research – Hydrologic Controls over Biogeochemistry and Microbial Community Structure and Function across Terrestrial/Aquatic Interfaces in a Polar Desert  
Amount: $160,747  
Project Period: 7/1/04-6/30/07

Principal Investigator(s): Thomas Turner  
Sponsor: NSF  
Amount: $499,998 and $6,000 REU  
Title: CAREER: Museum-based Approaches to Ecology and Evolution of Aquatic Species: An Integrated Research and Education Program  
Project Period: 5/1/02-4/30/07

Principal Investigator(s): Thomas Turner  
Sponsor: Bureau of Reclamation  
Amount: $343,899  
Title: Conservation Genetics of the Rio Grande Silvery Minnow: Baseline Population Genetics of Wild Stocks  
Project Period: 6/26/02-9/30/05

Principal Investigator(s): Margaret Werner-Washburne  
Sponsor: National Institute of General Medical Sciences/NIH/DHHS  
Amount: $318,270  
Title: A Compendium of Gene Expression in Stationary Phase  
Project Period: 6/1/02-6/30/06

Principal Investigator(s): Margaret Werner-Washburne  
Sponsor: National Institute of General Medical Sciences/NIH/DHHS  
Amount: $130,500  
Title: A Compendium of Gene Expression in Stationary Phase: Supplement for Underrepresented Minorities  
Project Period: 3/1/04-6/30/06

Principal Investigator(s): Margaret Werner-Washburne  
Sponsor: National Institute of General Medical Sciences/NIH/DHHS  
Amount: $522,067  
Title: Initiative for Minority Student Development  
Project Period: 8/1/04-6/30/05

Principal Investigator(s): Terry Yates  
Sponsor: Centers for Disease Control and Prevention/DHHS  
Amount: $302,633  
Title: Longitudinal Studies of Rodent Reservoirs of Hantaviruses in the Southwestern United States  
Project Period: 4/14/04-8/31/05
PEER REVIEWED PUBLICATIONS WHICH UTILIZED THE FACILITY


APPENDIX G

RESPONSE TO
“PLANNING FOR SUCCESS,
EXCELLENCE AND DISTINCTION,
COLLEGE OF ARTS & SCIENCES:
SUCCESS
Department of Biology Response to
"Planning for Success, Excellence and Distinction,
College of Arts and Sciences"

Success

December, 2004

The Department of Biology recently has instituted a new four-semester core curriculum for undergraduate majors. At this point we are half-way through the transition period—course #3 of the old curriculum (Biol. 219) is being taught for the last time and course #3 of the new curriculum (Biol. 203) will be taught for the first time in Spring 2005. For the last several years the development and implementation of this new curriculum has been a major focus of our department's thinking about how to improve student success. Thus, our response to the SEED initiative is focused on ideas to develop and evaluate this new curriculum.

New Undergraduate Core Curriculum for Biology Majors

We have two primary goals concerning this curriculum. First, we want to increase our success in getting prospective majors into the newly designed, streamlined curriculum and in retaining them once they have enrolled. Doing this would result in most students taking the first biology course (Biol. 201) and the co-requisite chemistry course (Chem. 121) during their freshman year. This would give them a good start on the major and provide maximum opportunity to schedule the most interesting and appropriate electives when they become upperclassmen. It is better to have good advising and curriculum-checking procedures in order to prevent or discourage unqualified students from registering than to have students perform poorly, withdraw or fail. Second, we want to have a standardized quantitative means to evaluate our success in teaching good learning skills and imparting basic knowledge. This will allow us to monitor our own performance over time, to set and evaluate goals for improvement, and to measure our success against national standards.

To pursue these goals we offer four specific suggestions and one future challenge.

1. **Advising and Pre-Requisite Enforcement.** Success in beginning biology courses is closely tied to having students academically ready for the material that is being offered. We have put certain prerequisites on the entire core and numbered the courses in the 200s. The first two courses (Biol. 201 and 202) have chemistry pre-/co-requisites, and the second two (Biol. 203 and 204) have math pre-/co-requisites. Unfortunately, our registration process does not check for pre-requisites. In a hand-done assessment of all students in the #3 course of our old curriculum, we found that ~40% of the students were missing at least one of the prerequisites. It would be disastrous to allow this to happen with the new core curriculum. Because of this fear, we now take a considerable amount of student time and staff time during the first two weeks of each course checking prerequisites. We require students to bring in a transcript and then check each student record to assure that prerequisites have been met. It should not have to be done this way.
We are asking the Dean’s office to use their powers of persuasion and intimidation to force our registration office into a computer-based method of checking prerequisites before allowing enrollment. A particular bottleneck comes with transfer students, but these transcripts could also be evaluated electronically, greatly speeding the entire process and thus avoiding the need for hand-checking the transcript of every student.

In addition, we note that the position of our advising coordinator remains precarious. Although this position is now funded 50% by I&G (a great improvement from 0% of a few years ago), this person continues to work 90% for the undergraduates of the Department of Biology. The remaining 50% of her salary is paid by two programs (MARC and IGERT) whose funding ends in summer 2005. There is no guarantee that these programs will be renewed, yet the role of the advising coordinator is more essential than ever. The Department of Biology has made a major commitment to the advising process. There are now seven active advisors in Biology (the Advising Coordinator and six faculty members), making the service readily accessible to students. This progress would be severely jeopardized if the Advising Coordinator position dropped to 50% FTE. We request net new funds to move the advisor to 1.0 FTE on I&G funds.

2. Team-Based Learning. The first two courses of the new curriculum, Biol. 201 (Cell Biology) and Biol. 202 (Genetics), have discussion sections, but do not have full laboratories. The discussion sections are our opportunity to guide students toward good learning habits. As such, they are the time and place for implementation of certain aspects of team-based learning. By this we mean instituting unique types of learning and testing which put greater responsibility for learning on the students. They will learn how to work with one another, to answer their own questions, and to teach each other. Aspects of this thinking are already in place in Biol. 201, and will be further developed and expanded to Biol. 202. Modern types of technology are going to be available (such as “clickers” and the technology to use them provided by the textbook publisher). However, these discussion sections need to have dedicated rooms in which to meet and these rooms must have: 1) movable desks and chairs, 2) a dedicated projector and internet access, and 3) a large screen. It remains a high priority for us to upgrade and renovate our existing space to accommodate our undergraduate students’ needs, so continuing attempts to secure renovation funds for teaching purposes are critical.

3. There Is No National Undergraduate Board to Examine or Certify Biologists. However, we want to have an evaluation process that will inform both students and faculty concerning student achievement. We propose doing this in one of two ways. The preferable procedure would require all biology majors to take the Biology Subject Test of the Graduate Record Exam at the conclusion of Core Course #4. This exam is divided into three sections (Cellular and Molecular Biology, Organismal Biology, and Ecology and Evolution). Each section is worth about ⅓ of the exam, just as each area will comprise about ⅓ of our new core curriculum. Using the GRE would give us the ability to compare the performance of our students with national standards over a period of years. Because the test is divided into sections, it will give us information about which aspects of our curriculum are most successful and which ones need more work. An added benefit of having students take this exam is that it will put the idea of graduate school clearly in front of all students and, for some, encourage them in that direction.
- Asking students to take the exam as sophomores or juniors means that the scores will certainly be lower than if it was taken at the usual time (a year before graduation). However, the scores would not be reported to prospective graduate schools and students who wish to do so could take the exam again. The downside of this proposal is that it could be quite expensive (individuals taking the GRE must pay $130).

An alternative, but less desirable, proposal would be to develop our own unique test from materials available in the textbook, or even work with the textbook manufacturers to refine such an exam. This would require the investment of substantial time in order to develop the exam, administer it, and score it. The cost, in terms of money and faculty and staff time, of doing this would likely be comparable to the cost of the GRE. It would have the additional disadvantage of not allowing comparison with national norms on a widely used standardized test. Regardless of which alternative is ultimately used, we feel that it is necessary to establish some standardized, repeatable process to evaluate the strengths and weaknesses of our core teaching.

4. Laboratory Equipment. In revising our four-semester core curriculum for majors, we are instituting inquiry-based laboratory exercises, in which the students develop and test their own hypotheses. This causes the need for appropriate equipment, which is especially a problem in physiology parts of the core curriculum. We are concerned about the expense of purchasing equipment for the laboratory planned for Biol. 204. It is anticipated that this course will provide a first-rate laboratory experience for all students, which means they must have the opportunity to gather data using research-grade laboratory equipment. Although proposals are being submitted to support this laboratory, we wish to make a simple budget request immediately. Because of the transition from old core (labs in courses #1 and #2) to the new core (labs in courses #3 and #4), we have had two semesters with fewer laboratory sections than usual. We are requesting permission to re-budget the underutilized money allocated to TA salaries into the equipment category, in order to purchase equipment for Biol. 204. The anticipated amount this would make available for equipment is about $50,000. This is a one-time request.

5. Future Challenge. The National Academies have recently completed a huge analysis of undergraduate education in biology in the USA called “Bio2010: Transforming Undergraduate Education for Future Research Biologists.” This document concludes with eight recommendations that provide a vibrant guide to developing undergraduate education in biology. Positively, many of these are already being implemented at UNM. However, one of the most pervasive words in these recommendations is “interdisciplinary teaching” with phrases such as “Faculty in biology, mathematics, and physical sciences must work collaboratively to find ways of integrating mathematics and physical sciences into life science courses, as well as providing avenues for incorporating life science examples that reflect the emerging nature of the discipline into courses taught in mathematics and physical sciences.” There is also the warning that successful interdisciplinary teaching will require new materials and approaches, will be time-consuming and difficult, and will require serious financial support. Although we have not specifically addressed this in the current document, we recognize that successful integration of biology, math and physical sciences education is an important goal for all of us. We have already taken a significant step by requiring chemistry and math as pre-/co-requisites for the new core curriculum for majors. Our faculty are also working with faculty in Mathematics to develop joint NSF proposals (UBM
program) that, if funded, will create new courses and integrate math and biology at the under-
graduate level. Initiatives to accomplish genuine integration are perhaps best undertaken at the level of the Dean.
APPENDIX H

RESPONSE TO

"PLANNING FOR SUCCESS,
EXCELLENCE AND DISTINCTION,
COLLEGE OF ARTS & SCIENCES:
EXCELLENCE
Overview: After expending considerable effort and resources towards meeting the ever-increasing demands imposed on our non-majors introductory courses, we agree with the general point made in the Dean's document on planning for success, excellence and distinction—we need to take a hard look at our undergraduate majors and that “the time has come for us to . . . create excellence in undergraduate education.” Many of the recent requests for financial assistance coming from the Biology Department have sounded this very call. Lest we lapse into becoming a mere glorified community college, we need to apply more resources to the education of our majors. Below we provide a brief summary of what Biology has done to promote excellence in education for our majors, followed by a tangible list of needs to continue to improve our program. The central philosophy guiding our efforts is that it is imperative to provide our majors the opportunity to obtain a hands-on learning experience in their study of life, whether it be in the laboratory or field. Among the list of needs are: (1) to continue the drum beat for improved space in which to offer sophisticated laboratory teaching to our majors; (2) to continue to support and encourage field courses and lab research opportunities that often provide the most formative undergraduate experiences; (3) to, for the first time in the department’s history, provide adequate support staff and equipment budgets to permit excellence in our undergraduate courses to be achieved and sustained; (4) to encourage small course sizes at the 300 and 400 levels with adequate support to permit more laboratory courses at these levels; (5) to provide professional, full-time advising to our students; and to provide a sustainable mechanism to gauge what our students have learned, where they go, and how they eventually fare; and (6) to raise UNM admissions standards to increase the likelihood of eventual success of students entering our programs. In addition, we are considering a possible change in our degree requirements such that majors have to take more hands-on courses.

A General Overview of Our Majors Program—What We Are Already Doing

The biological sciences continue to attract considerable attention from our undergraduates as a compelling subject for study (~1,100 majors at last count). Although assured by UNM’s president a decade ago that student interest in biology was “just a bubble,” we are convinced that the bubble is going to continue to grow, and that UNM needs to take tangible steps to plan for this, or risk being hopelessly outstripped by other universities, including in the southwest, who have acknowledged that biology is a growth industry. A degree in biology is perceived by many students to be the logical entrance point into careers in medicine and health sciences, environmental science, and biotechnology, all areas with considerable future job/earnings potential. We also prefer to think that some of the interest in biology stems from the students themselves—the word is passed that the Biology Department offers students a solid education and provides unique hands-on opportunities and real-life experiences. Below are listed some of the things we have done to support our majors.
A Recently-Reconfigured Core Curriculum: We are now nearing the final stages of transition from our previous set of four core courses (Biol. 121, 122, 219 and 221) to a new four-course sequence (Biol. 201, 202, 203 and 204). The underlying reasons for this overhaul were many. The old core reflected several historical contingencies resulting in some subjects being taught more than once, and others not at all. The new core provides a broad overview of the entire spectrum of modern biology, one that we feel will better equip students to do well on standardized exams like the GRE and to gain entrance into professional schools. The new core also takes into account our majors' needs for mathematics and chemistry, and these courses are integrated into our new core as co- or pre-reqs. This helps ensure that students take the required core courses in order. Also, the new core represents a re-allocation of resources such that less effort is dissipated in the first year of the core on expensive lab courses for which students are not ready, and that we were hard-pressed to afford. We have not sacrificed all sense of intimacy in the first-year core curriculum, however, because small discussion sections are a vital part of Biol. 201 and 202. A strong emphasis is placed on developing high-powered laboratories for students in the third and fourth courses of the core. The smaller number of students at this level have a much better knowledge base by this point. The labs to be offered will emphasize innovative learning techniques, state-of-the-art equipment and are designed to go well-beyond the low-tech, shoe-string approach of majors' labs in the old core. Another deliberate part of our strategy with the new core was to divert some of the massive effort required of our teaching assistants in courses like 121 and 122, so instead it could be applied to upper-level undergraduate courses. Many of the upper-level courses have large enrollments, and the faculty involved are in urgent need of assistance.

Providing Real Research Experiences for Our Majors: Biology is intrinsically fascinating and the best way to convey this to students is to expose them directly to the study of life, often with as few intermediaries as possible. We have done this successfully in two ways. The first is by offering courses that feature field components and that require students to engage in a close encounter with the natural world, whether here in New Mexico or beyond. The second is the mechanism whereby we offer our best students the opportunity to work side-by-side with faculty, post-docs and graduate students on research projects. This opportunity has been largely funded through resources that are supplied by the research grants of individual faculty, but also from college and departmental resources. Participation can take many forms and almost always results in a positive experience for the students. Even those students engaged as work-study helpers gain the opportunity of seeing how a real lab operates, and get to rub shoulders on a daily basis with the bright scholars populating our labs. Other students participate directly in honors research projects under the supervision of a faculty member. Many of these experiences culminate in publications bearing the student's name, or prove to be the critical experience that shapes fundamental decision-making about long-term career plans. Although the number of students getting first-hand lab experiences is hard to quantify, we estimate it to be about 40% of our majors. We have also established the tradition, now emulated across campus, of featuring the research activities of our undergraduate and graduate students during our annual Research Day.
What We Need to Do to Improve Our Majors Program

1. Acquire Better Space: The biggest constraint that Biology faces, as has been repeated ad nauseam, is better space for all of our activities, including serving our majors. There is one modern teaching laboratory in all of Castetter Hall, our new microbiology teaching facility in the basement, and this would not be there had it not been leveraged from grant funds. We are now in the precarious position of having to offer other upper-level labs in the same room. Given that our non-majors and majors micro courses alone essentially occupy this room full-time (now including Saturdays), we are literally at our limit. Ironically, just down the hall from our micro lab sits an enormous 4,000 square foot space—the abandoned mammal museum—awaiting conversion into teaching labs. However, before this space can be used, we must first upgrade the core infrastructure of the building (new heating, cooling, air exchange, fire suppression systems, new entrances/exits, new corridors, new restrooms) before it is safe to direct students to new labs in the basement. As part of the same need, the four intro teaching labs on the first floor that serve both non-majors and majors courses have not been substantially renovated since first constructed in 1952. In their present form, they are simply inadequate (too small, too primitive) and make it very hard for UNM to convey any convincing image of prosperity, or concern for students. We need new rooms for offering the labs associated with both Biol. 203 and 204 that are just now coming on-line and that in the near future will become more urgent concerns. Biology is gratified that our space needs are now front-burner issues for the university as a whole, and we anxiously await the translation of need into meaningful action.

2a. Support for Field Courses and Lab Research Experiences: As noted above, this is one of the things we do best, but our continued success can not be taken for granted, and there is room for improvement. It would be ideal to have a half-time staff member (not our advisor) to facilitate such experiences for our many students. This person could help with field-trip logistics. They could also line up individual in-house research experiences, but would also assist in finding opportunities for our students (many of whom come from fairly provincial N.M. backgrounds) in summer or other kinds of courses outside of New Mexico, including international. This person could also assist in getting students into and through our honors program (this program now handled exclusively by faculty) and could spend the other half of their time in assessment activities (see below).

Also, it is noted that modern geometry textbooks are now using the Biology Department's long-term materials and services budget as the new gold standard for the definition of "flat." If we are to offer outstanding learning experiences (e.g., field trips with vehicle/camping expenses, labs with expensive molecular techniques), the materials and services budgets have to increase. An annual crisis mode seems to pervade the funding of our department—often brought on by the need to accommodate non-majors demands—that has a way of diverting funds from our permanent operating budget. This has had the direct effect of forcing us to increase course fees to provide even a basic lab experience. Without meaningful long-term increases in our operating budgets, the course fee trend will continue. There is a concern that
this will eventually create a backlash at all levels, from the department to the college to the state.

2b. The Need for Assessment: One aspect of undergraduate education we have been unable to achieve here in Biology, mostly because there have been other pressing needs, is a system to monitor what our students are learning. This would be particularly useful for our new core curriculum. Are the students learning what we are expecting, are our expectations adequate, what is the student response to the core and other courses, how can we improve what we offer, etc.? Furthermore, where do our students go after graduation, how can we keep track of them, how are they doing, and how can we get them to assist us in future? All of these questions could be answered by a person working half-time in this capacity. As noted in 2a, the other half of the duties for this person could be in lining up research experiences for our students.

3. Provide Adequate Support Staff and Equipment Budgets: As noted in the recent April 27 memo from the Department to the College, assuming net new funds were to become available, our highest priority is to hire a lab coordinator/prepper to assist both in the emerging 203 and 204 labs, but also in upper-level, technique-rich courses such as physiology. The presence of such a person would provide much-needed assistance for Cara Lee Council-Garcia, who this fall will be overseeing approximately 60 lab sections, and Ivan Wang, our micro prepper (half-funded by cannibalizing our already beleaguered materials and services line), who is now looking at the prospect of Saturday labs to keep up with demand. Such a new person would be essential if we are to develop new upper-level cell/molecular lab courses, which are now, for the most part, conspicuously absent. The second priority listed on our April 27 wish list was a request for an amount of $110,420 to enable us to complete the purchase of the ~$200,000 needed to fully equip our new majors’ lab, Biol. 204. Much of this equipment will also be used in other 400-level courses as well. As you know, we have worked hard to find alternative sources of money to cover this request, and have, with your help, already found well over $50K for this purpose.

4. Encourage Small Course Sizes at the 300 and 400 Level: Given that we have so many majors, there is a tendency for even our 400-level classes to become very large (enrollments of ~100 are not uncommon). In the face of this pressure, we need to be sure that the offering of small upper-level courses (less than 20 students) continues to be allowed, encouraged and supported. The support may come in the form of a teaching assistant to assist in providing an intense and intimate learning experience for such small courses.

5. To Provide Full-time Professional Advising Services: With the number of students we have, we wish to reiterate our need for a full-time advisor. Again by cannibalizing our materials and services budget, we have already provided a half-time line for an advisor and, based on previous conversations, are optimistic that the other half of the line will be forthcoming from Arts and Sciences. Having a full-time advisor will greatly assist our majors by providing stability in this position and in having a person available at all times who really understands all of the advising rules and regulations. This will provide an excellent complement to the valuable advising carried out by both our faculty and the College.
To Raise Admissions Standards to Increase Our Efficiency and the Likelihood of Success of Our Students: We want to stand with our President and Provost, and to underscore the opinion expressed recently in the *Albuquerque Journal*, that the time has come to begin to increase in the university's admission standards. We note with some exasperation that it is not at all unusual for 30–40% of students in our introductory courses to either fail or bail out, whether it be a non-majors or majors course. Many of these students should not be admitted in the first place as they slow the pace of learning and further expose the university’s Achilles heel, our poor graduation rates. We argue that we ultimately do more harm to such students by admitting them, and then kicking them out, than if we did not admit them in the first place.

Finally, we are considering a change of degree requirements to require more hands-on courses. One topic that is being investigated now by our Undergraduate Policy Committee is whether our majors students are opting to avoid taking upper-level laboratory or field courses—there is no formal requirement for taking lab courses at this level, probably originating from the realization in times past that the department could not afford to offer such courses in the first place. If we conclude that students are deliberately avoiding such courses (lecture only courses are perceived to be easier and less hassle), we may consider changing our graduation requirements to make it less likely a student can avoid such a learning experience while in our program. Of course, this could not be done unless and until the facilities for teaching a large number of students in such courses become available.
APPENDIX I

RESPONSE TO
"PLANNING FOR SUCCESS,
EXCELLENCE AND DISTINCTION,
COLLEGE OF ARTS & SCIENCES:
DISTINCTION
Overview: The Biology Department has achieved distinction by many measures. We have three distinguished professors in our ranks, more than any other UNM department. We publish more papers in the two most prestigious scientific journals, Science and Nature, than any other academic unit in the state. In the interval 2000–2004, 24 of 66 articles from the State of New Mexico published in these two journals have come from the Biology Department. We have a healthy graduate program and more federal grant funding (about $8M per year, and a total of more than $47M) than any other department in Arts and Sciences, and we are home to several prestigious programs such as the IMSD, MARC, COBRE, LTER, LTER Network Office, SEEK, IGERT and EPSCoR. All of these precious, hard-won gains are fragile, however. Furthermore, given the unprecedented opportunities for biologists in the 21st century (genome revolution, large scale environmental problems and programs, biodefense, biotechnology), UNM should be doing even better in the biological sciences. Other surrounding states have responded to the immense growth potential of biology by constructing new programs and facilities and aggressively recruiting scores of new faculty. Biology, at least on the main campus, is constrained by poor buildings and heavy teaching demands. Although we have our own personal ambitions to strive for distinction, and we have a sympathetic and skillful dean who has helped within the limits of his own budget, there seems to be a lack of will in the university’s higher administration to move beyond what we perceive as a near zero-sum game in terms of our growth. Our individual departmental quest for distinction can only go so far without more visionary leadership from the highest levels of the university, and we feel as though we are stuck in our transition to a higher caliber research university. In 1985, we had 33 tenure-track faculty members. Today, we have 37. We agree with the general principle that UNM must choose carefully to develop distinction in certain key areas in which we can effectively compete, and it is unthinkable that some of these areas should not be within the broad area of biology. Below we outline our ideas for how to measure distinction, areas in which we can be strong, how to strengthen our claim to distinction, and how we may interface with distinguished programs elsewhere at UNM.

Metrics—how to Measure Distinction?

In Biology, there are several obvious metrics, all of which have their place, none of which alone perfectly captures the essence of distinction, and that vary somewhat from one sub-discipline to the other.

Faculty Publications: This remains one of the most valuable and direct indicators of a faculty member’s productivity, visibility and potential for distinction. Interpretation of publication records requires care, however, as the most desired position (first or last?) in an author stream may vary from one sub-discipline to another or upon the career stage of the faculty member. Sole-authored
Publications are the usual gold-standard, but with today’s emphasis on collaborative and multidisciplinary approaches, papers with complex author streams often involving scholars from around the world convey sophistication and visibility that can also bring us distinction. Another caveat for interpreting the publication record is the impact factor of the journals in which the work is being published, and although there has been a growing trend in recent years to go for high-impact journals, this is tricky because innovative work can appear in low-impact journals and the factors governing appearance of papers in the highest impact journals can be capricious.

Grants: The review process for grant proposals is often far more rigorous than peer review of publications. Although one can always submit a rejected manuscript to another journal, there are only so many funding agencies out there, and they often employ a very sophisticated, critical cadre of reviewers to judge the proposed work. So, the ability of faculty members to obtain major extramural funding for their work is an important indicator of their status in their field and an indicator of distinction. Word of who has written impressive grant proposals and has a track record for funding ripples through professional circles, and is itself a mark of distinction. Funding also brings with it the possibility of growing programs through means other than state-provided funding and thus creates opportunities for developing distinction. Success in obtaining grants can not be the only measure of distinction, however. Review panels may select against the most innovative work, and some scholars pursue important study topics that simply do not attract the interest of funding agencies.

Citations: The number of times a scholar’s work is cited provides an important measure of their impact in the intellectual community. Often the more basic and far-reaching the contribution, the larger the number of citations. It is a parameter easily measured, but again caution is required. Often the work in some outlets like book chapters is not measured, the citations may be unfavorable, and some disciplines are larger than others so naturally attract more citations. Again, the most innovative work may be most prominently cited in the future when it is eventually appreciated.

Attraction and Placement of Graduate Students and Postdocs: Excellent graduate students are attracted to programs in which they are confident they will thrive, and enhance their chances for a professional career. It is often the graduate students, working in close association with faculty, who help us achieve distinction by publishing outstanding results from their graduate work. Assuming the finishing student wants to continue to pursue a professional career, where those students then go following their degree programs is another way to measure distinction.

The postdoctoral niche is one that by virtue of its very existence is an indicator of success, for it implies that funds have been successfully competed for to enable the postdoc to be here in the first place. From where do our postdocs come, what do they accomplish, and where do they go afterwards? Again, these are alternative measures of distinction.

Translating Science into Societal Impact: Yet another way to measure our impact is in the extent to which our work influences public policy or contributes to real-world problem solving. Some of the areas in which our contributions play such a role are water use and quality, endangered species management, ecohydrology, restoration ecology, sustainability of resources, control or prevention of infectious diseases, and defense from bioterrorism. Some measures of our impact here may be membership on advisory boards for state or federal agencies and review of government
agencies or management programs, involvement in production of publications or programs for public consumption, and evidence that our work is actually being used in management decisions, the treatment of patients, or in prevention or control of disease. Enumeration of students who find their way into local, state or federal government as policy makers and implementers is another measure of such impact.

What Is Our Current Standing in Them?

For many of these metrics, it is possible to readily provide numbers for our faculty. What is far trickier, however, is to come up with reliable ways of comparing them to the faculty at even our peer institutions. Rather than simply provide semi-reliable estimates of how we are doing relative to our peers, we suggest there be a concerted effort made by a professional evaluator to track developments (salary trends, building projects, strategies for developing distinction, development of new programs and hiring initiatives) across our peer institutions in the Rocky Mountains and southwest. It is unrealistic to expect our faculty to undertake this job and to do it right given their other duties.

For the area of ecology, evolution and behavior, the last NRC rankings (done in the mid-90s) had about 130 programs ranked, and UNM ranked about 50, Utah and Arizona 20-25, and Texas (Austin) at 10. Important correlates of strength in this area were size of faculty and number of citations.

What Are Realistic Goals for These Metrics?

A goal for the ecology, evolution and behavior program for the next NRC ranking is in the top 25 (80th percentile), and to still be there in 2015.

It is also a realistic strategy for us to identify a small number of more defined or focused areas of research strength, and to strive to be recognized as being among the very best programs in the world in such areas.

Where Are We Strong and Where Do We Hope to Be Strong?

We have historical strengths in ecology, evolution and behavior. Our three distinguished professors in this area are cited about 1,500 times per year and several other faculty are cited in the range of 50–100 times per year. An approach that has served us well for many years has been to have strength across a broad swath of these disciplines. Thus, we have strong visibility in several subdisciplines within these broad areas such as ecosystems ecology, behavioral ecology, physiological ecolog); phylogenetics, life history and breeding systems studies, community ecology ecological informatics and microbial ecology. Environmental issues, particularly related to water shortage and drought tolerance, will increasingly plague New Mexico, so our expertise in such areas is well placed and needs to be encouraged. Several of our faculty are involved in developing emerging national ecological networks, such as NEON. The Museum of Southwestern Biology, now in new quarters in the CERIA building, with an emphasis on biodiversity and collections-based studies provides a unique resource not easily matched in the southwest. Given the pervasive trends in habitat destruction and environmental degradation, it is important to use museum resources to counteract this
trend, to develop a record of what is being lost, and to develop innovative ways to use the collections. Within the area of cell/molecular biology, thanks in part to the support provided by the COBRE program, we have a growing recognition in comparative and evolutionary immunology. This is an example of the kind of area we should support because we can be competitive in such an area (in contrast to mainstream immunology where it would be extremely difficult to be competitive), and because our broad-based department with an emphasis on evolutionary studies provides a good setting for such a program. We also have considerable potential to form a cohesive group in the broad area of genomics, and this theme has been used to provide justification for a major building proposal submitted to the NIH. Another likely future area of strength is in the field of cell signaling. For both genomics and cell signaling, the challenge for us will be to develop a perspective that is different from the mainstream yet still sufficiently compelling to garner support and distinction. Discussions along these lines are currently underway among cell/molecular faculty. With respect to interdisciplinary studies, the following serve as logical foci of interest with scholars from other departments: ecohydrology and drought tolerance; scaling and modeling studies; and disease and disease resistance studies.

Our distinctiveness in some of the areas noted above clearly stems directly from the general biological environment in which UNM is found, one that is conducive to ecological studies in general. Some of the research institutions in our area such as the Santa Fe Institute, Los Alamos National Labs, and the Sandia National Labs also provide unique opportunities for collaborations and interdisciplinary studies. We also have several unique facilities with which to work, including the LTER site and field station at the Sevilleta, the LTER Network office, the Museum of Southwestern Biology, and the Biology Molecular Facility.

**How to Strengthen the Claim to Distinction?**

There are several basic things that need to be done. At some point we will not be taken seriously in attempting to recruit new faculty, students or programs without a significant upgrade and expansion of our buildings. This has now happened for the museum, but needs to be followed by improvements and expansions to Castetter Hall, or preferably construction of new buildings. We are now nearly out of space and without new space, it is hard to see how our program can continue to grow and thrive.

Salaries are always an issue. The salaries we are now offering our beginning assistant professors ($50K range) are falling significantly behind those of even lesser universities in the Rocky Mountain region. Also, salary trajectories often flatten out and fail to keep pace unless special circumstances are brought to bear, such as seeking other job offers. This is a disruptive influence, undercuts morale, and tempts other universities to steal our faculty because they know they have a good chance of succeeding. One of the best ways to promote development of mid-career and senior faculty is to pay them more. For some who are performing at an exceptional level, we need to recognize this and selectively give them lighter teaching loads, or allow more flexibility with respect to rearranging teaching to free up blocks of time. We need to review how merit increases are determined and determine if we want to deliberately weigh research more than teaching in this regard. We need to provide flexible retention mechanisms as a way to retain faculty. We need to encourage university sponsored symposia to bring in distinguished faculty and to get these people to interact with our
students and faculty. Additional staff support is needed to assist faculty in preparation of manuscripts and in handling what seems to be a burgeoning bureaucracy in grant fund accounting.

Also needed is decisive leadership at the highest levels of the university. A commitment has to be made to favor certain programs or all of our programs will languish and go nowhere. For example, as part of the process to select areas of marked distinction, our department has submitted several proposals. One notable example is a request for funds for an interdisciplinary “complexity” center, submitted by some of Biology’s best faculty and stellar faculty from other departments like Computer Science and Physics. Such a center would represent the ideal way for Biology to interface with other strong programs at UNM, and would be an effective retention tool for some of our best faculty. UNM needs to actively promote and develop such a center now. Also, many of our most productive and accomplished faculty will be retiring in the next five years. Instead of merely replacing these senior faculty with junior faculty on an ad hoc basis or from the standpoint of political or financial expediency, we need to have a sense of what is possible and where we are headed, and how we can best promote and grow distinction. It is very difficult for us to do this without decisive input from the higher administration.

The Graduate Program

Graduate students are the life blood of many of the research programs in our department. The number of graduate applications has declined in recent years, and in particular the cell/molecular programs do not attract enough applicants. Fortunately, although application numbers are down, a trend seen nationwide, we continue to recruit excellent students, and perceived strengths in our program are being able to provide five years of TA support and a reasonably good benefits package as compared to some institutions. However, we can not afford to be complacent and must take specific steps to improve our recruiting efforts. Before long, we will need to increase our stipends as well. It would be extremely helpful to be able to entice some of the very best applicants by offering them a “free ride” throughout their graduate career. Another thing that would be helpful is to improve our recruitment of minority and female students. With respect to minority programs, given their complexity and abundance, it would be helpful to have an effective “minority recruitment” official in the university coordinating all these efforts.

The Need for a High-level Review of Biology Across All of UNM?

Studies of biology will be a vital part of the mission of any research university in the 21st century. In addition to our department, there are many scientists at the medical school working in the area of basic biology, and other main campus departments such as Chemistry, Math and Computer Science also have faculty working on biological problems. Once again, there has been little leadership from on high to determine how these different groups might better work together, develop synergies, avoid overlaps and identify new areas of strength. Is it time to encourage a high-level study, one that cuts across Lomas, colleges and departments, one that involves the input of outside experts, to help us best configure ourselves for Biology in the 21st century?
APPENDIX J

CASTETTER HALL

RENOVATION BLUEPRINT,

CONCEPT G
APPENDIX K

FACULTY SCHOLARLY & PROFESSIONAL ACTIVITIES,
CY 2004
I. TEACHING.

A. Graduate Education.

1. Masters degrees awarded.

LOWREY, T.K.
Summer: STEVEN YANOFF, "Vegetation Change in a Northern Chihuahuan Desert Grassland."

MILLER, R.D.
Fall: ZULY E. PARRA, "Content and Diversity of the Duckbill Platypus T Cell Receptor Gamma Chain."

POCKMAN, W.T.

TURNER, T.F.
HEATHER PARMETER, "Environmental Correlates to Parasitism in Native Rio Grande Cutthroat Trout," Summer. Currently, research technician, Division of Fishes, Museum of Southwestern Biology, Department of Biology, The University of New Mexico, Albuquerque NM.


2. Doctors degrees awarded.

DAHM, C.N.

GOSZ, J.R.
Fall: YVONNE MCCLELLAN, "Plant and Environment Interactions: Uptake Rates of Thorium Progeny in a Semiarid Environment."
LOKER, E.S.

Fall: LYNN A. HERTEL, "Susceptibility and Resistance of Snails to Trematode Infection: Investigations into the Role of Hemolymph Components and Symbionts in the Snail Biomphalaria glabrata."

LOWREY, T.K.

Summer: PAULA HALL, "The Ecology and Evolution of Gynodioecy in Callirhoe (Malvaceae)."

MARSHALL, D.L.

Summer: PAULA HALL, "The Ecology and Evolution of Gynodioecy in Callirhoe (Malvaceae)."

NELSON, M.A.


THORNHILL, R.


TURNER, T.F.

Fall: ROBERT DUDLEY, "Ichthyofaunal Drift in Fragmented Rivers: Empirically-based Models and Conservation Implications." Currently, Research Scientist, American Southwest Ichthyological Research Foundation, Albuquerque NM.

WAGNER, A.

Spring: GAVIN CONANT, "Functional Divergence at the Molecular Level: Robustness, Asymmetry, and Convergence."

MICHAEL FULLER, "Chance, Determinism and Community Structure: An Assessment of Ecological Neutral Theory."

WOLF, B.O.


3. *Bona fide* graduate courses and number of students enrolled. Indicate new courses (for you) with an asterisk.

BARTON, L.L.

Spring: Biol. 502, ST/Agents of Bioterrorism, 3 students
       Biol. 551, Research Problems, 2 students
       Biol. 699, Dissertation, 1 student

Fall: Biol. 551, Research Problems, 1 student

K-2
BROWN, J.H.
Spring:  Biol. 503, Biocomplexity Seminar, 19 students
Fall:  Biol. 516, Basic Graduate Ecology, 18 students (co-taught with E.L. Charnov, R.L. Sinsabaugh and B.O. Wolf)

CADAVID, L.F.
Spring:  Bio. 502, ST(The Evolution of the Immune System, 2 students
Bio. 556, Immunology, 4 students

CHARNOV, E.L.
Spring:  Biol. 565, Sociobiology and Evolutionary Ecology, 2 students
Fall:  Biol. 516, Basic Graduate Ecology, 18 students (co-taught with 3 others)

COLLINS, S.L.
Spring:  *Biol. 502, ST/Ecosystem Dynamics, 2 students (co-taught and organized; officially Biol. 405/505 starting in Spring 2006)
Fall:  Biol. 514, Ecosystem Ecology, 8 students (co-taught)
*Biol. 502, ST/Ecological Genomics, 4 students (we have applied to make this course an official 3-hour offering in the fall of even years).

COOK, J.A.
Spring:  Biol. 502, ST/Advanced Field Methods in Tropical Mammalogy, 7 students

DAHM, C.N.
Fall:  Biol. 514, Ecosystem Studies, 8 students
Biol. 502, ST/Freshwater Sciences IGERT Seminar, 14 students
Spring:  Biol. 502, ST/Professional Ethics, 9 students
Biol. 502, ST/Freshwater Sciences IGERT Seminar, 12 students
Biol. 495, Limnology, 9 students
Biol. 496L, Limnology Lab, 6 students

GOSZ, J.R.
Spring:  Biol. 502, ST/Ecosystem Dynamics, 2 students (co-taught with S. Collins and R. Waide)
Biol. 551, Research Problems: Julie McIntire
Fall:  Relieved from teaching by the dean to focus on EPSCoR, LTER, NEON planning activities.

HANSON, D.T.
Spring:  *Biol. 502, ST/Topics in Plant Physiology, 3 students
Fall:  *Biol. 502, ST/Plant Stress Physiology, 2 students
Biol. 500, New Graduate Student Seminar
HOFKIN, B.V.
Spring: *Biol. 490, Biology of Infectious Organisms, 6 students

KODRICH-BROWN, A.
Spring: *Biol. 517, Basic Graduate Evolution (co-taught with A. Wagner and S. Poe), 12 students
Fall: Biol. 521, Advanced Behavioral Ecology, 7 students

LOKER, E.S.
Spring: Biol. 502-008, ST/Parasites and Hosts, 3 students
Biol. 551-017, Research Problems, 1 student
Biol. 699-016, Dissertation, 2 students
Fall: Biol. 502-003, ST/Parasites and Hosts, 3 students
Biol. 551-017, Research Problems, 1 student
Biol. 699-017, Dissertation, 2 students

LOWREY, T.K.
Fall: Biol. 502, ST/Systematics & Evolution, 1 student

MARSHALL, D.L.
Spring: Biol. 567, Evolutionary Plant Ecology, 3 students
Fall: Biol. 502, ST/Topics in Plant Ecology, 6 students

MILLER, R.D.
Spring: Teaching release because Associate Chair
Biol. 502, ST/Immunology Letters, 2 students
Fall: Biol. 556, Immunology, 5 students
Biol. 502, ST/Graduate Immunology (required discussion section for Biol. 556), 8 students
Biol. 502, ST/Immunology Letters, 2 students

MILNE, B.T.
Spring: Biol. 503, Biocomplexity, 19 students (The schedule may not show me as instructor, but I was instructing in place of Jim Brown.)
Biol. 576, Landscape Ecology, 8 students
Biol. 551-021, Research Problems, 1 student
Biol. 699-020, Dissertation, 2 students
Fall: Biol. 551-021, Research Problems, 1 student
Biol. 699-020, Dissertation, 2 students

MOLLES, M.C., JR.
Fall: *Biol. 585, Entomology, 8 students

NATVIG, D.O.
Spring: Biol. 502, ST/Advanced Fungal Genetics, 1 student (1 cr)

K-4
Biol. 502, ST/Biology of Fungi, 6 students (3 cr)

Fall:
*Bioi. 502, ST/Ecological Genomics, 5 students (2 cr)

NELSON, M.A.

Spring:
- Biol. 425, Molecular Genetics, 23 students
- *Bioi. 502, ST/Genomics and Proteomics, 2 students
- Biol. 400, Senior Honors Thesis, 2 students
- Biol. 499, Undergraduate Problems, 9 students
- Biol. 551, Research Problems, 1 student
- Biol. 699, Dissertation, 2 students

Summer:
- Biol. 499, Undergraduate Problems, 1 student
- Biol. 699, Dissertation, 1 student

Fall:
*Bioi. 502, ST/Archaeal Biology, 1 student
*Bioi. 502, ST/Eukaryotic Genome, 2 students
- Biol. 499, Undergraduate Problems, 5 students
- Biol. 551, Research Problems, 1 student
- Biol. 699, Dissertation, 1 student

POCKMAN, W.T.

Spring:
- Research Semester
- Biol. 551, Research Problems, 1 student
- Biol. 599, Master's Thesis, 2 students

Fall:
- Biol. 500, New Graduate Student Seminar, 21 (co-taught with S. Poe)
- Biol. 502, ST/Plant Stress Physiology, 2 students (co-taught with D. Hanson)
- Biol. 551, Research Problems, 3 students
- Biol. 599, Masters Thesis, 1 student

POE, S.

Fall:
- Biol. 536L, Phylogenetics, 12 students

SINSABAUGH, R.L.

Spring:
*Bioi. 502, ST/Biochemistry of Decomposition, 2 students, 3 credits
- Biol. 502, ST/Carbon Cycle, 1 students, 1 credit
- Biol. 551, Research Problems, 1 student, 5 credits

Fall:
- Biol. 516, Introduction to Ecology, 18 students, 4 credits (co-taught ¼ of this course)
- Biol. 502, ST/Soil Ecology, 4 students, 3 credits

SNELL, H.L.

Spring:
- Biol. 551, Research Problems, 2 student
- Biol. 699, Dissertation, 2 students

Fall:
- Biol. 551, Research Problems, 1 student
- Biol. 699, Dissertation, 2 students
STRICKER, S.A.
Summer: Zool. 536, Comparative Invertebrate Embryology, University of Washington, 15 students

THORNHILL, R.
Fall: Biol. 502, ST/Evolution of Female Sexuality, 12 students

TOOLSON, E.C.
Spring: Biol. 502-016, ST/Biology of Toxins, 4 students
Fall: Biol. 502-001, ST/Ecology Seminar, 2 students

TURNER, T.F.
Spring: Biol. 502, ST/Ecology and Evolutionary Ichthyology (EEI), 6 students

WAGNER, A.
Spring: Biol. 517, Graduate Evolution Core, 11 students (co-taught with S. Poe and A. Kodric-Brown)
Biol. 502, ST/Genome Biology, 2 students (co-taught with M.A. Nelson and M. Werner-Washburne)
Fall: On sabbatical

WAIDE, R.B.
Spring: Biol. 502, ST/Ecosystem Dynamics of North America, 2 students (co-taught with two other instructors)

WERNER-WASHBURNE, M.
Fall: Biol. 502, ST/Genomes and Genomic Analyses, 3 students (tw Biol. 544)
Biol. 544, Genomes and Genomic Analyses, 3 students (tw Biol. 502)

WOLF, B.O.
Spring: Research Semester

4. Your service on graduate student committees, not as chair, in semester oral exam was given.

BARTON, L.L.
Fall: Abebe Habtegabre, Ph.D. student, Department of Chemistry, UNM, October 29.

CADAVID, L.F.
April Wright, M.S. Student
Sergio Florez-Ramirez, Ph.D. student

K-6
Zuly Parra, Ph.D. student
Wade Wilson, Ph.D. Student

COLLINS, S.L.
Ph.D. committees:
Mike Fuller, Jake Goheen, Allen Hurtbert, Juliana Medeiros and Bryan Brandel (University of Colorado)

M.S. committees: Carolyn Dombrose (EPS, UNM) and Terri Koonz

Andrew MacDougall, University of British Columbia (external examiner)

CRIPPS, R.M.
Toni Smythe, Ph.D. Committee

DAHM, C.N.
Spring: Jennifer Edmonds (Nancy Grimn, advisor), Ph.D. Final Exam (Arizona State University)
Timothy Meehan (Blair O. Wolf, advisor), Comprehensive Exam & Ph.D. Final Exam
Allison Pease (Thomas F Turner, advisor), M.S. Final Exam
Ondrea Linderoth-Hummel (Manuel C. Molles, Jr., advisor), Comprehensive Exam
Maceo Carrillo Martinet (Clifford N. Dahm, advisor), Comprehensive Exam
Summer: Ron Amato (Laura Crosse, advisor), M.S. Final Exam
Hugo Magaña (Thomas F Turner, advisor), Comprehensive Exam
Fall: Lydia Zeglin (Clifford N. Dahm, advisor), Comprehensive Exam

GOSZ, J.R.
Joslyn Garcia

KODRICK-BROWN, A.
Fall: Cory Fincher

LOKER, E.S.
Fall: Ryan Schwarz

LOWREY, T.K.
Fall: Joanna Redfern, Ph.D. Comprehensive Exam, October

MARSHALL, D.L.
Summer: Anna Tyler, thesis defense
Fall: Sabra Sowell, MFA qualifying exam

K-7
MILLER, R.D.
Spring:  Annette Evangelisti (Wagner), Ph.D. comprehensive exam
         Ezra Schildkraut (Nickoloff, Micro. & Molec. Biol.), Dissertation Defense
Summer:  Dennis Chou (Forrest, Computer Science), Dissertation Defense
Fall:  Christie Warrander (Forrest, Computer Science), Dissertation Defense
       Lynn Hertel (Loker), Dissertation Defense
       Ryan Schwartz (Cadavid), Ph.D. comprehensive exam

MILNE, B.T.
Michael Fulsom, Ph.D. defense

MOLLES, M.C., JR.
Invited outside Ph.D. Examiner:
Ballinger, Andrea. Influence of Habitat Variability on Macroinvertebrate Biodiversity in
River Red Gum, Eucalyptus camaldulensis, Floodplain Forest. Monash University, Clayton,
Victoria, Australia, March.

NATVIG, D.O.
Spring:  Anthony Aragon, doctoral comprehensive exam.
         Gavin Conant, dissertation defense
         Richard Plunket, doctoral comprehensive exam
Summer:  Jennifer Elwell, masters thesis defense
         Kelly Howe, dissertation defense

NELSON, M.A.
Summer:  Jennifer Elwell, Master's defense.

POCKMAN, W.T.
Joanna Redfern, Ph.D, (Lowrey), preliminary exams, Fall

POE, S.
Fall:  Joanna Redfern, oral exams

TAKACS–VESBACH, C.
Spring:  Maceo Martinet
Fall:  Lydia Zeglin

THORNHILL, R.
Spring:  Laura Dane, UNM Psychology Department, Ph.D. oral exam.

TURNER, T.F.
Joanna Redfern (T.K. Lowrey)
Horacio Samaniego (B.T. Milne)
Lyman Persico (G.A.Meyer, Earth & Planetary Sciences, UNM)

K-8
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.

RICK SHERWIN, Ph.D, post-doctoral fellow, received an Assistant Professor position at Christopher Newport University, Newport News, VA.

PAUL CRYAN, Ph.D., received a position with the U.S. Geological Services branch office in Ft. Collins, CO.

BROWN, J.H.

Publications:

JAMIE GILLOOLY, Post-doctoral Fellow:


Talks, Presentations, Posters, Service, National Workshops and Symposia Organized or Attended:


Food Web Ecology. 2004. Workshop (chair: Mercedes Pasqual), Santa Fe Institute, Santa Fe NM.

Invited Presentations at National Meetings/Universities:

Gillooly, J.E 2004. The Role of Energetics in Food Web Dynamics. Workshop: From Structure to Dynamics in Complex Ecological Networks. Santa Fe Institute, Santa Fe NM.

Gillooly, J.E 2004. Linking Biological Currencies: From Genes to Ecosystems. Biology Department, Syracuse University, Syracuse NY.

Gillooly, J.E 2004. Linking Energy, Materials and Information: Keys to Unifying Biological Disciplines. Biology Department, McGill University, Montreal, Quebec, Canada.

Gillooly, J.E 2004. The Central Role of Metabolism in Aquatic Ecosystems. Biology Department, University of Nevada, Reno NV.


CRAIG R. MCCLAIN, Post-doctoral Fellow:

Publications:


Talks, Presentations, Posters, Service, National Workshops and Symposia Organized or Attended:


On board of the Japanese research vessel *Unminka-Maru*. The cruise sampled with box core and multiple core for the Kaplan Project, which is addressing species ranges and gene flow across the equatorial Pacific, Feb 14-21.
TIMOTHY MEEHAN, Postdoctoral Fellow:

Publications:


Talks, Presentations, Posters, and Service:
Initiated a research project with Dr. Blair O. Wolf, Assistant Professor of Biology, UNM, to elucidate the link between metabolic rate and isotopic turnover in ectotherms.

Accepted position of Assistant Professor at the College of Santa Fe in Santa Fe NM.

KRISTINA ANDERSON, graduate student:

Awards:
2004 NSF Graduate Research Fellowship Honorable Mention.

Foreign Travel:
Field research on succession in rock pools, Jamaica, June.

Publications:

Talks, Presentations, Posters, and Service:


ALISON BOYER:

Awards:
Summer Fellow at the Santa Fe Institute Complex Systems Summer School, Santa Fe NM.

Talks, Presentations, Posters, and Service:

**JASON BRAGG:**

**Awards:**
Los Alamos National Laboratories Fellowship  
Biocomplexity

**Publications:**


**Talks, Presentations, Posters, and Service:**

**ANNA DAVIDSON:**

**Publications:**


**Talks, Presentations, Posters, and Service:**

**JACOB R. GOHEEN:**

**Awards:**
Short-term Fellowship, Smithsonian Tropical Research Institution, $4,000.  
STAR Fellowship, U.S. Environmental Protection Agency, $75,000 over three years.  
Shadle Fellowship, American Society of Mammalogists, $4,500.  
Grove Summer Scholarship, Department of Biology, UNM, $2,600.
Foreign Travel:
Traveled to Kenya for field research, March 7–August 31.

Publications:


Talks, Presentations, Posters, and Service:

**ALLEN HURLBERT:**

Awards:
Summer Grove Scholarship, UNM, $2,500.

Publications:

Talks, Presentations, Posters, and Service:
Linking species-area and species-energy relationships with *Drosophila* microcosms, Ecological Society of America, Portland OR, July.


**MELANIE MOSES:**

Awards:

Talks, Presentations, Posters, and Service:

**KATHERINE THIBAULT:**

Publications:

Talks, Presentations, Posters, and Service:


COOK, J.A.

A variety of smaller grants (<$2,500) from the American Society of Mammalogists, Sigma Xi, etc.

COLLINS, S.L.

Selena Baez represented Ecuador in the Annual Meeting of the International LTER, Brazil, September.

DAHM, C.N.

Chelsea Crenshaw received an U.S. Forest Service joint venture agreement for $15,310 to support her Ph.D. research.

Maceo Carrillo Martinet received a $5,000 award from the N.M. Water Resources Research Institute to support his Ph.D. research.

KODRICH-BROWN, A.

ANDREW EDELMAN:

Research travel grant, UNM

LISA SCHWANZ:

Presentations:
American Society of Mammalogists Annual Meeting, Arcata CA, June 12-16.


"Annual Activity and Reproductive Patterns in Mexican Ground Squirrels (Spermophilus mexicanus)," Annual Research Day, Department of Biology, UNM, April.

Grants:
Travel grant from American Society of Mammalogists

DANIELLA SWENTON:

"Coexistence Between Two Species of Gambusia," Share with Wildlife, N.M. Game and Fish grant, $12,000.

K-14
CYNTHIA TECH:

Oral Presentations:


Grants:
Grove Summer Scholarship; Animal Behavior Society Grant

LOWREY, T.K.

LAURA BOYKIN:

Graduate Research Development Fellowship (GRD), Graduate and Professional Student Organization (GPSA), UNM, Winter 2004-2005

Student Research Allocations Committee (SRAC), GPSA, UNM, Fall

Graduate Research Allocations Committee (GRAC), Biology Department, UNM, Fall

Currently employed as a USDA Postdoctoral Research Investigator

MARSHALL, D.L.

HEATHER SIMPSON:

GRD grant
Presentation to the Guild of Rocky Mountain Population Biologists Annual Meeting, Boulder CO, September.

TERRI KOONTZ:

Presentation to the Guild of Rocky Mountain Population Biologists Annual Meeting, Boulder CO, September.

MILLER, R.D.

SERGIO FLORES-RAMIREZ:

Elected Director of Mexico’s National Committee for Recuperation and Conservation of Small Cetaceans.
ZULY E. PARRA:

Awarded a Travel Assistance Award, $1,000 CAD, to attend and present a paper at the 12th International Congress of Immunology, Montreal, July 2004.

MILNE, B.T.

HORACIO SAMANIEGO:

"Junior Fellow of the Consortium of the Americas for Interdisciplinary Science," $4,000.

Participated in Annual Meeting of Biological Society of Chile, Pucon, Chile, November 23-26.

Estuko Nonaka, Teaching Assistant Participation in ITARC.

MELANIE MOSES has been supported by a Ford Foundation grant for graduate students.

NATVIG, D.O.

Summer: JOSLYN GARCIA, successful completion of doctoral comprehensive exam

SINSABAUGH, R.L.

MARCY GALLO:

IGERT Fellowship, $40,000
SSSA Clarke Scholarship $2,000
Sevilleta LTER Summer Fellowship, $3,000

CHRIS LAUBER:

Sevilleta LTER Summer Fellowship, $3,000

SNELL, H.L.

TOMAS GIERMAKOWSKI:


Giermakowski J.T. 2004. Spatial mapping the growth potential of juvenile Galápagos tortoises (Geochelone nigrita) via remotely sensed imagery. Invited speaker, Roger Conant Memorial Symposium, The University of New Mexico, Albuquerque NM.


HEATHER L. BATEMAN:


R. BRAND PHILLIPS:

Community Service tutoring Spanish speakers in biology and natural sciences for GED. Work conducted through Catholic Charities, Family Education Department.

TAKACS-VESBACH, C.

MICHAEL BOBB:

Student Travel Award, American Society of Limnology and Oceanography

TURNER, T.F.

ROBERT DUDLEY, Ph.D.:

Awarded a doctoral degree in Biology, Fall 2004

Currently employed as a research scientist at the American Southwestern Ichthyological Research Foundation, Albuquerque NM.

Member, Aquatic Technical Team of the Upper Rio Grande Basin Water Operations for U.S. Army Corps of Engineers

Consultant to Technical Committee, Rio Grande silvery minnow Recovery Team for U.S. Fish and Wildlife Service

Advisory Member, Middle Rio Grande Endangered Species Act Collaborative Program

Journal Referee:

River Research and Applications, (1)

Southwestern Naturalist (1)
Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, Etc.:


Government Research Reports:


MELANIE EDWARDS, Ph.D. candidate:

Currently employed as a senior scientist by the U.S. Fish and Wildlife Service, West Palm Beach FL.

THOMAS KENNEDY, Ph.D. student:

Awarded IGERT fellowship to support scholarly activities in freshwater biology.

HUGO MAGAÑA, Ph.D. candidate:

Passed comprehensive examination and advanced to candidacy.

Volunteer for USBR (Dr. Michael Porter), Rio Grande silvery minnow (RGSM) Egg drift study AMECA channel, Sandia Pueblo, New Mexico.

Volunteer for USBR (Dr. Michael Porter), RGSM Egg drift study Los Lunas floodplain, Los Lunas NM.

Attended North American Benthological Society annual meeting, Vancouver, B.C., Canada.

Recipient of UNM GRAC grant funding of $150.00.

K-18
GREGORY MOYER, Ph.D.:
Post-doctoral associate (2002–04)
Currently, Research Assistant Professor, Hatfield Coastal Marine Station, Oregon State University, Corvallis OR.

Publications:
2004


MEGAN OSBORNE, Ph.D.:
Post-doctoral associate (2002–present)

Invited Presentation:

Committee Service:
Service on the Rio Grande silvery minnow controlled propagation planning working group.

HEATHER PARMETER, M.S.:
Awarded a master's degree in Biology, Summer.
Currently employed by the Division of Fishes, Museum of Southwestern Biology, Department of Biology, UNM, Albuquerque NM.

ALLISON PEASE, M.S.:
Awarded a master's degree in Biology, Summer:
Currently employed by the World-Wildlife-Fund in Washington DC.
Beginning a Ph.D. program at the University of Georgia in Fall, 2005.

MAUREEN PETERS, M.S. student:
Joined the Turner laboratory in the Fall.

K-19
Began data collection on MHC variation in Gila trout, and endangered species.

WADE D. WILSON, Ph.D. candidate:

Co-president, Biology Graduate Student Association, UNM.

Passed comprehensive examination and advanced to candidacy.

Research Funding:
Awarded $320, Student Research Allocations Committee, UNM, Fall.

Awarded $120, Graduate Research Allocations Committee, UNM, Fall.

$3,000 pending, Graduate Research and Development, UNM.

Publications:

WAGNER, A.

GAVIN CONANT:


Post-doctoral fellowships:
With Prof. Peter E Stadler, University of Leipzig, funded by Bioinformatics Initiative of the Deutsche Forschungsgemeinschaft (DFG).

With Prof. Ken. Wolfe, Trinity College, funded by Science Foundation, Ireland.

ANNETTE EVANGELISTI:

2004–2005 Computational Science Graduate Fellowship from the Department of Energy, administered by the Krell Institute, $28,000.


MICHAEL FULLER:

“A Graph Theoretic Analysis of the Effects of Ontogeny and Allometry on the Structure of Tropical Tree Communities,” oral presentation, Annual Research Day, Department of Biology, The University of New Mexico, April 9. Awarded Second Place, Best Graduate Oral Presentation.

K-20
“Linking Local-Scale Interactions to Community Structure: A Graph Theoretic Approach,” presented to the Consortium of Americas for Interdisciplinary Science, The University of New Mexico, June.

“Species Association of Tropical Trees have Non-neutral Structure,” presented at the Annual Meeting of the Ecological Society of America, Portland OR, August.

Employment:
Postdoctoral Research Associate, The Institute for Environmental Modeling, Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville TN, October–present.

WERNER-WASHBURNE, M.
SUSHMITA ROY: Computer Science graduate student in my laboratory, 3rd prize, Annual Research Day, Department of Biology, UNM

ANTHONY ARAGON: platform presenter in the genomics section, Yeast Genetics and Molecular Biology meeting, Seattle WA, July.

CHRIS ALLEN, post-doc: awarded NIH post-doctoral fellowship for three years to work on quiescent cells and the G0 → G1 transition.

B. Undergraduate Education. *Bona fide* undergraduate courses taught each semester and number of students enrolled. Indicate new course (for you) with an asterisk.

ALLENBACH, J.S.
Spring: *Biol. 201, Cell Biology, 100 students*
Fall: Biol. 386L, General Vertebrate Zoology, 52 students

BARTON, L.L.
Spring: Biol. 402, ST/Agents of Bioterrorism, 15 students
Biol. 460, Microbial Physiology, 60 students
Biol. 499, Undergraduate Problems, 1 student
Summer: Biol. 499, Undergraduate Problems, 1 student
Fall: Biol. 351, General Microbiology, 78 students
Biol. 402, ST/Pathogenic Bacteria, 19 students
Biol. 499, Research Problems, 2 student

BROWN, J.H.
Spring: Biol. 494, Biogeography, 33 students

CADAVID, L.F.
Spring: Bio. 402, ST/The Evolution of the Immune System, 4 students
Biol. 456, Immunology, 81 students
Fall: *Biol. 202, Genetics, 37 students
CHARNOV, E.L.
Spring: Biol. 465, Sociobiology and Evolutionary Ecology, 14 students

COLLINS, S.L.
Spring: *Biol. 402, ST/Ecosystem Dynamics, 4 students (co-taught and organized; officially Biol. 405/505 starting in Spring 2006)
Fall: *Biol. 402, ST/Ecological Genomics, 4 students (we have applied to make this course an official 3-hour offering in the fall of even years).

COOK, J.A.
Fall: Biol. 489L, Mammalogy, 6 students

COUCH, L.
Spring: Biol. 239, Microbiology for Health Sciences, 2 sections, 75 students/section
Fall: Biol. 239, Microbiology for Health Sciences, 2 sections, 75 students/section

DAHM, C.N.
Spring: Biol. 495, Limnology, 13 students
Biol. 496L, Limnology Lab, 4 students

FRIDRICK, C.O.
Spring: Biol. 123, Biology for Health Related Sciences and Non-majors (lecture):
   Section 001, 147 students
   Section 130, 126 students
Summer: Biol. 123, Biology for Health Related Sciences and Non-majors (lecture):
   Section 001, 82 students
Fall: Biol. 123, Biology for Health Related Sciences and Non-majors (lecture):
   Section 001, 102 students
   Section 130, 92 students
   Section 13, 125 students
   Section 658, 22 students
   Section 660, 24 students

GOSZ, J.R.
Spring: Biol. 402, ST/Ecosystem Dynamics, 4 students (co-taught with S. Collins & R. Waide)

HANSON, D.T.
Spring: Biol. 478, Plant Physiology, 17 students
Fall: *Biol. 402, ST/Plant Biology Lab Development and Assessment, 5 students
   *Biol. 402, ST/Plant Stress Physiology, 1 student

HOFKIN, B.V.
Spring: *Biol. 201, Molecular and Cell Biology, 90 students, (co-taught with S. Altenbach)

K-22
Biol. 219, Principles of Cell Biology, 138 students
*Biol. 490, Biology of Infectious Organisms, 80 students

Summer:
Biol. 219, Principles of Cell Biology, 45 students

Fall:
Biol. 201, Molecular and Cell Biology, 219 students in two sections (co-taught with E.S. Loker)
Biol. 371L, Invertebrate Biology, 9 students

KODRIC-BROWN, A.

Spring: Biol. 455, Ethology: Animal Behavior, 37 students

LOKER, E.S.

Spring: Biol. 402-008, Parasites and Hosts, 1 student
Biol. 490-001, Biology of Infectious Organisms, 86 students (co-taught with Dr. Bruce Hofkin)

Taught the final quarter of each of these courses:
Fall: Biol. 201-001, Cell Biology, 90 students
Biol. 201-002, Cell Biology, 128 Students
Biol. 402-003, ST/Parasites and Hosts, 2 Students

LOWREY, T.K.

Spring: Biol. 461L, Introduction to Tropical Biology, 15 students
Fall: Biol. 463, Flora of New Mexico, 16 students

MARSHALL, D.L.

Spring: Biol. 467, Evolutionary Plant Ecology, 3 students
Fall: Biol. 360, General Botany, 12 students

MILLER, R.D.

Spring: Teaching release because Associate Chair
Biol. 402, ST/Immunology Letters, 2 students
Fall: Biol. 456, Immunology, 85 students

MILNE, B.T.

Spring: Biol. 122, Principles of Biology, about 300 students
Summer: Biol. 499-020, Undergraduate Problems, 1 student
Fall: Biol. 310-001, Principles of Ecology/Lab, 15 students
Biol. 699-020, Dissertation, 2 students

MOLLES, M.C., JR.

Fall: * Biol. 485, Entomology, 6 students

NATVIG, D.O.

Spring: Biol. 402, ST/Advanced Fungal Genetics, 1 student (1 cr)
* Biol. 402, ST/Biology of Fungi, 1 student (3 cr)

K-23
Fall: *Biology 402, ST/Ecological Genomics, 4 students (2cr)

NELSON, M.A.

Spring: Biol. 425, Molecular Genetics, 23 students
        *Biol. 402, ST/Genomics and Proteomics, 1 student
        *Biology 402, ST/Topics in Research, 9 students

POCKMAN, W.T.

Spring: Research Semester
        Biol. 400, Senior Honors Thesis, 1 student
Fall: Biol. 402, ST/Plant Stress Physiology, 1 student (co-taught with D. Hanson)
      Biol 402, ST/Plant Biology Lab Development, 1 student (co-taught with D. Hanson)

POE, S.

Spring: Biol. 122L, Principles of Biology, -150 students
Fall: Biol. 436L, Phylogenetics, 4 students

SINSABAUGH, R.L.

Spring: *Biol. 402, ST/Biochemistry of Decomposition, 2 students, 3 credits
        Biol. 402, ST/Carbon Cycle, 1 student, 1 credit
        Biol. 499, Undergraduate Problems, 3 students, 2 credits
Fall: Biol. 402, ST/Soil Ecology, 3 students, 3 credits

SNELL, H.L.

Spring: Relieved of teaching duties due to assignment to the Charles Darwin
        Foundation, Galápagos, Ecuador
        Biol. 499, Undergraduate Problems, 1 student
Fall: Biol. 488, Herpetology, 14 Students.

STRICKER, S.A.

Fall: Biol. 402, ST/Fertilization Biology, 3 students
      Biol. 416L, Histology, 40 students

SWAN, J.

Spring: Biol. 237, Human Anatomy and Physiology I, 226 students
        Biol. 238, Human Anatomy and Physiology II, 219
        Biol. 447, Prosection, 9 students
        Biol. 402, ST/Mentor in Anatomy, 6 students
Fall: Biol. 237, Human Anatomy and Physiology I, 289 students (two sections)
      Biol. 238, Human Anatomy and Physiology II, 282 students (two sections)
      Biol. 447, Prosection, 7 students
      Biol. 402, ST/Mentor in Anatomy, 4 students

K-24
TAKACS-VESBACH, C.
Spring: Biol. 451, Microbial Ecology, 22 students

THORNHILL, R.
Spring: Biol. 365, Evolution of Human Sexuality, 140 students
Fall: Biol. 300, Evolution, 65 students

TOOLSON, E.C.
Spring: Biol. 122L, Principles of Biology, 250 students (co-taught with S. Poe)
       Biol. 402-016, ST/Biology of Toxins, 24 students
Fall:  Biol. 435L, Animal Physiology, 36 students
       Biol. 402-001, ST/Ecology Seminar, 9 students
FLC (Freshman Learning Community) 611, Biology of Toxins, 23 students

TURNER, T.F.
Spring: Biol. 386L, General Vertebrate Zoology, 29 students
       Biol. 402, ST/Ecology and Evolutionary Ichthyology (EEI), 2 students

VOGEL, K.G.
Spring: On sabbatical
Fall:  Biol. 219, Principles of Cell Biology, 56 students (3 CR)
       Biol 429, Molecular Cell Biology, 48 students (3 CR)
       Biol 402-37, ST/Cell Biology Discussion, 9 students (1 CR)
       Biol 402, Undergraduate Research (MARC), 4 students (1 CR)

WAGNER, A.
Spring: Biol. 502, ST/Genome Biology, 2 students (co-taught with M.A. Nelson and M. Werner-Washburne)

WAIDE, R.B.
Spring: Biol. 402, ST/Ecosystem Dynamics of North America, 4 students (co-taught with two other instructors)

WERNER-WASHBURNE, M.
Fall:  † Biol. 402, ST/Genomes and Genomic Analyses, 1 student (tw Biol. 444)
       † Biol. 444, Genomes and Genomic Analyses, 15 students (tw Biol. 402)

† This was a complete modification of the course I taught before. This was a literature-based, not a computational course.

Biol. 402, ST/Biomedical Research, 1 student (Initiatives to Maximize Student Diversity [IMSD] Journal Club)
C. Teaching Awards.

TOOLSON, E.C.
Designated as one of three University College Faculty Fellows

TURNER, T.F.
"Enhancement of Natural History and Organismally-focused Biology Courses Through Digital Capture of Photographic Materials"; T.F Turner, PI, W.T. Pockman and B.O Wolf, Co-PIs; Teaching Allocations Award, UNM; $2,459.

D. Curriculum Development/Production of Teaching Materials.

ALTENBACH, J.S.
Spring: Developed the lecture portion of Biology 201 with Bruce Hofkin.

CADAVIAD, L.F.
Interactive website for the Biol. 456, Immunology, and Biol. 202, Genetics.

COLLINS, S.L.

COOK, J.A.
Developed PowerPoint presentations for all lectures in Biol. 489L, Mammalogy.
Developed a new Biol. 402/502 course, ST/Advanced Field Methods in Mammalogy, including 10 days of field experience in Panama.

COUNCIL–GARCIA, C.L.
Developed, wrote and published lab manual for Biology 112, Biology for Non-Majors.
Continued development of Biology 124L, Biology for Health-related Sciences and Non-majors.
Helped develop discussion sections for Biology 201, Cell Biology.
Helped develop discussion sections for Biology 202, Genetics.
Developed lab for Biology 203, Ecology and Evolution; lab manual in publication.
Helped develop lab for Biology 204, Plant and Animal Physiology.

CRIPPS, R.M.
Worked on development of Biol. 201–202 courses.
DAHM, C.N.
I coordinate the UNM component of the distance learning classes in the NSF IGERT-supported interinstitutional (Center for Freshwater Studies at the University of Alabama) and interdisciplinary Ph.D. program. Classes taught in 2004 were the Professional Ethics Seminar in the Spring (Biol. 502) and Climate Dynamics (Biol./EPS 547) in the Fall by Professor David Gutzler. I taught the Professional Ethics Seminar in the Spring of 2004. I also coordinated the one-credit seminar class for the Freshwater Sciences IGERT students in the Spring and Fall of 2004 (Biol. 502). Each semester we develop a new theme for the seminar and the seminar is driven largely by student input and efforts.

HANSON, D.T.
Fall:    Developed and tested inquiry-based plant labs for Biol. 204L through Plant Lab Development course, Biol. 402.

Spring: Lab development for Biol. 204L: Supervised Hilary Lease as a TA to trial new equipment with students in Biol. 478L, Plant Physiology.

Grant writing to acquire equipment for Biology 204 (NSF, UNM RAC).


HOFKIN, B.V.
Currently, I am writing a textbook. Early drafts of two chapters of this text were used as supplemental material for Biol. 490, Biology of Infectious Organisms, Spring.

KODRIC-BROWN, A.

LOKER, E.S.
Development of new lectures for Bio. 201, Molecular and Cell Biology, on cell signaling, a subject I've not taught before.

LOWREY, T.K.
MS PowerPoint®, web-accessible lectures for Biol. 461L, Introduction to Tropical Biology.

MILNE, B.T.
Member, Biol. 203 (Ecology and Evolution) transition group.

Lead professor in the effort to assemble a new lab manual for Biol. 203 (Ecology and Evolution) in collaboration with Sandy Ligon and Cara Lea Council-Garcia.

Wrote a special laboratory about allometry for the Biol. 203 (Ecology and Evolution) manual.

MOLLES, M.C., JR.
Developed a new course: Biol. 485/585, Entomology.
POCKMAN, W.T.
Fall: Biol. 402/502, ST/Plant Biology Lab Development, (co-taught with D. Hanson)

SINSABAUGH, R.L.
Developed lectures and presentations for Biol. 402/502, ST/Biochemistry of Decomposition.

SWAN, J.
Development of new online resources for Anatomy and Physiology: MS PowerPoint® presentations and new videos.

TURNER, T.F.
Continued to develop and maintain web pages for my major courses: Biol. 487L, Ichthyology; Biol. 386, General Vertebrate Zoology; and Biol. 502, ST/Molecular Ecology and Evolution.

Developed new MS PowerPoint® lecture series for Biol. 386, General Vertebrate Zoology.

WOLF, B.O.
We spent the fall semester developing labs for Biol. 204, Plant and Animal Form and Function, and writing grants to fund the laboratory.

E. Museum Curator, Advisor, Assistant Chair, EM Director, etc.

CHARNOV, E.L.
Spring & Fall: Graduate Advisor

COLLINS, S.L.
Director, Sevilleta Long Term Ecological Research (LTER) Program.

COOK, J.A.
Curator, Division of Mammals, Museum of Southwestern Biology (MSB).

Associate Curator, Division of Genomic Resources, MSB.

COUCH, L.
Coordinator for Culture/Media Prep Facility and Biol. 239 (Microbiology) laboratories.

COUNCIL–GARCIA, C.L.
Undergraduate Biology Advisor

CRIPPS, R.M.
Spring: Biology Advisor
HANSON, D.T.
Associate Herbarium Curator (Curator of Bryophytes), Museum of Southwestern Biology, Department of Biology, The University of New Mexico, March 2003–present.

HOFKIN, B.V.
Undergraduate advisement, including pre-veterinary advisement.

GOSZ, J.R.
Director, State of New Mexico EPSCoR Program.

LOKER, E.S.
Chairman, Department of Biology, UNM.

LOWREY, T.K.
Curator, Division of Herbarium, Museum of Southwestern Biology (MSB), Department of Biology, UNM
Sporadically Acting Director, Museum of Southwestern Biology.

MARSHALL, D.L.
Director, Curriculum Implementation for the Biology Department.
Undergraduate advisor

MILLER, R.D.
Associate Department Chair, Spring and Fall.
Co-Director, Center for Biomedical Research Excellence (COBRE) Center for Evolutionary and Theoretical Immunology.

MILNE, B.T.
Founding Director of the UNM Sustainability Program, which is housed in the University College (Peter White, Dean). This effort included the submission of two proposals—one to NSF and one to the N.M. Energy, Minerals, and Resources Department.

MOLLES, M.C., JR.
Director, Museum of Southwestern Biology.
Curator, Division of Arthropods, Museum of Southwestern Biology.

NATVIG, D.O.
Director, Sevilleta LTER Research Station, Department of Biology, UNM, June 2003–present.
NELSON, M.A.
Associate Chair, 2003–05


POE, S.
Associate curator, Division of Herpetology, Museum of Southwestern Biology.

SINSABAUGH, R.L.
Biology Dept Undergraduate Advisor.

SNELL, H.L.
Curator, Division of Amphibians and Reptiles, Museum of Southwestern Biology.

Director of Science Programs, Charles Darwin Foundation, Galápagos, Ecuador, January–August.

Coordinator, UNM–Charles Darwin Foundation Collaborative Program in Conservation Biology.

Charles Darwin Foundation Representative to the Galápagos National Park Strategic Plan Development Team, March–August.

STRICKER, S.A.
Director of the EM and Confocal Microscopy Facilities.

TOOLSON, E.C.
Associate Curator, Division of Arthropods, Museum of Southwestern Biology.

Undergraduate Academic Advisor.

TURNER, T.F.
Curator, Division of Fishes, Museum of Southwestern Biology, Department of Biology, UNM:
• New NSF–REU funding for teaching and student mentorship in museum-based science;
• Two new grant proposals for museum-based research;
• Participated in Phase II construction planning and completion.
• Provided teaching materials for Biol. 487L, Ichthyology; Biol. 386L, General Vertebrate Zoology; Biol. 324, Natural History of the Southwest;
• Research funding: $1.2 million dollars for ongoing projects focusing on fishes in the southwest;
• Increase visibility of collection worldwide by visiting and giving seminars in major natural history collections in Australia;
- Administration of the largest and fastest growing collection of its kind in the southwestern U.S.: nearly 55,000 catalogued lots and more than 2.5 million specimens focusing on freshwater fish diversity in the southwestern USA.

VOGEL, K.G.

Fall: Director, Minorities Access to Research Careers (MARC) Undergraduate research program.

F. Mentoring. Please list names of undergraduates (with or without Biol. 400 or 499 credit) or non-UNM students you mentored this year. Indicate the period of mentoring, program (if any), Honor's thesis, etc.

AL TENBACH, J.S.

Kellie Goudreau, Senior, mentorship in field survey techniques, Lake Valley NM.


BARTON, L.L.

- Gregory Church, a future applicant to medical school
- Danyelle Gamble, future graduate student
- Jaminelli Liwanag, an applicant to NIH and medical school
- Jonathan W. Young, an applicant to medical school

BROWN, J.H.

 Lease, Hilary:


CADAVID, L.F.

UNM Biology majors:

Spring: Lonika Majithia
Summer: Cheng-man Lun, Lonika Majithia, Tuhama Rihani
Mona Rezaei, June 2003–present
Fall: Laura Caragol, Kelly Fitzpatrick, Cheng-man Lun, Tuhama Rihani

COLLINS, S.L.

Summer: Renee Ziemann, Sevilleta LTER REU student.
COOK, J.A.
Kathryn (Katy) E. Moore, *Peromyscus* phylogeography, January–December.

Kristin A. Moore, *Peromyscus* identification using genetics, January–December.

Margo Dimas and Krista Ortega, Molecular Genetics Laboratory, December.

Six other undergraduate students working under my supervision in the Division of Mammals Collection, MSB.

CRIPPS, R.M.

Spring: Lynda Arguello (MARC), graduated cum laude; Jennifer Brower; Jennifer Ikle; Amanda Hodson
Summer: Jennifer Brower; Jennifer Ikle; Amanda Hodson, Damian Trujillo (MARC)
Fall: Jennifer Brower; Jennifer Ikle; Damian Trujillo (MARC)

DAHM, C.N.

Supervised Tiffany Shaw during 2004. Tiffany was supported from the NSF Undergraduate Mentorship in Environmental Biology (UMEB) program. Tiffany is majoring in Environmental Sciences. Tiffany presented her research at the Annual Meeting of the North American Benthological Society in Vancouver, B.C. in June 2004, and she was a PROFOUND award winner in Fall 2004 at the UNM undergraduate research symposium.

HANSON, D.T.

Fall: Christopher Erickson, independent research for Biol. 400, Senior Honors Thesis, Honors degree for Erickson conferred in December. Susan Sanchez Monzon, independent research, not for credit
Spring: Travis Diaz, independent research, not for credit Phillip Enriquez, independent research for Biol. 499, Undergraduate Problems Susan Sanchez Monzon, independent research, not for credit Camille Puronen, independent research, not for credit

HOFKIN, B.V.

Simon Livingstone: June 2003–May 2004, biology honors project. Although I was this student's advisor, as a lecturer, I had to officially be listed as the "reader" on this student's thesis. His work was presented at Annual Research Day, Department of Biology, UNM, April 9.

Maryn Eversole: Summer 2004–present. Ms. Eversole was a "Project PROFOUND" awardee in the Summer of 2004. In Fall 2004, she received a McNair grant and continues to work with me.

John Edwards: Biology 490 (Biology of Infectious Organisms) student. His research results were presented as a poster at Annual Research Day, Department of Biology, UNM, April 9.
Bo Trân: Student research volunteer, worked throughout 2004 academic year.

Melissa Smith: Student research volunteer, worked throughout 2004 academic year.

KODRIC–BROWN, A.
Liliana Sheely, Biol. 499, Undergraduate Problems

LOKER, E.S.
Steven Saenz, a Minority Access to Research Careers (MARC) student. Steven has presented his work at both the Joint Meeting of the American Society of Parasitologists and American Association of Veterinary Parasitologists in Philadelphia PA in July, and at the Annual Meeting of the Society for Advancement of Chicanos and Native Americans in Science (SACNAS), where he won the award for Best Immunology Poster.

LOWREY, T.K.
Jeffrey Lucero, Minority Access to Research Careers (MARC) student, January–August.

MARSHALL, D.L.
Spring: Kara Lopez, Biol. 499
Fall: Amanda Gonzales

MILLER, R.D.
Spring: Nicholas Card, Jon Olp, Melissa Smith
Summer: Tammy Arnold (Initiatives for Minority Student Development [IMSD]), Sandra Brumburgh, Jon Olp
Fall: Tammy Arnold (Initiatives for Minority Student Development [IMSD]), Sandra Brumburgh, Nicholas Card, Melissa Smith

MILNE, B.T.
Spearheaded two public discussions with students about the possibility of a “green dormitory” at UNM:
• Sustainability Festival, SUB Ballroom, UNM, November;
• Research and Creativity Symposium, SUB Ballroom, UNM, November 22.

Smriti Bhotika: mentored her applications to graduate school. She accepted a graduate position with Dr. Bob Holt in Gainesville, FL.

NATVIG, D.O.
Spring: Biol. 499, Undergraduate Problems, 1 student (Gabriel Quinones, 3 cr)
Fall: Biol. 400, Senior Honors Thesis, 1 student (Amy Farrar, 3 cr)
Biol. 499, Undergraduate Problems, 1 student (Shanelle Scales, 3 cr)

NATVIG, D.O.
Spring: Biol. 699, Dissertation, 1 student (Amy Ditto, 6 cr)
Biol. 551, Research Problems, 1 student (Chris Kitchen, 8 cr)

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NELSON, M.A.

Spring: Gilbert Harrison, Minority Access to Research Careers (MARC) student; Jonas Hines, Biol. 499 student; Heather Keys, Senior Honors Thesis; Jaminelli Liwanag, Senior Honors Thesis; Gary Montry; Kristine Rubio, Initiative for Minority Student Development (IMSD) student

Summer: Jaminelli Liwanag, Senior Honors Thesis; Kristine Rubio, IMSD student

Fall: Jaminelli Liwanag, Senior Honors Thesis; Kristine Rubio, IMSD student

Co-advisor (with W. Palmisano, Lovelace Respiratory Research Institute) on Jaminelli Liwanag's Senior Honors Thesis: "Identification and Characterization of a Novel Gene That Encodes Four Unique Transcripts That Are Differentially Methylated and Silenced in Breast Cancer"; graduated Fall, magna cum laude.

Co-advisor (with S.W. Ruby, Department of Molecular Genetics and Microbiology, UNM HSC) on Heather Keys' Senior Honors Thesis: "Prp5p's Interactions with pre-mRNA and U2 snRNA in Saccharomyces cerevisiae"; graduated Spring, summa cum laude.

Mentored undergraduate Andrea Andersen, in the Ronald E. McNair Scholars Program.

POCKMAN, W.T.

Spring: Jeremiah Baumgartel and Mariel Tribby, student employees
Summer: Allison Doble and Jesse Sweet, Sevilleta interns
Mariel Tribby, student employee
Renee Ziemann, Sevilleta REU
Fall: Mariel Tribby, student employee

POE, S.

Fall: Erik Hulcbak, Biol. 499, Undergraduate Problems (project on evolution of lizards); field work in Panama
Heather MacInnes, Biol. 499, Undergraduate Problems (project describing new lizard species); field work in Panama

SINSABAUGH, R.L.

Spring: Mindy Avery, Annette Denton, Julie Hasty, Kevin Poe
Summer: Kevin Poe
Fall: Eugenia Lebedev, Sylvia Gonzales

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SNELL, H.L.
Spring: Heather McCurdy

SWAN, J.
Spring: Aaron Price and Alexis Wold mentored in advanced dissection.

TAKACS-VESBACH, C.
Sara Caldwell, Spring 2002–present. Sara was an REU for me in summer 2004, and is working on her Honors thesis for EPS doing molecular microbial work in my lab, I am a reader for her thesis, Sara has been accepted to the IGERT program at Portland State University and will start her Ph.D. in the fall.


Olan Jackson-Weaver, Spring 2003–present. Started as work study washing dishes, is now conducting paid research and working toward an Honors thesis.

Nik Rae!, Summer 2003–present. Was an REU for me in summer 2003, has taken Biol. 499 credits and presently, I am a reader on his Honors Thesis in EPS (UNM).

David Stromberg, Fall 2003–present. Working on Honors thesis in my lab.

Justine Hall, Fall 2004–present. Started as a workstudy, awarded an IMSD scholarship, and has started a research project of her own to be finished by August 2005 so that she can move into another lab and learn more molecular biology.

Kim Rogers, Fall 2004–present. Paid undergraduate research technician, working 10 h/week in my lab analyzing Yellowstone samples, will be co-author on pubs from grant.

THORNHILL, R.
Mentoring of undergraduates in each of the three 2004 semesters. They were research assistants for my research on human sexuality:

Spring: Biol. 499, Undergraduate Problems, 11 students
TOOLSON, E.C.
Casey Gilman:
- Poster presented at 2004 Annual Meeting of Ecological Society of America, Portland OR: “Effects of Temperature on the Behavioral Ecology of *Trimerotropis pallidipennis* (Orthoptera: Acrididae).”

Amanda Hodson:
- Honor’s Thesis
- Oral presentation, 2004 Research Day, Department of Biology, The University of New Mexico, April 9: “The Effects of Pathogens on Temperature Regulation in the Grasshopper Species *Trimerotropis pallidipennis* and *Xanthippus corallipes*.” Awarded “Best Undergraduate Oral Presentation”
- Poster presentation, 2004 Research Day, Department of Biology, The University of New Mexico, April 9: “Exploration of potential mutualism in *Piper urostachyum*.”

Lila Badash, 2 semesters
Megan Backsen, 2 semesters
Elisa Cardenas
Lora Heikkinen, 3 semesters
Jacob Tellier

TURNER, T.F.

Christine Cooper, Spring 2004–present, UNM work-study student working on DNA isolation and characterization in southwestern fishes.

Jessica Justine Davis, Fall 2003–Spring 2004, Research Experience for Undergraduates (REU). Graduated in May 2004 and currently employed as a forensic criminologist in Syracuse NY.

Melvin Foster, Jr., Summer 2004, Undergraduate Mentoring in Environmental Biology. DNA isolation and analysis in southwestern fishes.

VOGEL, K.G.
Fall: David Estes; Juanice Reyes

WAGNER, A.
Spring and Fall: Jeremiah Wright, independent research

WAIDE, R.B.
Virginie Pointeau, January–March, independent study
WERNER-WASHBURNE, M.

Fall, Spring & Summer: Lara Lea Chavez; Jason Padilla Jatao (Initiatives to Maximize Student Diversity [IMSD])

Spring: Amanda Archuleta (IMSD)

WOLF, B.O.

Claire Craig, NSF REU, “Visitation Rates of Consumers to the Flowers and Fruit of Two Species of Columnar Cacti,” May–August.


G. Other Teaching Activities.

COUCH, L.

Spring: Ad hoc co-instructor for Biol. 461L, Introduction to Tropical Biology.

COLLINS, S.L.

Advising Selene Baez and Laura Calabrese, Ph.D. students, who started in the Fall.

HANSON, D.T.

Spring: Supervised La Cueva High School student of their gifted and talented student program.

MARSHALL, D.L.

Submitted Noyce Scholarship proposal to NSF and granted funding (see Grants, below).

MILNE, B.T.

UNM Sustainability Festival, November.

POCKMAN, W.T.

Spring: Brad Toneissen, La Cueva High School student

SINSABAUGH, R.L.

Member of 10 graduate student advisory committees.

TAKACS-VESBACH, C.

Graduate students mentored:

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Michael Bobb (M.S.), Kendra Mitchell (M.S.), Lydia Zeglin (Ph.D.; Lydia is a graduate student with Cliff Dahm, but is a member of my Antarctic research project, traveled to Antarctica in December 2004, and will be doing a substantial amount of her research in my lab).

TOOLSON, E.C.

Supervision (with W.T. Pockman, B.O. Wolf, D.T. Hanson, and C.L. Council-Garcia) of students involved with Biol. 204, Plant and Animal Form and Function, lab exercise development and testing:
- William Becker
- Elisa Cardenas
- Christopher Erickson
- Courtney Mealor
- Susan Sanchez-Monzon

Julietta Betinelli: supervision of summer field project conducted.

VOGEL, K.G.


WOLF, B.O.

Weekly lab meetings with undergraduate and graduate students to discuss research papers.

II. PUBLICATIONS.

A. Books Authored.

BARTON, L.L.


COUNCIL-GARCIA, C.L.


MOLLES, M.C., JR.

Single-authored:

Contributing author:
B. Books Edited.

BROWN, J.H.

GOSZ, J.R.

C. Chapters in Books or Major Synthetic Reviews.

BROWN, J.H.


Cripps, R.M.

GOSZ, J.R.


HANSON, D.T.
LOKER, E.S.


NATVIG, D.O.


NELSON, M.A.


SINSABAUGH, R.L.


STRICKE, S.A.


THORNHILL, R


WAIDE, R.B.

WOLF, B.O.


D. Articles in Refereed Journals.

BARTON, L.L.


BROWN, J.H.


CADAVID, L.F.


CHARNOV, E.L.


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**COLLINS, S.L.**


**COOK, J.A.**


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CRIPPS, R.M.


DAHM, C.N.


GOSZ, J.R.

KODRIC-BROWN, A.


LOKER, E.S.


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MARSHALL, D.L.


MILLER, R.D.


NATVIG, D.O.


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MILNE, B.T.


POCKMAN, W.T.


POE, S.


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SINSABAUGH, R.L.


SNELL, H.L.


Furrer, S.C., J.M. Hatt, H. Snell, C. Marquez, R.E. Honegger and A. Rubel. 2004. Comparative study on the growth of juvenile Galápagos giant tortoises (Geochelone nigra) at the Charles Darwin Research Station (Galápagos Islands, Ecuador) and Zoo Zurich (Zurich, Switzerland). *Zoo Biology* 23(2):177-183.


STRICKER, S.A.
TURNER, T.F.


WAGNER, A.


WAIDE, R.B.

WERNER-WASHBURNRE, M.


WOLF, B.O.


E. Book Reviews.

BARTON, L.L.
*Bioterrorism and Microbiology*, G. Zuby, Columbia University Press.
BROWN, J.H.

COUCH, L.


KODRIC-BROWN, A.

F. Articles in Non-scholarly Journals.

ALTENBACH, J.S.


BROWN, J.H.


COLLINS, S.L.

COOK, J.A.

G. Quasi-public Reports for Internal/External Circulation.

ALTENBACH, J.S.
"Bat Use and Habitat Evaluation on the Lake Valley Phase II Project," NM Abandoned Mine Lands Bureau, December.
"Bat Use and Habitat Evaluation on the Granite Gap, Project," NM Abandoned Mine Lands Bureau, December.

BARTON, L.L.
Barton, L.L. and G.V. Johnson. 2004. Primary productivity of Rio Ruidoso. Department of Environment, State of New Mexico, Santa Fe NM.

Barton, L.L. and G.V. Johnson. 2004. Primary productivity of the La Plata River. Department of Environment, State of New Mexico, Santa Fe NM.

Barton, L.L. and G.V. Johnson. 2004. Primary productivity of Abiquiu Creek. Department of Environment, State of New Mexico, Santa Fe NM.

KODRICK-BROWN, A.

SNEILL, H.L.

TAKACS-VESBACH, C.

TURNER, T.F.

H. Abstracts (Refereed or Invited).

BARTON, L.L.
Barton, L.L. 2004. Translocation of iron in corn and bean plants as influenced by soil bacteria. XII International Symposium on Iron Nutrition and Interactions in Plants, University of Tokyo, Tokyo, Japan, April 11-15.


CADAVID, L.F.


DAHM, C.N.


GOSZ, J.R.
National Center for Genomic Research, EPSCoR Program of New Mexico, Santa Fe NM, February 10.

HANSON, D.T.
Hanson, D.T. 2004. Dynamics of photosynthesis in space and time: Insights from stable isotopes and light. Sixth Annual Symposium, Department of Chemistry, New Mexico Tech, Socorro NM, November.


KODRIC-BROWN, A.


LOKER, E.S.


Hertel, L.A., C.M. Adema and E.S. Loker. 2004. Differential expression of FREP genes in two strains of *Biomphalaria glabrata* following exposure to the digenetic trematodes *Schistosoma mansoni* and *Echinostoma paraensis* with a focus on natural and acquired resistance. Presented at the 53rd Annual meeting of the American Society of Tropical Medicine and Hygiene, Miami Beach FL, November 7-11.

Zhang, S.-M. and E.S. Loker. 2004. Diversity in fibrinogen-related protein (FREP) genes, the parasite responsive gene family in the snail *Biomphalaria glabrata*, an intermediate host for *Schistosoma mansoni*. Presented at the 53rd Annual meeting of the American Society of Tropical Medicine and Hygiene, Miami Beach FL, November 7-11.

LOWREY, T.K.


NATVIG, D.O.


POCKMAN, W.T.


TURNER, T.F.


VOGEL, K.G.


WERNER-WASHBURNE, M.


Werner-Washburne, M. 2004. From 0 to 60 in seconds: Insights into the quiescent state in yeast. Pharmacy and Toxicology Department, The University of New Mexico, Albuquerque NM, March 1.


WOLF, B.O.


1. Abstracts (Contributed) (including Research Day abstracts of your students).

COLLINS, S.L.

Author or co-author on five presentations, Ecological Society of America Annual Meeting, Portland OR, August 2-6.

Co-author of one presentation for North American Bentholgological Society, Vancouver, Canada, June 8-10.

COOK, J.A.


Cripps, R.M.


Dahm, C.N.


American Benthological Society Annual Meeting, Vancouver, British Columbia, Canada, June 5-11.

HANSON, D.T.


Hanson, D., C. Puronen, and N. McDowell. 2004. Using a tuneable diode laser (TDL) to study CO₂ concentrating mechanism induction in hornworts. 13th International Photosynthesis Congress, Montreal, Quebec, Canada, September.

HOFKIN, B.V.


KODRIC–BROWN, A.


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LOWREY, T.K.


MILNE, B.T.


NELSON, M.A.


POCKMAN, W.T.


SINSABAUGH, R.L.


TAKACS-VESBACH, C.


TOOLSON, E.C.


TURNER, T.F.


J. Other.

LOWREY, T.K.

Research web sites:
http://www.msb.unm.edu/herbarium/astereae/
http://www.msb.unm.edu/herbarium/pteronia/

SNELL, H.I.


III. RESEARCH PROJECTS OR OTHER CREATIVE WORK IN PROGRESS OR COMPLETED DURING PERIOD.

A. Grants and Contracts, Extramural and Intramural.

I. Submitted to all agencies in 2004.

BARTON, L.I.

"Algal Growth Potential of Selected Streams and Rivers in New Mexico"; L.I. Barton, PI; Environment Department, State of New Mexico; $20,000, June 1, 2004–December 31, 2005.

BROWN, J.H.

J.H. Brown, E. Smith, G.P. West, co-PIs; Frontiers in Integrative Biological Research, NSF; $5,000,000.

COLLINS, S.L.
NSF CBC
NSF Ecosystems (2)
NSF LTER (2)
NSF LTREB
NSF RCN
NSF GK12

COOK, J.A.


"Genetic Footprints of Expansion: Signals for Refugia in Amazonia and Boreal North America"; J.A. Cook, PI; National Science Foundation (NSF0444303); $604,891. (Recommended, but not funded.)

Cripps, R.M.
"Cardiac Development in Drosophila"; R.M. Cripps, PI; American Heart Association; $500,000, January 1, 2005–December 31, 2009, $100,000/year.


"Genetic Regulation of Cell Fate in the Drosophila Heart"; R.M. Cripps, PI; National Institutes of Health/National Heart Lung and Blood Institute; $1,325,000, April 1, 2005–March 31, 2010, ~$260,000/year.


DAHM, C.N.
"New Mexico Nanotechnology, Education, and Water (NM NEW)"; multiple PIs with J.R. Gosz as lead, C.N. Dahm as a project leader on the hydrology component; New Mexico
EPSCoR proposal to the National Science Foundation; $9,000,000, April 1, 2005–March 31, 2008. (This project will be funded in April 2005 for $6,750,000)

"Biocomplexity in the Environment: Automated Minirhizotron Array with Rhizosphere Soil Sensors (AMARSS)"; multiple PIs with Michael Allen as lead, C.N. Dahm, a co-PI; National Science Foundation.

"GK 12 Program in Hydrogeoecology"; multiple PIs with Scott Collins as lead, C.N. Dahm, a co-PI. No details of the final budget numbers available. The proposal was reviewed and recommended for funding, but year-end money to fund the proposal did not occur, so we will resubmit in 2005.

GOSZ, J.R.

"Scientific Assessment of Vegetation and Hydrologic Conditions in our Watersheds and River Systems"; J.R. Gosz, PI; N.M. State Legislature, NMDA; $500,000, one year.

"New Mexico EPSCoR RII (NM NEW) Proposal"; J.R. Gosz, PI; NSF; $9,000,000, March 1, 2005–February 28, 2008 (pending).

HANSON, D.T.

Accepted pre-proposal: "Integrating Water Relationships from Molecules Through Physiology, Ecology, and Evolution"; B. Mishler, Lead PI for seven institutions, D.T. Hanson, PI, UNM; Frontiers in Biological Research, National Science Foundation; up to $5 million, up to $615,000 for UNM, funding up to five years, full proposal submitted February 16, 2005.

"Acquisition of Stable Isotope Mass Spectrometers for Biological and Environmental Research"; B.O. Wolf, D.T. Hanson, W.T. Pockman, S.L. Collins and R.L. Sinsabaugh; Major Research Instrumentation, National Science Foundation; $574,075, June 1, 2005–May 30, 2008.


"Adaptation and Implementation of Inquiry-based Undergraduate Physiology Labs"; W.T. Pockman, D.T. Hanson, B.O. Wolf and E.C. Toolson, PIs; Course, Curriculum and Laboratory Improvement, National Science Foundation; $199,703, June 1, 2005–May 30, 2008.


"Activation of Red Form I Rubisco"; T. Diaz, PI, D.T. Hanson as mentor; American Society of Plant Biologists Summer Undergraduate Research Program; $5,000, May 1–August 30, 2004.
"Creating a Rubisco Small Subunit (Rbcs) Knock-out in Physcomitrella patens"; S. Sanchez Monzon, PI, D.T. Hanson as mentor; American Society of Plant Biologists Summer Undergraduate Research Program; $5,000, May 1–August 30, 2004.


HOFKIN, B.V.
"Undergraduate Peer Study Group"; B.V. Hofkin, PI, Steven Peralta (School of Engineering, UNM), Co-PI; Western Alliance to Expand Student Opportunities; $1,815, one year.

KODRIC-BROWN, A.
"Evolution of Reproductive Isolation in Cyprinodon"; A. Kodric-Brown, PI; NSF; $300,000, June 1, 2004–June 30, 2007, $100,000.

"Evolution of Reproductive Isolation in Cyprinodon"; A. Kodric-Brown, PI; NSF R.E.U.; $4,000, June 1, 2004–June 1, 2005.

"Hybridization in Pecos Pupfish"; A. Kodric-Brown, PI; N.M. Game and Fish; $1,100, June 1, 2004–June 30, 2005.

"Coexistence Between Two Species of Gambusia" (Daniella Swenton’s research); A. Kodric-Brown, PI; N.M. Game and Fish; $12,000, July 1, 2004–June 30, 2007.

LOKER, E.S.
"Biology of Trematode-Snail Associations"; E.S. Loker, PI; National Institutes of Health; $1,201,566 (direct costs); July 1, 2005–June 30, 2010.

"Praziquantel Resistance in Egypt: Testing and Use of an in vitro Assay"; E.S. Loker, U.S. PI, Dr. Wael Lorfy, Egypt PI; U.S.–Egypt Joint Science and Technology Board, Cairo, Egypt; $60,000 (total costs); August 1, 2005–July 31, 2007.

LOWREY, T.K.

MARSHALL, D.L.


MILLER, R.D.

MILNE, B.T.
"Collaborative Research: Testing Dynamical Predictions of a Hortonian Scaling Theory for Flood Events on Whitewater Basin, Kansas"; V.K. Gupta and B.T. Milne, co-PIs; NSF; $164,212 requested for Milne's budget, recommended for funding $63,000, Summer 2005; budget revision in progress, $63,000/yr. for one year.


New Mexico Residential Built Green Program: Certification, Marketing and Implementation"; B.T. Milne, PI; N.M. Energy, Minerals and Natural Resources Department, Clean Energy Grant; $100,000, one year. Not funded.

MOLLES, M.C., JR.
"Collection Improvement Grant"; M.C. Molles, Jr., PI; NSF; $133,000, declined.

NELSON, M.A.
"Undergraduate Biomedical Research Training at UNM"; M.A. Nelson, PI and Program Director; National Institutes of Health (NIH); $1,969,273; June 1, 2005–May 31, 2010, Year 1, $350,757 (direct costs). This proposal was site-reviewed on October 4, 2004, not awarded.

POCKMAN, W.T.


POE, S.
"Collaborative Research: Comparative Study of Adaptive Radiation and Evolutionary Diversification in Mainland and West Indian Anolis Lizards"; S. Poe, J. Losos, K. de Queiroz and A. Larson, co-PIs; National Science Foundation; $700,000, Fall 2005–Fall 2010, $140,000/year.
SINSABAUGH, R.L.

“Distribution of Microbial Diversity in Arid Ecosystems: Implications for Carbon and Nutrient Storage in Soils”; R.L. Sinsabaugh and C. Kuske, co-PIs; LANL–UNM JSTL Program; $172,000.

“Stream Bacterial Community Composition: Do Human Effects Override Regional Variability”; S. Findlay, R.L. Sinsabaugh and C. Vesbach, co-PIs; NSF MIP Program; $402,000.

“Climatic and Anthro­genic Controls on Carbon and Nitrogen Cycle Coupling in an Arid Ecosystem”; R.L. Sinsabaugh, S. Collins, S. Cabaniss, K. Vanderbilt and E. Small, co-PIs; NSF Biocomplexity; $2,000,000.

“Decomposition in Arid Biomes: Role of Physicochemical and Biological Process in Ecosystem Structure”; R.L. Sinsabaugh, C. White and K. Vanderbilt, co-PIs; USDA Soils and Soil Biology; $500,000.

SNELL, H.L.


TAKACS–VESBACH, C.

“A Microbial Inventory of the Greater Yellowstone Ecosystem Thermal Features”; C. Takacs-Vesbach, PI; NSF REU Supplement; $11,000, June 1, 2004–July 31, 2005.


THORNHILL, R.

“Training Grant for Human Evolutionary and Behavioral Sciences Program at UNM”; H. Kaplan, PI, R. Thornhill, co-PI; NIH.

TOOLSON, E.C.


TURNER, T.F.

“REU Supplement to Career Award”; T.F Turner, PI; National Science Foundation; $6,800, May 1, 2003–April 30, 2007.


“Baseline Genetic Data for the Threatened Pecos Bluntnose Shiner (Notropis shintts pecosensis)”; T.E. Turner, PI, M. Osborne, Co-PI; New Mexico Department of Game and Fish; $4,000, September 1, 2005–June 30, 2006.

WERNER-WASHBURNE, M.


“Characterization of Quiescent and Non-quiescent Cells from Yeast SP Cultures”; M. Werner-Washburne, PI; NSF; $$600,000; March 1, 2004–February 28, 2008.

WOLF, B.O.


“Using Portable Ultrasonography to Quantify Life History Traits and Energetic Status of Small Animals in the Field”; B.O. Wolf, PI; National Science Foundation, (SGER) Small Grant for Exploratory Research, Ecological and Evolutionary Physiology Panel, IBN-0426764; June 1, 2004–November 30, 2005, $50,492.
2. Awarded with 2004 initial start date.

AL TENBACH, J.S.

BARTON, L.L.
"Algal Growth Potential of Selected Streams and Rivers in New Mexico"; L.L. Barton, PI; Environment Department, State of New Mexico; $20,000, June 1, 2004–December 31, 2005.

COL LINS, S.L.


COOK, J.A.
"Beringia Coevolution Project II"; J.A. Cook, PI; National Science Foundation (NSF0415668); $502,713, January 2005–January 2008, $170,000/yr.

"Inventory of SWAN Parks II"; J.A. Cook, PI; National Park Service; $76,176, February 15, 2004–December 31, 2005, $50,000/yr.

DAHM, C.N.
"Biocomplexity in the Environment: Automated Minirhizotron Array with Rhizosphere Soil Sensors (AMARRSS)"; multiple PIs with Michael Allen as lead, C.N. Dahm, a co-PI; National Science Foundation.

GOSZ, J.R.
"Preparing the LTER Network for Collaborative Science, Education and Synthesis: A Planning Proposal"; J.R. Gosz, PI; NSF; $985,000, 2 years.

"Scientific Assessment of Vegetation and Hydrologic Conditions in our Watersheds and River Systems. J.R. Gosz, PI; N.M. State Legislature, NMDA; $223,900, 1 year.
“Research and Education Laboratory—Sevilleta (Design and Construction)”; J.R. Gosz, PI; U.S. Fish & Wildlife Service, Department of Interior; $3,000,000, November 1, 2004–July 31, 2005.

HANSON, D.T.

“Role of Putative Carbonic Anhydrases in Cyanobacterial Carboxysome Function”; D.T. Hanson, PI; Sandia National Laboratories Sandia-University Research Program (SURP); $40,000, October 1, 2004–August 31, 2005.

“Biosphere-atmosphere CO₂ Exchange of Terrestrial Ecosystems: Combining High Resolution Measurements and Models to Understand the Global Atmospheric Carbon Budget”; N. McDowell, W.T. Pockman, D.T. Hanson, J. Randerson, co-PIs; Institute of Geophysics and Planetary Physics, Los Alamos National Laboratories; $160,000 ($85,000 for UNM, Year I: $45,000, October 1, 2004–September 30, 2007.

“Do Red Rubiscos Have or Need a Cognate Rubisco Activase?”; D.T. Hanson, PI; Research Allocations Committee, UNM; $3,500, June 1, 2004–May 31, 2005.


HOFKIN, B.V.

“Resolving the Origin of Galápagos Land Iguanas (Conolophus subristatus) from North Seymour Island: Implications for Iguana Conservation”; Research Allocation Committee (RAC) Award, UNM; $7,482, one year.

KODRIC-BROWN, A.

“Evolution of Reproductive Isolation in Cyprinodon”; A. Kodric-Brown, PI; NSF; $300,000, June 1, 2004–June 30, 2007, $100,000.

“Evolution of Reproductive Isolation in Cyprinodon”; A. Kodric-Brown, PI; NSF REU; $4,000, June 1, 2004–June 1, 2005.

“Hybridization in Pecos Pupfish”; A. Kodric-Brown, PI; N.M. Game and Fish; $1,100, June 1, 2004–June 30, 2005.

“Coexistence Between Two Species of Gambusia” (Daniella Swenton’s research); A. Kodric-Brown, PI; N.M. Game and Fish; $12,000, July 1, 2004–June 30, 2007.

LOKER, E.S.

Eco-epidemiology of Schistosoma mansoni in Western Kenya”; E.S. Loker, PI; National Institutes of Health; $1,497,748 (direct costs); April 1, 2004–March 31, 2009.
MARSHALL, D.L.

NATVIG, D.O.

NELSON, M.A.
"Functional Analysis of a Model Filamentous Fungus: ESTs"; J. Dunlap, Dartmouth Medical School, PI, M.A. Nelson, co-PI, and PI on Project 4; NIGMS Program Project Grants, NIH; $166,039 (direct costs, Year 1, UNM part of award [Project 4]); April 1, 2004–March 31, 2009. This proposal was site-reviewed on December 12, 2003, awarded in full.

POCKMAN, W.T.

SNELL, H.L.

TAKACS-VESBACH, C.
"A Microbial Inventory of the Greater Yellowstone Ecosystem Thermal Features"; C. Takacs-Vesbach, PI; NSF REU supplement; $11,000 June 1, 2004–July 31, 2005, $5,950/yr.

"Collaborative Research: Hydrologic Controls over Biogeochemistry and Microbial Community Structure and Function Across Terrestrial/Aquatic Interfaces in a Polar Desert"; C. Takacs-Vesbach, M. Gooseff and J. Barrc, co-PIs; NSF; $160,747 (UNM); July 1, 2004–June 30, 2007, Year 1: $54,050, Year 2: 56,265, Year 3: 50,432.

"A Research Coordination Network for Thermal Biology in Yellowstone National Park"; W. Inseeck and M. Young, PIs, with participants from 12 universities and agencies, including C. Takacs-Vesbach at UNM; NSF; no funds for UNM.

TURNER, T.F.
"REU Supplement to Career Award"; T.F Turner, PI; National Science Foundation; $6,800, May 1, 2003–April 30, 2007.


WERNER-WASHBURNE, M.

“Supplement to Compendium Grant for Sonia Santa Anna Career Development Award”; M. Werner-Washburne, PI; $136,000; March 1, 2004–July 1, 2006, $68,000/year (direct costs).

“SACNAS Genomics Program” (for graduate student and faculty fellowships in genomics); M. Werner-Washburne, PI; $1,000,000; September 1, 2004–August 31, 2008, $250,000/year (direct costs) (through The Society for Advancement of Chicanos and Native Americans in Science [SACNAS]).

WOLF, B.O.

“Using Portable Ultrasonography to Quantify Life History Traits and Energetic Status of Small Animals in the Field”; B.O. Wolf, PI; National Science Foundation, (SGER) Small Grant for Exploratory Research, Ecological and Evolutionary Physiology Panel, IBN-0426764; June 1, 2004–November 30, 2005, $50,492.


3. In force from previous years.

ALTENBACH, J.S.


BARTON, L.L.


“Algal Growth Potential”; L.L. Barton, PI; Environment Department, State of New Mexico; $14,792; March 1, 2001–December 31, 2004.

IMSD/MBRS

K-72
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, 2000-05.


CADAVID, L.F.

"Molecular and Functional Characterization of an Ancient Histocompatibility System"; L.F. Cadavid, PI; National Science Foundation; $508,809, August 2003–August 2006.

"Center for Theoretical and Evolutionary Immunology"; E.S. Loker, PI, L.F. Cadavid, co-PI; National Institute of Health Center of Biomedical Research Excellence (COBRE) Program; $12,000,000, September 2003–September 2008.

COLLINS, S.L.


"LTREB: Long-term Ecosystem Responses to More Extreme Precipitation Patterns and Warming"; A. Knapp (Colorado State University), P. Fay (UMinn.–Duluth), M. Smith (Yale), S.L. Collins and J. Blair (Kansas State University), co-PIs, submitted through KSU; $300,000 for five years, beginning May 2005.

COOK, J.A.

Idaho St. Univ.;

"Undergraduate Mentoring Environmental Biology Program"; J.A. Cook, co-PI, with five Idaho co-PIs; National Science Foundation; $391,000, 2003-2007, $130,000/yr.

CRIPPS, R.M.

"Genetic Regulation of Muscle Fiber Diversity"; R.M. Cripps, PI; National Institutes of Health; $1,040,000, direct and indirect costs, May 2001–April 2006, $210,000/year.

"Transcriptional Control of Muscle Remodeling in Drosophila"; R.M. Cripps; Muscular Dystrophy Association; $238,000, July 2003–June 2006, $80,000/year.

DAHM, C.N.


“Nitrate Uptake and Retention in Streams: Mechanisms and Effects of Human Disturbance from Stream Reaches to Landscapes”; subcontract from the University of Tennessee on a National Science Foundation award; $138,751, April 1, 2002–March 31, 2007.

“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; $2,699,289; National Science Foundation; January 1, 1999–December 31, 2005. I am the leader of the subcontract for $1,242,500 to the University of New Mexico.


GOSZ, J.R.


“Supplement to the New Mexico EPSCoR RII Award”; J.R. Gosz, PI; NSF; $60,000, March 2003.

“New Mexico EPSCoR Infrastructure Proposal”; J.R. Gosz, PI; NSF; $6,200,000, March 1 2002–Feb. 28 2005, Year 1: $1,700,000, Year 2: $2,100,000, Year 3: $2,400,000.


HANSON, D.T.
"Rubisco Specificity in Red and Brown Macro-algae"; D.T. Hanson, PI; Research Allocations Committee, UNM; $3,481, June 1, 2003–May 31, 2004.


LOKER, E.S.
"Center of Biomedical Research Excellence (COBRE): Center for Evolutionary and Theoretical Immunology"; E.S. Loker, PI; NIH, National Center for Research Resources, P20 RR018754; $10.1M (direct costs), September 30, 2003–June 30, 2008.

" Biomphalaria in Egypt: Understanding the Changing Biology of the Snails that Transmit Schistosomiasis"; E.S. Loker, U.S. PI, Dr. Wael Lotfy, Egyptian PI; U.S.-Egypt Joint Science and Technology Board; $50,000; August 1, 2002–July 31, 2005.

"Biology of Trematode-Snail Associations"; E.S. Loker, PI; NIH, RO1 AI24340-14-18; $830,662; February 1, 2000–January 31, 2005.

"Evolution of Schistosoma mansoni and its Snail Hosts"; E.S. Loker, PI; NIH, RO1 AI44913-1-5, $853,857, April 1, 1999–March 31, 2004.

LOWREY, T.K.
"New Mexico EPSCoR Science Infrastructure: Institute for Natural Resource Analysis and Management—Biodiversity"; T.K. Lowrey, co-PI and Coordinator; National Science Foundation; $740,000; March 1, 2002–April 30, 2005.

MARSHALL, D.L.


MILLER, R.D.
"Immunoglobulin Genetics in Non-eutherian Mammals"; R.D. Miller, PI; NSF; $365,000, May 1, 2000–April 30, 2004.


MILNE, B.T.


"Collaborative Research: Scaling and Allometry in River Networks: Coupling Rainfall, Topography and Vegetation with Hydrological Extremes"; B.T. Milne, PI; NASA (as subcontract through University of Colorado, Boulder); $87,000.

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, 2005.

"Initiative for Minority Student Development at UNM"; E. Walters, PI; D.O. Natvig, co-PI; NIH; $2,285,329, February 1, 2000–January 31, 2004; $570,000/yr.

NELSON, M.A.


POCKMAN, W.T.


"Riparian Evapotranspiration: Evaluating the Effectiveness of Restoration Projects through Improved Depletion Predictions"; J. Cleverly, C.N. Dahm and W.T. Pockman, co-PIs; U.S.

K-76


SINSABAUGH, R.L.


SNELL, H.L.

“Control Total de Especies Introducidas en Las Islas Galápagos”; H. Negret, M. Patry, R. Bensted-Smith, H.L. Snell, A. Tye, J. Hernandez, E. Cruz and F. Espinoza, co-PIs; Global Environmental Fund (GEF); U.S. $18,000,000, April 2002–September 2006, U.S. $3,000,000/year.


“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 (U.S.D.), March 1, 2000–March 1 2004, $750,000/year.

STRICKER, S.A.

“The Role of PKB/Akt in Oocyte Maturation”; S.A. Stricker, PI; NSF; $8,500, June 2003–December 2004.
TAKACS-VESBACH, C.

THORNHILL, R.
“Genetic Conflicts of Interest, Fluctuating Asymmetry and MHC”; S. Gangestad, PI, R. Thornhill, co-PI; NSF; $350,000, August 2002–August 2005, $115,000.

TURNER, T.F.
“CAREER: Museum-based Approaches to Ecology and Evolution of Aquatic Systems: An Integrated Research and Educational Program”; T.F. Turner, PI; National Science Foundation; $500,000, May 1, 2002–April 30, 2007, $100,000/year.


“Dissertation Research: Stable Isotope Analysis of Current and Historical Aquatic Food Webs”; T.F. Turner, PI, M. Edwards, co-PI; National Science Foundation; June 1, 2003–May 1, 2004, $8,000.

“Freshwater Graduate Studies Link Fundamental Science with Applications Through Integration of Ecology, Hydrology and Geochemistry in Regions with Contrasting Climates”; A. Ward (UA), C.N. Dahm (UNM), co-PI, T.F. Turner, one of 16 other participants; National Science Foundation; January 1, 1999–December 31, 2004, $2,687,181.

VOGEL, K.G.

WAGNER, A.
“Structural, Functional, and Evolutionary Characterization of a Large Protein Interaction Network”; A. Wagner, PI; NIH R01; $592,000, July 2001–June 2006, annual direct cost $80,000.

WAIDE, R.B.

“Developing the Spatial Data Workbench”; R.B Waide and J. Vande Castle, co-PIs; NSF—sub-award from the University of California–San Diego under the National Partnership
for Advanced Computational Infrastructure; $405,700, October 1, 1997–January 31, 2005, $51,000/yr.

“Climate Change Studies in the Caribbean”; sub-award from the University of Puerto Rico–Rio Piedras; R.B. Waide, PI; NASA; $224,388, September 1, 2001–August 31, 2004, $74,000/yr.


“Science Environment for Ecological Knowledge (SEEK)”; W.K. Michener, PI; NSF; $13,400,000, 2002–2007, $2,700,000/yr.


WERNER–WASHBURNE, M.

“Compendium of Gene Expression in Stationary-Phase Yeast”; M. Werner–Washburne, PI; National Human Genome Research Institute, NIH; $950,000; July 1, 2002 –June 30, 2006.

WOLF, B.O.


B. Other.

COLLINS, S.L.

USDA Forest Service Research, $20,000.

HOFKIN, B.V.

Currently, serving as a member of the City of Albuquerque “Prairie Dog Task Force” to develop a plan to deal with Gunnison's prairie dogs living within the city limits. In the summer of 2004, roughly 160 prairie dogs were relocated from Albuquerque public schools to city-owned property on the west mesa. Currently, the city is funding our research effort to assess the parasitological status of the transferred animals. These animals will be recaptured to determine if this status has changed as a consequence of their relocation.
SINSABAUGH, R.L.
Advised two Ph.D. students, one M.S. student.

THORNHILL, R.
Various writing projects in progress.

IV. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES.

A. Invited or Plenary Talks at Professional Meetings, Workshops, Etc.

BARTON, L.L.

"Translocation of Iron in Corn and Bean Plants as Influenced by Soil Bacteria," XII International Symposium on Iron Nutrition and Interactions in Plants, University of Tokyo, Japan, April 11-16.

BROWN, J.H.
Edmonton Speaker: University of Washington, February 20.

Invited speaker, P. Yodzis Colloquium, University of Guelph, Ontario, Canada, February 23-25.

Invited plenary talk, Comparative Physiology Conference, Ithala, South Africa, August 7-11.


Invited speaker, University of California, San Diego CA, November 19.

CADAVID, L.E.


COLLINS, S.L.
Invited presentation on climate variability and disturbance in grasslands, LTER Coordinating Committee Meeting, Fairbanks AK.
COOK, J.A.
Syposium on Systematics and Phylogeography of Mammals in Eastern Asia, "Historical Biogeography at the Cross-roads of the Northern Continents: Molecular Phylogenetics of Red-backed Voles (Rodentia: Arvicolinae)" (with C. Conroy), Taiwan, October.

DAHM, C.N.


GOSZ, J.R.
National Center for Genomic Research, EPSCoR program of New Mexico, Santa Fe NM, February 10.

American Geophysical Union Annual Meeting, LTER Planning Grant Status, Montreal, Canada, May 17.


HANSON, D.T.
Hanson, D.T. 2004. Dynamics of photosynthesis in space and time: Insights from stable isotopes and light. Sixth Annual Symposium, Department of Chemistry, New Mexico Tech, Socorro NM, November.

Hanson, D.T. 2004. Real-time, steady-state CO₂ discrimination of pyrenoid containing hornworts using a tunable diode laser. International Photosynthesis Congress, Fifth International
Symposium on Inorganic Carbon Utilisation by Aquatic Photosynthetic Organisms (CCM 2004), Saint-Sauveur, Quebec, Canada, August.

KODRIC- BROWN, A.


LOKER, E.S.

LOWREY, T.K.

MARSHALL, D.L.

MILLER, R.D.

NATVIG, D.O.

NELSON, M.A.

POCKMAN, W.T.
POE, S.

STRICKER, S.A.

TURNER, T.F.


VOGEL, K.G.

Invited Lecture, Danish Institute of Sports Medicine meeting on "The Extracellular Matrix — Conversion of Mechanical Loading into Functional Adaptation: Role for Physiological and Pathophysiologial Adaptation in Health and Disease," "The Role of Proteoglycans in Tendon Mechanical Loading," Copenhagen, Denmark, August 19-22.

WAGNER, A.
Gordon Research Conference on Molecular Evolution, Ventura CA, February.

Bioinformatics Forum at the Penn Center for Bioinformatics, University of Pennsylvania, Philadelphia PA, April.

"Understanding Complex Systems," Symposium, University of Illinois at Urbana-Champaign, May.

"Molecules, Networks, Populations" Workshop, Max Planck Institut für Physik Complexer Systeme, Dresden, Germany, July.

Seminar on Computational Biology, INRIA and Universite Claude Bernard, Lyon, France, November.

WERNER-WASHBURNE, M.
Small  "Second New Mexico Workshop on Computational Cell Biology: Microscopy, Membrane Biology and Modeling for Biosignaling Research, Santa Fe NM, January.


B. Contributed Talks at Professional Meetings, Workshops, Etc.

BARTON, L.L.


Barton, L.L. 2004. Translocation of iron in corn and bean plants as influenced by soil bacteria. XII International Symposium on Iron Nutrition and Interactions in Plants, University of Tokyo, Tokyo, Japan, April 11-15.


BROWN, J.H.
Working Group on Invasive Species, National Center for Biological Analysis and Synthesis (NCEAS), Santa Barbara CA, March 14-17.


Contributed talk, Southwestern Association of Biologists (SWAB), Southwestern Research Station, Portal AZ, October 1-2.

COLLINS, S.L.
Author or co-author on five presentations, Ecological Society of America Annual Meeting, Portland OR, August 2-6.

Co-author of one presentation for North American Benthological Society, Vancouver, Canada, June 8-10.

COOK, J.A.


HANSON, D.T.

Hanson, D., C. Puronen, and N. McDowell. 2004. Using a tuneable diode laser (TDL) to study CO\textsubscript{2} concentrating mechanism induction in hornworts. 13\textsuperscript{th} International Photosynthesis Congress, Montreal, Quebec, Canada, September.

KODRIC–BROWN, A.


“Role of Disturbance on Fish Communities in the Deserts of Australia and the Southwestern U.S.,” Southwestern Association of Biologists (SWAB) Annual Meeting, Southwestern Research Station, Cave Creek AZ, October 3-6.

LOKER, E.S.


Brant, S.V., S.D. Snyder and E.S. Loker. 2004. New insights on the phylogenetic positions of avian schistosomes, with a focus on Trichobilharzia. Presented at the 9\textsuperscript{th} European Multicolloquium of Parasitology, Valencia, Spain, July 18-23.
LOWREY, T.K.

MARSHALL, D.L.

MILNE, B.T.

POCKMAN, W.T.


SINSABAUGH, R.L.


TURNER, T.F.


VOGEL, K.G.


WAGNER, A.

WOLF, B.O.


C. Attendance at Professional Meetings, Workshops, Etc.

ALTENBACH, J.S.
Annual North American Symposium on Bat Research, Salt Lake City UT, October 18-20.

BARTON, L.L.

XII International Symposium on Iron Nutrition and Interactions in Plants, University of Tokyo, Tokyo, Japan, April 11-15.

SRB Jamboree, JGI/Virtual Institute for Microbial Stress and Survival at the Lawrence Berkeley National Lab, Berkeley CA, April 18-23.

104th General Meeting of the American Society for Microbiology, New Orleans LA, May 23-27.

Biometals 2004—Fourth International Symposium, Garmisch–Parkenhirn, Germany, September 3-5.

Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Austin TX, October 4-8.

BROWN, J.H.

Comparative Physiology Conference, Ithala, South Africa, August 7-11.


Southwestern Association of Biologists (SWAB), Southwestern Research Station, Portal AZ, October 1-2

Workshop on Biodiversity Scaling, Prague, Czech Republic, October 18-22.

Scaling Biodiversity Symposium, Santa Fe Institute, Santa Fe NM.

CADAVID, L.F.

Society for Integrative and Comparative Biology Annual Meeting, New Orleans LA, January 5-9.

Third International Conference of the Colombian Society of Genetics, Barranquilla, Colombia, February 18-20.

Third International Conference of the Colombian Society of Genetics, Barranquilla, Colombia, February 18-20.

COLLINS, S.L.

Annual Meeting of the Ecological Society of America, Portland OR, August 2-6.

Annual Meeting of the North American Bentholical Society, Vancouver, Canada, June 8-10.

LTER cross-site synthesis workshops:
- Metapopulation Dynamics of Stream Insects, Carbondale IL, January
- Plant Traits/Species Diversity, Sevilleta LTER, Socorro NM, January
- Disturbance and Variability, Madison WI, June
- Plant Traits/Species Diversity, Houston TX, December

Invited participant in a workshop on collaboration in ecology.

Helped to organize the LTER Meeting of 100 as part of the LTER Planning Process, FL, November.

COOK, J.A.

Annual Meeting of the American Society of Mammalogists, Arcata CA, June 12-16.

Annual Meeting of Defense Initiative Threat Reduction Agency (DITRA), UNM, October.

COUCH, L.

Annual Meeting of the Southwestern Association of Parasitologists, Lake Texoma OK, April.

Joint Meeting of the American Association of Veterinary Parasitologists and the American Society of Parasitologists, Philadelphia PA, July.
CRIPPS, R.M.

DAHM, C.N.
Sevilleta LTER Annual Symposium, Albuquerque, and Sevilleta Field Station, Soccoro NM, January 14-15.

Salt Cedar Control Meeting, Bosque del Apache NM, January 22.

IGERT Principal Investigator Annual Meeting at the National Science Foundation, Ballston VA, January 27-31.

Faculty Retreat, Department of Biology, The University of New Mexico, Sevilleta Field Station, Soccoro NM, March 5-6.


National River Restoration Science Synthesis (NRRSS) meeting, the National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara CA, May 3-5.

Workshop on the Future of the Bosque, Utton Center, The University of New Mexico, Albuquerque NM, May 25.

Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI) Long-Term Hydrological Observatory Workshop, New Mexico Tech, Socorro NM, June 4.

Annual Workshop of the Subsurface Microbiology IGERT Program (Oregon State University and Portland State University), Inn at Spanish Head, Lincoln City OR, June 19-22. (Serve as external advisor to this IGERT Program.)


Societe International Limnologie Congress, Lahti, Finland, August 8-13.

NEON Conference on Climate Change, Tucson AZ, August 24-25.


K-91
GOSZ, J.R.
IGERT Workshop, Washington DC

Southwest Regional NEON meetings (3)
Salt Cedar Control Federal Program

Middle Rio Grande Conservancy District

Soil Water and Conservation District Annual Meeting

Annual American Geophysical Union Meeting, Montreal, Canada
NIH meeting on the IDEA programs

Annual Ecological Society of America meeting, Portland OR

Water Resource Research Institute Conference, August 10

Valles Caldera National Preserve Board meetings, Valles Caldera National Preserve, NM

New Mexico Drought Summit, Albuquerque NM

Project Science Workshop, Aspen CO, October 4

National NEON Planning Meeting, Portland OR, October 18.

HANSON, D.T.


American Bryological and Lichenological Society (joint meeting with Botanical Society of America), Snowbird UT, July.

"Content Enrichment in Investigative Labs: A Solution to the Perceived Trade-off Between Quantity and Quality," Botanical Society of America Conference (Botany 2004), Snowbird UT, August.

Fifth International Symposium on Inorganic Carbon Utilisation by Aquatic Photosynthetic Organisms (CCM 2004), Saint-Sauveur, Quebec, Canada, August.

13th International Photosynthesis Congress, Montreal, Canada, September.

KODRić–BROWN, A.

Animal Behavior Society Annual Meeting, Oaxaca, Mexico, June 12-16.

Ecological and Evolutionary Ethology of Fishes, Saudarkrokur, Iceland, August 17-21.
Southwestern Association of Biologists (SWAB) Annual Meeting, Southwestern Research Station, Cave Creek AZ, October 3-6.


LOKER, E.S.

9th European Multicolloquium of Parasitology, Valencia, Spain, July 18-23.

Joint Meeting of the American Society of Parasitologists and American Association of Veterinary Parasitologists, Philadelphia PA, July 24-28.

LOWREY, T.K.
International Organization of Plant Biosystematists, Valencia, Spain, May 16-20.


Botany 2004 National Botanical Meetings, Snowbird UT, August.

Invited participant, NSF Workshop on Herbarium Networking, Michigan State University, East Lansing MI, September.

MARSHALL, D.L.
Annual Meeting of the Guild of Rocky Mountain Population Biologists, Boulder CO, September.


MILLER, R.D.
12th International Congress of Immunology, Montreal, Canada, July 18-23.

Opossum Genome Annotation Meeting, The Broad Institute, Cambridge MA, October 14-16.

MILNE, B.T.
International Association of Landscape Ecology, Las Vegas NV, March 30-April 4.

NATVIG, D.O.
Neurospora Information Conference, Asilomar CA, March

Annual meeting of the Mycological Society of America, Asheville NC, July

NELSON, M.A.

K-93
2004 Annual Biomedical Research Conference for Minority Students (ABRCMS), Dallas TX, November 10-13.


POCKMAN, W.T.
Sevilleta LTER Annual Symposium, Albuquerque NM, January.

National Institute for Global Environmental Change (NIGEC), SouthCentral Region PI Workshop, New Orleans LA, June.

II Reunión Binacional (Chile-Argentina) de Ecología, Mendoza, Argentina, November.

POE, S.
Joint Meeting of the Society for the Study of Amphibians and Reptiles, the Herpetologists’ League, and the American Society of Ichthyologists and Herpetologists, Norman OK, Summer.

SINSABAUGH, R.L.
UNM-US IGERT Symposium, Sevilleta LTER, Socorro NM, January 28-29.

Sevilleta LTER Annual Research Symposium, Socorro NM, January.


North American Benthological Society, Vancouver, Canada, June 8-10.

Ecological Society of America, Portland OR, August 2-6.

LTER Planning Workshop, Orlando FL, November 9-12.

SNELL, H.L.
Weekly attendance: Galápagos National Park’s Strategic Planning Workshops, March–August.

TURNER, T.F.
American Society of Ichthyologists and Herpetologists, Norman OK, May.


VOGEL, K.G.
Invited Speaker, Meeting of International Society of Musculoskeletal and Neuronal Interactions, Chalkidi, Greece, May 28-31.

Invited Session Chairman, Gordon Research Conference on “Proteoglycans,” Andover NH, July.

K-94
Invited Speaker, The Extracellular Matrix—Conversion of Mechanical Loading into Functional Adaptation: Role for Physiological and Pathophysiological Adaptation in Health and Disease, Copenhagen, Denmark, August 19-22.

WAGNER, A.
German Conference on Bioinformatics, Bielefeld Germany, October 4-6.

WAIDE, R.B.
Ecological Society of America, Portland OR, August.

WERNER-WASHBURNE, M.
Second New Mexico Workshop on Computational Cell Biology: Microscopy, Membrane Biology and Modeling for Biosignaling Research, Santa Fe NM, January.

NSF and NIH seminars, Arlington VA, and Bethesda MD, March 31 and April 2.

Yeast Genetics and Molecular Biology, Seattle WA, July.

Chips to Hits, Boston MA, September.

Biomedical Research Conference for Minority Students, Dallas TX, November.

American Society for Cell Biology, Washington DC, December.

WOLF, B.O.
2004 Annual Meeting of the Southwest Association of Biologists, Portal AZ, October 1-2.

74th Annual Meeting of the Cooper Ornithological Society, La Crosse WI, May 5-9.

Annual Meeting of the Society for Integrative and Comparative Biology, New Orleans LA, January 5-9.

D. Service as Editor of Scholarly Journal.

COLLINS, S.L.
Book Review Editor, Journal of Vegetation Science

KODRIC–BROWN, A.
Animal Behaviour

NATVIG, D.O.
Editor in Chief, Mycologia, journal of the Mycological Society of America, July–December.

NELSON, M.A.
Associate Editor, Fungal Genetics and Biology, 1998–present.
WAGNER, A.

Advances in Complex Systems

Bioessays

BMC Evolutionary Biology

Division of Molecular and Developmental Evolution, Journal of Experimental Zoology, Santa Fe Institute Publications

E. Service on Editorial Board of Scholarly Journal.

BARTON, L.L.

Biometals, an international journal

BROWN, J.H.

British Ecological Society, Monographs

Evolutionary Ecology Research

Journal of Biogeography

COLLINS, S.L.

BioScience

Community Ecology

DAHM, C.N.

I served on the search committee for the selection of editors for Water Resources Research, the premier journal in the hydrological sciences, published by the American Geophysical Union. They receive more than 900 manuscript submissions a year for publication consideration. Our committee devised the new editorial structure for the journal, which now includes a managing editor and four subject editors. We identified candidates for each of the five positions, interviewed the candidates (via conference calls), and selected the five new editors for the journal.

GOSZ, J.R.

Biogeochemistry

Sustainability: Science, Practice, & Policy (new e-journal: http://ejournal.nbii.org/)

LOKER, E.S.

Developmental and Comparative Immunology

Journal of Helminthology

Invertebrate Biology

MILLER, R.D.

Immunogenetics (Springer-Verlag)

K-96
NATVIG, D.O.
Associate Editor, Mycologia, January–July

NELSON, M.A.
Functional and Integrative Genomics, 1999–
Applied Mycology and Biotechnology, 2002–

POCKMAN, W.T.
Tree Physiology (Editorial Review Board)

SINSABAUGH, R.L.
Applied and Environmental Microbiology
Applied Soil Ecology
Freshwater Biology
Soil Biology and Biochemistry

SNELL, H.L.
Noticias de Galápagos

THORNHILL, R.
Evolution and Human Behavior

VOGEL, K.G.
European Journal of Cell Biology

F. Service as Officer of Professional Organization (indicate whether Elected or Appointed).

BARTON, L.L.
Member, Steering Committee, International Symposium of Iron Nutrition and Interactions in Plants, XII International Symposium, to be held in France.

Member, International Steering Committee, Fifth International BioMetals Symposium, to be held in Portland OR.

COLLINS, S.L.
Member, LTER Network Coordinating Committee.

President, Association of Ecosystem Research Centers, 2004–05.

Member, LTER Executive Committee, 2004–2007 (elected).

Member, Rapid Response Team–Grassland Ecosystems, Ecological Society of America.

K-97
COUCH, L.
Chair, Education Committee of the American Society of Parasitologists (appointed).

DAHM, C.N.

GOSZ, J.R.
New Mexico State EPSCoR Director (hired).
Chairman, U.S. LTER Coordinating Committee (elected).
Board of Trustees, Valles Caldera National Preserve (nominated, to be appointed by U.S. President George W. Bush).
Southwest NEON Steering Committee (elected).

HANSON, D.T.
Acting co-head, the Southwestern subsection of the Western Sectional Society of the American Society of Plant Biologists (appointed).

LOWREY, T.K.
Co-chair, U.S. Herbarium Networking Committee

NATVIG, D.O.
Member, Student Awards Committee, Mycological Society of America (appointed).

NELSON, M.A.
Member, New Mexico Computational Biology Committee, 1994–present (appointed).
Member, Fungal Genome Initiative Advisory Board, 2001–present (appointed).

TURNER, T.F.
Board of Governors, Class of 2007, American Society of Ichthyologists and Herpetologists (elected).

WAIDE, R.B.
Secretary, Long-Term Studies Section, Ecological Society of America (appointed).
WERNER-WASHBURNE, M.
Society for Advancement of Chicanos and Native Americans in Science (SACNAS) program committee

WOLF, B.O.
Board of Directors, The Cooper Ornithological Society (elected)

G. Other.

COLLINS, S.L.
Chaired the Editor-in-Chief review for Ecological Society of America flagship journal, Ecology.
Ad hoc editor for a manuscript submitted to Conservation Biology.

V. OTHER PROFESSIONAL ACTIVITIES.

A. Seminar Presentations, UNM and Elsewhere.

BROWN, J.H.
Invited seminar, University of California, Santa Cruz CA, February 24.
Invited seminar, Physics Consortium of the Americas, UNM, March 29.

CADAVID, L.F.
Department of Biological Sciences, Texas Tech University, Lubbock TX, February 26.

COLLINS, S.L.
Michigan State University, East Lansing MI
University of California, Irvine CA
Sevilleta LTER Annual Symposium, Socorro NM

COOK, J.A.
Invited Presenter, Tongass National Forest Wildlife Management Issues (all-agency meeting), "Conservation Genetics along the North Pacific Coast," Juneau AK, May.
Promotion seminar, "Beringia: Impact of Climate Change on Diversification of High Latitude Mammals," UNM, September.

CRIPPS, R.M.
Biology Department, California State University, Hayward CA, April.
Fall: Genomics Discussion Group, Department of Biology, UNM.

K-99
DAHM, C.N.
Department of Economics, UNM, May 15.

HANSON, D.T.
“Shedding Light on the Dark-side: Insight into the Dynamics of Photosynthesis,” Department of Biology, UNM, November 3.

“Dynamics of Photosynthesis in Space and Time: Insights from Stable Isotopes and Light,” Sixth Annual Symposium, Department of Chemistry, New Mexico Tech, Socorro NM, November.

KODRIC-BROWN, A.

LOKER, E.S.
Biomedical Research Infrastructure Network (BRIN) Seminar Presentation, University of Montana, Missoula MT, May 3.

MARSHALL, D.L.
University of Denver, Denver CO, April.

MILNE, B.T.
Spring: Two seminars, Department of Physics and Astronomy, UNM.
Complexity Workshop, Consortium for the Americas, UNM.

NELSON, M.A.
“Research Ethics,” UNM HSC Institute for Ethics, December 1.

POCKMAN, W.T.
“Research in Plant Physiological Ecology,” Biology Club, Department of Biology, UNM, March 3.

POE, S.
Mid-tenure review talk, “Quantitative Tests of Models for the Evolution of Development,” Department of Biology, UNM, Fall.

SINSABAUGH, R.L.
“Nitrogen Deposition and Functional Redundancy in Soil Microbial Communities,” Department of Biology, UNM, October 21.
SNELL, H.L.

"Varying Roles of Natural and Sexual Selection in the Evolution of Sexual Size Dimorphism in Galápagos Lizards," Departmental Seminar, Georgia Southern University, Statesboro GA, November.


THORNHILL, R.

Research seminar, Department of Psychology, University of Arizona, Tucson AZ, November.

TURNER, T.F.


"Demography and Genetics of the Río Grande Silvery Minnow," University of Western Australia, Perth, Australia, November.

"Demography and Genetics of the Río Grande Silvery Minnow," Tulane University, New Orleans LA, May.

VOGEL, K.G.

Invited seminar, "Glycoproteins of the Tunic, or It Sort of Looks Like Cartilage," Department of Orthopaedics, University of Washington, Seattle WA, May.

WAGNER, A.

Gordon Research Conference on Molecular Evolution, Ventura CA, February.

Bioinformatics Forum at the Penn Center for Bioinformatics, University of Pennsylvania, Philadelphia PA, April.

Department of Genetics, University of Georgia, Athens GA, April.

Center for Nonlinear Studies, Los Alamos National Laboratory, Los Alamos NM, May.

"Understanding Complex Systems," Symposium, University of Illinois at Urbana-Champaign, May.

"Molecules, Networks, Populations" Workshop, Max Planck Institut für Physik Complexer Systeme, Dresden, Germany, July.

ETH, Zurich, Switzerland, July.

Seminar on Computational Biology, INRIA and Université Claude Bernard, Lyon, France, November.

K-101
UMR de Génétique Végétale INRA/CNRS/UPS/INAPG, Ferme du Moulon, Gif-sur-Yvette, France, November.

University of Zurich Medical School, Switzerland, December.

Institut Pasteur, Paris, France, December.

WERNER-WASHBURNE, M.

Werner-Washburne, M. 2004. From 0 to 60 in seconds: Insights into the quiescent state in yeast. Pharmacy and Toxicology Department, UNM, March 1.

WOLF, B.O.

Columnar Cacti: a Keystone Resource for Avian Consumers? Department of Natural Resources and Environmental Science, University of Nevada, Reno NV.

Nutrient Dynamics in a Desert Bird Community: The Functional Importance of Columnar Cacti. Instituto de Biología, Universidad Nacional Autónoma de México, México DF.

Columnar Cacti: A Keystone Resource for Avian Consumers? Department of Biology, New Mexico State University, Las Cruces NM.

B. Testimony in a Scholarly Capacity at Hearings of Commissions, Legislative Committees, Etc.

GOSZ, J.R.

Council of University Presidents on the state of the NM EPSCoR Program

Interim Legislative Committee on Water and Natural Resources

NM Senate Conservation Committee

Governor’s Salt Cedar Task Force

Meetings with Congressional Staffers on issues of Forest Research Institutes, EPSCoR, NEON (Mike Collins, Eric Webb, Scott Miller, Joaquin Sanchez, Carol McGuire, Ricardo Bernal, Erik Einertson)

U.S. Senate Energy Commission hearing on Forest Institute Bill

Governor’s Task Force on Salt Cedar Control

Interagency Work Group on Watershed and Phreatophyte Control

Interagency Weed Action Group

State Engineers Office

NM Department of Economic Development

K-102
C. Presentation to General Audience in a Scholarly Capacity.

ALTENBACH, J.S.
"Bats and Abandoned Mines in New Mexico," an after-dinner talk presented to the Society of Mining Engineers of New Mexico, Socorro NM, November 21.

COLLINS, S.L.
Frequently give tours of the Sevilleta LTER to groups visiting the region or using the Field Station for a workshop.

COOK, J.A.
Presentation on "Bat Biology," fifth grade classes at Zia Elementary School, Albuquerque NM, October.

GOSZ, J.R.
MidAtlantic Regional NEON meeting
NM Midregion Council of Governments, EPSCoR program on Evapotranspiration
Socorro School District
Video production on the Sevilleta Field Station and LTER program.
EPSCoR Poster Display, New Mexico Capitol Building.

HANSON, D.T.
Spring: Biology Club, Department of Biology, UNM.

MARSHALL, D.L.
Denver Botanic Garden, Denver CO, April.
Young Scholars Program, Albuquerque NM, March.

TAKACS-VESBACH, C.
"A Microbial Inventory of Yellowstone National Park," an informal presentation and day in the field spent with students taking "Exploring Yellowstone's Microbes," a class given by Anna-Louise Reysenbach in Yellowstone National Park, July.

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.
Advisor to the Nature Conservancy on the Lava Cave bat colony, Socorro Co., NM.
BARTON, L.L.
Reviewed the microbiology program at Masaryk University, Czech Republic, by request of the Ministry of Education of the Czech Republic. Electronic review from August 1–15.

COLLINS, S.L.
Member, Cooper Award Committee, Ecological Society of America (ESA).
Reviewed proposals and advised managers at Sevilleta National Wildlife Refuge.
Served on NSF IGERT preproposal panel.
Reviewed five NSF proposals.

COOK, J.A.
External Reviewer, Graduate and Undergraduate Program Review, Biology and Wildlife Department, University of Alaska, Fairbanks AK, March.

Grant Proposal Reviewer:
CONICYT/FONDECYT, Chile (2)
National Science Foundation (2)

CRIPPS, R.M.
Regular member, American Heart Association Basic Cell & Molecular Biology, two study sections.
Regular ad hoc member, National Institutes of Health Skeletal Muscle Biology and Exercise Physiology study section.

DAHM, C.N.
Committee of Visitors panel member for review of the NSF Biocomplexity and the Environment Program, National Science Foundation, Ballston VA, February 25-27.


Valles Grande Preserve Science Advisory Symposium, Valles Grande NM, July 21-23.

Southwest Florida Water Management District (SWFWMD), Climate Variability and Setting Low Flow Criteria, Tampa Bay FL, October 21.

Member of the Science Steering Group (SSG) for the Global Water Budget Program of the U.S. Global Change Research Program (appointed November 2004).

GOSZ, J.R.
Consortium Building Committee of the NEON Planning Grant Effort; Bruce Hayden, and Bill Michener, PIs.
Advisory Council, USFS Forest and Range Expt. Station, Albuquerque Office.

Panel for Canada Foundation for Innovation (CFI)

Scientific Advisory Committee for the National Canopy Crane Facility of the U.S. Forest Service

Scientific Advisory Committee for the Smithsonian Environmental Research Center

Scientific Advisory Committee for the Southern Colorado Plateau National Park Service Network

Advisor, the Tennessee EPSCoR Program

Proposal Reviewer for NSF (6)

Proposal Reviewer for NASA panel (15)

Science Committee, BioResearch Consortium (Sandia National Laboratory–UNM–New Mexico state agency consortium)

Member, Scientific Advisory Committee for the Chinese Ecosystem Research Network

Member, EPSCoR Foundation

Technology Ventures Corporation, representing EPSCoR

University of Wyoming Field Station Program

Advisory Board, Smithsonian Environmental Research Center, Maryland (appointed).

HANSON, D.T.

Grant Reviewer for United States–Israel Binational Agricultural Research and Development Fund, December, 1 proposal reviewed.

HOFKIN, B.V.

Member, "Prairie Dog Task Force," City of Albuquerque, NM.

KODRIC–BROWN, A.

Review of proposal submitted by Shingo Murakami, Department of Neurology, UNM, for the Burroughs Welcome Fund–2005 Career Awards at the Scientific Interface.

LOWREY, T.K.

Member, New Mexico Rare Plant Technical Council.

Workshop on Flora Populations and Communities for the Southern Colorado Plateau.

K-105
Inventory and Monitoring Network, U.S. National Park Service, Northern Arizona University, Flagstaff AZ, April-6-7.

MARSHALL, D.L.
Panel Member, EPA STAR fellowships, March.

MILNE, B.T.
Member, Steering Committee, Center for Advanced Studies, UNM (S. Prasad, Chair)
Member, Steering Committee, Consortium of the Americas, UNM (N. Kenkre, Chair)
Participated in two-day NSF review.

Grant review, Marsden Fund, New Zealand

NELSON, M.A.

NIH Center for Biomedical Research Excellence (COBRE) Review for UNM Medical School and Main Campus pre-proposals.

Combined Degree (BA/MD) Task Force Retreat, chaired by Deans Paul Roth and Reed Dasenbrock of UNM Main Campus–Medical School, Albuquerque NM, September 21.

American Association for the Advancement of Science (AAAS), 4 research proposals
National Science Foundation, 1 research proposal

POCKMAN, W.T.
Proposal Reviews for:
  NSF IBN–Ecological and Evolutionary Physiology (2)
  NSF DEB–Ecology (1)
  National Geographic Research Exploration and Conservation (1)
  DOE National Institute for Global Environmental Change (1)

SINSABAUGH, R.L.
Member, DOE review panel for C-SiTE Program, Washington DC, December 7-8.

SNELL, H.L.
Member, The World Conservation Union (IUCN) Iguana Specialists Group.

General Assembly Member, Charles Darwin Foundation, Galápagos, Ecuador.

Member, New Mexico Department of Game & Fish Non-Game Review panel.
TAKACS-VESBACH, C.


TURNER, T.F.
Panelist, Doctoral Dissertation Improvement Grants, Division of Environmental Biology, Population Biology Program, National Science Foundation, February.

Reviewer, Grants in Systematics and Population Biology, National Science Foundation.


Member, Gila Trout Recovery Team, 2002–present.

Board of Governors, American Society of Ichthyologists and Herpetologists, 2002–present (elected).


WAGNER, A.
One each for NSF and NIH panels.

WAIDE, R.B.
Conferree in planning meeting for the National Environmental Observatory Network, August

WERNER-WASHBURNE, M.
NIH–NHGRI grant review panel, 2001–06

National advisory committee, LTER, 2002–04

E. List Journals and the Number of Papers You Refereed for Each in 2004.

BARTON, L.L.

*Anaerobe* (6)
*Applied and Environmental Microbiology* (4)
*Canadian Journal of Microbiology*, (3)
BROWN, J.H.

Evolutionary Ecology Research (1)
Native (3)
Proceedings of the National Academy of Sciences (2)
Proceedings of the Royal Society of London (1)
Science (1)

CADAVID, L.F.

Molecular Phylogenetics and Evolution (1)

COLLINS, S.L.

American Naturalist (1)
Community Ecology (1)
Ecology (5)
Ecology Letters (3)
Journal of Ecology (2)
Nature (1)
Oecologia (1)
Oikos (3)
PNAS (2)
Science (1)

COOK, J.A.

Ecology (1)
Evolution (1)
Journal of Mammalogy (1)
Molecular Ecology (2)
Molecular Phylogenetics and Evolution (1)

CRIPPS, R.M.

Gene (1)
Molecular and Cellular Biology (2)
Mechanisms of Development (1)
Proceedings of the National Academy of Sciences (1)

DAHM, C.N.

Ecology (1)
Freshwater Biology (2)
Hydrological Processes (1)
Journal of the North American Benthological Society (1)
Limnology and Oceanography (2)
Journal of the American Water Resources Association (1)

GOSZ, J.R.

Ecology (3)
Journal of Vegetation Science (1)

HANSON, D.T.
Plant, Cell and Environment (1)

HOFKIN, B.V.
American Journal of Tropical Medicine and Hygiene (1)
Bioresource Technology (1)

KODRIC-BROWN, A.
American Naturalist (2)
Animal Behaviour (4)
Behavioral Ecology (2)
Behavioral Ecology and Sociobiology (3)
Environmental Biology of Fishes (2)
Evolution (1)
Journal of Evolutionary Biology (1)
Proceedings of the Royal Society of London, Series B (3)

LOKER, E.S.
Developmental and Comparative Immunology (3)
Journal of Parasitology (1)

LOWREY, T.K.
American Journal of Botany (1)
Bulletin of the Torrey Botanical Club (1)
Taxon (2)
Wildland Shrub Manual, USDA Forest Service (2 chapters)

MARSHALL, D.L.
American Journal of Botany (1)
American Naturalist (1)
Annals of Botany (2)
Evolution (1)
Journal of Ecology (1)
New Phytologist (1)

MILLER, R.D.
Developmental and Comparative Immunology (1)
Immunogenetics (9)
Journal of Immunology (3)

MILNE, B.T.
Book chapter, “Complexity, System Integration, Etc.”
Landscape Ecology (1)
Royal Academy of New Zealand (1)

MOLLES, M.C., JR.
Journal of the North American Bentholological Society (1)

NATVIG, D.O.
Fungal Genetics and Biology (1)
Mycologia (8)

NELSON, M.A.
Applied Bioinformatics (1)
Eukaryotic Cell (1)
Fungal Genetics and Biology (5)

POCKMAN, W.T.
Ecological Applications (1)
Ecosystems (1)
Functional Ecology (1)
Global Change Biology (1)
Journal of Arid Environments (1)
Oecologia (1)
Physiologia Plantarum (1)
Plant Cell and Environment (1)
Tree Physiology (1)
TREES: Structure and Function (1)

SINSABAUGH, R.L.
Applied and Environmental Microbiology (1)
Applied Soil Ecology (4)
Canadian Journal of Fisheries and Aquatic Sciences (1)
Ecosystems (1)
Freshwater Biology (3)
Hydrobiologia (1)
Microbial Ecology (1)
Pedobiologia (1)
Soil Biology and Biochemistry (7)

SNELL, H.L.
Noticias de Galápagos (1)

STRICKER, S.A.
Development (1)
Developmental Biology (2)
Journal of Cell Science (2)
Molecular Reproduction and Development (1)
TAKACS-VESBACH, C.
Extremophiles (1)
Journal of the North American Benthological Society (1)

THORNHILL, R.
Numerous journals in evolutionary biology and ecology, and psychology.

TURNER, T.F.
National Science Foundation proposals (apart from panel service) (2)

Canadian Journal of Fisheries and Aquatic Sciences (1)
Evolution (1)
Journal of Biogeography (1)
Marine and Freshwater Research (2)
Molecular Ecology (1)
Proceedings of the Royal Society London, Series B (2)
Southwestern Naturalist (1)

VOGEL, K.G.
Journal of Histochemistry and Cytochemistry (1)
Journal of Orthopaedic Research (1)

WAGNER, A.
Bioinformatics (1)
BMC Bioinformatics (1)
Brain and Behavior (1)
Genome Research (2)
Journal of Experimental Zoology—Molecular and Developmental Evolution (1)
Journal of Molecular Biology (1)
Journal of Theoretical Biology (2)
Nature (1)
Nature Biotechnology (1)
Nature Genetics (1)
PLoS (Public Library of Science) Biology (1)
Proceedings of the Royal Society London, Series B (1)
Proteomics (1)
Science (1)
Trends in Genetics (2)

WOLF, B.O.
The Auk (1)
Australian Journal of Zoology (1)
Biocscience (1)
Comparative Biochemistry and Physiology (2)
The Condor (1)
VI. NON-TEACHING UNIVERSITY, COLLEGE AND DEPARTMENT SERVICE.

A. Symposia, Workshops, Conferences, Etc., Sponsored, Hosted, Organized.

BROWN, J.H.
Co-organizer, Workshop on Biodiversity Scaling, Prague, Czech Republic, October 18-22.


Co-organizer, "Scaling Biodiversity" Symposium, Santa Fe Institute, Santa Fe NM.

COLLINS, S.L.
Co-hosted some of the workshops held at the Sevilleta LTER and helped organize the LTER Meeting of 100 as part of our two-year planning activities.

DAHM, C.N.
LTER Network Sponsored intersite workshop on riparian zones and processes, Sevilleta Field Station, Soccoro NM, November 12-13.

GOSZ, J.R.
Long Term Ecological Research Program Meeting of 100 to initiate the LTER Planning Program, Florida, November 10-13.


LTER Coordinating Committee Conferences (2)

LTER Executive Committee Conferences (2)

LTER Strategic Planning Conference

KODRIC-BROWN, A.
Organized mini-symposium in honor of retiring UNM Department of Biology Professor J. David Ligon, December 10. Speakers and attendees were Dr. Ligon's former students and collaborators (Drs. Peter Stacy (UNM), Steve Zack (Wildlife Conservation Society), Randy Thornhill (UNM), Marlene Zuk (UC-Riverside), Timothy Parker (Kansas State University) and Rebecca Kimball (University of Florida).
LOKER, E.S.
Center of Biomedical Research Excellence (COBRE): Center for Evolutionary and Theoretical Immunology (CETI) External Advisory Committee Meeting, the Santa Fe Institute (SFI), Santa Fe NM, March 27.

THORNHILL, R.
Organized the seminar series for the Human Evolutionary Behavioral Sciences program at UNM.

TURNER, T.F.
Co-Organizer, Roger Conant Memorial Symposium, Museum of Southwestern Biology and Department of Biology, UNM, May.

WERNER-WASHBURNE, M.
Chair, Local Organizing Committee: SACNAS National meeting, October 2-5, Albuquerque NM.


B. Distinguished Departmental Visitors You Hosted.

BARTON, L.L.
Prof. W Allan Hamilton, Vice-Principal (Vice-president) at the University of Aberdeen, Scotland.

BROWN, J.H.
Geerat Vermeij, Professor of Marine Ecology and Paleoecology University of California, Davis CA, "Toward a Theory of Extinction."

Daniel Costa, Professor, Biology Associate Director, Institute of Marine Sciences University of California, Santa Cruz, "The Importance of Body Size in the Foraging and Reproductive Patterns of Marine Mammals."


Walter Dodds, Professor, Division of Biology, Kansas State University, Manhattan KS, "Laws and Predictions in Ecology."

Joseph Vallino, Assistant Scientist, Marine Biological Lab, Woods Hole MA, "Viewing Microbial Biogeochemistry as a Distributed Metabolic Network Governed by Thermodynamics."

Dan Rubenstein, Research Assistant, University of Massachusetts, Amherst MA, "The Dynamics of Multi-Agent Systems in Space and Time: Comparing Idealized with Real Animals."
CADAVID, L.F.
Fall: Uri Frank, University of Heidelberg, Germany

COLLINS, S.L.
I hosted two highly distinguished visitors.

DAHM, C.N.
Dr. Roy Haggerty, Oregon State University, April 23.
Dr. Matthias Rillig, University of Montana, April 29.
Dr. Klement Tockner, EAWAG, Switzerland, November 11.
Dr. Peter Jacobson, Grinnell College, December 2.

GOSZ, J.R.
American Association for the Advancement of Science review team for the state EPSCoR program.

HANSON, D.T.
Dr. Ulfar Bergthorsson, Indiana University, job candidate for Comparative and Evolutionary Genomics position in Department of Biology, The University of New Mexico, March.
Dr. Robert Sharwood, Australian National University, seminar speaker, Department of Biology, The University of New Mexico, August.
Dr. Steven Rice, Union College, seminar speaker, Department of Biology, The University of New Mexico, December.

KODRIC-BROWN, A.
Spring: Lisa Rappaport, Research Associate, UNIAO Reserve, Rio de Janero, Brazil, "Development of Foraging Behavior in the Golden Lion Tamarins of the UNIAO Reserve, Rio de Janero, Brazil," Brown Bag Seminar, Department of Biology, UNM.

LOWREY, T.K.
Dr. Richard Noyes, Department of Environmental, Population, and Organismic Biology, University of Colorado, Boulder CO.
Dr. Donovan Bailey, Department of Biology, New Mexico State University, Las Cruces NM.

MILLER, R.D.
Dr. Kathy Belov, Australian Museum
Dr. Teena Browning, Macquarie University, Sydney
Dr. Janine Deakin, Australian National University
Dr. Elizabeth Dean, Macquarie University, Sydney
Dr. Lars Hellman, Uppsala University
Dr. Dave O'Connor, University of Sydney
Dr. Mike Westerman, La Trobe University, Victoria

MILNE, B.T.
Professor Vijay K. Gupta, CIRES, University of Colorado, Boulder CO.

SINSABAUGH, R.L.
Mark Waldrop, University of Michigan, February 2-9.
Mike Weintraub, University of Colorado, November 5-15.

TURNER, T.F.
Dr. Joseph Mitchell, Research Scientist, Department of Biology, The University of Richmond, Richmond VA. Keynote Speaker, Roger Conant Memorial Symposium, May.

WERNER–WASHBURNE, M.
Dr. Linda Breeden, Fred Hutchinson Cancer Research Center, Seattle WA, November.

WOLF, B.O.
Keith Hobson, Environment Canada

C. Committee Service.

1. Departmental committees served on in 2004 (indicate chair with asterisk).

ALtenbach, J.S.
Undergraduate Policy Committee

Barton, L.L.
*Graduate Student Scholarship Program
Undergraduate Advisement

Brown, J.H.
Scholarship Committee

Cadavid, L.F.
* Biology Honors Committee
Comparative Immunologist Search Committees I and II

Collins, S.L.
Graduate Selection Committee
Grove and Springfield Scholarship Committee
Center for Environmental Research, Information and Art (CERIA) Space Committee
COOK, J.A.
Comparative/Evolutionary Immunology Faculty Search Committee 2004–2004
Departmental Graduation Ceremony Committee
Board of Curators, Museum of Southwestern Biology, 2003–04

COUCH, L.
* Graduation Committee
Lecturer Search Committee
Undergraduate Advising
Display Case

COUNCIL–GARCIA, C.L.
Lecture II Search Committee
Undergraduate Academic Advising Committee
Undergraduate Core Curriculum Committee

CRIPPS, R.M.
* Molecular Biology Facility
Undergraduate Advisors

DAHM, C.N.
* Space Committee

FRIDRICK, C.O.
Spring: 2004 Biology Research Day Committee
Fall: 2005 Biology Research Day Committee (minimal time commitment)
2005 Biology Graduation Committee (minimal time commitment)

HANSON, D.T.
* New Graduate Student Orientation Committee
Greenhouses Committee
* Biology Department Seminars (sole member)
Evolutionary and Theoretical Genomics Faculty Search Committee
BGSA Faculty Advisor, 2003–04

HOFKIN, B.V.
Departmental Publicity Committee
Graduation Committee

KODRIC–BROWN, A.
Annual Research Day Committee
* Graduate Policy
Space Committee

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LOWREY, T.K.
Graduate Student Selection Committee
Scholarship Committee
MSB Board of Curators, Museum of Southwestern Biology
Space Committee, Museum of Southwestern Biology

MARRSHALL, D.L.
* Greenhouse Committee
Graduate Student Selection Committee

MILLER, R.D.
*Comparative Genomics Faculty Search Committee, Spring
*Comparative Immunology Faculty Search Committee, Fall
Graduate Policy Committee, Spring
Scholarship Committee, Fall

MILNE, B.T.
Graduate Selection Committee
Library Liaison
Co-chair, Honors (through May 2004)
Member, Biol. 203 (Ecology and Evolution) Reorganization Committee

NATVIG, D.O.
Tenure and Promotions Committee

NELSON, M.A.
* 2004 Research Day Committee (co-chair)
Comparative and Evolutionary Genomics Search Committee
Lecturer III Search Committee

POCKMAN, W.T.
Biology Society of New Mexico Committee, Spring
Greenhouse Committee
*Undergraduate Policy Committee, Fall

POE, S.
Space Committee

SINSABAUGH, R.L.
Sevilleta Field Station Lab Building Committee
Sevilleta LTTER Scientific Advisory Committee
Museum of Southwestern Biology Executive Committee
SNELL, H.L.
*Tenure and Promotion Committee

STRICKER, S.A.
*2005 Annual Research Day Committee (co-chair)

SWAN, J.
Undergraduate Policy Committee

TAKACS-VESBACH, C.
* 2004 Annual Research Day (co-chair with Sandra Ligon)
Graduate Policy Committee
Center of Biomedical Research Excellence (COBRE) Center for Evolutionary and Theoretical Immunology (CETI) Search Committee for second UNM Biology hire.

THORNHILL, R.
Graduate Policy Committee
Tenure and Promotion Committee

TOOLSON, E.C.
* Computers and Web Site
* Undergraduate Policy Committee

TURNER, T.F.
Ad-hoc Vehicle Committee
Graduate Policy Committee
Museum of Southwestern Biology (MSB) Executive Committee
MSB Publications Committee
Space Committee

VOGEL, K.G.
Tenure and Promotion Committee
Planning for Success, Excellence and Distinction (SEED) Planning Committee

WAGNER, A.
Computer Committee
* Graduate Student Selection Committee

WAIDE, R.B.
CERIA Space Committee

WERNER-WASHBURNE, M.
Faculty Advisory Committee: Diversity Programs, College of Engineering
Space Committee, Biology Department

K-118
Tenure and Promotion Committee, Biology Department
Lecturer II Search Committee, co-chair, Biology Department

WOLF, B.O.
Field Studies Committee

2. College/University committees served on in 2004 (indicate chair with asterisk).

BARTON, L.L.
Admissions and Registration Committee

CADAVID, L.F.
New Mexico Alliance for Graduate Education and the Professoriate (NM-AGEP) Steering Committee

COUCH, L.
* Faculty Senate Undergraduate Committee
Faculty Senate Teaching Enhancement Committee

CRIPPS, R.M.
Faculty Senate
UNM Radiation Safety Committee

DAHM, C.N.
Senior Scientist in the Environmental Sciences Search Committee; search chair Dr. Jack McIver of the Office of Research.

UNM alternate (to Dr. Julie Coonrod) to the Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSTI) by UNM Vice-Provost for Research.

GOSZ, J.R.
Federal Priorities Committee: This committee annually develops the list of infrastructure submitted to our Congressional delegation for funding. In recent years I have been the contact and helped promote requests with our members of Congress for funds to develop a Southwestern node for the NBII and a research laboratory at the Sevilleta LTER Field Station. Both have been successful.

Large Project Planning Committee: This committee reviews and guides the development of major proposals (multi-million dollar efforts) from the University to various funding agencies. The committee works with appropriate faculty to develop proposals and performs “Red Team” reviews of proposals before submission.

HANSON, D.T.
External Advisory Board, Mass Spectrometry Facility, UNM

K-119
MARSHALL, D.L.
Academic Freedom and Tenure Committee

MILLER, R.D.
2004 A&S Junior Tenure and Promotion Committee (second year of two-year term)
2004 Regents' Lecturer Selection Committee

MILNE, B.T.
A&S Senior Faculty Tenure and Promotion
Member, Steering Committee, Center for Advanced Studies, UNM (S. Prasad, Chair)
Member, Steering Committee, Consortium of the Americas, UNM (N. Kenkre, Chair)
Participated in two-day NSF review.

MOLLES, M.C., JR.
* Museum Studies Committee
* Southwest Hispanic Director Search Committee*
UNM Land Committee

NATVIG, D.O.
New Sevilleta Research Station Building Planning Committee

NELSON, M.A.
NIH Center for Biomedical Research Excellence (COBRE) Review Committee
Sun–Earth Connections (SEC) Program Committee
Albuquerque High Performance Computing Center (AHPCC) Associated Faculty Group (Charter member)
Genomics Facility User Group (UNM Medical School)
Member, Action Team for Science, Technology, Engineering and Mathematics (STEM)
Member, Steering Committee, Southwest Graduate Coalition Bridges to the Doctorate Program
MIRT (Minority International Research Training) Advisory Committee

SNELL, H.L.
University Scholarship Committee
Faculty Senate
Coordinator, Collaborative Program in Conservation Biology with the Charles Darwin Foundation, 1997–present.
BOARD OF CURATORS, MUSEUM OF SOUTHWESTERN BIOLOGY, DEPARTMENT OF BIOLOGY, UNM

STRIKER, S.A.
Supervisory Board, IGERT Optics Program.

TAKACS-VESBACH, C.
Alliances for Graduate Education and the Professoriate (AGEP), Fall 2003- (appointed).

WAGNER, A.
Center for Advanced Study Steering Committee

WAIDE, R.B.
Research Allocation Committee, UNM.

Member, Ad Hoc Committee on the Research Faculty Plan, College of Arts and Sciences, UNM.

WERNER-WASHBURNE, M.
Faculty advisor, The American Indian Science & Engineering Society (AISES).

Faculty advisory committee for PROFOUND/CUGR office, A&S and Engineering

Advisor to the Cancer Center on issues of Native American Cancer Outreach and Education.

WOLF, B.O.
Institutional Animal Care and Use Committee

OTHER

COUNCIL-GARCIA, C.L.
Editor for Benjamin-Cummings Biology Computer Simulations.

CRIPPS, R.M.
Advisory Committee for COBRE renovation.

HOFKIN, B.V.
Served as a faculty mentor for Christine Fridrick, Lecturer II, in our department.

MARSHALL, D.L.
Botanical Society of America Publications Committee

Departmental mentor to William T. Pockman and David Hanson.
MILNE, B.T.
Regional Judge, Northwestern New Mexico Regional Science and Engineering Fair, March 19.

SNELL, H.L.
Charles Darwin Foundation and the Galápagos National Park Service:
  - Ecological Monitoring Development Coordinator
  - Geographical Information Systems Supervisor
  - Review 5–10 proposals for research permits per year for the Galápagos National Park Service

STRICKER, S.A.
Chair, Illg Distinguished Lecturer Committee, University of Washington
Member, Friday Harbor Laboratories Advisory Board, University of Washington

VII. ADVANCED STUDY AND NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

LOKER, E.S.
UNM Regents’ Professorship, 2003–

LOWREY, T.K.

Research Associate, Missouri Botanical Garden, St. Louis MO.

MOLLES, M.C., JR.
Invited as speaker at special symposium honoring the distinguished ecologist, the late Ramon Margalef, to be held in Barcelona, Spain, November 2005.

POCKMAN, W.T.
Appointed Profesor Docente Libre de la Facultad de Agronomía, 2004–present, Universidad de Buenos Aires, Buenos Aires, Argentina (an uncompensated appointment to allow me to teach a short graduate course in 2005).

SNELL, H.L.

Conservation Fellow, Conservation Institute of the St. Louis Zoo, St. Louis MO, 2003–present.

WERNER–WASHBURNE, M.
Chosen one of nine Latinas in the U.S. to represent The American Association for the Advancement of Science (AAAS) at international scientific meetings.
VIII. SABBATICALS, LEAVES OF ABSENCE, SUMMER TEACHING ELSEWHERE, TRAVEL, ETC., DURING THE PERIOD.

COOK, J.A.
Fieldwork, Katmai National Park, Alaska, July.
Fieldwork, Siberia, August.

COLLINS, S.L.
Took an exploratory research visit to Kruger National Park, South Africa.

COUCH, L.
Traveled to Belize as part of Biol. 461L, Introduction to Tropical Biology, April.

Cripps, R.M.
Fall: Sabbatical Leave

GOSZ, J.R.
Montreal, Canada

HANSON, D.T.
Travel: Los Alamos National Laboratory for collaborative research with Dr. Nate McDowell. Multiple trips in June and July.

LOKER, E.S.
Field work, Kenya in November.
Field work, Australia and Kenya, May and June.

LOWREY, T.K.
Week-long trip to Belize with students as part of Biol. 461, Introduction to Tropical Biology, March.
Field Research, South Africa, October 1-18.

POCKMAN, W.T.
Research Semester, Spring.
Travel, Argentina, Fall.

POE, S.
Field work in Panama and Peru.
SNELL, H.L.
Re-assignment to the Charles Darwin Research Station (CDRS) as Director of Science Programs under collaborative agreement between Biology Department and the CDRS.

STRICKER, S.A.
Sabbatical Research: “Kinase Activities During Oocyte Maturation”, Friday Harbor Laboratories, WA, January–August.

TAKACS-VESBACH, C.
Maternity Leave, Fall semester.

THORNHILL, R.
Travel: field work for five weeks in Dominica, West Indies.

TURNER, T.F.
Sabbatical leave, AY 2004–05, based in Perth, Australia at the University of Western Australia
Accomplishments:
- Successfully developed research partnerships at the University of Western Australia, Centre for Riverine Landscapes–Griffith University (Queensland, Australia), and the Arthur Rylah Institute for Freshwater Ecology in Melbourne, Australia.
- Research Seminar at the University of Western Australia, November.
- Research Seminar at the University of Adelaide and the South Australian Museum, November.
- Travel to Adelaide Australia, to sample more than 80 museum specimens for study of historical fish food webs in the Murray-Darling River systems, November.
- Planned research visits to Australian Museum, Queensland Museum, Museum Victoria in January, February, and March 2005, respectively.
- Planned field work in the Murray River in May 2005 with personnel from the Arthur Rylah Institute.

VOGEL, K.G.
Sabbatical, Friday Harbor Laboratory, Friday Harbor WA, August 2003–May 2004.

WAGNER, A.
One-year sabbatical (Fall 2004–Spring 2005) at the Institut des Hautes Etudes, Bures-sur-Yvette, France.

WOLF, B.O.
Research Semester, Spring
IX. PUBLIC SERVICE.

BROWN, J.H.
Science Advisory Committee, Malpais Borderlands Groups.
Board of Trustees, The Nature Conservancy of New Mexico.
Science Steering Committee, Santa Fe Institute, Santa Fe NM.

COLLINS, S.L.
Helped organize the Sevilleta LTER and general LTER presentation at the annual State Fair of New Mexico.
Met with public school teachers from Belen and Socorro to develop closer ties between Sevilleta LTER and science curriculum activities.

COOK, J.A.
Presentations to Klawock High School and Hollis Grade School, Alaska, on Natural Resource Management and Native Education, with Ed Galindo (ShoBan Tribes), May.

DAHM, C.N.
State Science Fair Judge, New Mexico Science and Engineering Fair, Socorro NM, April 3.

HOFKIN, B.V.
Continued writing, editing, producing, and airing “Today’s BioCast” on KANW, 89.1 FM as a volunteer to this APS-owned public radio station. The program also airs on KSFR, a Santa Fe public radio station. This two-minute feature, detailing recent discoveries in biology, airs three times a week and is underwritten by the Department of Biology, UNM.

LOWREY, T.K.
Initiated and facilitated the New Mexico High School Academic Decathlon to be administered by UNM.

MILNE, B.T.
Elected Member of the Board, U.S. Green Building Council, NM Chapter
Chair, Events Committee:
• Organizer, GreenBuilt Tour 2005. A tour of 18 sustainable homes in Albuquerque and Santa Fe. Collaborated with EcoVersity to expand the tour to Santa Fe for the first time. Innovated the Green Makeover to be awarded during the tour. Tour budget is approximately $10,000. This effort requires more than 10% of my time.
NELSON, M.A.
Judge for the 2004 Annual Biomedical Research Conference for Minority Students (ABRCMS)

SNELL, H.L.
Member of the City of Albuquerque Prairie Dog Task Force.

Constant activity promoting the conservation of the Galápagos National Park.

SWAN, J.
Komen Race for the Cure (breast cancer) participant.

THORNHILL, R.
Advisor for New Mexicans for Science and Reason.

Advisor for TV documentaries by three TV companies on topics related to human evolution.

TURNER, T.F.
Quantum (UNM's publication on Science and Technology) article on Conservation Genetics of Rio Grande silvery minnow. Prepared and edited text. Article forthcoming.

Service on three recovery teams for endangered species: two in an advisory role (Apache trout, Rio Grande silvery minnow), and one as a full member of the team (Gila trout). These teams involve federal, state, and local policymakers, scientists, and other stakeholders and are charged with developing steps to recover, downlist, and delist federally endangered species.

Membership on the Interim Steering Committee for the Middle Rio Grande Endangered Species Act Collaborative Program; charged with overseeing management and conservation issues in the Rio Grande while attempting to balance water needs at the state, federal, and international level.

WERNER-WASHBURNE, M.
Help organize Native American Cancer Education and Outreach through UNM HSC Cancer Center.

Set up Initiatives to Maximize Student Diversity (IMSD) fund for supporting students through donations of former IMSD students.

UNM-MIRT advisory board (Fogerty Grant).

Helped Cuba High School students with scholarship applications.

Informal mentoring to students at many institutions around the U.S. and especially in N.M.
Significant Developments During the Academic Year, 2004-2005

Faculty Search  Ed Walters retired the summer of 2004, and the department carried out a search for a physical chemist to replace him. Four finalist for this position were interviewed in February 2005, and an offer was extended to Dr. Ritesh Argarwal. Dr. Argarwal eventually turned the offer down, and the next two candidates on the list had accepted position by the time they were contacted. A new search was initiated, with the interviews to be held in the summer of 2005.

Code 3  A code 3 review of John Engen was carried out. The tenured members of the department voted unanimously to renew John's contract. John has gotten off to a great start at UNM, and shows promise to become a truly outstanding faculty member. John's contract was extended on the basis of this positive review.

Promotion  In May 2005 Bob Paine was promoted to the position of Distinguished Professor.

Graduate Program  Much effort was put into a restructure of the graduate program during the 2003-2004 academic year. The graduate class that entered in fall 2004 was the first class to start under the restructured program. The largest change in the new program is a series of new "core" courses. This new series of core courses was well received. However, one of the goals of the new course sequence was to better equip the students with poorer preparation for graduate school in chemistry to pass the proficiency requirements. In the long run this goal might be achieved, but the students who would have been predicted to have trouble with the proficiency requirement based on their performance as undergrads still had trouble with the proficiency requirements.

The department is continuing to attempt to fine tune the research proposal requirement. The goal is to assure that the research proposal stresses creativity on the part of the student, but does so without an enormous increase in the amount of time required of the student relative to the amount of time they now spend on this requirement. A change was made giving more
- flexibility on when the student attempts the research proposal. Also, a minor change was adopted in the make up of the committee that carries out the examination phase of the research proposal was instituted.

**Major Instrumentation Facilities** Members of the Chemistry Department, most specifically Chris Enke and John Engen, have put forth considerable effort trying to establish a Mass Spectrometer Facility in the Chemistry Department. Funding to establish this facility was largely secured during the 2003/2004 academic year. Two mass spectrometers were ordered, and were installed in the fall of 2004. One of the mass spectrometers is designed to serve the needs of scientists needing exact mass measurements, and the second is specifically configured to study proteins. A search was carried out in the fall of 2004 to hire a director for the center. Azeem Hasan was hired for this position and the center was opened early in 2005.

A proposal (lead PI is Kemp) to acquire a state-of-the-art single crystal X-ray diffractometer was submitted to the NSF in January of 2004. This proposal was successful, and a new diffractometer was ordered. The department took delivery of the new diffractometer in the spring of 2005, and it was fully operational by the start of June.

**Graduate Recruitment** Recruitment of high quality graduate students remains a considerable challenge for the Chemistry Department. Nationally there are approximately half the number of undergraduate chemistry majors turned out as there are openings in graduate programs in Chemistry. In the last two decades graduate programs have fiercely recruited domestic students, but have had to heavily rely on foreign students to make up first-year graduate classes in chemistry. The entering graduate classes in Chemistry at UNM have been 60% plus Chinese for more than a decade.

The department continues to put a large effort into graduate recruitment under the leadership of Graduate Recruitment Committee chair, Prof. Dunaway-Mariano. A number of other faculty members have worked hard on this effort. Of particular note, the committee put more effort into recruiting international students from counties other than China. This broadened effort has resulted in six foreign students in the class entering fall 2005 from other than China.

There is continuing need to increase the stipends of the graduate assistants in chemistry. The regional salaries are 2-3k per year higher then what we are offering, making it very difficult to recruit domestic students, and increasingly hard to recruit foreign students.
Significant Plans and Recommendations for the Near Future

Future Hiring  The chemistry department needs to reinitiate the search for a physical chemist that was unsuccessful during the 2004/2005 academic year. This search was to result in the replacement of Ed Walters, who retired in the summer of 2004. Further, the department is faced with a number of retirements in the next two years (Morrow, Enke, and Niemczyk), and perhaps three/four more (Deck, Paine, Holder, Pat Mariano) on a three/four year timetable. Richard Watt is going to sign an agreement where he moves off the tenure track, so will be given a terminal contract for the 2005/2006 academic year. Finally, Paul Bentley will be up for a Code III evaluation this coming January. Given his lack of progress, it is highly likely that the department faculty will recommend that he not be given a contract renewal. Given the difficulty and costs of hiring chemistry faculty, there could be a significant shortage of faculty in approximately three years if plans are not adopted to deal with the retirements/departures of current faculty.

Space  The construction of the Science and Math Learning Center will alleviate the problems with shut outs in the freshman and organic laboratories. Moving these courses into the new facilities will result in three laboratories in the current building being vacated. Room 150, the current organic laboratory, will be maintained as an undergraduate laboratory. Chemistry 415 will use this lab in the fall, and the department is in the process of developing a bio-organic laboratory course that would also use this room. The two freshman laboratories, rooms 107 and 207, will also be vacated, and represent space that could be used for future expansion of the department. Funding should be sought to renovate this space into modern research/office space.

Graduate Student Stipends  The stipends offered by the Chemistry Department to teaching assistants are low relative to other schools in the region, or relative to our peer institutions. The low salary makes it especially hard to recruit well trained and motivated domestic students. Initially, this negatively impacts the instructional program of the department because poorly trained and, perhaps, not highly motivated students are serving as laboratory instructors in the Department. In the longer run, it hurts the research program of the department. The level of the stipends must be increased to the point where our program is attractive to well-trained domestic students.
Separations/Hires of Staff

Michele Penhal left the department in the fall of 2004 to assume a position in the University Art Museum. Michele had served the department for many years, most recently as the student coordinator.

A search was carried out to replace Michele, and Deborah Moore was hired to assume the vacant position. Deborah assumed the position in December of 2004.

Dr. Azeem Hasan was hired to be the director of the UNM Mass Spectrometer facility. He assumed this position in February of 2005.

PUBLICATIONS

Brozik, James


Cabaniss, Stephen


**Dunaway-Mariano, Debra**


Engen, John

Enke, Christie

Guo, Hua
H. Li, D. Xie, and H. Guo, J. Chem. Phys., 121, 4156 (2004), An ab initio potential energy surface and vibrational states of MgH2(11A').


H. Li, D. Xie, and H. Guo, J. Chem. Phys., 122, 144314 (2005), A reliable ab initio potential energy surface and vibrational states for the ground electronic state of HgH2(11S+g).

Keller, David


Kemp, Richard


Kirk, Martin


**Mariano, Patrick**


Niemczyk, Thomas M.


Paine, Robert T.


**Tierney, David**


**Wang, Wei**


Watt, Richard


Outside sponsored research

Bentley, Paul
Sandia National Laboratories: $40,000. The Study of Chiral & Non-chiral Polymer Degradation Initiated by Physically Distant Degrading Polymers. 10/01/04-09/30/05.

Brozik, James
AFRL: $184,657. Jason Marshal, IPA. 11/01/03-10/31/05.
Sandia National Laboratories: $33,011. Spectroscopic Characterization of Transmembrane Protein Reactivity/Restructuring within Lipid Layers and/or Whole Cells. 2/18/03-08/31/05.

Los Alamos National Laboratory: $55,255. Membrane Bound Amphiphilic & Biamphiphilic Oligomers with Photo-initiated Electron & Energy Transfer Properties. 04/04/03-04/04/05.

Los Alamos National Laboratory: $65,000. Amphiphilic Oligomers with Photo-initiated Electron & Energy Transfer Activity. 06/10/05-06/09/08.

SAIC: $$29,175. Photoisomer Dynamics: Novel Optically Actuated Materials. 01/03/05-08/30/05.

**Deck, Lorraine**
NIH: $298,668. Irreversible Inhibitors of Cholesterol Esterase. 02/15/02-02/14/08.

ASU: $756. Synthesis of Substituted Tetralones of Inhibitors of NFkB & LDH 1/20/04 – 1/19/05

ASU: $756. Synthesis and Inhibition of Inhibitors 8/25/04 – 8/24/05

ASU: $756. Design of Methylhemigossypol for Biological Studies 1/18/05 – 1/17/06

ASU: $756. Design and Synthesis of Dehydrogenase Inhibitors 6/1/04 – 8/30/05

UNM Research Allocation Committee: $7,679. Curcumin Analogs as Anticancer Agents. 01/12/05-09/30/05.

**Dunaway-Mariano, Debra**
NIGMS: $998,298. Enzyme Mechanisms. 02/01/98-05/31/06.

NIH: $603,592. Mechanisms and Inhibition of Pyruvate Phosphate Dikinase. 04/01/02-03/31/06.

NIH: $302,463. Phosphonatase. 04/01/00-03/31/05.

**Engen, John**
NMSU: $60,000. Protein Folding/Refolding During Mitochondrial Import 9/30/03-6/31/04

NIGMS/NIH/DHHS: $580,791. Structural Dynamics of Src-Family Kinase Activation 4/1/04-3/31/06
NIH: $283,500. Arrestin Activation Proed with Mass Spectrophotometry 4/1/04-3/31/06

INBRE: $75,000. 7/1/05-6/30/06

INBRE: $35,000. 7/1/05-6/30/06

Enke, Chris
INBRE: $30,000. 7/1/05-6/30/06

MDS Sciex: $88,300. MS/MS of Everything All of the Time 7/1/04-6/30/06

MDS Sciex: $88,300. MS/MS of Everything All of the Time 6/30/05-6/30/06

Evans, Debi
Dreyfus: $47,177.42. Computational Methods for Undergrad Instruction & for Electron Transport in Dendrimer Arrays 6/15/00-6/14/05

Guo, Hua
NSF: $171,550. Collaborate Research of Proton Transfers in Enzymes: A Synergetic Theory-Experiment Approach 9/01/03-8/30/06

NSF: $255,000. Theoretical Studies of Spectroscopy and Dynamics of Molecular Systems 4/1/04 – 3/31/06

NSF: $350,378. Acquisition of a HiPer Shared MemCluster for Computational Science & Engineering 9/1/04-8/31/07

NSF: $150,162. Acquisition of a HiPer Shared MemCluster for Computational Science & Engineering 9/1/04 – 8/31/07

Keller, David

Kemp, Richard
ICES: $13,769. 8/1/04-10/31/04

NSF: $277,195. Fixation of CO2 for Use in Radiopharmaceutical 8/1/04-10/31/04

SNL: $145,395. Sulfur Management for Automotive Catalysts 11/22/02- 11/30/05
- NSF: $60,000. Inorganic Chemistry Workshops 4/15/04 – 3/31/06

SNL: $19,780. Synthesis and Characterization of Nanoparticles 1/1/05 – 9/30/05


NSF: $193,813. Purchase of X-Ray Diffractometer 4/14/04 – 3/31/06

NSF: $32,373. Inorganic Chemistry Workshops 4/11/05 – 9/30/05

Martin Kirk
NIGMS: $908,637. Spectroscopic Studies of Molybdoenzymes and Models Role 6/01/02 – 5/31/06

ACS: $9,887. Metal-Ligand Redox Interplay & Molecular Bistability in Quinoxaline-Bases Complexes 6/1/02-8/31/04

LANL/UNM/JSTL: $75,000. Unusual Metal Ligand Redox Interplay in 4f Element Metallocene Based Molecular Magnetic Materials

Mariano, Patrick
NSF: $360,000. Synthetic Pyridinium Salt Photochemistry 03/01/05-02/28/08

NSF/KOSEF: $28,695. Cooperative Program on Electron Transfer 12/01/01-11/30/05

NIH/Univ. of Md: $3,017,261. Giardia Drug Targets Structure Function (Co-PI) 02/01/05-01/31/10

NSF: $773,055. Preparative Electron Transfer Photochemistry 03/01/06-02/28/09


Niemczyk, Thomas
AFRL: $97,178. Andrew Pineda IPS 11/1/04 – 10/31/05

SNL: $67,916. Determination of Type II Absorption 1/6/05 – 9/30/05

Paine Robert
NSF: $268,075. Ring and Cage Assemblies for Main Group Elements 3/1/00 – 2/28/05

PGResFnd: $207,960. Development of New Imidophosphananes 1/1/02 – 12/31/05

DOE: $270,000. Preorganized & Immobilized Ligands for metal Ion Storage 8/1/03 – 7/30/06
Tierney, David
ACS/PRF: $21,478. A Comprehensive Spectroscopic Approach to Structure and Bonding High-Spin CO(11) Systems 7/1/00 – 8/31/05

Wang, Wei
RAC: $6,980. Development of New Florescence Spin Probes for Detection of Reactive Oxygen Species 1/12/05 – 9/30/05

Watt, Richard
THE ANNUAL REPORT
OF THE
DEPARTMENT OF EARTH AND
PLANETARY SCIENCES

July 1, 2004 to June 30, 2005
Department of Earth and Planetary Sciences

Annual Report

July 1, 2004 – June 30, 2005

Leslie D. McFadden, Chair
I. GENERAL DEPARTMENTAL INFORMATION
FACULTY AND STAFF

PROFESSORS:

Adrian J. Brearley, Ph.D., University of Manchester, (United Kingdom), 1984.
Michael E. Campana, Ph.D., University of Arizona, 1975.
John W. Geissman, Ph.D., University of Michigan, 1980.
David Gutzler, Ph.D., Massachusetts Institute of Technology, 1986. (Regents Lecturer)
Karl E. Karlstrom, Ph.D., University of Wyoming, 1981.
Barry S. Kues, Ph.D., Indiana University, 1974.
Leslie D. McFadden, Ph.D., University of Arizona, 1982.
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.
Peter Fawcett, Ph.D., Pennsylvania State University, 1994.
Stephen P. Huestis, Ph.D., University of California, San Diego, 1976.
Rhian H. Jones, Ph.D., University of Manchester, Great Britain, 1986.
Grant Meyer, Ph.D., University of New Mexico, 1993.
Louis A. Scuderi, Ph.D., University of California, Los Angeles, 1984.

ASSISTANT PROFESSORS:

Tobias Fischer, Ph.D., Arizona State University, 1999.
Mousumi Roy, Ph.D., Massachusetts Institute of Technology, 1997.

SENIOR RESEARCH PROFESSORS:

Cornelis ("Kase") Klein, Ph.D., Harvard University, 1965.
Wolfgang E. Elston, Ph.D., Columbia University, 1953.

RESEARCH PROFESSORS:

Horton Newsom, (Institute of Meteoritics), Ph.D., University of Arizona, 1981.
Charles K. Shearer, Jr., (Institute of Meteoritics), Ph.D., University of Massachusetts, 1983.
RESEARCH ASSOCIATE PROFESSOR:
Elizabeth Ritchie-Tyo, Ph.D., Monash University, Australia, 1995.

PROFESSOR EMERITUS:
Rodney C. Ewing, Ph.D., Stanford University, 1974.
J. Paul Fitzsimmons, Ph.D., University of Washington, 1949.
James J. Papike, Ph.D., University of Minnesota, 1964. (Regents Professor).

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.
Barbara Cohen, Research Assistant Professor, Ph.D., University of Arizona, 2000.
Dave Draper, Senior Research Scientist III, Ph.D., University of Oregon, 1991.
Ying-Bing Jiang, Research Scientist I, M.S., University of New Mexico, 2002.
Aurora Pun, Post-Doctoral Scientist, Ph.D., University of New Mexico, 1996.
Timothy Wawrzyniec, Research Scientist, Ph.D., University of New Mexico, 1999
Huifang Xu, Research Scientist III, Ph.D., Johns Hopkins University, 1993.

ADJUNCT PROFESSORS:
Bruce Allen, University of New Mexico, 1993.
Warren S. Baldridge, Ph.D., Caltech University, 1978.
M. Susan Barger, Ph.D., Pennsylvania State University, 1982.
Fraser E. Goff, Ph.D., University of California, Santa Cruz, 1977.
Grant H. Heiken, Ph.D., University of California, Santa Barbara, 1972.
Claudia Lewis, Ph.D., Harvard University, 1994.
Spencer G. Lucas, Ph.D., Yale University, 1983.
Sean McKenna, Ph.D., Colorado School of Mines, 1994.
Duane M. Moore, Illinois State Geological Survey
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.
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.
Yifeng Wang, Ph.D., Indiana University, 1993.
STAFF:

Mary Bennett, Department Accountant
Mabel T. Chavez, Editorial Technician
Shannon Clark, Administrative Assistant III, Institute of Meteoritics
Gilbert E. Griego, Harding Mine Maintenance Mechanic
Cindy Jaramillo, Administrative Assistant II
Beth Lehman, Department Administrator
LeeAnn Lloyd, Administrative Assistant II, Institute of Meteoritics
Robert Macy, Research Engineer
Matt Nyman, Natural Science Coordinator
John Rogers, Natural Science, Instructor
Florine Rietmeijer, Lab Assistant
Anthony Velardez, Facilities Service Technician

VISITING SCIENTISTS:

Jose Querejeta, University of California, Riverside
Yuri Dublyansky, Russian Academy of Sciences, Novosibirsk, Russia
Sandy Underwood, University of Montana, Bozeman
GRADUATE COMMITTEE

C. Agee
A. Brearley
P. Fawcett
T. Fischer
K. Karlstrom
G. Meyer
J. Selverstone

GEOCHEMISTRY LABORATORY COMMITTEE

Y. Asmerom
M. Ali
M. Campana
L. Crosby
M. Elrick
Z. Sharp
J. Selverstone

UNDERGRADUATE COMMITTEE

Y. Asmerom
M. Campana
L. Cressey
D. Gutzler
M. Elrick
S. Huestis
G. Smith

FACULTY PRODUCTIVITY ASSESSMENT

D. Gutzler
L. D. McFadden
M. Roy
Z. Sharp
L. Scuderi

FACILITIES COMMITTEE

C. Agee
Y. Asmerom
M. Ali
V. Atudorei
A. Brearley
T. Fischer
C. Shearer

COLLECTIONS COMMITTEE

B. Kues
G. Smith

COMPUTER COMMITTEE

J. Connolly
P. Fawcett
D. Gutzler
L. Ritchie-Tyo
M. Roy
M. Spilde
T. Wawrzyniec
(Graduate student computer TA)

G. Meyer

UNDERGRADUATE ADVISORS

L. Crossey
D. Gutzler (Environmental Science)
S. Huestis (Geology)

1 Committee Chair underlined.
HONORS ADVISOR

L. Crossey

LIBRARY LIAISON

B. Kues

VEHICLES

B. Lehman
G. Meyer
A. Velardez

SAW ROOM

T. Fischer
(Graduate student TA)

ALUMNI NEWSLETTER EDITOR

B. Kues

NATURAL SCIENCES LECTURER SEARCH COMMITTEE

M. Elrick
Amy Ellwein (Graduate Student)
S. Huestis
B. Kues
K. Karlstrom
J. Selverstone

HYDROLOGIST SEARCH COMMITTEE

Y. Asmerom
M. Campana
L. Crossey
C. Hepler (Graduate Student)
G. Meyer
G. Smith

METEOROLOGY SEARCH COMMITTEE

Coonrod (English)
P. Fawcett
T. Fischer
D. Gutzler
M. Roy
J. Rasmussen (Graduate Student)
L. Scuderi
APPOINTMENTS AND SEPARATIONS

APPOINTMENTS TO FACULTY

Dr. Rhian Jones

SEPARATIONS FROM FACULTY

Dr. Stephen Huestis
II. ACTIVITIES, ACHIEVEMENTS, AND PLANS
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), a Category II Institute in the College of Arts and Sciences closely affiliated with the Department, during the academic year 2004-2005. Most details of faculty activities (Part III), including faculty, staff, and student publications, however are derived from biographical supplements for 2004. Therefore, published papers, chapters and other documents included in the report, for example, are only for the calendar year 2004. 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 academic year 2004-2005, the faculty of the Department of Earth and Planetary Sciences consisted of 21 regular tenured or tenure-track faculty, and 8 Senior Research Professors and/or Research and Research Associate Professors. In addition, 12 Ph.D.-level research scientists (4 within IOM and 1 M.S. level research staff member) filled a variety of non-faculty positions within the Department. Most of these persons are scientific staff with specific responsibilities relating to analytical laboratories and departmental research endeavors. The Departmental faculty is thus augmented by a significant number of other Earth and Planetary Scientists, with Ph.D., or Master's degrees, who in some cases participate in teaching and advisement of graduate students, adding in significant ways 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 Earth and Planetary Scientists 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 first section of this report and in the Appendix.

FACULTY AND STAFF ACCOMPLISHMENTS

Position Changes in Faculty

A new tenure-stream faculty members joined the department January 1, 2005, Dr. Rhian Jones, who was formerly a member of the research staff of IOM. Elizabeth Ritchie-Tyo joined the Faculty as a Research Associate Professor, as of July 1, 2004.

Faculty and Research Staff Advancement and Selected Honors

- Dr. Mousumi Roy served as the Chair of the Geophysics Division of the Geological Society of America.
- Dr. Adrian Bearley served in his third and final year as a New Mexico Regent's Lecturer in the College of Arts and Sciences.
- Dr. Dave Gutzler was appointed a member of the VAMOS panel, providing guidance to the International CLIVAR Program
- Dr. Karl Karlstrom served as a Co-Editor of the Geological Society of America Bulletin, one of the leading professional journals in the Earth Sciences.
- Dr. Mousumi Roy was granted a Research Semester for the Spring Semester 2004, during which he spent several weeks conducting research with colleagues in a major Japanese University.
- Dr. Peter Fawcett served as Technical Program Chair of the Annual Meetings of the New Mexico Geological Society.
- Dr. Yemane Asmerom presented an invited presentation at the Goldschmidt Conference, held in Copenhagen, Denmark.
- Dr. Michael Campana was given the Faculty Award for Excellence in International Excellence by the University of New Mexico.
- Dr. Laura Cressey served as the Chair of the Sedimentary Geology Division of the Geological Society of America.
- Dr. Tobias Fischer was awarded a research fellowship from the Japan Society for the Promotion of Science.
- Dr. Jane Selverstone served as Technical Program Chair of the Annual Meetings of the Geological Society of America.
- Dr. Zachary Sharp served as Vice President of the European Society of Isotope Research.
- Dr. Gary Smith and Adjunct Faculty member Dr. Aurora Pun saw the publication of their new introductory Earth Sciences textbook, How the Earth Works. This innovative textbook was adopted by the faculty for use in the Department's Introductory Geology course.

**Instructional Activities**

1. Student enrollments

   Student enrollments in Department of Earth and Planetary Sciences courses during the 2004-2005 academic years, as indicated by total student credit hours (SCH), totaled 8930 for regular courses, and 10,190 counting Natural Sciences courses (see Table below). These figures represent the sixth straight increase in SCH associated with E&PS courses, and an overall increase of 1.3% with Natural Sciences courses included, compared to the previous year. These figures include academic year courses plus our three summer courses (E&PS-319, -420, and -453) as well as, for the second year, student credit hours generated by courses that are part of the now five-year old Department degree program in Environmental Sciences (Env. Sc.). The Department’s SCH figures for the past 8 years are given below.

   Six consecutive years of increased SCH have resulted in an overall increase of 73% (for E&PS courses only) since academic year 1997-98 and overall E&PS SCH productivity returned to levels last observed during the late 1980s.

<table>
<thead>
<tr>
<th>Year</th>
<th>SCH</th>
<th>SCH (with Natural Sciences)</th>
<th>% change from previous year regular</th>
<th>Inc. N.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997-98</td>
<td>5882</td>
<td>6534</td>
<td>-6.7</td>
<td>+3.7</td>
</tr>
<tr>
<td>1998-99</td>
<td>5705</td>
<td>6777</td>
<td>-3.0</td>
<td>+3.7</td>
</tr>
<tr>
<td>1999-00</td>
<td>6464</td>
<td>7580</td>
<td>+13.3</td>
<td>+11.8</td>
</tr>
<tr>
<td>2000-01</td>
<td>6752</td>
<td>7812</td>
<td>+4.5</td>
<td>+3.1</td>
</tr>
<tr>
<td>2001-02</td>
<td>7041</td>
<td>8181</td>
<td>+4.3</td>
<td>+4.7</td>
</tr>
<tr>
<td>2002-03</td>
<td>8417</td>
<td>9953</td>
<td>+19.5</td>
<td>+21.7</td>
</tr>
<tr>
<td>2003-04</td>
<td>8705</td>
<td>10,061</td>
<td>+4.4</td>
<td>+2.1</td>
</tr>
<tr>
<td>2004-05</td>
<td>8930</td>
<td>10190</td>
<td>+2.58</td>
<td>+1.28</td>
</tr>
</tbody>
</table>

   In the past several annual reports, we have indicated that these major increases in E&PS enrollments have occurred not just because overall enrollments at UNM have increased, because the Departmental increase in SCH is much, much larger than the overall increases on both UNM and in Arts and Sciences over this time period. The increases instead mostly reflect the increasing popularity of the Environmental Sciences 101 sections and Lab course, Env. Sc. 105L. This class, the introductory class in the Environmental Sciences B.S. degree program, along with two other Env. Sc. Courses (Env. Sc. 330 and 430) now account for nearly a quarter of all SCH generated by the Department (Natural Science Courses are not included) during the academic year. In fact, Environmental Science majors now (as of May, 2004) account for 45 of the 93 students who have declared E&PS as their major. We have also noted in past annual reports that this success has not come without problems since there had been no commensurate increase in the number of Teaching Assistant lines in the Department. Fortunately, recently the College decided to provide the Department with an additional 1 FTE TA line of support to the Department, the first increase in this area in many years. This support will help to improve our ability to provide quality Freshman-level courses instruction.

2. Developments in Course Offerings

   As always, the tenure-stream faculty continued to teach over 90% of the courses offered during academic year 2004-05. The handful of courses taught by "Part-time Instructors" are taught by researchers who have a strong
affiliation with the Department, often through "Adjunct Professor" status, such as Dr. Aurora Pun, Dr. Thomas Williamson (Dinosaurs and their World); and Dr. Susan Barger (Ceramics and Earth Materials).

Dr. Gary Smith offered a new course for UNM freshman called "New Mexico Water Futures", a very timely course. Dr. Grant Meyer and Les McFadden offered a special seminar Env. 516 (Selected topics in Geomorphology) that focused on Quaternary geomorphology, as well as an overview of techniques in geochronology. Dr. Yemane Asmerom offered the course, Earth Resources and Man, the first time in some time this course had been offered. Dr. Mike Campana offered a new course, EPS 300 (Culture and Water). Also, Dr. Jane Selverstone developed an exciting graduate seminar in Alpine and Himalayan Tectonics.

The Department continues to assume responsibility for the Natural Sciences Program, which consists of a sequence of three courses integrating the natural sciences for College of Education students who will become K-9 teachers in New Mexico's public schools. This program provides potential public school teachers with solid training in science and in the effective teaching of science to younger students. In 2004-2005 16 classes were offered producing over 1200 student credit hours, a significant 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 an important goal for the Department; and, another important step was taken in 2004-05 towards achieving this goal when the Department conducted a search new "Lecturer" position to be filled by the Coordinator of the Program. The successful candidate was Dr. Matthew Nyman, who has a Ph.D. in the geosciences, has served in the role of the NSP Coordinator for the last few years and who has extensive experience in science education. Dr. Nyman has already developed at least one new NS course at the 400 level for teachers, offered in the summer of 2005 for in-service science teachers.

3. Summer Course Offerings

During Summer 2004 the Department conducted its 3-week Beginning Field Geology course (E&PS-319). A course offered last semester, along with the volcanology field class. The Department also offered E&PS 101, and E&PS 105. After a one-year hiatus, E&PS 420 (Advanced Field Geology) another key course to the E&PS Summer Field course, was also offered during the summer.

Curriculum Changes and Outcomes Assessment

There were no significant changes in curriculum in 2004-2005.

Outcomes assessment again was not conducted by the Department during the academic year, as there is not at present a formal outcomes assessment program in place at UNM.

Research and Publication

The faculty, research staff and students of the Department continued their high level of productivity in research in 2004. Research is an essential and fundamental function of the Department of Earth and Planetary Sciences at UNM, as it should be in any academic department in a university. 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 2004, members of the Department tenure-stream faculty produced over seventy publications, including primarily scholarly papers in refereed journals and edited volumes and also including geologic maps and other important publications (see section III). A significant fraction of these publications are papers published in major national and international journals (also see University of New Mexico Faculty Publications and Creative Works, 2004). Department and IOM scientists and students collectively also published a large amount of research (see The Annual Report of the Institute of Meteoritics, 2004). Although publications by
Department Adjunct faculty are not formally included in this report, many of them are also quite active with respect, to publishing results of their research. Part 4 of Section III includes additional information concerning the research activities of a few other Adjunct faculty members.

As in past years, graduate students and several undergraduates participated significantly in the Department's publication effort (see section IV). Many refereed papers published in 2004 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. The Department faculty continues to be absolutely committed to involving students at both the graduate and undergraduate level in research, to encourage them to present the results of their research through professional talks, and to publish the results of their research in appropriate venues. All of these activities will clearly play an important role in their preparation for careers in the Earth Sciences.

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 its research and teaching mission (see section III, part 3). Contracts and Grants to the Department of Earth and Planetary Sciences during the fiscal year 2004-2005 (new funds) totaled $3,224,000 a substantial increase over the previous fiscal year, and the largest one-year total in the Department, at least based on figures available. One of the larger grants received in 2004 ($450,000) was by Dr. Yemane Asmerom from NSF; these funds support acquisition a new MC ICP- Mass Spectrometer. Also, research scientists and faculty in the Institute of Meteoritics were awarded a substantial funding associated with several grants, mostly associated with research supported by NASA (see 2004 IOM Annual Report).

UNM scientists in other Departments or Colleges acquire research grants and contracts that involve the presence of the E&PS TEM laboratory or other Department Laboratories in support of various research activities at UNM. This represents another important avenue by which E&PS researchers contribute to research and acquisition of funding to UNM. For example, Dr. Adrian Brearley was a key participant in the successful effort to bring $3.5 million to UNM from the NSF National Nanoscience Infrastructure Network program.

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 2004 that were not externally funded or published upon during the year (see Section 3). Experience shows, however, that eventually many of these proposals do ultimately receive funding following the second or even third time they are submitted, reflecting both improvement in the focus and/or overall quality of the proposal, or the availability or increase in funding in associated areas of NSF, or both.

Other Scholarly Activities

As reported in previous Annual Reports, 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 national and international journals was substantial in 2004 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 nationally and 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 and Community. A few selected examples of this service include: (1) Active participation in Amnesty International, which was featured in 2004 in New Mexico Magazine; (Asmerom); (2) Continued development of the Ann Campana Judge Foundation, a
charitable foundation dedicated to undertaking and funding philanthropic projects in development countries that focus on water, health, sanitation and student involvement (Campana); (3) Several contributions to Albuquerque Journal articles and many other major newspapers, and public lectures at various venues that concern a variety of Earth Science topics important to the local community (several faculty members); (4) Participation in completion of the New Mexico K-12 Science Standards (Crossey); (5) Mentoring of Native American high school students at SIFI (Elrick); (6) Providing legal assistance to government agencies involving natural resources and potential impacts of Global Warming (Fawcett); (7) Guest presentation on the local PBS radio station, KUNM addressing Global Warming (Gutzler); (8) Leading participant in development of scientific exhibits in the Grand Canyon and other efforts to enhance public understanding of the Earth Sciences (Karlstrom; Crossey); (9) Coaching youngsters in sporting activities to help promote healthy American values (Brearley).

An important resource provided by the Department to the University and the public is maintenance (without direct 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 2004, 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 Dr. Gary Smith at the Annual Tucson Gem and Mineral Show, the nation’s largest, in March of 2004.

Another important form of service the Department provides to the University is through assistance lent to the Center for the Southwest and the Institute for Medieval Studies. Research and other activities concluded in them contribute in many important ways to the dissemination, publicizing and understanding of Earth, environmental and planetary sciences, both within the University community and the public. In 2004; the CSW did not request support from the Department, as it did not run an annual seminar; however, the IMS did and the Department was again pleased to be able to help support this historically very successful lecture series.

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. Nearly 500 people visited the Harding property in 2004, and they came from all over the country (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 and voluntary contributions to help maintain this resources, but permission from the E&PS Chair must be obtained before each visit.

**GENERAL DEPARTMENTAL ACTIVITIES**

**Facilities**

1. **Capital Improvements**

As usual, there were no major or minor capital improvements to Northrop Hall this past year, although some are still clearly needed. However, in the spring of 2004, the College agreed, with support from the UNM Physical Plant, to support the costs of purchasing and installing a backup electrical power generator for Northrop Hall. This system will be installed in the fall of 2005. This represents a very critical addition to Northrop Hall, at least three times in the past few years, unplanned power outages caused serious damages to instruments used in the Department’s laboratories at a cost of several thousand dollars and lost research and teaching time.

The construction of a new “Chemistry-E&PS” building has been a high college and university priority for several years, and until 2003-04, a formal request had been made by UNM to the state legislature for the allocation of funds to support preliminary plans for planning and designing of this building. This has been the Department’s primary
major capital important request for many years, and it will remain so. However, during the latter part of Spring 2005, the Department learned that this building was being prioritized at a lower level as part of a UNM Administration's new plan to use new UNM bond funds to construct a new building for a “Science and Math Learning Center”. At the time of preparation of this report, it now looks at though this building will be designed and built during the next three years. The Department hopes to have as much as 5000 square feet of space designated in this new building for the Natural Sciences Program labs and classrooms and E&PS and Env. Sc., 105L labs. This new space that would go a long way towards relieving the “space problem” in Northrop Hall that has increased significantly in the past few years with growth of E&PS faculty, staff and laboratories which was also noted in the Department’s Annual Report for 2003-2004.

In 2004-2005, no requests for new equipment and minor capital improvements were submitted, as no funds were then available to support them.

We continue to upgrade the Department's facilities as much as possible with available funds. In 2004-2005, the faculty voted to utilize 2004-2005 college "Instructional Equipment Allocation funds to help purchase a new Chevy Suburban, which in part replaces the aging unreliable 12-passenger vans.

2. Analytical Facilities

The Department and Institute of Meteoritics maintains an array of outstanding analytical facilities necessary to advanced research in many areas of the Earth sciences. As mentioned above, 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). 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.

In 2004-2005, the Department used its IDC return funds to help support successful cost-share proposals to acquire new equipment, which included a new ICP-OES for the Department Chemistry Laboratory, new equipment in support of geophysics research and a “LIDAR” system used to acquire and analyze three-dimensional imagery. This system was successfully acquired almost entirely through the efforts of Dr. Timothy Wawrzynczak, an E&PS staff Research Scientist.

3. Computing Facilities

During 2004-05, the Department used a substantial part of its general funding from the state to support faculty, staff and student use of its computers and network. Funds are used to support renewal of software license critical for research and education (e.g., ARC-GIS) as well as new software applications.

4. Teaching Facilities

There were no significant upgrades to teaching facilities during 2004-05.

Recruiting Visits

The Department was not visited by any companies or other representatives this year. However, as this report was being prepared, the Department learned that a representative of a large company in the petroleum and energy resource area, Baker Hughes, would be visiting during October of 2005, reflecting both new opportunities in hiring in this area as well as the nature and qualities, of the backgrounds of its undergraduate and graduate students in the Earth Sciences that are well suited to employment in this industry. The representative from Baker Hughes, will be speaking with students about employment opportunities in this field and also exploring the possibilities of developing stronger links with the Department via fellowships and internship programs.
Professional Lectures given in the Department during the 2004-2005 academic year are listed below:

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Title of Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/27/04</td>
<td>Leslie D. McFadden</td>
<td>Chair, E&amp;PS, UNM, Introduction of New and Returning Graduate Students, Faculty and Staff.</td>
</tr>
<tr>
<td>9/03/04</td>
<td>Tim Lyons</td>
<td>University of Missouri, “3.5 Billion Years of Earth’s Evolving Biosphere as Recorded in the Sulfur Geochemistry of the Ocean”</td>
</tr>
<tr>
<td>9/10/04</td>
<td>Bill Frank</td>
<td>Pennsylvania State University, “Dances With Clouds”</td>
</tr>
<tr>
<td>9/17/04</td>
<td>Don Prothero</td>
<td>Occidental College, “Did Impacts, Volcanoes, or Climate Change Affect Mammalian Evolution?”</td>
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<tr>
<td>9/24/04</td>
<td>Kurt Steffen</td>
<td>University of New Mexico, Sigma Xi Graduate Recipient, “Retrieval of P-T Information from Shear Zones”</td>
</tr>
<tr>
<td>10/01/04</td>
<td>Rick Aster</td>
<td>New Mexico Institute of Mining and Technology, “New Imaging of Crust and Mantle Structures and Processes Beneath the Southwestern United States”</td>
</tr>
<tr>
<td>10/08/04</td>
<td>John B. Swenson</td>
<td>University of Minnesota, Duluth, “Basic Controls on Clinoform Dynamics”</td>
</tr>
<tr>
<td>10/15/04</td>
<td>FALL BREAK</td>
<td>No Colloquium</td>
</tr>
<tr>
<td>10/22/04</td>
<td>Mark Pagani</td>
<td>Yale University, “The Evolution of Atmospheric CO₂ since the Middle Eocene: A Biomarker Perspective”</td>
</tr>
<tr>
<td>11/05/04</td>
<td>GSA MEETING</td>
<td>No Colloquium</td>
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<tr>
<td>11/12/04</td>
<td>Steve Whitmeyer</td>
<td>University of Tennessee, “Paleozoic Deformation and Metamorphism of the Sierra De San Luis, Argentina: Evidence for the Tectonic Development of Western Gondwana”</td>
</tr>
<tr>
<td>11/19/04</td>
<td>Larry Crumpler</td>
<td>New Mexico Museum of Natural History, “Field Geology on Mars, Early Results from the Mars Exploration Rover Mission”</td>
</tr>
<tr>
<td>11/26/04</td>
<td>THANKSGIVING</td>
<td>No Colloquium</td>
</tr>
<tr>
<td>12/03/04</td>
<td>Ron Amundson</td>
<td>University of California, Berkeley, “Soil and Landscape Evolution Along a Precipitation Gradient in the Atacama Desert, Chile”</td>
</tr>
<tr>
<td>12/10/04</td>
<td>Jon Major</td>
<td>USGS Vancouver Washington, “Geomorphic Response Following the 1980 Mount St. Helens Eruption – Have the Watersheds Recovered?”</td>
</tr>
<tr>
<td>1/28/05</td>
<td>Tobias Fischer</td>
<td>University of New Mexico, Earth and Planetary Sciences, “Subduction of Volatiles: Insights From Volcanic Gases and Phenocrysts”</td>
</tr>
<tr>
<td>2/04/05</td>
<td>Dave Anastasio</td>
<td>Lehigh University, “Extra-Basinal Fluid Infiltration, Mass Transfer, and Volume Strain During Orogenesis: Insights from the Idaho-Montana Thrust Belt”</td>
</tr>
<tr>
<td>2/11/05</td>
<td>Kate Miller</td>
<td>University of Texas at El Paso, “Exploring the Precambrian Structure of the Western Great Plains with Seismic Reflection Data”</td>
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<tr>
<td>2/18/05</td>
<td>Joseph Galewsky</td>
<td>Columbia University, “Mountains Hidden in the Sky: Feedbacks Between Climate and Topography”</td>
</tr>
<tr>
<td>2/22/05</td>
<td>Ping Zhu</td>
<td>National Center for Atmospheric Research, “Parameterization and Climate Sensitivity of Low-Level Clouds in a General Circulation Model”</td>
</tr>
<tr>
<td>2/25/05</td>
<td>Elizabeth Ritchie</td>
<td>University of New Mexico, “The Extratropical Transition of Tropical Cyclones”</td>
</tr>
<tr>
<td>3/1/05</td>
<td>John Hanchar</td>
<td>George Washington University, Mineralogical Society of America Distinguished Lecturer “Trace Elements and Isotopes in Accessory Minerals as a Window into Crustal Processes”</td>
</tr>
</tbody>
</table>
Daniel Hodyss  University of Miami, “Low Frequency Variability Induced by Continents and Potential Vorticity Sources”.

Huade Guan  New Mexico Institute of Mining and Technology, “Quantification of Atmospheric Boundary Conditions for Mountain-block Hydrologic Modeling”.

Spring Break  No Colloquium

Stefan Kollet  Lawrence Livermore National Lab, “Application of the Conductance Concept to Interactions Between Surface and Ground Water”.

Dongmin Sun  Texas A&M University, “Aquitard Control of Pumping Induced Stream-Aquifer Interaction: Horizontal and Vertical Well Scenarios”.

Gary Weissmann  Michigan State University, “Hydrogeology: A Geologic Approach to Groundwater Studies”.

Dave Draper  University of New Mexico, “Experimental Constraints on the Nature of the Interior of Mars”.


Lonnie Thompson  Ohio State University, Caswell-Silver Lecture “Ice Core Evidence of Past Changes in the Hydrological Cycle of the Tropics and Subtropics”.

Undergraduates  Caswell Silver Undergraduate Research Symposium

Laura Cressey  Introductions, University of New Mexico, Earth and Planetary Sciences, UNM

Research Projects Reports:

Joaquin J. Baca  “Exploring Hydrologic Connectivity Between Groundwater and Surface Water Along the Middle Rio Grande”. Advisor: Dr. Laura Cressey.

Sara Caldwell  “Bacterial Diversity and Biogeochemical Cycling in the Middle Rio Grande Aquifer, New Mexico”. Advisor: Dr. Laura Cressey.

Patrick Mullen  “You Are What You Eat: Isotopic Reconstruction of Younger Dryas Grass Flora in the Middle Rio Grande Valley”. Advisors: Dr. Bruce Huckell and Dr. Zachary Sharp.


Laura Cressey  Introductions, University of New Mexico, Earth and Planetary Sciences, UNM

Research Projects Reports:

Chris Cox  “Quaternary Incision History of the Upper Reaches of the Jemez River”. Advisor: Dr. Karl E. Karlstrom.

Greg Peacock  “Anisotropy of Magnetic Susceptibility (AMS) and Paleomagnetism of a Series of Shallowly Emplaced Laccoliths in Southwest Utah (Iron Axis Province)”. Advisor: Dr. John W. Geissman.

Michael R. Emms  “Using Apatitic Conodonts as a Proxy for Paleo-Climate”. Advisor: Dr. Maya Elrick.


April A. Lyons  “Geochemistry of Travertine in the Travertine Grotto at the Grand Canyon”. Advisor: Dr. Laura Cressy.

Caleb Lewis  “The Use of Tooth Morphology as a Diagnostic Characteristic of Tyrannosaurid Taxa”. Advisor: Dr. Spencer Lucas.
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. The Department has recently increased its efforts to strengthen contact with alumni through gatherings at professional meetings, developing a new and well-circulated Department newsletter (“News from Northrop Hall”) and through many personal and professional contacts. The Department is also working closely with College staff member in activities related to development, which has also entailed increased outreach to Department alumni. Individually and collectively alumni (and other supporters of the Department) provide generous financial, advisory and moral support for many departmental activities, which contribute significantly to our success in our educational and research missions. In addition, their support provides the funds associated with 20 scholarships, funds and endowments that financial support that enable the Department to support over forty undergraduate and graduates each year. Financial aid provided through these resources ranges from a few hundred dollars to full three-year fellowships. Many tens of thousands of dollars are provided through funds such as the Alumni Fellowship, the Albert and Mary Black Family endowments; the Ernest Rich Fund, the Kelley, Miossec, Wanek, Rhodes, Vanna and Wengerd Scholarships, discussed in more detail below. The largest amount of funding to the Department comes from the Caswell Silver Foundation for Earth Sciences. The endowments in the UNM Foundation associated with the Department account for over a quarter of all endowments in the College of Arts and Sciences. This aid to students is augmented by other scholarships and other forms of aid acquired from institutions outside the University (e.g., the Geological Society of America, the New Mexico Geological Society) and funds from the University (e.g., SRAC; tuition waivers). A full summary of scholarships and fellowships received by Earth and Planetary Sciences students is presented in Part IV of this report.

Caswell Silver Foundation

The most important source of alumni support is the Caswell Silver Foundation. Funds generated by the investments of the Foundation in 2004 provided full-time support for the Leon Silver/Vincent Kelley graduate student Fellows Mel Strong and Dan Breecker. It also subsidized much of the travel expenses of faculty members participating in professional meetings. The Foundation also supports an endowed faculty chair, the Caswell Silver Research Professor, when funding is available. As pointed out in the last Department annual report, the faculty recognize that, owing to the existence of these fellowships and scholarships funds made possible by the Foundation (and many other funds), we have had a much greater chance to attract some of the most highly qualified, academically strong graduate students to the Department.

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. 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 scientists in the country, and to inform them about our department and the research and other academic activities we are pursuing. Last year, as noted previously, the Department extended an invitation to Dr. Lonny Thompson, a highly acclaimed paleoclimatologist from Ohio State University. Just before Professor Thompson arrived in the Department (April, 2005), he had been inducted into the highly prestigious National Academy of Sciences. The faculty, staff and students of the Department of very fortunate to have the chance to hear and interact with scientists of this stature, a chance we would not likely have were it not for the generous support of the Caswell Silver Foundation.

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 2004, Commencement Ceremonies, were respectively, Mary Bennett (Department Accountant) and Bob Macy (Research Engineer).

Another very important function supported by the Foundation is the Caswell Silver Undergraduate Research Symposium, now held during late spring. The most recent, The Fourth Annual Symposium was again very well attended, attracting the participation of many undergraduate majors conducting research ranging from the study of stable isotopes of limestone from New Mexico to studies of terrace formation as functions of climate change and tectonics in New Mexico.

RECENT SIGNIFICANT DEVELOPMENTS, PLANS AND GOALS

In the most recent annual report, it was noted that during the letter part of academic year 2003-04, the Department was informed that it would be able to search for two tenure-stream faculty positions (in geohydrology and atmospheric physics) and a Lecturer (non tenure-stream faculty member) who primary responsibilities would be directing the Natural Sciences Program. As mentioned above, all of these searches were highly successful, producing strong groups of applicants, semifinalist, and ultimately finalists. With respect to the hydrogeologist search, the Department ultimately extended an invitation to Dr. Gary Weissmann, an Assistant Professor in the Department of Geosciences at Michigan State University, which he accepted. His academic record was clearly strong enough to warrant hiring him as an Associate Professor, with tenure. The addition of Dr. Weissmann greatly strengthens the Department in an area of scientific research that is rapidly becoming more important in the College of Arts and Sciences and in the University, as most recently illustrated by the large economic impacts of a five-year long drought on the state of New Mexico. The addition of Dr. Weissmann should also benefit the University’s successful Water Resources Program in important ways. The Department’s goals are to play a larger role in the University’s long-term plans to develop a larger, multidisciplinary effort with respect to water and environmental studies; and Dr. Gary Weissmann’s experience and expertise should help greatly in this effort.

Of course, atmospheric sciences and climatological research constitute a very important aspect of a broad program in environmental sciences, and so the addition of Dr. Joe Galewsky to the Department as a new Assistant Professor will greatly strengthen not only the Department’s representation in this area of science, but also strengthen UNM’s overall strength in environmental studies. Dr. Galewsky’s expertise in modeling the influences of topography on weather systems will nicely complement the research of several faculty members in the Climate and Surface Processed program, as well as benefit the research of several other faculty members with interests in paleoclimate and paleoenvironmental research.

The hiring of Dr. Matt Nyman in the Department’s first Lecturer position represents the successful culmination of one key goal highlighted in the Department’s “Five Year Hiring Plan” that was presented to the Dean of the College of Arts and Sciences in the Spring of 2000, a goal that reflected the faculty’s keen desire to strengthen the Department’s role in the area of science education. Indeed, a stronger overall effort with respect to strengthening UNM’s commitment to enhancing K-12 public education in New Mexico was identified as a key goal in the University’s most recent, formally adopted strategic plan, and so the Department is pleased to be able to play an important part in this effort. The hiring of Dr. Nyman reflects a several year long effort in the development of the Natural Sciences Program, which at its core involves a sequence of three key sciences courses taken by a large majority of education majors in the K-8 program. With the recent success the Department has had to find permanent funding for
this program and the hiring of Dr. Nyman as its director, the Natural Sciences Program is well positioned to continue to grow and become an even more important part of the University effort in the area of science education, via development of new, higher level courses designed to meet the needs of in-service teachers in New Mexico and expanded contacts and interaction with other institutions interested in the enhancement of science teacher education, such as Sandia National Laboratories and the Albuquerque Teachers Institute.

Finally, as the Spring 2005 semester came to a close, the Department learned of an effort by higher level administrators to try to hire Dr. Liz Ritchie, a highly respected researcher in the area of atmospheric sciences and who had accepted an offer of a position as Research Associate Professor in E&PS in 2004, in a tenure-track faculty position as part of a joint position in the Department of Electrical and Computer Engineering (in the College of Engineering) and E&PS. As this report was being written, the Department learned that this effort had been successful, with plans to make an offer to Dr. Ritchie during the Fall 2005 semester. The addition of Dr. Ritchie to E&PS will represent a large increase in the strength in the area of atmospheric and meteorological sciences and presumably will enable the Department to consider the development of an undergraduate minor in this area in the near future. The emergence of this area as a strength in the Department should benefit the College and UNM greatly because, as was noted above, this area of science represents a critical aspect of environmental sciences, which UNM has repeatedly identified as one of the areas in which UNM could and should develop a strong, nationally recognized academic program. With new faculty in this area, however, new courses and degree programs will of course emerge, which will almost certainly require the addition of support for teaching assistants, with predictable increases in student enrollments and new majors.
III. ACTIVITIES OF THE FACULTY AND RESEARCH SCIENTISTS

- Activities of Full, Associate and Assistant Professors
- Activities of Research Professors
- Activities of Senior Research Scientists and Staff
1. TEACHING ACCOMPLISHMENTS OF FACULTY AND RESEARCH STAFF

Carl Agee, Professor and Director, Institute of Meteoritics

Courses taught

Fall:  
E&PS 365 - Exploring the Solar System (24 enrolled)  
E&PS 599 - MS Thesis (2 enrolled)  
E&PS 699 - Dissertation (1 enrolled)

Spring:  
E&PS 516 - Research of the Planets Interior (3 enrolled)  
E&PS 599 - MS Thesis (2 enrolled)  
E&PS 699 - Dissertation (1 enrolled)

Yemane Asmerom, Associate Professor

Courses taught

Spring:  
E&PS 203 - Resources, the Environment & Public Policy  
E&PS 401 - Seminar /no evaluations  
E&PS 101 - Physical Geology  
E&PS 410/510 - Fundamental of Geochemistry

Fall:  
E&PS 203 - Resources, the Environment & Public Policy

Lab training and consulting UNM

Andy DuFrane, Jessica Rasmussen, Victor Polyak, Lars Borg, Jennifer Edmundson, Dennis Newell,  
Toni Reale [UMASS], Francisco Cruz [Universidade de São Paulo, Brazil], Rhawn Denniston (faculty)  
Peter Cole Cornell College, Brian Hoye Cornell College, Matt Lachniet (faculty) UNLV, Lindsay Burt  
UNLV, Philip van Beynen (faculty) Univ. of South Florida, Jason Polk Univ. of South Florida  
Rengaswamy Ramesh, Physical Research Laboratory [India].

Graduate students supervised

Andy DuFrane (Ph.D)  
Jessica Rasmussen (Ph.D.)  
Beth Nichols (M.S.)

Graduate student committee

Dennis Newell (Ph.D.)  
Angela McLain, (Ph.D.)  
Jennifer Edmundson, (Ph.D)  
Jana Berlin (Exam)
Adrian Brearley, Associate Professor

Courses taught

Spring:
- E&PS 587 - Advanced Mineralogy (8 enrolled)
- E&PS 547 - Seminar Mantle and Crustal Xenoliths (7 enrolled)
- E&PS 552 - Problems (1 enrolled)
- E&PS 599 - Masters Thesis (1 enrolled)
- E&PS 699 - Dissertation (1 enrolled)

Fall:
- E&PS 301 - Mineralogy (38 enrolled)
- E&PS 302L - Mineralogy Lab (27 enrolled)
- E&PS 551 - Problems (3 enrolled)
- E&PS 699 - Dissertation (1 enrolled)

Advisement and thesis committees

Served as Advisor and M.S. committee Chair for Paul Burger, co-advisor for Caitlin Callahan and Amber Hawkins. Ph.D. thesis advisor for Lysa Chizmadia, Neyda Abreu, Jana Berlin, and Rena Ford M.S. Thesis Committee member for Courtney Porreca, George Perkins and Alexis Ault Ph.D. Thesis Committee member for Kurt Steffen, David Vaughan (Anthropology), Justin Hagerty, Jaimie Barnes, Jennifer Edmunson, and Becky Strictland (Chemistry), Abhaya’s student.

Michael E. Campana, Professor

Courses taught

Spring:
- E&PS 472/572 - Subsurface Fate and Transport Processes (13 enrolled)
- Env. Sc. 430/530 - Adv. Env. Science (20 enrolled)
- Water Res. 572 - Water Res. II: Models (16 enrolled)

Summer:
- Water Res. 573 - Water Res. III: Field Problems (12 enrolled)

Fall 2004:
- E&PS 476/576 - Physical Hydrology (30 enrolled)
- E&PS 300/WR 595 - The Culture of Water (45 enrolled)
- Water Res. 571 - Water Res. I: Contemporary (9 enrolled)

New Course Developed and Taught

E&PS 300/WR 595 – The Culture of Water (with J. Rivera, M. O’Leary, B. Irland).

Other Teaching

Developed and taught three 4-hour courses (in Spanish and English) for the diplomado program in Honduras: Principles of Ground Water; Water Quality; Basic Water Resources.

Students Advised

Bart Faulkner – Ph.D.
Kate Klise, Erin Carroll – MS
Water Resources

Amy Louise, Hani Iwhish, Meaghan O'Rourke, Nicole Marcell (all graduated, 2004); Julie Anderson, Barbara Heemink, Melanie Luna, Emma Nolan, Darrell Kundargi, Cindy Stokes, Louis Martinez, Berrin Vener, Pallab Mozumder.

Laura J. Crossey, Professor

Courses taught

Spring:

- Env. Sc., 430/530 - Advanced Environmental Systems (24 enrolled)
- Solo (10 students)
- E&PS 415/515 - Geochemistry of Natural Waters (20 enrolled)
- E&PS 493 - Independent Study (2 enrolled)
- E&PS 492 - Problems (2 enrolled)
- E&PS 552 - Problems (1 enrolled)
- E&PS 599 - Masters Thesis (1 enrolled)
- E&PS 699 - Dissertation (2 enrolled)

Fall:

- E&PS 503 - Organic Geochemistry (5 enrolled)
- E&PS 101 - Intro to Geology (100 enrolled)
- E&PS 491 - Problems (1 enrolled)
- E&PS 493 - Independent Study (2 enrolled)
- E&PS 551 - Problems (1 enrolled)
- E&PS 599 - Masters Thesis (1 enrolled)
- E&PS 699 - Dissertation (2 enrolled)

Ph.D. Committees

- Dennis Newell (Chair)
- Matthew Kirk (Chair)
- Howard Passel (Biology, 2004)
- Maceo Martinet (Biology)
- Ondrea Humnell (Biology)

- Mike Timmons (2004)
- Justin Hagerty (2004)
- Sean Connell
- John Ennis (exam committee)

- Deb Bryan
- Neyda Abreau
- Angela McLain
- Ivan Thorsos

MS Committees

- Thomas Loveland (Chair, 2004)
- Ron Amato (Chair, MWR, 2004)
- Ben Burnett (2004)
- Sally Johnson
- Paul Burger
- Gary Stansifer (MWR)
- James Dyer (MWR)
- Austin Zinsser
- Maarten DeMoor (exam committee)

- Shirley Libed (2004)
- Heather Parmenter (2004, Biology)
- Lea Ann Scott
- Elizabeth Nichols
- Cynthia Scism (Chem. Engineering)
- Amy Luther
- Catrina Johnson

Undergraduate Sr. Thesis/Research Supervision

- Marissa Reno (co-supervised)
- Cassandra Brown (w/ John Bloch)
- April Lyons
- Nicolas Engdahl (with TF)
- Sara Caldwell (w/ T. Vesbach, biology)

- Nicolas Rae! (w/ T. Vesbach, biology)
- Cougar Burke
- Chris Cox (w/ KEK)
- Joaquin Baca

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Graduate Student Grant Support

Dennis Newell (full RA)
Matthew Kirk (full RA)

Undergraduate (10-15 hrs per week)

Cougar Burke S04
Nicolas Rael S04, F04
April Lyons S04, F04

Tiffany Shaw S04, F04
Cassandra Brown S04, F04
Chris Cox S04, F04

Other Mentoring Activities

I consider mentoring of undergraduates a key part of my activity in this area. This is accomplished through my interactions with a considerable fraction of our undergraduate majors and minors (on the order of 10 hrs per week), our departmental Honors students (at a minimum review their theses and attend their presentations), the many undergraduates I consistently work with on a one-on-one research basis (several hours per week), and the approximately 20 AMP students (both E&PS as well as other science majors) whose research activities I facilitate and presentations I review and attend throughout the year (they are involved in summer research, as are our UNM students) on an ongoing basis.

Maya Elrick, Associate Professor

Courses taught

Spring:  E&PS 201 - Earth History (35 enrolled)
         E&PS 225 - Oceanography (20 enrolled)

Fall:    E&PS 304 - Sedimentology-Stratigraphy (24 enrolled)

Advising

Thesis advisor: Lea Anne Scott, MS. Defended 10/04

Thesis committees

Kate Zeigler, PhD
John Rissetto, PhD (Anthropology)
Diana Latta, PhD (Lehigh University)

Honors Thesis advisement

Linnah Niedel
Michelle Leister
Daniel Dehn
Michael Emms

Exam committee member

Lyman Persico
Carolyn Domrose
Jen New
- Wolfgang E. Elston, Professor Emeritus, Senior Research Professor


Peter J. Fawcett, Assistant Professor

Courses taught

Spring: E&PS 439 - Paleoclimatology (25 enrolled)
        E&PS 599 - Thesis Research (2 enrolled)
        Env. Sci. 101 - The Blue Planet (188 enrolled)

Fall: Env. Sci. 101 - The Blue Planet (155 enrolled)
      E&PS 547 - Advanced Quaternary Paleoclimatology (9 enrolled)
      E&PS 401/501 - Colloquium (35 enrolled)
      E&PS 599 - Thesis Research (1 enrolled)

Graduate Students Supervised

Dale Henderson (M.S., defended May 2004)
Jeff Parker (M.S.)
Catrina Johnson (M.S. started Fall 2004)

Graduate Thesis Committees

Ph.D.: Dan Breecker, Natalie Dawson (Biology), Linda Donohoo-Hurley, John Ennis, Jennifer Pierce, Mel Strong, Judith van der Elst (Anthropology), Kate Zeigler

M.S.: Jed Frechette, Mary Greene, Lyman Persico

Tobias Fischer, Assistant Professor

Courses taught

Spring: Research Semester

Fall: E&PS 531L - Igneous Petrology w/Dr. Baldridge

Summer: E&PS 453/553 - Field Studies in Volcanology

Graduate Students supervised

Laura Clor, M.S.
Bethany Burnett, M.S.
J. Maarten de Moor, M.S.
Vanessa Maier, M.S.

Graduate Committee

Mike Petronis, Ph.D.
Dennis Newell, Ph.D.
Exam Committee

Alexis Ault, M.S.

John W. Geissman, Professor

Courses taught

Spring: Research Semester

Summer: E&PS 319L (w/Grant Meyer)- Introductory Field Geology (11 students)

Fall: Sabbatical
(Crosby Lecturer, MIT, EAPS Department, taught the general Paleomagnetism and Applications course. (15 students)

Graduate students supervised:

James Ashby, MS
Scott Muggleton, MS
Caitlin Callahan, MS (co-advised)
Mike Petronis, PhD
Kate Zeigler, PhD
Linda Donohoo-Hurley, PhD
Jenn Boyd, PhD, Anthropology (co-advised)

Exam committees

Scott Muggleton, MS
Caitlin Callahan, MS
Courtney Porreca, MS

Graduate Students financially supported:

Mike Petronis
Linda Donohoo-Hurley
Kate Zeigler

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 to modify/improve undergraduate field geology course (E&PS319L). Converted all of my lecture materials in Paleomagnetism to Powerpoint.

“Guest” lecturer in E&PS 101 sections (Spring, 2004), E&PS 523.

Undergraduate Research Advising

Greg Peacock
David Gutzler, Professor

Courses taught

Spring:
- E&PS/Geog 251 – Meteorology (34 enrolled)
- E&PS/Geog 352 – Global Climate Change (25 enrolled)
- Biol. 502 – IGERT seminar, guest lecture on Ethics of Cloud Seeding
- E&PS 436/536 – Climate Dynamics (41 enrolled)
  (broadcast to Univ. Alabama: 34 UNM students, 7 UA students)

Fall:

Coordinator of UNM Albuquerque Teachers Institute workshop for middle and high school teachers on "Climate, Drought and Water Resources", March 13.

Supervision of graduate students

M. Strong (Ph.D.)
K. Jones (M. Water Res.)

Supervision of undergraduates

D. Piech (climate and disease data analysis, spring)
T. Stickford, B. Gilbert (tropical cyclone modeling, spring/summer)

Other graduate thesis committees

M.S. D. Henderson, C. Hepler, J. New (E&PS)

Stephen P. Huestis, Associate Professor

Courses taught

Spring:
- E&PS 101 – Intro. to Geology (64 enrolled)
- E&PS 110 – Waves and Tides (32 enrolled)
- E&PS 115 – Geological Disasters (35 enrolled)
- Music 231/560 (co-taught) – Appalachian Folk Ensemble
  (10/2 enrolled)

Summer:
- E&PS 101 – Intro. to Geology (50 enrolled)

Fall:
- E&PS 101 – Intro. to Geology (62 enrolled)

Thesis committee

Dale Henderson (MS)
Jessica Rasmussen (Ph.D.)

Exam committee

George Perkins (MS)
Neyda Abreu (Ph.D.)
Rhian H. Jones, Research Scientist

Courses taught

Spring: E&PS 513 - Planetary Materials (5 enrolled)

Fall: E&PS 365 - Exploring the Solar System (1 enrolled)

Student advisement

Co-advisor for: Jana Berlin, Ph.D.

Committee member

Neyda Abreu, Ph.D.
Paul Burger, M.S.
Lysa Chizmadia, Ph.D. (Defended September 2004)
Rena Ford, Ph.D.
Mel Strong, Ph.D.
Chris Wetteland, Ph.D.

Karl E. Karlstrom, Professor

Courses taught

My course load in 2004 consisted of 3 courses (2 undergraduate core course, one graduate course). In addition, in the summer of 2004 I started my GSA Bulletin editorship, which carries a 1 course per semester release time, giving an adjusted equivalent teaching load of 4 courses for 2004.

Spring: E&PS 307L - Structural Geology (9 enrolled)
E&PS 599 - Masters Thesis (2 enrolled)
E&PS 699 - Dissertation (1 enrolled)

Summer 2004: E&PS 420L – This course was cancelled this year for the first time in 15 years due to lack of financial support from the Summer School, College of Arts and Sciences, and the Department.

Fall: E&PS 310 – New Mexico Field Geology (31 enrolled)
E&PS 526 – Advanced Structural Geology (7 enrolled)
E&PS 599 – Masters Thesis (1 enrolled)

At the UNM Undergraduate Research and Creativity Symposium, my E&PS 310 class won second place for our class poster entitled: The geologic rock column of the Albuquerque region: Two billion years of Earth history (Nov. 22, 2004, 2-4 PM).

Students supervised:

In 2004, my structure/tectonics research group consisted of 1 Ph.D., 3 M.S., and 3 undergraduate researchers. I met regularly with each student.

Ph.D., Mike Timmons – NSF funding
M.S., Sunny Baer – State map funding

MS – Austin Zinsser started in Fall, 2004; he came from Wesleyan University and will be working on Proterozoic quartzites in the Needle Mountains of Colorado; TA funding.
Amy Luther started in Fall 2004; she came from the University of Illinois and will be working on Proterozoic rocks in the Manzano Mountains of New Mexico; Research funding from my grants and the NM State map project.

B.S., students supported with funding from grants: Paul Carter, Matt Dillon and Chris Cox.

M.S. Theses completed in 2004

I had one MS and one PhD finish in 2004. Sunny is the 31st MS student to graduate under my supervision (since 1986).


Ph.D. Dissertations completed in 2004

Mike is the 5th PhD student to graduate under my supervision (since 1996).


Member on thesis committees

James Ashby
Dennis Newell

General Examiner for graduate student

Rachel Dwarzski

Barry S. Kues, Professor

Courses taught

Spring: E&PS - 101 (56 enrolled)
E&PS - 411 (8 enrolled)
E&PS - 492 (1 enrolled)
E&PS - 599 (1 enrolled)

Fall: E&PS - 250 (15 enrolled)
E&PS - 551 (1 enrolled)
E&PS - 599 (1 enrolled)

Graduate students supervised

Advisor: Shirley Libed (M.S.); defended in Dec. 2004
Coadvisor (with Dr. S.G. Lucas): Sally Johnson (M.S.)

Graduate student exam committees: Scott Muggleton (M.S.), Mary Greene (M.S.)
Grant A. Mever, Assistant Professor

Courses taught

Spring: Env. Sc. 101 - The Blue Planet
       E&PS 516 - Environmental Fluvial Geomorphology

Summer: E&PS 319 - Introductory Field Geology

Fall: E&PS 481/581L - Geomorphology and Surficial Geology and Lab
      Env. Sc. 330 - Environmental Systems

Dissertations and Theses Advised


Richard M. Ortiz, M.S., December 2004, A river in transition: Geomorphic and bed sediment response to Cochiti Dam on the Middle Rio Grande, Bernalillo to Albuquerque, NM, 64 p.


Current Advisees

Christopher Hepler, Lyman Persico, Jennifer New, Jed Frechette (MS)

Co-advising

Carolyn Domrose (MS) with Leslie McFadden

Committee membership

Debra Bryan, Sean Connell, Amy Ellwein (PhD)
Tim Gere, Jeff Parker (MS)
Jungseok Ho, Civil Engineering (PhD); Scott Worman, Anthropology (PhD)

Leslie D. McFadden, Chair and Professor

Courses taught

Fall: Env. Sci., 101 - (170 enrolled)
      E&PS - 516 Geomorphology Seminar (8 enrolled)
      E&PS - 490 Geological Presentations (12 enrolled)

Spring: E&PS - 516 Geomorphology Seminar (8 enrolled)
        E&PS - 490 Geological Presentations (10 enrolled)

Guest Lecturer:

Community and Regional Planning 470/570 - Semi-arid lands Development, Planning and Restoration Community and Regional Planning (Department of Architecture and Planning).
Relevance of Soil geomorphic and ecologic studies in NE Arizona to research in landscape ecology and Holocene climate change.

Conservation and Indigenous Biology (BIOL 402) Soil geomorphic and field ecological studies of grazing and climate impacts on the Hopi and Navajo Reservations.

Geoarcheology (EPS 482L/582L and ANTH 482L) — Basic character of soils and utility in geoarcheology.

Graduate Students Supervised or Co-supervised

McLain, Angela (Ph.D.)
Ellwein, A. (Ph.D., co-advised with L. Scuderi)
Gere, Tim (M.S.)
Carolyn Domrose (M.S.)
Debra Bryan (Ph.D.)

M.S. Thesis Committees

Burnett, Ben
Greene, Mary
New, Jen
Ortiz, Rick
Parker, Jeff

Ph.D. Committees

Connell, Sean
Pierce, Jennifer
Powers, Bob (Dept of Anthropology)

Victor Polyak, Senior Research Scientist

Courses taught

Provide faculty, staff, graduate students, undergraduate students, and other visitor’s proper instruction on the use of our Radiogenic Isotope Lab. This year I provided training to two visiting graduate students, two visiting undergraduate students, two departmental graduate students, and one visiting professor.

Elizabeth Ritchie-Tyo, Research Associate Professor

Courses taught

Spring: ME 301 - Thermodynamics (28 enrolled)

Advisement and thesis committees

Co-advisor for Midhun Allu, ECE Masters candidate
Co-advisor for Oguz Demirci, ECE Ph.D. candidate
Frans Rietmeijer, Research Faculty Professor

Courses taught

Spring: E&PS 513 - Comets and IDPs, guest lecturer

Mousumi Roy, Assistant Professor

Courses taught

Teaching Accomplishments (accomplishments and recognitions in the area; curriculum development, production of teaching materials, etc., courses taught and number of students enrolled in class).

Spring: E&PS 101 – Introduction to Physical Geology (128 enrolled)
E&PS 527 – Introduction to Geophysics (6 enrolled)
E&PS 427 – Introduction to Geophysics (6 enrolled)
PHAST 327-Intro to Geophysics (5 enrolled)

Summer: Taught an informal “Mini-Geodynamics Workshop” (August, 2004) - to foster interactions among the EPS graduate students and faculty with the visiting students: Manuel Aragon (CICESE, Mexico) and Tom Marshall (U. British Columbia)

Fall: E&PS 522 – Geodynamics (X grads enrolled)

Students supervised:

Jonathan MacCarthy (M.S., defending in Summer 05, RA support)
Chloe Peterson (Senior Thesis; graduating Spring 05, provided support)
Emily Jones (summer internship; RA support)
Caitlin Callahan (RA support)
Tom Marshall (Univ. of British Columbia; supported on PI Startup and RAC grant – summer internship)
Manuel Aragon (CICESE, Mexico) – visited for 1 month; supported by the UNM Consortium of the Americas
Laura Burnette (Ph.D., TA support; *see note below)

Thesis/Exam Committees

PhD Defense: D. Hope (UNM Physics); K. Steffen
PhD Exam: M. Strong
MS Defense: J. MacCarthy
MS Exams: L. Donohoo-Hurley; A. Hawkins; A. Ault; C. Johnson.

*Note: As of Spring 2005, I am no longer Laura Burnette's PhD advisor.

Louis Scuderi, Associate Professor

Courses taught

Spring: E&PS 516 – Topics/Colorado Plateau (7 students)
E&PS 551- Problems (2 enrolled)
E&PS 516 – Topics/Colorado Plateau. This course was taught as an overload. A Fall 2003 agreement with Dean Dasenbrock released me from my normal Spring course load in order to work exclusively on the start-up of the Center for Rapid Environmental Assessment and Terrain Evaluation (CREATE).

Course Development

Developed PowerPoint version of Introduction to Geographic Information Systems (E&PS 300)
Developed new approach to Environmental Science 101 using hands-on inquiry-based learning and visualization techniques. Generated NSF proposal from this work.

Undergraduate Students Supervised

Joaquin Baca
Rachel Aliyah Thomas
Craig Host
Rhonda Payne

Graduate Students Supervised

John Ennis, PhD, (NSF and NASA CREATE grant)
Amy Ellwein, PhD, (NASA CREATE grant)
Mary Greene, MS. (Los Alamos funded)

Thesis and Dissertation Committees (E&PS additional to above)

Debra Bryan, PhD
Carolyn J. Domrose, MS
Bart Faulkner, PhD
Jeff Parker, MS
Jessica Rasmussen, PhD

Thesis and Dissertation Committees (outside of E&PS)

Audrey Al-Ali, PhD, Anthropology
Karl Benedict, PhD, Anthropology (completed in 2004)
Bob Heuer, MS, Geography (working at CREATE, unfunded)
Lucas Kellett, PhD, Anthropology
Enrique Montano, MS, Geography (funded by NASA, CREATE grant)
Heather M Richards, PhD, Anthropology
Heidi Ann Smart, PhD, Computer Science
Courses taught

Spring:  
- E&PS 303L - Igneous and Metamorphic Petrology + optical mineralogy (18 enrolled)
- E&PS 547 - Seminar on Mantle & Crustal Xenoliths (8 enrolled)
- E&PS 699 - PhD dissertation (2 enrolled)

Fall:  
- E&PS 101 - How the Earth Works (88 enrolled)
- E&PS 552 - Problems (3 enrolled)
- E&PS 599 - MS thesis (3 enrolled)
- E&PS 699 - PhD dissertation (2 enrolled)

Course development

I significantly revised the igneous half of EPS 303 by developing new in-class demonstrations and assignments, developing a multi-week lab assignment on the igneous geology of the Rio Grande Rift, and writing new homework assignments.

Undergraduate students supervised

- Erik Jung
- Ana Moreno

Graduate students supervised

- Alexis Ault, MS
- Jaime Barnes, PhD (NSF Graduate Fellowship) - joint with Zachary Sharp
- Amber Hawkins, MS - joint with Adrian Brearley
- Caitlin Callahan, MS (half NSF, half TA) - joint with John Geissman and Adrian Brearley
- George Perkins, MS (half NSF, half TA) - joint with Zachary Sharp
- Courtney Porreca, MS
- Kurt Steffen, PhD (NSF grant) - defended October 04

Thesis and dissertation committees (in addition to students listed above)

- Jana Berlin, PhD
- Dan Breecker, MS - defended summer 04
- Laura Clor, MS - defended spring 04
- Rachel Dwarski, MS
- Rena Ford, PhD
- Jonathon McCarthy, MS
- Michael Petronis, PhD

Outside member of examination committee

- Stacey Chambliss, Ph.D., in Anthropology (archeology concentration)

Zachary Sharp, Associate Professor

Courses taught

Spring:  
- E&PS 505L - Stable Isotope Geochem (13 enrolled)
- E&PS 547 Seminar - (7 enrolled)
- E&PS 552 Problems - (1 enrolled)
Fall:  
On sabbatical

Spring 2005:  
Env. Sci. 101, section 001 – (153 enrolled)  
E&PS 507/507L – (13 enrolled)  
E&PS 407/407L – (2 enrolled)  
E&PS 493 – (1 enrolled)  
E&PS 699 – (2 enrolled)

Major advisor

Jaime Barnes (PhD) w/ Jane Selverstone, 2002 present  
Dan Breecker (MS) and PhD, 2002 present  
Mel Strong (Ph.D.) w/ Dave Gutzler, 2003 present  
George Perkins (MS) w/ Jane Selverstone and Adrian Brearley, 2003 present

Exam Committee member

Jamie Barnes, M.S.  
Bryan, Debra, M.S.  
Callahan, Caitlin, M.S.  
Laura Clor, M.S.  
Rena Ford, M.S.  
Paul Burger, M.S.  
Bethany Burnett, M.S.  
Chaklader, Jchyn, M.S.  
DeMoor, Maarten, M.S.  
Porreca, Courtney, M.S.

Melanie Edwards, Ph.D. (Biology)  
Neyda Abreu, Ph.D.  
Lysa Chizmadia, Ph.D.

Undergraduate Student Projects

Travis Ewing - Env. Sci. Working with Jaime Barnes on serpentinites.  
Patrick Mullen - Anthropological study of ancient bison.

Gary A. Smith, Professor

Courses taught

Spring:  
E&PS 105L – Physical Geology Lab coordinator (205 enrolled)  
E&PS 333 – Environmental Geology (26 enrolled)  
E&PS 482/582; ANTH 482/582 – Geoarchaeology (17 enrolled)  
E&PS 493 – Independent Study (1 enrolled)

Fall:  
E&PS 201L - Earth History (29 enrolled)  
E&PS 105L - Physical Geology Lab, coordinator (184 enrolled)  
E&PS 495 – Senior Thesis (1 enrolled)  
E&PS 551 – Problems (1 enrolled)  
E&PS 699 – Dissertation (1 enrolled)

I have, for the last four years, been actively developing and testing a variety of approaches to my teaching that are alternatives to traditional lecturing. I feel that I am succeeding as indicated by extremely strong ICES evaluations in 201 in Fall 2004 from a group that also evaluated the course as very challenging, and that achieved strong grades. I hope a similar approach will be as effective this semester in 333.
Student Advisement

Ph.D. Students Advised
Sean Connell, Ph.D.

Ph.D. Dissertation and/or Comprehensive Examination Committee
J. Michael Timmons                Debra Bryan
Matt Kirk                        Dennis Newell
Bart Faulkner (exam only)

M.S. Thesis and/or Examination Committee
James Ashby                      Jed Frechette
Tim Gere                        Chris Hepler
Kate Klise                       Shirley Libed
Amy Luther                       Richard Ortiz
Lea Ann Scott                    Austin Zinsser
Caitlin Callahan (exam only)

B.S./B.A. Honors Students Advised:
Caroline Myer

Michael N. Spilde, Research Scientist III

Guest lecture in E&PS 503 Organic Geochemistry
Guest lecture and microprobe demonstration for Eng 413/513 Technical Writing class.

Timothy F. Wawrzyniec, Senior Research Scientist

Courses taught

Fall:  Introductory Geology (176 enrolled)

Spring:  Alpine-Himalaya Tectonics (14 enrolled)

During the course of the current academic year, Dr. Wawrzyniec has been charged with developing a number of research projects, and handling the teaching load of Dr. John W. Geissman during his 2004-2005 sabbatical. During the fall term, Dr. Wawrzyniec taught Introductory Geology. It was the largest introductory course offered by the department that semester. During the spring 2005 term, Dr. Wawrzyniec was initially slated to participate in two graduate level seminar Classes, Alpine-Himalaya Tectonics with co-instructor Dr. Jane Selverstone, and LiDAR and Geospatial modeling. Unfortunately, the latter had to be canceled as no LiDAR scanner became available for use prior to the beginning of the spring term. Otherwise 14 students were enrolled in Alpine-Himalaya tectonics, which is an exceptional enrollment level for a graduate level seminar offered by the UNM Tectonics Group in the Department of Earth and Planetary Sciences.
2. PUBLICATIONS DURING THE CALENDAR YEAR 2004
(E&PS tenure-track Faculty are underlined; ** = research scientists; * = students)

Refereed Journal Papers and Chapters in Edited Volumes

Experimental constraints on the origin of Martian meteorites and the composition of the Martian mantle
Agee, C.B., and D.S. Draper

Conditions of core formation in the Earth: Constraints from nickel and cobalt partitioning
Chabot, N.L., Draper, D.S., and Agee, C.B.

A test of annual resolution in stalagmites using tree rings
Asmerom, Y. and Polyak, V.
Comment on Betancourt et al. (2002)

Prolonged wet period in the southwestern United States through the Younger Dryas
Polyak, V., Rasmussen, J., and Asmerom, Y.

Evidence for Prolonged KREEP Magmatism on the Moon from the Youngest Dated Lunar Igneous Rock
Borg, L., Shearer, C., Asmerom, Y., and Papike, J.

Tropical Response to the 8200 yr cold event? Speleothem isotopes indicate a weakened early Holocene monsoon in
Costa Rica
Lachniet, M.S., Asmerom, Y., Burns, S., Patterson, W.P., Polyak, V. and Seltzer, G.O.

A 1500 year El Niño/Southern Oscillation and rainfall history for the Isthmus of Panama from speleothem calcite
Lachniet, M.S., Burns, S.J., Piperno, D.R., Asmerom, Y., Polyak, V.J., Moy, C.M. and Christenson, K.,

Stable isotope variations in modern tropical speleothems: Evaluating applications to paleoenvironmental
reconstructions.

Morphology of [111]-elongated magnetite crystals in Martian meteorite ALH84001, magnetotactic bacterial strain
MV-1, and thermal decomposition of hydrothermally precipitated Fe-rich carbonate: Evidence for inorganic-only
formation of magnetite in the Martian meteorite.
Golden D.C., Ming D.W., Morris R.V., Brearley, A.J., Lauer, H.V., Jr., Bazylnsky, D.A., Treiman, A. Zolensky,

Mineralogy and petrology of a mullite-bearing pseudotachylyte: constraints on the temperature of coseismic
frictional fusion.
Moecher, D.P., and Brearley, A.J.
Undergraduate program focuses on international issues in water resources.

Tyler, S.W., S.E. Stiliman and M.E. Campana

EOS (Transactions, American Geophysical Union) 85(9): 89 and 92 (2004).

3-D Fluid-flow simulation in a clastic reservoir analog: based on 3-D ground-penetrating radar and outcrop data from the Ferron Sandstone, Utah: in eds. Chidsey, Jr., T.C., Adams, R.D., and Morris, T.H., editors, Regional to Wellbore Analog for Fluvial-Deltaic Reservoir Modeling: Ferron Sandstone of Utah


Plio-Pleistocene incision history of the Rio Ojo Caliente, Northern Española basin, and overview of the Rio Grande System in Northern New Mexico

Newell, D.I., Koning, D.J., Karlstrom, K.E., Crossev, L.J., and Dillon, M.


Hot time in the crater: post-impact pore waters, hydrothermal Circulation, and biological activity in the early late Eocene Chesapeake bay impact crater


Cycle and sequence stratigraphy of Middle Pennsylvanian (Desmoinsian) strata of the Lucero Basin, central New Mexico: in Carboniferous-Permian transition, Lucas, S.G. and Zeigler, K.E, eds.

Scott, L.A., and Elrick, M.


δ13C composition of organic carbon and dolomites, lithostratigraphy, and mudrock petrology of the Neoproterozoic Chuar Group (~770-742 Ma), Grand Canyon: Implications for pre-742 Ma climate change

Dehler, C.M., Elrick, M., Bloch, J.D., Crossev, L.J., Karlstrom, K.E., and Des Marais, D.J.


Volatiles in the sub-arc mantle: insights from volcanic and hydrothermal gas emissions.

Fischer, T.P., and Marty, B.


SO2 emissions to the atmosphere from active volcanoes in Guatemala and El Salvador, 1999-2002


Nitrogen systematics and gas fluxes of subduction zones: Insights from Costa Rica arc volatiles


Tracing magma sources in an arc-arc collision zone: Helium and carbon isotope and relative abundance systematics of the Sangihe Arc, Indonesia


Paleomagnetism of the Neoproterozoic Chuar Group, Grand Canyon Supergroup, Arizona: Implications for and Laurentia's Neoproterozoic APWP and Rodinia break-up

Weil, A. B., J.W. Geissman, and R. Van der Voo

- Transitional field clusters from uppermost Oligocene volcanic rocks in the central Walker Lane, western Nevada
  Petronis, M. S., Geissman, J. W., and McIntosh, W. C.

  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

  Geomagnetic flip
  Geissman, J.W.

  Application of NDVI data to characterize seasonal and interannual variability of vegetation communities in Central
  New Mexico, U.S.A.
  J. Weiss, D.S. Gutzler, J.A. Coonrod and C.N. Dahm

  Seasonal and interannual relationships between vegetation and climate in Central New Mexico, U.S.A.
  J. Weiss, D.S. Gutzler, J.A. Coonrod and C.N. Dahm

  Geomorphic response to seasonal variations in rainfall in Southwest North America
  D. Etheredge, D.S. Gutzler and F.J. Pazzaglia

  An index of interannual precipitation variability in the core of the North American monsoon region
  D.S. Gutzler

  Oxygen isotope heterogeneity in chondrules from the Mokoia CV3 carbonaceous chondrite

  The Meteoritical Bulletin

  Laramide cooling histories of the Grand Canyon, Arizona, and the Front Range, Colorado, determined from apatite
  fission-track thermochronology
  Kelley, S.A., Chapin, C.E., and Karlstrom, K.E.,

  Relating differential incision of Grand Canyon to slip along the Hurricane-Torreweap fault system, in Young, R.A.,
  and Spamer, E.E., eds., The Colorado River: Origin and evolution
  Pederson, J., and Karlstrom, K.E.

  Proterozoic tectonic evolution of the New Mexico region, in Mack, G.H. and Giles, K.A., eds., The Geology of New
  Mexico: A Geologic History
  Karlstrom, K.E., Amato, J.M., Williams, M.L., Heizler, M., Shaw, C.A., Read, A.S., and Bauer, P.
The Yavapai-Mazatzal boundary: A long-lived tectonic element in the lithosphere of southwestern North America

A Late Permian Chinese gastropod species, possibly larval, in the Middle Pennsylvanian of New Mexico
B.S. Kues, R.L. Batten, D.H. Erwin and P. Hua-Zhang

Middle Cretaceous stratigraphy, Southern Western Interior seaway, New Mexico and Oklahoma

Marine invertebrate assemblages from the Late Pennsylvanian (Virgilian) Holder Formation, Dry Canyon, Sacramento Mountains, south-central New Mexico
B.S. Kues

Late Pennsylvanian (Virgilian) fusulinaceans from the upper Atrasado and lower Red Tanks Formations, Carrizo Arroyo, Sierra Lucero, central New Mexico
G.P. Wahlman and B.S. Kues

Invertebrate fossils from the type sections of the Gray Mesa and Atrasado Formations (Middle to Upper Pennsylvanian), Lucero uplift, central New Mexico
B.S. Kues

Stratigraphy and brachiopod and molluscan paleontology of the Red Tanks Formation (Madera Group) near the Pennsylvanian-Permian boundary, Lucero uplift, west-central New Mexico
B.S. Kues

Devonian of New Mexico
B.S. Kues

The late Paleozoic Ancestral Rocky Mountains system in New Mexico
B.S. Kues and K.A. Giles

Tectonically induced clastic-carbonate depositional sequences of the Pennsylvanian-Permian transition in the Rowe-Mora Basin, northern New Mexico
K. Krainer, S.G. Lucas, and B.S. Kues
Geology of the Taos region (B.S. Brister et al., eds.), New Mexico Geological Society, Guidebook 55, p. 314-325 (2005)

Pennsylvanian trilobites from the Sangre de Cristo and Jemez Mountains, north-central New Mexico
B.S. Kues
Geology of the Taos region (B.S. Brister et al., eds.), New Mexico Geological Society, Guidebook 55, p. 326-334 (2005)

Fire-induced erosion and millennial-scale climate change in northern ponderosa pine forests
Yellowstone fires and the physical landscape

Meyer, G.A.
Ch. 3 in Wallace, L.L., ed., After The Fires: The Ecology of Change in Yellowstone National Park

Late-Pleistocene equilibrium-line altitudes, atmospheric circulation, and timing of mountain glacier advances in the interior northwestern United States, in Haller, K., and Wood, S.H., eds.

Fire and ice in central Idaho: modern and Holocene fires, debris flows, and climate in the Payette River Basin, and Quaternary and glacial geology in the Sawtooth Mountains, in Haller, K., and Wood, S.H., eds.

Plagioclase from planetary basalts: Chemical signatures that reflect planetary volatile budgets, oxygen fugacity, and styles of igneous differentiation
Karner, J.M., J.J. Papike, and C.K. Shearer

Comparative Planetary Mineralogy: V/(Cr + Al) systematics in chromite as an indicator of relative oxygen fugacity
Papike, J.J., J.M. Karner, and C.K. Shearer

Low Abundances of Highly siderophile Elements in the Lunar Mantle
Walker, R.J., M.F. Horan, C.K. Shearer, and J.J. Papike
Evidence for Prolonged Late Accretion. EPSL, v. 224, p. 399- 413 (2004)

Macroscopic invertebrates of Hidden and Hidden Chimney caves, Eddy County, New Mexico, Texas Memorial Museum
Cokendolpher, J.C. and Polyak, V.J.

Silicates in carbonate speleothems, in Sasowsky and Mylroie (eds) Studies of Cave Sediments
Polyak, V. J. and Guven, N.

Dynamic Pyrometamorphism during atmospheric entry of large (~10 micron) pyrrhotite fragments from cluster IDPs
F.J.M. Rietmeijer

Mesospheric metal abundances and meteoric dust: Analyses of surviving meteoroids
F.J.M. Rietmeijer

Microanalyses of interplanetary dust particles and micrometeorites: Implications for sample return missions to undifferentiated protoplanets
F.J.M. Rietmeijer

Laboratory hydration of condensed magnesiosilica smokes with implications for hydrated silicates in IDPs and comets
F.J.M. Rietmeijer, J.A. Nuth III and R.N. Nelson
C₆₀ and giant fullerenes in soot condensed in vapors with variable C/H₂ ratio
F.J.M. Rietmeijer, A. Rotundi and D. Heymann

First report of taenite in an asteroidal interplanetary dust particle: Flash-heating simulates nebular dust evolution.
F.J.M. Rietmeijer

Grain sizes of ejected comet dust: Condensed dust analogs, interplanetary dust particles and meteors
F.J.M. Rietmeijer and J.A. Nuth III

Major and trace element variations in impact crater clays from Chicxulub, Lunar, and Mistastin, implications for the Martian soil

Mid-Tertiary magmatism and its relation to rock cooling, exhumation, and extension at the eastern margin of the Colorado Plateau
Roy, M., S. Kelley, F. Pazzaglia, S. Cather, and M. House

Gravity models of the Colorado Mineral Belt et al., in The Rocky Mountain Region – An Evolving Lithosphere: Tectonics, Geochemistry, and Geophysics
McCoy, A., Roy, M., L. Trevino and R. Keller

Interactions between serpentinite devolatilization, metasomatism, and strike-slip strain localization during deep-crustal shearing in the Eastern Alps
Barnes, J.D.*, Selverstone, J., and Sharp, Z.D.

Water soluble chlorides in massive seafloor serpentinites: a source of chloride in subduction zones
Sharp, Z.D. and Barnes, J.D.

Stable isotope geochemistry of quartz veins from the SW Alps: Evidence of higher paleoaltitudes and of rapid cooling by meteoric water infiltration
Sharp, Z.D., Masson, H. and Lucchini, R.
American Journal of Science (2005)

Volatile and N-isotope chemistry of the Molucca Sea collision zone: tracing source components along the Sangihe arc, Indonesia

Stable isotope and chemical systematics of pseudotachylyte and wall rock, Homestake shear zone, Colorado, USA: Meteoric fluid or rock-buffered conditions during coseismic fusion?
Moecher, D.P., Sharp, Z.D.

Geomicrobiology of Cave Ferromanganese Deposits: A Field and Laboratory Investigation
Neogene tectonic, stratigraphic and play framework of the southern Laguna Madre-Tuxpan continental shelf, Gulf of Mexico

Tectonic forcing of shelf-rampe depositional architecture, Laguan Madre-Tuxpan Shelf, western Gulf of Mexico
Wawrzyniec, T.F., W. Ambrose, M. Aranda-Garcia, and U. H. Romano

Upper Miocene and Pliocene gas and oil plays in the Macuspana Basin, southeastern Mexico

Sandstone architecture of upper Miocene and Pliocene shoreface, deltaic, and valley-fill complexes, Macuspana Basin, southeastern Mexico report of Investigations -Texas, University)

Book Chapters

Magmatic flow paths and paleomagnetism of the Miocene Stoddard Mountain Laccolith, Iron Axis region, southwest Utah, USA

The Geology of New Mexico: A Geologic History
Geissman, J.W.
Paleomagnetism in New Mexico, in Mack, G.H., and Giles, K.A., eds.

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

Relating small-scale permeability heterogeneity to lithofacies distribution
M.N. Gaud*, G.A. Smith, S.A. McKenna
Aquifer characterization, John Bridge and David Hyndman, editors

Sensitivity of groundwater flow patterns to parameterization of object-based models of fluvial aquifers
S.A. McKenna, G.A. Smith
Aquifer characterization, John Bridge and David Hyndman, editors

How Does Earth Work? (preview edition)
G. A. Smith and A. Pun**
GSA Memories: 1948 and 1952
W.E. Elston
Geological Society of America GeoTales, v. 2 (2005)

W.E. Elston
Jahrbuch für Internationale Germanistik (International Yearbook of German Studies), Series A, v. 72, Berne (Switzerland), Verlag Peter Lang, p. 163-174 (2005)


The 2003 Eruption of Anatahan

Book Review: Intra-Oceanic Subduction Systems
Fischer, T.P.

Newsletter: IAVCEI Commission on the Chemistry of Volcanic Gases (CCVG)
Fischer, T.P.
Newsletter prepared with help of Dr. Yuri Taran (2004)

Meeting report Eighth Volcanic Gas Workshop

Observing the historic eruption of Northern Marianas Islands Volcano
Weins, D., Shore, P.J., Sauter, A., Hilton, D.R., Fischer, T., Camacho, J.T

The North American monsoon Model Assessment Project (NAMAP)
D.S. Gutzler, H.-K. Kim and R. W. Higgins
(Available from NOAA Climate Prediction Center, 5200 Auth Road, Camp Springs MD, 20746 and on the CPC website at http://www.cpc.ncep.noaa.gov/research_papers/ncep_cpc_atlas/11/atlas11.html

New Mexico's Changing Climate
D.S. Gutzler

Third-day road log from Talpa to the Rio Grande del Rancho Valley, U.S. Hill, Vadito, and Penasco
Geology of the Taos region (B.S. Brister et al., eds.), New Mexico Geological Society, Guidebook 55, p. 77-97 (2004)
Paleontology of the upper Flechado Formation near Talpa, New Mexico
B.S. Kues
Geology of the Taos region (B.S. Brister et al., eds.), New Mexico Geological Society, Guidebook 55, p. 79-81 (2004)

In memory of J. Paul Fitzsimmons, 1915-2003
B.S. Kues

Taos area stratigraphy and correlations for Proterozoic and Paleozoic
P.W. Bauer, K.E. Karlstrom, B.S. Kues, J.P. Dawson, M.L. Williams, A.S. Read and D. Ulmer-Scholle
Geology of the Taos region (B.S. Brister et al., eds.), New Mexico geological Society, Guidebook 55, p. 440 (2004)

Planetary Sampling Strategies: Lessons learned from the analysis of Small Extraterrestrial Samples
Shearer, C.K., J.J. Papike, and L. Borg

Remote Sensing and GIS technologies as applied to floodplain issues
L.A. Scuderi
Presented to the New Mexico Association of Floodplain Managers, April 2004, Rio Rancho, New Mexico (2004)

L.A. Scuderi

Review of “Ophiolites in Earth History
Selverstone, J.
EOS (2004)

Geologic map of the Bend 30’ x 60’ quadrangle, central Oregon

Peñasco to Española, third-day supplemental road log
D.J. Koning, G.A. Smith, and S.B. Aby
Geology of the Taos Region, B.S. Brister, P.W. Bauer, A.S. Read, and V.W. Lueth, eds.

Paleogeographic maps of the Taos area
G.A. Smith, P.W. Bauer, and D.J. Koning
Geology of the Taos Region, B.S. Brister, P.W. Bauer, A.S. Read, and V.W. Lueth, eds.,

Late Cenozoic Intrabasinal Deformation in Offshore Laguna Madre-Tuxpan Continental Ahelf and Related Deepwater Mexican Ridges Fold Belt

Shale, Salt, and Gravitational Sliding – a Threesome of Intrabasinal Tectonic Accommodation Processes with Examples from the Western Gulf Of Mexico
Wawrzyniec, T.F.
Evidence for a Direct Link Between Solar Variability and Holocene Climate in the Southwest USA
Asmerom, Y., Polyak, V., Burns, S., and Rasmussen, J.

History of headward erosion of the Grand Canyon from a study of speleothems
Polyak, V., Hill, C., and Asmerom, Y.

Late Holocene Climate Variability in the Southwestern United States from High-Resolution Speleothem Data
Rasmussen, J.B.T., Polyak, V.J., and Asmerom, Y.

Late Holocene Climate Variability in the Southwestern United States from High-Resolution Speleothem Data
Rasmussen, J.B.T., Polyak, V.J., and Asmerom, Y.

Eocene adakites in the Cascadia Forearc: Implications for the position of the Kula-Farallon Ridge
Tepper, J., Clark, K., Asmerom, Y., and McIntosh, W.

High-Resolution Speleothem Climate Record for the Past 5.2ky From Western Costa Rica
Soraruf, R.E., Burns, S.J., Lachniet, M.S., Asmerom, Y., and Burt, L.A.

Characterization of matrix in the EET92042 CR2 carbonaceous chondrite: Insights into textural and mineralogical heterogeneity
Abreu, N.M., and Brearley, A.J.

A Unique Style of Alteration of Iron-Nickel Metal in WIS91600, an Unusual C2 Carbonaceous Chondrite.
Brearley, A.J.

In Situ Location and Characterization of Carbon-bearing Phases in Carbonaceous Chondrites: Insights from Yamato 791198, a Weakly-altered CM2 Chondrite
Brearley, A.J.

Chondrule Glass Alteration in Type IIA Chondrules in the CR2 Chondrites EET 87770 and EET 92105: Insights into Elemental Exchange Between Chondrules and Matrices
Burger, P.V., and Brearley, A.J.

Aqueous Alteration of Carbonaceous Chondrites: New Insights from Comparative Studies of Two Unbrecciated CM2 Chondrites, Y-791198 and ALH81002
Chizmadia, L.J., and Brearley, A.J.

Formation of Fe-enriched boundary zones between chondrules and their fine-grained rims in Y791198.
Chizmadia, L.J., and Brearley, A.J.
Experimental Study of Serpentinization Reactions.
Cohen, B.A., Brearley, A.J., Ganguly, J., Liermann, H.P., Keil, K.

Microcrystal and amorphous materials in comets and primitive meteorites: keys to understanding processes in the early solar system.
Workshop on Chondrules and the Protoplanetary Disk, Kauai (2004).

A Xenolith Perspective on the Physical and Chemical Evolution of Continental Lithosphere.
Selverstone, J., Brearley, A.J., Roy, M., and Sharp, Z.

The Neoproterozoic Uinta Mountain Group revisited; a synthesis of recent work on the Red Pine Shale and related undivided clastic strata, northeastern Utah

Travertines, springs and gases of the southwestern US: Xenohills, links to tectonism and views of a deeply-dissected hydrologic system
Crossey, L.J., Fischer, T., Newell, D., Karlstrom, K.E., Hilton, D., Patchett, P.J., and Huntoon, P.
32nd International Geologic Congress, Florence Italy (335a) G 19.01 (2004).

Hypothesis for interacting paleoseismic and climatic controls for travertine deposition in the Colorado Plateau region
Karlstrom, K.E., Newell, D., Crossley, L.J., and Sharp, W.

Tracing the origins of travertine-depositing springs of the Colorado plateau region, USA
Newell D., Crossley L.J., Fischer T.P., Karlstrom K.E., Sharp Z., and Burke, C.

Shale provenance of the Mesoproterozoic Unkar Group, Grand Canyon, Arizona: Grenvillian influence on sedimentation of inboard Rodinia

Using oxygen-isotope values from Middle Pennsylvanian apatitic conodonts for estimating changes in glacial ice volumes
Neidel, L.L., Elrick, M., Scott, L., and Atudorei, V.

Milankovitch based correlation and timing of depositional cyclicity across the Lower Cretaceous Platform, NE Mexico

Missing arc-volcanic input to Upper Cretaceous foreland basin deposits of the Mexcala Formation, southern Mexico
Dehn, D., and Elrick, M.

Oxygen-isotopes of Middle Pennsylvanian apatitic conodonts as a potential record of Pennsylvanian glacial ice volume variations
Neidel, L.L., Elrick, M., and Scott, L.
The 1921-22 Shaler Memorial Expedition to South Africa: R.A. Daly's influence on Bushveld pioneers G.A.F. Molengraaff and A.L. Hall
W.E. Elston

Holocene Millennial-Scale Climate Variability in western North America
Fawcett, P.J., Armour, J., Castiglia, P.J., and Meyer, G.M.

The paleoclimatic implications of Holocene shoreline stratigraphy of the El Fresnal basin
Parker, J.S., and Fawcett, P.J.

Holocene paleoclimate and landscape response from lacustrine and alluvial stratigraphy, El Fresnal Basin, borderlands region, northern Chihuahua, Mexico
Parker, J.S., and Fawcett, P.J.

Deep Coring in the Valles Caldera, Northern New Mexico to Obtain a Long-Term Paleoclimatic Record
EOS Transactions, American Geophysical Union, v. 85 T43C-1346 (2004)

The role of the pre-eruptive hydrothermal system in the May 2003 eruption of Anatahan, Mariana Islands
DeMoor, J.M., Fischer, T.P., Hilton, D.R., Hauri, E., Carn, S., Juan T., and Camacho, J.T.

Nitrogen Isotopes in Olivine Separates from Volcanic Arcs, Hot Spots and Continental Mantle Xenoliths
Fischer, T.P., Takahata, N., Sano, Y., and Hilton, D.R.
Am, Geophys. Union, Fall Meeting (2004)


Water, gas, and phylogenetic analyses from sulfur springs in Cueva de Villa Luz, Tabasco, Mexico,
Spilde, M., Fischer, T.P., Boston, P.

Volatile emissions from subduction-related volcanoes: major and trace elements.
Fischer, T.P.
 NASA ESS Fellows meeting, Maryland (2004)

Insights into arc fluid budgets from Mariana melt inclusions
IAVCEI General Assembly, Pucon, Chile (2004)

Volatile light hydrocarbons and C-N-He isotope systematics of Yellowstone (Wyoming, USA) geothermal gases.
IAVCEI General Assembly, Pucon, Chile (2004)

SO2 flux measurements using the mini-DOAS: results from Masaya, Aso and Anatahan volcanoes,
IAVCEI General Assembly Pucon, Chile (2004)
- The importance of source composition on the carbon output at the Luzon and Bicol arcs, the Philippines
Hilton, D.R., Fischer, T.P., Stimack, J., De Leeuw, D.
IAVCEI Pucon, Chile (2004)

Insights into arc fluid budgets from Mariana melt inclusions

The CO$_2$-He isotope and relative abundance systematics of the Central American arc
GSA Penrose Conference, Mexico (2004)

Helium and Carbon Systematics of the Sangihe Arc, Indonesia: Tracing Volatile Sources in an Arc-Arc Collision.
GSA Penrose Conference, Mexico (2004)

The nitrogen isotope systematics of gas discharges from the Central American
GSA Penrose Conference, Mexico (2004)

Applications of paleomagnetism in understanding shear zone kinematics: The good, the bad, and the ugly
Geissman, J.W.

Complications for large magnitude early Cenozoic extrusion of Indochina
Burchfiel, B.C., Chen, Z., Akciz, S., and Geissman, J.W.

Characterization of magnetic properties and magnetic mineralogy of mantle xenoliths from the Río Puerco volcanic field, New Mexico
Callahan, C.N., Geissman, J.W., Brearley, A., and Silverstone, J.

Paleomagnetic and rock magnetic data from the Spanish Peaks, Silver Mountain, associated dike swarms, and related intrusions (south-central Colorado)
Muggleton, S., Geissman, J.W., and Wawrzyniec, T.F.

Paleomagnetism and fault kinematic analysis of the eastern Lucero Uplift, New Mexico
Petronis, M.S., Wawrzyniec, T.F., and Geissman, J.W.

Paleomagnetism of Tertiary intrusive and volcanic rocks from the Cerrillos Hills, New Mexico: Evidence for crustal block rotations in the Rio Grande rift
Harlan, S. S., and Geissman, J.W.

Kinematic inversion of plate motion and thrust plate rotations within the La Veta Pass thrust, Colorado
Wawrzyniec, T.F., Geissman, J.W., and Muggleton, S.

Refinement of the magnetostratigraphy of the Chinle Group (Late Triassic) of north-central and central New Mexico
Zeigler, K.E., Geissman, J.W., and Lucas, S.G.
Paleomagnetic and rock magnetic investigation of the high magnetic remanence in fault pseudotachylites
Geissman, J.W., Zechmeister, M., Ferre, E., and Mathanasekaran, N.

Seismicity without a fault? Structural evidence from pseudotachylites in the UHP Dora Maira massif
Zechmeister, M., Ferre, E., Geissman, J.W., Cosca, M., Caby, R., Frima, C., and Ward, C.

Paleomagnetic evaluation of crustal-scale block rotations in the Mina deflection of the central Walker Lane
Petronis, M.S., Geissman, J.W., and Oldow, J.S.

Nanomagnetic particles in rocks, from a microscopic perspective
Geissman, J.W.

Progress in Monsoon Research in the Americas
D.S. Gutzler, H.-K. Kim and R.W. Higgins
CLIVAR International Conference, Baltimore MD (2004)

NAMAP: The North American Monsoon Model Assessment Project
D.S. Gutzler, H.-K. Kim and R.W. Higgins
CLIVAR International Conference, Baltimore MD (2004)

D.S. Gutzler, E.M. Ritchie and T. Stickford
CLIVAR International Conference, Baltimore MD (2004)

NAMAP: The North American Monsoon Model Assessment Project
D.S. Gutzler, H.-K. Kim and R.W. Higgins
CLIVAR International Conference, Baltimore MD (2004)

D.S. Gutzler, E.M. Ritchie and T. Stickford
GEWEX Americas Prediction Project PI meeting, Boulder CO (2004)

Drought in the Americas: A Proposed Focus Area for GAPP and PACS
D.S. Gutzler and S.D. Schubert
GEWEX Americas Prediction Project PI meeting, Boulder CO (2004)

Complex Climatology in Complex Terrain: Slope Processes and the Seasonal Cycle
D.S. Gutzler and D. Etheredge
Pardee Symposium on Weathering, Slopes, Climate, and Late-Quaternary Geomorphic Change in Arid and Semi

A new automated system for rapid analysis of atmospheric H2O samples for stable isotope composition
M. Strong, Z. Sharp, and D.S. Gutzler
AGU Fall Meeting, San Francisco CA (2004)

Oxygen isotopes in early solar system materials: A perspective based on microbeam analyses of chondrules from
CV carbonaceous chondrites
Jones R.H., Leshin L. A., and Guan Y.
Chemical, mineralogical and isotopic properties of chondrules: Clues to their origin

Jones R.H., Grossman J. N. and Rubin A.E.

U-Pb and HF Isotopic Analysis of Zircon in Lower Crustal Xenoliths from the Navajo Volcanic Field: 1.4 Ga Mafic Magmatism and Metamorphism Beneath the Colorado Plateau
Crowley, J.L., Schmitz,* M.D., Bowring, S.A., Williams, M., and Karlstrom, K.E.,

4-D Images of the Lithosphere beneath the Rocky Mountains and Challenges for Understanding the Evolution of Continental, Lithosphere
Karlstrom, K.E.,

Geochronological and Thermochronological constraints on Proterozoic Lithospheric Evolution, Southwestern United States
Bowring, S.A., Flowers, R., Crowley, J., Schoene, B., Karlstrom, K.E., and Williams, M.L.,

Tectonic Heredity in the Grand Canyon and Implications for Tibetanscale Mesoproterozoic Intra-Continental Deformation in the Southwestern United States
Dumond, G., Williams, M., Mahan, K., Karlstrom, K.E., and Heizler, M.T.,

Metamorphic History of the Upper Granite Gorge, Grand Canyon, Arizona, and Implications for the Significance of Domain Boundaries in the Yavapai/Mazatzal Orogen
Mahan, K., Dumond, G., Williams, M., Jercinovic, M., and Karlstrom, K.E.,

Adding "Time" to the Earthscope Image: Petrologic Analysis, Structural Analysis, and Monazite Geochronology of the Proterozoic Crust
Williams, M., Jercinovic, M., Karlstrom, K.E., and Mahan, K.,

Progressive Proterozoic Growth of Southern Laurentia by Magmatic Stabilization of Lithosphere,
Whitmeyer, S.J., and Karlstrom, K.E.,

The Evolution of Laurentia as Documented by $^{40}$Ar/$^{39}$Ar Thermochronology Studies,
Heizler, M.T., Karlstrom, K.E., Shaw, C.A., Timmons, J.M., and Sanders, R.E.,

Provenance and Geochronology of Mesoproterozoic Sedimentary Rocks from Across the Southwest United States Revealed by $^{40}$Ar/$^{39}$AR Dating of Detrital Muscovites
Fletcher, K.E., Heizler, M.T., Karlstrom, K.E., Timmons, J.M., Crossey, L.J., and Bloch, J.D.,

Mantle Source for CO$_2$-Rich Springs in the Southwestern U.S.: Links Between Mantle Tomography, Neotectonics and Water Quality
Newell,* D.L., Crossey, L.J., Fischer, T.P., Karlstrom, K.E., and Kennedy, B.M.,
Colorado River System of the Southwestern U.S.: Longitudinal Profiles, Differential Incision, and a Hypothesis for Quaternary Tectonism at Both Ends
Karlstrom, K.E., and Kirby, E.,

Spring and Gas Chemistry of Travertine-Depositing Systems in Grand Canyon and the Colorado Plateau: A Paleohydrologic Record
Crossey, L.J., Karlstrom, K.E., Newell, D., Fischer, T., Hilton, D., Patchett, P.J., and Sharp, W.,

Exploitation of Precambrian fault networks by younger orogenesis: a test using Ar-Ar analysis of K-feldspars
Heizler, M.T., Karlstrom, K.E., Timmons, J.M., and Sanders, R.E.,

Tectonic map of the Laurentia at 800 Ma within Rodinia
Karlstrom, K.E.,

Linking deformation and metamorphism: constraining tectonics from metamorphic rocks
Williams, M.L., Mahan, K., Jercinovic, M., Goncalves, P., and Karlstrom, K.E.,
32nd International Geologic Congress, Florence Italy, G05.05 (65-2) (2004)

Multi-band seismic images of Proterozoic plate tectonics and modern basalt extraction structures in the western US

Lithospheric structure across an Archean-Proterozoic suture in the Rocky Mountain region of the United States
Keller, G., Randy, S.C., Miller, K., Levander, A., Andronicos, C., Karlstrom, K., and Prodehl, C.,

The evolution of Rodinia: Mesoproterozoic assembly and Neoproterozoic breakup
Bogdanova, S., Kampunzu, H., Li, Z.-x., Pisarevsky, S., Davidson, A., Fulk, R., Gladkochoub, D., Karlstrom, K.,
Myers, J., Karlstrom, K.E., and Pease, V.,

Late Pennsylvanian (Virgilian) marine invertebrate assemblages in the Holder Formation, Dry Canyon, Sacramento Mountains, New Mexico
B.S. Kues

Fire, Holocene climate change, and geomorphic response recorded in alluvial fan sediments
Pierce, J.L., and Meyer, G.A.,

Aspect and microclimatic influences on hillslope geomorphology, northeastern Arizona
Burnett, B.N., Meyer, G.A., and McFadden, L.D.,

Mid-Tertiary magmatism and its relation to rock cooling, exhumation, and extension at the eastern margin of the Colorado Plateau
Roy, M., S. Kelley, F. Pazzaglia, S. Cather, and M. House

Geodynamic models of the lithosphere: the connection to long-term tectonic history
Roy, M.,
SCEC-EarthScope Workshop (2004)
Dynamics of the Rio Grande Rift
Lowry, A., Roy, M., Sheehan, A., and Nerem, S.
Rocky Mountain EarthScope Workshop (2004)

Mid-Tertiary magmatism and its relation to rock cooling, exhumation, and extension at the eastern margin of the Colorado Plateau
Roy, M., S. Kelley, F. Pazzaglia, S. Cather, and M. House
Rocky Mountain EarthScopes Workshop (2004)

Gravity Models of the Albuquerque Basin and Tularosa Basin in the Rio Grande Rift,
Peterson, C. and M. Roy,
New Mexico; GSA Annual Meeting, 2004

Mid-Tertiary magmatism and its relation to rock cooling, exhumation, and extension at the eastern margin of the Colorado Plateau
Roy, M., S. Kelley, F. Pazzaglia, S. Cather and M. House
GSA Annual Meeting (2004)

Application of spatiotemporal pattern recognition techniques to predicting extratropical transition in tropical cyclones
Demirci, O., E.A. Ritchie, and J. S. Tyo

Application of spatiotemporal pattern recognition techniques to predicting extratropical transition of tropical cyclones
Demirci, O., E.A. Ritchie and J. S. Tyo

Model assessment for the North American Monsoon Experiment (NAMAP)

Understanding the extra tropical transition of tropical cyclones through COAMPS simulations
Ritchie, E.A.,
ONR SW regional review (2004)

The extratropical transition of tropical cyclones
Ritchie, E.A.,

Tropical Cyclones in Complex Vertical Shears
Ritchie, E.A.,

Remote Sensing for Hydrologic Modeling
L.A. Scuderi

Rapid Response for Grassland Management: Capturing Localized Greenup Through MODIS and NEXRAD Fusion
L.A. Scuderi and R.P. Watson
Assessing vegetation response to local rainfall events using nexrad weather radar and modis imagery

Data Fusion for Environmental Assessment: Integrating MODIS Imagery and NEXRAD Weather Radar

Ground- and Satellite-Based Assessment of Vegetation and Hydrologic Conditions in the Rio Grande, Pecos, and Canadian River Watersheds

Abrupt Transitions from Prolonged Drought to Wet Intervals: Climatic Trigger for Hillslope Erosion Events in the Colorado Plateau
McAuliffe, J.R., Scuderi, L.A. and McFadden, L.D.

Partial melting during ascent of granitic xenoliths from the Puerco necks, New Mexico: implications for in situ melting processes and for contamination of host basalts
Jung, E., Selverstone, J., and Brearley, A.J.

Gravity modeling of north-northeast trending low-gravity features at the western and eastern Colorado Plateau margins
McCarthy, J.*, Roy, M., and Selverstone, J.

Partial transformation of garnet lherzolite to spinel websterite in xenoliths from the Rio Puerco volcanic field, New Mexico: a record of incipient lithospheric extension
Porreca, C.A.*, Selverstone, J., and Brearley, A.J.

Oxygen isotopic compositions of ultramafic xenoliths from the Rio Puerco volcanic necks, NM, and implications for the source of metasomatic fluids in the lithospheric mantle
Perkins, G.*, Sharp, Z., and Selverstone, J.

Correlation of mantle xenolith data with geophysical images of the transition zone between the Colorado Plateau and the Rio Grande Rift

Lithosomes of the Tesuque Formation: Hydrostratigraphic and tectonic implications of a newly delineated lithosome in the southern Españaola basin, New Mexico
D.J. Koning, G.A. Smith, J. Lyman, and P. Paul

Petrographic analysis of cuttings from the Yates #2 La Mesa well and Tertiary tectonic history of the southern Españaola basin
C. Myer* and G.A. Smith
Petrographic analysis of cuttings from the Yates #2 La Mesa well and implications for the tectonic history of the southern Española basin
C. Myer* and G.A. Smith

Laramide basin or Laramide uplift? Using subsurface data to interpret the history of the Española basin, Rio Grande Rift, New Mexico
C. Myer* and G.A. Smith

Microorganism effects on cave formation, enlargement, and mineral precipitation: Unifying themes in Fe/Mn, sulfur and calcite case studies
Boston P.J., Spilde, M.N., and Northup D.E.

Manganese and Iron Interactions in Cave and Rock Varnish Communities
Boston P.J., Spilde, M.N., Northup D.E., *Mullen, K., Bargar, J., and *Carey, R.

Sulfur-Based Microbial Communities from Cueva de Villa Luz, an Extreme Sulfide-Rich Cave

Microscopic and chemical characterization of haloarchaeal occurrence in Austrian rock salt
Pfaffenhuemer M., Spilde, M.N., Boston P.J., Lütz-Meindl U. and Stan-Lotter H.
Plenary talk, p. 33; International Workshop on Geomicrobiology, Aarhus, Denmark (2004)

Haloarchaeal Occurrence in Ancient Austrian Rock Salt - Electronmicroscopic Characterization Studies and the possible Influence on Haloarchaeal Growth
Pfaffenhuemer M., Spilde, M.N., Boston P.J., and Stan-Lotter H.

Analysis of Ancient Austrian Rock Salt by using Electron-microscopic techniques
Pfaffenhuemer M., Spilde, M.N., Boston P.J. and Stan-Lotter H.
Fourth European Workshop on Exo/Astrobiology, Milton Keynes, Great Britain (2004)

Microbial Manganese Deposits in Caves and Rock Varnish
Spilde, M.N., Boston P.J., and Northup D.E.

Molecular characterization of microbial communities associated with rock varnish from Socorro, NM

High-resolution X-ray computed tomography applied to mineralized shear zones in the Cripple Creek Diatreme, Colorado
Mote, Alison S; Ketcham, Richard A; Kyle, J Richard; Wawrzyniec, T.F., Melker, Marc D.

A Kinematic Investigation In The Cripple Creek District, Central Colorado: Structural Controls Influencing The Location And Distribution Of High Grade Gold Ore Zones
Mote, Alison Suzanne, Melker, Marc D, Wawrzyniec, T.F.
Geological Society of America Annual meeting (2004)
Kinematic Inversion Of Plate Motion and Thrust Plate Rotations Within The La Veta Pass Thrust, Colorado
Wawrzyniec, T.F., Geissman, J.W., and Muggleton, S.
Geological Society of America Annual meeting (2004)

Paleomagnetism And Fault Kinematic Analysis Of The Eastern Lucero Uplift, New Mexico
Petronis, M.S., Wawrzyniec, T.F., and Geissman, J.W.
Geological Society of America Annual meeting (2004)

Preliminary Paleomagnetic And Rock Magnetic Data From The Spanish Peaks, Silver Mountain, Associated Dike
Swarms and Related Intrusions (South-Central Colorado)
Muggleton, S. R., Geissman, J., and Wawrzyniec, T.F.
Geological Society of America Annual meeting (2004)

Termination of the Offshore Northern Gulf of Mexico Structural Style, Burgos Basin, Mexico
Wawrzyniec, T.F., T. Hentz, M.D. Angelo, A. Cuevas, J.J. Hernández Mendoza, L.A. Sanchez-Barreda
AAPG Annual Meeting, Dallas, Texas (2004)
3. EXTERNALLY FUNDED RESEARCH GRANTS AND CONTRACTS

Awarded in January 1, 2004 – June 30, 2005

Acquisition of a MC ICP-MS For Earth Science Research In New Mexico
Y. Asmerom, PI, (L. Borg, L.J. Cressey, T. Fischer and V. Polyak Co-Pis)
National Science Foundation
$450,100 (08/01/03 - 08/05/05) (not including UNM match of $192,000)

U-series, Be, Sr, Nd and Pb Isotopic and Trace Element Constraints on Melting and Mass Transfer Processes in Arcs, Philippine Arc System
Y. Asmerom, PI
National Science Foundation
$137,000 (6/02 - 5/04)

Holocene paleoclimate for southwestern USA from annual banding in Carlsbad Cavern stalagmites
V. Polyak and Y. Asmerom (Co-Pis)
National Science Foundation
$180,000 (8/02 - 7/04)

Field-Scale in-situ measurements of vadose zone flow and transport...U-series, Sr isotopes
Y. Asmerom, PI
Department of Energy
$150,000 (9/02 - 8/05)

Geochronology of Planetary Materials: A Petrologic Approach
L. Borg and Y. Asmerom (Co-Pis)
NASA
$150,000 (2002-2005)

Y. Asmerom, PI (UNM)
National Science Foundation

Increasing Minority Ph.D.s in Geochemistry
Y. Asmerom, PI
Sloan Foundation
$55,000 (On-going -- 2005)

South Caucasus River Monitoring
M.E. Campana
North Atlantic Treaty Organization (NATO) and Organization for Security and Cooperation in Europe (OSCE)
$600,000 (10/1/02 – 9/30/06) ($170,000 added during 2004 for additional work – radionuclide sampling in the water column)

Towards the Establishment of a Central American Water Resources Development Center
M.E. Campana
Associated Liaison Office, American Assn. of State Colleges and Universities - U.S. Agency for International Development
$100,000 (10/1/02 – 9/30/04)
Student Recruitment, Retention and Experiential Learning in Water Resources
M.E. Campana
U.S. Department of Agriculture
$150,000 (10/1/02 – 9/30/05)

An REU Site in Water Resources for Developing Countries
M.E. Campana
National Science Foundation (co-PI with S. Silliman, U. of Notre Dame, and Scott Tyler, U. of Nevada-Reno)
$190,000 (3/1/02-2/28/05) (UNM share: $27,000)

A Quantitative Assessment of the Economic and Institutional Impacts of Climate Change on the Upper Rio Grande Valley Using an Integrated GIS Framework
M.E. Campana
National Science Foundation (co-PI with L. Scuderi (lead PI), O.P. Matthews, D. Brookshire and J. Chermak)
$675,000 (6/1/00 - 5/31/04)

Alliance for Minority Programs
L.J. Crossey
Undergraduate Research Support, NSF/AMP Program, subcontract through New Mexico State University
$55,000 (1/1/04 - 10/31/05)

Deep Coring of the Valles Caldera: Obtaining a Long-Term Paleoclimate Record
(Small Grant for Exploratory Research – SGER)
P.J. Fawcett and J.W. Geissman
National Science Foundation Paleoclimate Program (ATM)
$29,635 (5/15/04 - 4/30/05)

Deep Coring of the Valles Caldera: Obtaining a Long-Term Paleoclimate Record for Northern New Mexico
P.J. Fawcett and J.W. Geissman
Los Alamos National Laboratory, Institute for Geophysics and Planetary Physics (IGPP)
$35,000 (10/01/04 - 09/30/05)

Acquisition of an ICP-OES for Geoscience Research at the University of New Mexico
L.J. Crossey (PI), M. Ali, T. Fischer, Y. Asmerom and J. Selverstone (co-PI's)
National Science Foundation
$210,832 (01/01/05 - 12/31/06)

Collaborative research: Constraining the volatiles and slab flux in the Izu-Bonin-Marianas Arc using geothermal fluids, phenocysts and melt inclusions.
T. Fischer, PI; Hilton and Hauri co-Pis
National Science Foundation - OCE-0305218
$149, 916 (UNM) - $ 630,00 (06/01/03-5/31/06 - total for 3 institutions)

The North American Monsoon System Climate Process Team
J. Schemm, PI, and D. Gutzler, co-PI
NOAA Office of Global Programs/Climate Prediction Program for the Americas
$230K/yr ($40K/yr to UNM); 3/05-2/06, $230K/yr ($40K/yr to UNM)

Petrology of Hierarchical Dust Accretion
F.J.M. Rietmeijer, PI
National Aeronautics and Space Administration Cosmochemistry Program
$128,000 (4/1/04 - 3/31/05)
- Metastable Eutectics: Do they really control the composition of silicate vapor condensates?
  F.J.M. Rietmeijer, PI
  National Aeronautics and Space Administration
  $128,880 (8/04 – 7/31/07)

Transmission Electron Microscope characterization of chemical vapor deposits on the returned GENESIS heat shield
  F.J.M. Rietmeijer, PI
  SETI Institute
  $10,582 (9/1/04 – 4/30/05)

Exhumation of the Colorado Plateau – spatial and temporal distribution and implications for landscape evolution
  M. Roy, S. Kelley, J. Pederson, and D. Stockli; PIs
  National Science Foundation
  $47,034 (7/04 – 7/06)

Acquisition of computers and support for geodynamic modeling within an existing shared UNIX facility
  M. Roy, PI
  National Science Foundation
  $42,750; PI Start-up cost-share: $18,689; total: $61,439 (1/04 -12/05)

How fault-healing affects earthquakes at plate boundaries: An investigation of the temporal evolution of the strength of tectonic plates
  M. Roy, PI
  UNM-RAC
  $2650 (4/04 - 9/04)

Center for Rapid Environmental Assessment and Terrain Evaluation (CREATE) - Phase II
  L. Scuderi, PI
  NASA Earth Science Enterprise
  $1,496,000 (2004-2007)

New Mexico ESPCOR, Hydrology
  L. Scuderi, Co-Investigator
  National Science Foundation
  $3,000,000 (2004-2007) CREATE portion of project funded for $152,000

Evapotranspiration Modeling
  L. Scuderi, Co-Investigator
  New Mexico House Bill 2
  $12,000 (2004-2005)

An oxygen isotope geothermometer for monazite
  Z.D. Sharp and M.L. Williams (Collaborative Research)
  National Science Foundation
  $113,000 (06/01/05 – 05/31/07)

Constraining the nitrogen isotope systematics of high 3He/4He hot spots using geothermal fluids and phenocrysts
  T.P. Fischer and Z.D. Sharp, Collaborative Research
  National Science Foundation
  $113,581 (06/01/05) under consideration
Using oxygen isotopes from apatitic conodonts to understand the origins of Paleozoic-Triassic 3rd-order (My-scale) sea-level changes
M. Elrick and Z.D. Sharp
National Science Foundation
$205,183 (06/01/05) under consideration

New Mexico Center for Advanced Mass Spectrometry
Z.D. Sharp, J. Engen and C. Enke
Federal Priorities Request
$7.4 Million (2005) under consideration

Grants and Awards current in the period January 1, 2004 – June 30, 2005
(continued from previous years)

J. Selverstone, PI, coPis, A. Brearley and Z. Sharp
NSF Tectonics Program
$194,652 (1/03 – 12/06)

Serpentinite as a carrier of chlorine into the mantle
Z. Sharp, PI, coPis J. Selverstone and A. Brearley
NSF Petrology and Geochemistry Program
$144,000 (1/03 – 12/31/05)

Formation and alteration histories of chondritic materials
A.J. Brearley, PI
NASA Cosmochemistry Program
$290,000 (3/15/03 – 3/14/06)

Distribution, origins and parent body processing of carbonaceous material in chondritic meteorites: Insights from in situ characterization using energy filtered transmission electron microscopy.
A.J. Brearley, PI
NASA Exobiology Program
$174,702. (5/1/03 – 4/30/06)

NSF National Nanoscience Infrastructure Network.
S. Brueck, K. Malloy, J. Brinker and A. Brearley
$3.5M to UNM 1/1/04 – 12/31/09)

Acquisition of an Electron Microprobe.
A.J. Brearley, PI, CoPis. J. Selverstone, K.E. Karlstrom, M. Spilde and L.J. Crossey
NSF Instrumentation and Facilities Program
$280,000 (5/02 – 5/05)

Acquisition of an Electron Microprobe
J.J. Papike, PI, CoPis L. Borg, A. Brearley, R. Jones, F. Rietmeijer and C. Shearer
NASA Cosmochemistry Program
$280,000 (5/02 – 5/04)

Interactions between Deformation and Metamorphism: Controls on Shear Zone Rheology and Metamorphic Memory.
J. Selverstone, PI, Co.P.I. A.J. Brearley
NSF Petrology and Geochemistry Program
$140,002 (6/06 – 5/04)
Mechanisms and kinetics of aqueous alteration reactions in chondritic meteorites
A.J. Brearley
NASA Origins of solar systems program
$105,000 (6/1/02 – 5/30/05)

IGERT – Freshwater Sciences Interdisciplinary Doctoral Program
National Science Foundation, IGERT
$1,350,000 (8/1/99-7/31/04) including Univ. of Alabama, Partner w/ 9 additional Co-I’s

Alliance for Minority Programs: Undergraduate Research Support at the University of New Mexico
L.J. Cressey
P.I., New Mexico State University/NSF
$55,000 (11/1/03 to 10/31/04)

Collaborative research: Mesoproterozoic tectonics of inboard southwestern Laurentia: insight into assembly and configuration of Rodinia from study of sedimentary successions
L.J. Cressey and Co-I: PI K.E. Karlstrom, Co-I J. Bloch
NSF- Tectonics (EAR-028463)
$114,888 (7/1/02 to 6/30/05)

The Trail of Time at Grand Canyon: Planning and implementation
L.J. Cressey and Co-I: K.E. Karlstrom
NSF Informal Education Program, ISE- 0314132
$49,984 (09/15/03 - 08/31/04)

Identification of microbial signatures in biogenic cave ferromanganese deposits
L.J. Cressey and Co-I, M. Spilde, C. Dahm, w/ Boston (NMT)
NSF Biogeosciences Program, EAR-0311932
$291,644 (08/15/03 - 08/14/05)

Dissected hydrologic system at Grand Canyon: interaction between upper and lower world waters in modern springs and ancient travertines
L.J. Cressey and PI: T. Fischer
National Science Foundation, Hydrologic Sciences Program
$137,492 (07/01/03 - 06/30/05)

Geochemistry of Rio Grande Rift Travertine Depositing Springs– Implications for Rio Grande Valley Water Quality
L.J. Cressey and PI: D. Newell (Ph.D. candidate)
New Mexico Water Resources Research Institute
$5,000 (12/01/03 - 11/31/04)

Milankovitch-scale time resolution to determine rates and kinematics of folding
M. Elrick and (co-Pis D., Anastasio, K., Kodama, Lehigh University)
National Science Foundation, Collaborative Research, EAR-023087
$146,000 (1/03 - 12/04)

Upgrade to the superconducting rock magnetometer and acquisition of a high-sensitivity susceptibility system,
UNM Earth and Planetary Sciences Paleomagnetism Laboratory
J.W. Geissman
National Science Foundation, Instrumentation and Facilities
$108,600 (with UNM cost-match of $50,000)
Origin of high magnetic remanence in fault pseudotachylites and possible seismic implications
J.W. Geissman
National Science Foundation, Geophysics
$38,588 (UNM component, two years)

Identification of the plate boundary between India and Indochina through integrated petrologic, structural, and paleomagnetic analyses (collaborative research).
J.W. Geissman
National Science Foundation, Tectonics
$104,473 (request, UNM component, two years)

Biocomplexity Incubation Activity: Drought in mesic and arid environments – Climatology, biotic responses, and feedbacks
NSF Ecological Studies Program
$100K; 18 months, (7/01 – 04)

Climatic factors modulating warm season precipitation in Southwest North America
D. Gutzler
NOAA Office of Global Programs/Warm Season Precipitation Initiative
$166K; 48 months, (7/00 – 6/05)

CLIMAS partnership with the University of New Mexico
D. Gutzler
NOAA Office of Global Programs/Regional Integrated Climate Science Assessment Program
$40K; 22 months, (9/02 – 5/04)

Tropical cyclone activity associated with the North American Monsoon System
D. Gutzler and (co-PI: E. Ritchie)
NOAA Office of Global Programs/Warm Season Precipitation Initiative
36 months, (9/03 – 8/06), $95K/yr.

Microbeam Studies of Planetary Materials
D. Gutzler and P.I.: J. Papike; Co-Is: C. Shearer and R. Jones
NASA / Cosmochemistry
$735,000 (2/16/03 to 2/15/06)

Meteorite Museum Renovation and Associated Outreach Activities at the University of New Mexico
R. Jones, PI
NASA / Education and Public Outreach
$112,415 (8/16/03 to 2/15/06)

Geoscience Education at the Grand Canyon: Integrating Science and Education Through the Trail of Time Exhibit
PIs: L.J. Cressey and K.E. Karlstrom
NSF Geoscience Education Program (EAR-0314133)
$49,997 (03/01/03 to 02/29/04) 0.5 month in 2003

Post-doc grant: Continental Dynamics of the Rocky Mountains: structure, evolution, and geodynamics of the continental lithosphere
K.E. Karlstrom
NSF Continental Dynamics Program
$40,000 (07/01-03 - 06/30/04)
- Organizational structure for Rocky Mountain EarthScope: Science and education planning:
  K.E. Karlstrom
  NSF EarthScope Program
  $60,412 to UNM (02/01/04 - 01/31/06)

"IGERT": Freshwater graduate studies link fundamental science with applications through integration of ecology, hydrology, and geochemistry in regions with contrasting climates
PI (at UNM), Cliff Dahm, (I am one of ten collaborators at UNM)
National Science Foundation

Rio Grande dynamics, Albuquerque Reach
G. Meyer, PI
US Bureau of Reclamation – Cooperative Agreement For Technical Assistance In Water Resources Investigations
No. 00-FC-40-4670
$110,000 (2000-2005)

Geomorphic impacts of catastrophic fire in ponderosa pine ecosystems: Modern and Holocene perspectives from granitic mountains of central Idaho
G. Meyer, PI
National Science Foundation – Geology and Paleontology Program, EAR-0000905
$137,566 (Completed Jan. 31, 2004)

Beavers, climate, and environmental change over millennial timescales in the Northern Range of Yellowstone National Park
G. Meyer, PI
U.S. National Park Service, Yellowstone National Park

The extratropical transition of tropical cyclones
E.R.- Tyo, PI
Office of Naval Research, Marine Meteorology Program
$291,900 (9/1/03 – 6/30/06)

Mechanisms for Rapid Intensity Changes in Hurricanes
E.R.- Tyo, PI
National Science Foundation, Mesoscale Dynamic Meteorology Program
$272,329 (10/1/02 – 9/30/05)

Petrology of Hierarchical Dust Accretion
F.J.M. Rietmeijer, PI
National Aeronautics and Space Administration Cosmochemistry Program
$128,000 (4/1/03 – 3/31/04)

Center for Rapid Environmental Assessment and Terrain Evaluation (CREATE) - Phase I
L. Scuderi, PI
NASA Earth Science Enterprise
$1,800,000 (2003-2005)

Holocene glacial climate reconstruction in the Sierra Nevada Mountains, California using multiple techniques
L. Scuderi, Co-Investigator
UNM - LRAC 03-L-06
$7,450 (2003-2004)
Tectonic and metamorphic implications for high Cl-contents in serpentinites
Z. Sharp, J. Selverstone, and A. Brearley
National Science Foundation
$131,895 (3 years)

Collaborative research: Deformation rates and kinematics of ancient and active displacement transfer, central Walker Lane, western Great Basin
J.W. Geissman and J. Selverstone (collaborative with J. Oldow and W. McClelland, Univ. of Idaho)
National Science Foundation
$144,588 (6/15/02-5/31/05)

Integrated structural and geochemical investigation of alternate origins for "crack-seal" veins
C. Wiltschko, (TAMU) and Z.D. Sharp, PI (Collaborative Research)
National Science Foundation
$44,496 (6/1/01- 5/31/04)

Integrated stratigraphic, geomorphic, sedimentologic, numeric, and experimental study of hanging wall ramp architecture in continental half grabens
G.A. Smith and J.W. Geissman
National Science Foundation
$151,966 (1/04 -12/06)

Collaborative Research: Identification of Microbial Signatures in Biogenic Cave Ferromanganese Deposits
M. Spilde, D.E. Northup, C.L. Dahm, L.C. Crossey, in collaboration with P.J. Boston, NM Institute of Mining and Technology
National Science Foundation
$297,000 (8/15/04 – 7/31/07)
4. RESEARCH PROJECTS IN PROGRESS

Yemane Asmerom, Associate Professor

Manuscripts in press

Time-scale of magma differentiation in arcs from protactinium radium data
Geology, in press.

Speleothems: Encyclopedia of Paleoclimatology and Ancient Environments:
Y. Asmerom
Kluwer, Dordrecht, in press

U-series dating: Encyclopedia of Paleoclimatology and Ancient Environments:
Y. Asmerom
Kluwer, Dordrecht, in press

Proposals submitted in 2004 pending

Climate Variability in the Southwestern United States since the Last Glacial Maximum from Speleothem Data
Y. Asmerom and V. Polyak
National Science Foundation [36 months]
$288,377

Collaborative Research: A Speleothem-based Paleoclimate Study of Tropical and Sub-tropical Brazil
Y. Asmerom, UNM PI
National Science Foundation [48 months]
$169,501 [UNM]

Acquisition of an ICP-OES for Geoscience Research at the University of New Mexico
L. Crosse, M. Ali, Y. Asmerom, T. Fischer and J. Selverstone PIs
National Science Foundation [12 months]
$210,832

Bridging the Gap: Reconstructing the Evolution of Grand Canyon from the Dating of Speleothems:
V. Polyak, Y. Asmerom and C. Hill
National Science Foundation [24 months]
$162,216

Geochronology of Planetary Materials: A Petrologic Approach
L. Borg and Y. Asmerom (Co-PIs)
NASA 2005 -2008
$438,000
Adrian Brearley, Associate Professor

Proposals submitted and in review

Mechanisms and kinetics of aqueous alteration reactions in chondritic meteorites
A.J. Brearley
NASA Origins of solar systems program

Collaborative Research: Metamorphic Fluid Evolution and Rock Rheology
Selverstone, J, and Brearley, A.J.
NSF Tectonics Program
$149,909 (1 July 2006-31st June, 2008)

Complete HRTEM and FEGTEM petrographic characterization of STARDUST dust particles.
NASA STARDUST Participating Scientist Program
$57,162 (1 January, 2006 – 1 July 2006)

Manuscripts in press or submitted

Carbonate in the Vigarano CV3 carbonaceous chondrite: Terrestrial, preterrestrial or both?
Abreu, N.M.* and Brearley, A.J.

Defining geochemical signatures of partial melting processes in the crust.
Antignano, A, Rushmer, T., Brearley, A.J. and Shearer, C.K.

The action of water. In 'Meteorites and the Early Solar System II'
Brearley, A.J.

The onset of metamorphism in ordinary and carbonaceous chondrites.
Grossman, J.N. and Brearley, A.J.

Timescales for secondary alteration of chondritic meteorites. Meteorites and the Early Solar System II edited by Lauretta,
Krot, A.N., Hutcheon, I.D., Brearley, A.J., Pravdivtseva, O.V., Petaev, M.I. and Hohenberg, C.M.
McSween and Leshin (in press, 2005).

Experimental aqueous alteration of the Allende CV3 carbonaceous chondrite; Insights into asteroidal aqueous alteration
Jones, C.L.* and A.J. Brearley

Electron microbeam analysis of aerosols from the plume of Poás volcano and comparison with equilibrium plume chemistry modeling.

Microcrystals and amorphous materials in comets and primitive meteorites: keys to understanding processes in the early solar system.
Nuth, J.A. Jr., III, Brearley, A.J. and Scott, E.R.D.
Thermal processing and radial mixing of dust: Evidence from Comets, Chondrules and Matrices of Primitive Meteorites.
Wooden, D.H., Harker, D.E. and Brearley, A.J.

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 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 ALH84001.

Transmission electron microscopy of fine-grained rims from the Y791198 CM2 carbonaceous chondrite (Lyia Chizmadia)

Ubiquitous nanophase carbides in CM2 chondrites: Evidence for widespread Fischer-Tropsch catalysis reactions in the early solar system.

Iron carbides in the Vigarano CV3 chondrite; Constraints on the conditions of asteroidal aqueous alteration (with Neyda Abreu).

Mineralogy of fine-grained rims in the Yamato 791198 CM2 carbonaceous chondrite (with Lyia Chizmadia).

Michael E. Campana, Professor

Manuscripts in press

M.E. Campana
National Academy Press, Washington, DC. (in press)

M. Gabora and M.E. Campana
International Atomic Energy Agency TECDOC, Vienna (in press)

Research projects in progress

Developing integrated water resources models that combine physical-socioeconomic aspects of water resources systems. Have submitted a proposal (along with two other PIs) to NSF's Human and Social Dynamics program for funding.
Developing systems dynamic watershed models under the auspices of the NATO/OSCE project (see above); also submitted a proposal to the Civilian Research and Development Foundation for funding.

Laura J. Crossev, Professor

Manuscripts in press


Manuscripts in review or under revisions


Submitted in review


Proposal submitted in 2004 (pending)

The Trail of Time: Informal Science Education initiative at Grand Canyon
Co-I: w/K. Karlstrom and Semken, S. (ASU)
NSF Informal Science Education Program
$752,664 (2005 to 2007); pending

Collaborative Research: Integrated Exploration of the Cretaceous-Tertiary Transition in the Extreme Northern Gulf of Mexico
Co-I; with Oboh-Ikuenobe, F. (UMo/Rolla), Holbrook, J. (UMo/Rolla), Newsom, H. (IOM)
NSF/EAR
$82,354; 08/01/05 to 07/31/07

Collaborative Research: Eocene to modern hydrochemical effects of marine impacts- Investigation of the Chesapeake Bay Impact Structure
Co-I; with D. Larsen (UMemphis), B. Cohen and M. Spilde (IOM)
NSF/EAR
$111,955; 07/01/05-06/30/07

Collaborative Research: Microbial Biosignatures in Carbonate Cave Pool Precipitates
Co-I; with M. Spilde (IOM), D. Northup (UNM, Bio.), P. Boston (NMT)
NSF/Biocomplexity
$172,110 to UNM; 09/01/05-08/31/08

Submitted/not funded in 2004

Track 1, GK-12: Ecohydrogeology in the Middle Rio Grande Environment
Co-I; with Scott Collins (UNM, Bio) and Doug Earick (A&S)
NSF/HER
$1,736,028, 04/01/05-03/31/08

Hypothesis for links between mantle tectonism, crustal seismicity, and water quality at the continental scale in the western U.S.: record in travertines and xenowhiffs
P.I.; with K. Karlstrom and T. Fischer
NSF/EarthScope
01/01/2005-12/31/2006, $195,834

Bench-scale analysis and modeling of the role of iron reduction in arsenic precipitation during bacterial sulfate reduction
P.I.; but proposal was dominantly put together by PhD candidate Matthew Kirk
American Water Works Association
03/01/05-02/28/06, $70,000
Proposal is ranked as an alternate for funding in 2006 (proposal ranked 5th, they funded 4!)

Other writings submitted and in preparation

Report to the Department of Resource Protection, Jemez Pueblo: Geothermal Assessment: by Shari Kelley, Laura Crosse, Karl Karlstrom, Dennis Newell, Chris Cox

Manuscripts in preparation


Elrick, M. and Molina-Garza, Roberto, High-resolution isotope stratigraphy and lithostratigraphy of the Cenomanian-Turonian (Late Cretaceous) boundary, southern Mexico (Cretaceous Research).

Scott, L.A. and Elrick, M., Stratigraphic and isotopic evidence of Pennsylvanian glacio-eustasy from the Gray Mesa Formation, central New Mexico (Sedimentary Geology).


Proposals pending

Enhancing Diversity in the Geosciences- Faculty Workshops at GSA Annual Meetings National Science Foundation, $45,000, July 2005-2006. (co-Pis G. Lewis, L. Wardell).

Enhancement of Undergraduate Geoscience Education and Teacher Training at the University of New Mexico Using Hands-On Inquiry-Based Learning and Visualization Techniques National Science Foundation $184,584, 2005-2008. (co-Pis L. Scuderi, M. Nyman, J. Selverstone).

Using oxygen isotopes from apatitic conodonts to understand the origins of Paleozoic-Triassic 3rd-order (My-scale) sea-level changes, National Science Foundation, $204,000, 2005-2008. (co-PI Z. Sharp).

Wolfgang E. Elston, Professor Emeritus, Senior Research Professor

On-going research

On-going Petrographic studies of rocks collected in 2003, Bushveld Complex, South Africa (major project).

On-going research on Cenozoic volcanic rocks of southwestern New Mexico.

Examination of possible shatter cones (evidence for a major meteorite/asteroid/comet impact?) near Santa Fe, NM (with T. McElvay, Santa Fe).

Peter J. Fawcett, Assistant Professor

Manuscripts in preparation


Scuderi, L.A. and Fawcett, P.J., Holocene glacial climate reconstruction in the Sierra Nevada Mountains, California, in preparation for Quaternary Research

Fawcett P.J. and Castiglia, P.J.*, Paleolimnological record of late Quaternary climate change from Laguna El Fresnal, northern Mexico, to be submitted to Quaternary Research.

Fawcett, P.J., Sedimentology and stratigraphy of the Jurassic Morrison Formation in the Black Mesa region, NE Arizona, to be submitted to New Mexico Geology

Journal article submitted


Tobias Fischer, Assistant Professor

Manuscripts in press


Other research projects

Geochemical and geomicrobiological investigations of Yellowstone hot springs (Obsidian Pool and Sylvan Springs) with Everett Shock and Jan Amend, Washington University.
The Geochemistry of hydrothermal fluid discharges on Dominica and St. Lucia, Lesser Antilles: implications for volcanic surveillance (Linda Brown, K-S u-grad fellowship, University of the West Indies). Visited UWI for 2 weeks to set up GC lab.


Gas emissions from the Southern and Central Volcanic Zones, Chile.

John W. Geissman, Professor

Proposals in review

Collaborative Research: Lithostratigraphy, Biostratigraphy and Magnetostratigraphy of the Upper Triassic Chinle Group, Chama Basin, NM: How Stratigraphically Complete is the Chinle Group? J.W. Geissman and Larry Tanner
National Science Foundation, EAR, Geology and Paleontology

Manuscripts in Review


Papers in press


71
Petronis, M. S., Geissman, J. W., Oldow, J. S., and McIntosh, W. C. Tectonism of the southwest Silver Peak Range, central Walker Lane, Paleomagnetic, Ar/Ar, and U/Pb data bearing on the exhumation history of the footwall to a regionally extensive detachment system in the Walker Lane, Geological Society of America Special Paper.


Evolution of the Potrillo volcanic field, Rio Grande rift, southern New Mexico, U.S.A. Part I. Geochemistry, 3He surface exposure dating, and paleomagnetism.

Manuscripts in Preparation


Snow, J.K., J.W. Geissman, and B.P. Wernicke Age and paleomagnetism of contractile structures in the Cottonwood Mountains, Death Valley area, southeast California, Elsevier, Earth Science Reviews, Wright/Troxel volume.


J.W. Geissman, on the paleomagnetic signature of crystalline crust in extensional terranes, intended for Tectonics

J.W. Geissman, Paleomagnetic data from the Hoover Dam area document approximately 45 degrees of counterclockwise rotation related to slip along the Lake Mead Fault System, intended for Tectonics


J.W. Geissman, J.T. Callian* and J.S. Oldow, Further paleomagnetic results from Mesozoic plutons of the Walker Lane area, west-central Nevada, and tectonic implications, Tectonophysics.


**Unsuccessful proposals for grants**

Lithostratigraphy, Biostratigraphy and Magnetostratigraphy of the Upper Triassic Chinle Group, Chama Basin, New Mexico: How Stratigraphically Complete is the Chinle Group?

J. W. Geissman and Spencer Lucas
American Chemical Society, Petroleum Research Fund
$120,000 (request, three years) (submitted in January, 2004, declined)

Collaborative Research: Controls and mode of laccolith emplacement: An integrated structural and AMS study, southwest Utah and central Montana
Daniel Holm and John Geissman
National Science Foundation, EAR, Tectonics
$98,197 (request, three years)

**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)
Cenozoic intrusions (Utah, Nevada, New Mexico)
Mesozoic intrusions and fault-generated pseudotachylites (Nevada, Colorado, California, Mexico)

**David Gutzler, Professor**

**Proposal in review**

Causes and Predictability of Multi-year North American Droughts (PI: S. Schubert, NASA; UNM co-I: D. Gutzler)
NASA Energy and Water Cycle Research Program
36 months, Mar 05-Feb 07, $230K/yr ($65K/yr to UNM).
Manuscripts in progress  [*student co-authors]

A unified view of the American monsoon systems
J. Climate, accepted for publication (Nov 2004) pending revision.

Climatic modulation of water demand in the City of Albuquerque, New Mexico USA
D.S. Gutzler and J. Nims*
J. Applied Meteorology, accepted for publication (Dec 2004) pending minor revision.

The North American Monsoon Model Assessment Project: Integrating numerical modeling into a field-based process study
D.S. Gutzler, H.-K. Kim and R. W. Higgins

Once and future climates in New Mexico and North America: The Ice House and the Hot House: Anti-analogues?
D.S. Gutzler
New Mexico's Ice Ages NMMNH Bulletin 28, in press.

Temperature and precipitation patterns associated with the 1950s drought in the U.S. Southwest
H.F. Diaz and D.S. Gutzler

Rhian H. Jones, Research Scientist

Proposals submitted

Meteorite Museum at the University of New Mexico: An interface between a university research institute and K-12 students and teachers.
NSF / Opportunities for Enhancing Diversity in the Geosciences
Budget: $177,526.
Submitted October 2004 (Pending)

Manuscripts in press in review


Meteorite Museum Renovation Project (2004 Activities).


Karl E. Karlstrom, Professor

NSF Proposals submitted


Articles in press


Papers submitted and in review


Other Writings


Geologic Maps published in 2003 or in prep for 2004

Timmons, J.M., Karlstrom, K.E., Pederson, J., 2005, Geologic map of Eastern Grand Canyon (Chuar Valley and Furnace Flats area) at 1:24,000 scale, in prep for 2005 publication.

Other quadrangle maps in progress and to be completed in 2005 for the New Mexico State map effort are: La Jolla, Ojo Caliente, Becker, Scholle. Each of these are in the second year of 2-year projects, with funding to pay students and field costs.

Barry S. Kues, Professor

Manuscripts in revision

Upper Cretaceous (Turonian) decapod crustaceans from central New Mexico
E. K. Toolson and B.S. Kues
Journal of Paleontology

Manuscripts in review

A case of nautiloid-scaphopod homeomorphy in the late Paleozoic of the United States
B.S. Kues, E.Y. Yochelson, and R. Mapes
Lethaia

Manuscripts in preparation

Early Pennsylvanian (Morrowan) brachiopod faunas from the Osha Canyon Formation, Jemez Mountains, New Mexico
B.S. Kues
For Journal of Paleontology

Stratigraphy and paleontology of Middle Pennsylvanian strata in Chaves Box, Rio Arriba County, northern New Mexico
K. Krainer, S.G. Lucas, and B.S. Kues
For New Mexico Geological Society, Guidebook 56

A brief history of the development of knowledge of New Mexico geology, 1850-1975
B.S. Kues
For New Mexico Geological Society, Special Publication
Micromolluscs from the Madera Group (Upper 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

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 strata and paleontology in NM; studies of Mississippian and Lower Permian brittle stars from south-central New Mexico; study of Atokan (Middle Pennsylvanian) invertebrate assemblages from the Sandia Formation in Jemez Mountains.

Grant A. Meyer, Assistant Professor

Papers in Preparation or Review


Unsuccessful proposal

Collaborative Research: Fire, climate, and hillslope-alluvial system response, Sacramento Mountains, New Mexico
National Science Foundation – Geology and Paleontology Program, EAR-0345258
G.A. Meyer, PI; L.D. McFadden, co-PI
Submitted July 15, 2004 ($211,338; not funded)

Leslie D. McFadden, Chair and Professor

Proposal Submitted

"Fire, climate and hillslope-alluvial system response, Sacramento Mountains, New Mexico" Co-Principal Investigator, National Science Foundation, 6/2004 – 6/2007 ($213,630)
Unfunded Research

Studies of the soils, geomorphology and Quaternary stratigraphy and ecology of the Blue Gap area, Colorado Plateau, NW Arizona.

Studies of soil geomorphic evolution of the landscapes of selected areas of the West Mesa in the Albuquerque area in association with analysis of Folsom culture archeological sites.

James J. Papille, Senior Research Professor

Manuscripts in press or review


Victor Polyak, Senior Research Scientist

Manuscript in press


Proposals submitted

Bridging the Gap: Reconstructing the Evolution of Grand Canyon from the Dating of Speleothems
V.J. Polyak, Y. Asmerom, C.A. Hill
National Science Foundation
Submitted and in review

Manuscripts in preparation

Climate variability in the northwestern Arizona region through the Younger Dryas
V.J. Polyak, Y. Asmerom, J.B.T. Rasmussen, S.J. Burns, and M.S. Lachniet
For Science

Correction of U-series dates using multiple measured initial $^{230}$Th/$^{233}$Th ratios and $^{232}$Th concentrations
V.J. Polyak, J.B.T. Rasmussen, and Y. Asmerom
For Earth and Planetary Science Letters

Causes for Large-scale precipitation variability in the southwestern USA during the late Holocene
J.B.T. Rasmussen, V.J. Polyak, and Y. Asmerom
For Science

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Solar-forcing of climate in southwestern USA through the Holocene
Y. Asmerom, V.J. Polyak, S.J. Burns, J.B.T. Rasmussen
For Science

Manuscripts submitted or in press

Annual chronology and climate record in speleothems: A reprise
Y. Asmerom and V.J. Polyak
For Geology

Comet Cones: A new variety of cave cone
V.J. Polyak and P.P. Provencio
For Journal of Cave and Karst Studies

Lava Tube Caves, a chapter in “Cave Conservation and Restoration”
V. Hildreth and J.C. Werker, eds.
V.J. Polyak and P.P. Provencio

Other research

Timing of last major lake highstand in Lake Estancia from U-series dating of magnesite and gypsum. Collaborating with Roger Anderson, Necip Guven, and Bruce Allen.


Age of calcite coating over Brazilian rock art using U-series. Collaborating with South American scientists.

Elizabeth Ritchie-Tyo, Research Associate Professor

Proposals submitted and in review

E. Ritchie-Tyo
DoD FY2005 DURIP
$369,758 (1 May 2005 – 30 April 2006).

Collaborative research: Identifying environmental and vortex-scale controls of secondary eyewall formation in tropical cyclones.
J. Kossin (SSEC) and E. Ritchie-Tyo
National Science Foundation, Large Scale Dynamic Meteorology Program:

Use of Space-Time Pattern Analysis in Understanding and Predicting Tropical Cyclone Genesis.
E. Ritchie-Tyo and J. S. Tyo
National Aeronautics and Space Administration:

The Effects of Waves on Tropical Cyclogenesis and Convective Organization in the Tropical Northeast Pacific during TCSP.
W. M. Frank (PSU) and E. Ritchie-Tyo
National Aeronautics and Space Administration:
Manuscripts in Preparation

On the interaction between vertical wind shear and tropical cyclones: The beta plane (with W. M. Frank, PSU).

A simulation of an annular hurricane (with W. M. Frank, PSU).

On the interaction between vertical wind shear and tropical cyclones: Easterly shear versus westerly shear (with W. M. Frank, PSU).

Effects of Vertical Wind Shear on Tropical Cyclone Intensity and Structure: Directional and Cross-Track Shear (with W. M. Frank, PSU).

Simulations of the extratropical transition of tropical cyclones: phasing between the upper-level trough and tropical cyclone (with R. L. Elsberry, NPS).

Using time series of spatial pattern recognition techniques to predict extratropical transition and reintensification of tropical cyclones (with O. Demirci and J. S. Tyo).

The effects of vertical wind shear on Tropical Storm Chantal during CAMEX-4 (with J. Halverson, G. Heymsfield NASA).

Using time series of spatial pattern recognition techniques to predict extratropical transition and reintensification of tropical cyclones (with O. Demirci and J. S. Tyo).

Effects of outer rainband convective asymmetries on tropical cyclone structure (with W. M. Frank PSU).

Mesoscale vortex contributions to tropical cyclogenesis (with G. J. Holland MMM, NCAR)

Modification of simulated tropical cyclone structure by interaction with environmental shear and sea-surface temperature gradient (with R. L. Elsberry NPS).

Peer-reviewed papers:


Technical Reports

Manuscripts in press

Iron-sulfides and layer silicates: A new approach to aqueous processing of organics in interplanetary dust particles, CI and CM meteorites.
F.J.M. Rietmeijer
Adv. Space Res.

Natural carbynes, including chaoite, on Earth, in meteorites, comets, circumstellar and interstellar dust.
F.J.M. Rietmeijer and A. Rotundi
In Polyyenes: Synthesis, Properties, and Application, F. Cataldo (ed), Taylor & Francis, Inc.

Revisiting C₆₀ fullerene in carbonaceous chondrites and interplanetary dust particles: HRTEM and Raman spectroscopy.
F.J.M. Rietmeijer, J. Borg and A. Rotundi A.
Lunar Planet. Sci. XXXVI, CD-ROM #1225, Lunar and Planetary Institute, Houston

Experimental evidence for extremely high polarization of fluffy Mg-silicate aggregates.
H. Volten, O. Muñoz, F. Rietmeijer, J. Nuth, R. Waters and J. Hovenier
Proc. 8th Conference on electromagnetic and light scattering by nonspherical particles

Manuscripts submitted

Quantitative material properties for meteoroids from interplanetary dust particles.
F.J.M. Rietmeijer
Adv. Space Res.

Meteors: A mapping tool of astrominerals and protoplanet evolution.
F.J.M. Rietmeijer
In Conf. Proc. Meteoroids 2004

Long-term, frequent dust collections in the tropopause region
F.J.M. Rietmeijer
Proc. SOFIA Upper Deck Science Opportunities Workshop, NASA Ames Research Center, Moffett Field (CA), June 22-23.

Laboratory simulation of Mg-rich ferromagnesiosilica dust: The first building blocks of comet dust.
F.J.M. Rietmeijer and J.A. Nuth III
Adv. Space Res.

M. Langbroek, F.J.M. Rietmeijer and H. Betlem
Meteoritics and Planetary Science

Electron microbeam analyses of aerosols from the plume of Poás Volcano, Costa Rica and comparison with equilibrium plume chemistry models.
M.A. Pfeffer*, F.J.M. Rietmeijer, A.J. Brearley* and T.P. Fischer*
J. Volc. Geothermal Res.

Towards a SOFIA Upper Deck Research Facility.
Manuscripts in preparation

Fullerenes, carbon calabashes, hollow carbon nanoglobules and presolar graphite in chondritic interplanetary dust particles, CI1, CI2 and CM carbonaceous meteorites
F.J.M. Rietmeijer

Natural C60 and large fullerenes: A matter of detection
A. Rotundi, F.J.M. Rietmeijer and J. Borg

Unsupported Research

Petrology of condensed nanocarbons, in cooperation with Prof. A. Rotundi, Institute of Mathematics, and Applied Physics, University of Naples "Parthenope", Naples, Italy.

Light scattering of vapor-condensed silicate dust, in cooperation with Prof. J. Hovenier and Dr. H. Volten, Astronomical Institute, University of Amsterdam, the Netherlands.

Light scattering of vapor-condensed silicate dust, in cooperation with Prof. A.C. Levasseur-Regourd and Dr. E. Hadamcik, Univ. Paris 6, Aeronomie CNRS, Verrieres, France.

Iron oxidation states in condensed FeSiO silicate smoke, in cooperation with Dr. P. Rochette, CNRS University of Aix-Marseille 3, Aix en Provence, France.

Mousumi Roy, Assistant Professor

Papers submitted


Publications to be submitted

Thermal evolution of the Colorado Plateau region following removal of the Farallon Slab
M. Roy and T. Jordan
to be submitted, March, 2005

Effects of deep bedrock river incision on upper and lower crustal deformation; expected submission
M. Roy
May 2005
Along-strike variations in flexural responses to extension in the Rio Grande Rift and implications for the strength of the lithosphere
M. Roy and *Peterson, C.,
to be submitted to Tectonics, 2005

Subsurface density variations inferred from long-wavelength Bouguer anomalies across the Colorado Plateau, to be submitted
*MacCarthy, J. K. and M. Roy
May 2005

Geomorphic expression of extension in convergent orogens
F. Pazzaglia, J. Selverstone, M. Roy and 3 others
to be submitted, 2005

Unsuccessful proposals

Testing models of the Tertiary evolution of the Colorado Plateau based on constraints from magmatic patterns, xenoliths, geologic data, and present-day physiography (PI: M. Roy), National Science Foundation

Collaborative Research: Mapping upper mantle anisotropy in Western US: Constraints on Crust-Mantle Coupling (PI: J. Gaherty, L. Zhao, M. Roy, A. Lerner-Lam), National Science Foundation-Earth Scope

Pending proposals


Research Projects

Thermal evolution of the Colorado Plateau following removal of the Farallon slab; collaboration with T. Jordan (USC)

Interpretation of long-wavelength gravity anomalies across the Colorado Plateau (J. MacCarthy MS Thesis work).

A comparative study of the basins of the Rio Grande Rift based on gravity and flexure models (with C. Peterson, senior thesis).

Exhumation and surface uplift of the Colorado Plateau based on rock cooling and erosion from apatite fission-track and (U-Th)/He thermochronology (with co-PI’s: S. Kelley, J. Pederson, and D. Stockli; NSF-funding: $47,034 to MR; 7/2004-7/2006).

Bedrock river incision and its effects on upper and lower crustal deformation (revisiting the “tectonic aneurism”).

Louis Scuderi, Associate Professor

Manuscripts in revision

Manuscripts in preparation

Scuderi, L.A., and Fawcett, P. A reevaluation of the timing and extent of middle and late-Holocene glaciations and climatic conditions in the Sierra Nevada. To be submitted to Quaternary Research.

Book reviews


Proposals submitted


"Enhancing Rangeland Monitoring and Management through integration of MODIS and NEXRAD data fusion and products in the US Bureau of Land Management - Vegetation Monitoring and Analysis Program (VMAP)." Co-Principal Investigator. NASA, Science Mission Directorate, Decision Support through Earth Science Results, $1,191,851


Jane Selverstone, Professor

Manuscripts in press


Manuscripts in review

Steffen, K.* and Selverstone, J., in revision. Determining the metastable chemical energy (MCE) in metamorphic assemblages: algorithm, implementation, and application to synthetic data sets. Journal of Metamorphic Geology.

Steffen, K.* and Selverstone, J., in prep. Retrieval of P-T information from shear zones: thermobarometric consequences of the interaction of deformation and metamorphism. To be submitted to Contributions to Mineralogy and Petrology.

Pending proposals

Collaborative research: Metamorphic fluid evolution and crustal rheology
J. Selverstone, A. Brearley (collaborative with Jan Tullis, Brown University)
National Science Foundation
$149,909; 6/1/05-5/31/07
Enhancement of undergraduate geoscience education and teacher training at the University of New Mexico using hands-on inquiry-based learning and visualization techniques
L. Scuderi, M. Elrick, M. Nyman, J. Selverstone
National Science Foundation
$184,581; 9/1/05-8/31/08

Zachary Sharp, Professor

Papers in press

Principles of Stable Isotope Geochemistry
Sharp, Z.D.
Prentice Hall, 500 pp. in press.

$^{37}$Cl values of DSDP/ODP serpentinized ultramafics and chlorine evolution of the ocean.
Barnes, J.D., and Sharp, Z.D.
Chem. Geol. (in review).

Gary A. Smith, Professor

Publications in press

Geologic map of the Squawback Ridge quadrangle, Deschutes and Jefferson Counties, Oregon
M.L. Ferns, D.E. Stensland, G.A. Smith
Oregon Department of Geology and Mineral Industries Geologic Map Series, scale 1:24,000.
(accepted 2002, proofs returned, holding in publication queue)

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.
(accepted 2002, proofs returned, holding in publication queue)

How does the Earth Work?
G.A. Smith, A. Pun**

Geologic map of the Truchas quadrangle, Santa Fe, Rio Arriba, and Taos Counties, New Mexico
G.A. Smith, J.M. Timmons*, M.N. Gaud*
New Mexico Bureau of Geology and Mineral Resources, Open-File Digital Map Series, 1:24,000, 2005

Geologic map of the Cañada quadrangle, Sandoval County, New Mexico
S.M. Lynch, G.A. Smith, A.J. Kuhle
New Mexico Bureau of Geology and Mineral Resources, Open-File Digital Map Series, 1:24,000, 2005

Manuscripts submitted and in review

The Cerrillos 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, G.A. Smith
U.S. Geological Survey Professional Paper
Manuscripts in preparation

Improving interpretation of lithologic indicator variograms
M.N. Gaud, S.A. McKenna, G.A. Smith
To be submitted to Mathematical Geology

Sequential downstream integration of the Rio Grande through adjacent rift basins
Sean Connell* and Gary Smith
To be submitted to Geology

Geology of the Kasha-Katuwe Tent Rocks National Monument, Sandoval County, New Mexico
G.A. Smith
invited for submission to New Mexico Geology

Sedimentology of a volcanioclastic 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

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 rupture of hanging-wall hinge zones, San Luis and Española basins, Rio Grande rift, New Mexico.

Michael N. Spilde, Research Scientist III

Proposals submitted (pending)

Impact Crater and Volcanic Environments for Vadose Microbial Communities on Earth and Mars Under Low Water/Rock Ratio Conditions: Biosignatures from Microscale to Orbital Remote Sensing
P.I. - H. Newsom
NASA, Interdisciplinary Exploration Science
$1,309,833

Proposals submitted (not funded)

Collaborative Research: Eocene to modern hydrochemical effects of marine impacts- Investigation of the Chesapeake Bay Impact Structure
P.I. - L.C. Crossey (in collaboration with D. Larsen, U. of Memphis)
National Science Foundation, Geobiology & Environmental Geochemistry
$157,351

Collaborative Research: Microbial Biosignatures in Carbonate Cave Pool Precipitates
P.I. - D.E. Northup (Biology) in collaboration with L. Melim, Western Illinois University
National Science Foundation, Biogeosciences
$172,110
External Fundating Activities

Dr. Wawrzyniec has spearheaded several efforts to improve both the infrastructure and student research opportunities in the Department. In January of 2005, an unprecedented approach was taken to acquire a refurbished Optech ILRIS-3D LiDAR scanning system. This scanner is the centerpiece of a new lab at UNM that provides geospatial models to UNM and the broader New Mexico community. The instrument is capable of sub-centimeter accuracy and is used to scan the surface of an object. This data can be rendered into a spatial model with a wide range of applications. Planned activities span the interests of the various programs that supported the acquisition of this instrument. These include Biology’s LTER (Scott Collins, Director), the Departments CREATE program (Lou Scuderi, Director), and Geophysics at UCLA (Emily Brodsky, Geophysicist). Of course none of this would have been possible without large contributions from the College of Arts & Sciences and the Vice Provosts Office of Research and Economic Development. Since March 2004, several pilot studies have been initiated, including collaborations with the University of Texas, Bureau of Economic Geology, which has funded scanning trips to the southwest coast of Ireland and northern Scotland. The latter is a collaborative investigation into fracture scaling relationships and represents some of the thesis research of Kira Tushman, Masters Candidate at the University of Texas, Department of Geology. In addition, to these LiDAR projects, Dr. Wawrzyniec has an active research program within the Paleomagnetism Laboratory.

Research Projects in Progress

In addition to the LiDAR projects mentioned above, Dr. Wawrzyniec is developing geospatial models to evaluate sediment flux along hill-slopes near Blue Gap, Arizona. Previous work by Dr. McFadden and Dr. Scuderi, among others, have demonstrated extremely high erosion rates at Blue Gap over the past few centuries. We are attempting to use LiDAR based geospatial models to evaluate recently mobilized erosion volumes. In the fields of structure and tectonics, Dr. Wawrzyniec is working closely with Dr. Geissman on a range of problems. In February 2004, Dr. Geissman and Dr. Wawrzyniec, traveled to Mexico as guests of UNAM and Dr. Roberto Molina Garza. The purpose of this trip was to collect paleomagnetic samples from a pseudotachyolite locality discovered by Dr. Molina in the Sierra Soconosco the previous year. We also collected samples the Chiapas massif and a range of Jurassic age dikes along the western margin of the Maya block to further evaluate a new tectonic model for the opening of the Gulf of Mexico. In doing so, an extinct 11°-order plate boundary shear zone along the western margin of the Chiapas Massif was discovered. Dr. Wawrzyniec is working to fund this project as part of an international collaboration to support student and staff research efforts to test a range of tectonic hypotheses. Dr. Wawrzyniec is also continuing his paleomagnetic research along the eastern margin of the Colorado Plateau where he has organized a project to evaluate the time of deformation along the Pecos-Picuris fault zone of Northern New Mexico.
5. ACTIVITIES IN PROFESSIONAL SOCIETIES

**Yemane Asmerom, Associate Professor**

**Professional meetings attended**

- Co-organized and presenter: NSF Earth System History – Lamont Climate Reconstruction from Speleothems workshop
- Participant: NSF Facilities and Instrumentation Mass spectrometer workshop
- Chair: AGU Fall 2004 Meeting: Perspectives in Global Change
- Chair: SACNES 2004 Annual meeting: Frontiers in Geosciences
- Chair: SACNES 2004 Annual meeting: Geological and Environmental Science presentations
- Presenter: Goldschmidt 2004 Annual Meeting, Copenhagen, Denmark
- Nominated to serve in the Geo-Education Panel [served in 2005]
- AGU Macelwane medal nomination committee.

**Adrian Brearley, Associate Professor**

**Professional meetings attended**

- Workshop on Chondrites and the Protoplanetary Disk, Kauai, 8-11 November, 2004

**Talks presented**

  - Session chair.
  - Presented talk, “A Unique Style of Alteration of Iron-Nickel Metal in WIS91600, an Unusual C2 Carbonaceous Chondrite”.

  - Coauthored talk with Paul Burger “Chondrule Glass Alteration in Type IIA Chondrules in the CR2 Chondrites EET 87770 and EET 92105: Insights into Elemental Exchange Between Chondrules and Matrices.”.

  - Coauthored talk with Lysa Chizmadia “Aqueous Alteration of Carbonaceous Chondrites: New Insights from Comparative Studies of Two Unbrecciated CM2 Chondrites, Y-791198 and ALH81002.”.


  - Coauthored talk with Joe Nuth and Ed Scott: “Microcrystals and amorphous materials in comets and primitive meteorites: keys to understanding processes in the early solar system.”

**Society committee**

- Associate Editor, Mineralogical Magazine (1998-2005)
- Member, Mineralogical Society of America Nominations Committee
Michael E. Campana, Professor

Professional activities

Past Chair, Association of Ground-Water Scientists and Engineers
Board of Directors, National Ground Water Association

Laura J. Crossey, Professor

Meetings attended and talks presented

Coconino Plateau Hydrology Symposium, gave invited talk, January 28-29
Earthscope in the Parks meeting in Denver, CO; gave invited presentation on Trail of Time project, February 1-2
NMGS meeting in Socorro, April 16
AAPG meeting in Dallas, attended Rio Rats alumni reception, SEPM activities, April 18-20
Research meeting, gases of southern Colorado, August 4-5
2nd International Geological Congress in Florence, Italy; gave invited talk, August 18-September 1
Rocky Mountain Earthscope meeting, Sevilleta LTER, NM; gave presentation, September 15-18
Attended Annual Geological Society of America Meeting, gave talk, attended alumni function, began tenure as Chair of the Sedimentary Geology Division, participated in SEPM meetings and activities as SEPM Spec. Publications Editor and Council Member, November 6-10
Annual American Geophysical Union meeting, December 11-14
Gave invited talk at University of Wyoming, Laramie, WY., February 9
Gave invited talk in Austin, TX (UNM alumni), February 22
Gave invited talk at Northern Illinois University, April 7
Co-Convened Undergraduate Research symposium, May 7
EarthScope and the national Labs meeting in Santa Fe, May 24-25
Judge, UNM Undergraduate Research Symposium, November 22
Served as Marshal at UNM Commencement ceremony, December 17
Turned 50 years old. Can’t wait ‘til next year. Is anyone actually reading this? December 25

Field trips

Hydrochemistry field trip to Carrizo arroyo, January 31
Colorado River research trip, March 13-21
Field trip, Quaternary geology of Grand Junction region, August 1-August 3
Mount Taylor Quadrathlon, “Old Rocks” UNM Faculty Team, February 14
Trail of Time prototype demonstration, South Rim, Grand Canyon, June 7-10
Trail of Time, Prototype and Assessment by the Selinda Group, Inc.; South Rim, Grand Canyon, October 1-5

Society committees

Society for Sedimentary Geology (SEPM) Council Member (since 2001)
American Association of Petroleum Geologists, Membership Committee (since 1989)
Association for Women Geoscientists (lecturer (since 1989))

Maya Elrick, Associate Professor

Editorial Board

Geology 2004-2006
Wolfgang E. Elston, Professor Emeritus, Senior Research Professor

Professional meetings attended


Tobias Fischer, Assistant Professor

Professional societies

Editor for the IAVCEI Commission on the Chemistry of Volcanic Gases (CCVG)
Web master for the IAVCEI Commission on the Chemistry of Volcanic Gases (CCVG)

John W. Geissman, Professor

Professional societies

Member, Annual Program Committee, Geological Society of America
Technical Program Chair, Annual Meeting of the Geological Society of America, Salt Lake City, 2005
Geological Society of America Distinguished Service Award, 2002
Associate Editor, Tectonics, 2004 to present
Associate Editor, Geological Society of America Bulletin, 2002 to present
Editor, Eos, American Geophysical Union, 2000 to present
Member, National Science Foundation Earthscope Science Review Panel
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

David Gutzler, Professor

Invited presentations

Model Assessment for the North American Monsoon Experiment
International CLIVAR VAMOS panel meeting, March 22.

Climate Prediction in the Summer Season, University of Illinois Atmospheric Sciences Dept., April 15.


Seasonal Prediction of the North American Monsoon, New Mexico Tech Hydrology seminar, October 1.
Rhian H. Jones, Senior Research Scientist

Invited presentations


Professional societies

Fellow of Mineralogical Society of America and Meteoritical Society.
Member of Mineralogical Society of Great Britain and American Geophysical Union.
Member of the Nomenclature Committee of the Meteoritical Society; Associate Editor of the Meteoritical Bulletin with responsibility for American meteorites.
Member of Organizing Committee, "Workshop on Chondrites and the Protoplanetary Disk" Kauai, HI. November 2004.

Karl E. Karlstrom, Professor

Invited presentations

Summer 2004 -- IGC meeting -- gave two invited talks and attended a fieldtrip.
Fall 2004 -- Pan-Lithoprobe celebratory conference: invited talk and Pan-Lithoprobe committee meeting.
Fall 2004 -- Denver GSA, convener of 3 EarthScope Sessions, gave two invited talks, convened GSA Bulletin Associate Editors meeting, attended publications committee meeting.
Fall 2004-- AGU -- presented talks at ISES meeting.

Barry S. Kues, Professor

Invited presentation

Attended and gave talks at the N. M. Geological Society Annual Spring Meeting in Socorro (April 16) and Fall Field Conference, Taos area (Sept. 22-25).

Grant A. Meyer, Assistant Professor

Professional societies

Geological Society of America Quaternary Geology and Geomorphology Division, selection committee for the 2004 Farouk El-Baz Desert Research Award.


Proposed and co-convened Pardee Symposium on "Weathering, Slopes, Climate, and Late-Quaternary Geomorphic Change in Arid and Semi-Arid Landscapes" (Session P8), Geological Society of America Annual Meeting, Denver, Colorado, November 9th, 2004.
Leslie D. McFadden, Chair and Professor

Editorial Activity

Editorial Board Member, Catena

Professional meetings attended

Co-convener of Geological Society of America Pardeed Symposium for the GSA National Meetings, Denver CO.

James J. Papike, Senior Research Professor

Offices held in professional societies

American Geophysical Union (Past Secretary of V. G. & P. Section)
Geochemical Society (Past Vice President; Past President)
Geological Society of America (Fellow)
Meteoritical Society (Fellow)
Mineralogical Society of America (MSA Medallist; Life Fellow; Past Council Member; Past Vice President; Past President)
Society of Economic Geologists (Fellow; Past Council Member)

Victor Polvak, Senior Research Scientist

Invited presentations

Attended and presented at the Geological Society of America Annual Meeting in Denver.

Elizabeth Ritchie-Tyo, Research Associate Professor

Professional meetings attended

58th Interdepartmental Hurricane Conference, Charleston, South Carolina, March 1-5, 2004.

Talks presented

Understanding the extratropical transition of tropical cyclones through COAMPS simulations.
58th Interdepartmental Hurricane Conference, Charleston, South Carolina, March 1-5, 2004.
The extratropical transition of tropical cyclones: Contributions by the midlatitude circulation.

Session Chair
Tropical Cyclones in Complex Vertical Shears.
Co-authored talk with Oguz Demirci and J. Scott Tyo, "Application of spatiotemporal pattern recognition techniques to predicting extratropical transition in tropical cyclones."
Co-authored talk with Oguz Demirci and J. Scott Tyo, "Application of spatiotemporal pattern recognition techniques to predicting extratropical transition of tropical cyclones."

Professional societies

Program Chair, 27th AMS conference on hurricanes and tropical meteorology, 2004 – present.
Member, American Meteorological Society (AMS).
Member, American Geophysical Union (AGU).
Member, UJNR (US-Japan Natural Resources) Committee on Wind and Seismic Effects, Task Committee D: Wind Effects, 2003-present.

Frans Rietmeijer, Research Faculty Professor

Professional Papers Read

First report of taenite in an asteroidal interplanetary dust particle: Flash-heating simulates nebular dust evolution, Lunar and Planetary Science Conference XXXV, Houston, Texas

Long-term, frequent dust collections in the tropopause region, SOFIA Upper Deck Science Opportunities Workshop, NASA Ames Research Center, Moffett Field (CA)

Interplanetary Dust Particles, quantitative material properties and bulk chemical composition of meteors, 35th COSPAR Scientific Assembly, Paris, France

Iron-sulfides, iron-oxides and aqueous processing of organic materials in CM and CI meteorites and IDPs, 35th COSPAR Scientific Assembly, Paris, France

Laboratory simulation of Mg-rich ferromagnesiosilica dust among the first building blocks of cometary dust (INVITED), 35th COSPAR Scientific Assembly, Paris, France

Meteoroids: A Mapping Tool of Astrominerals to Protoplanet Evolution (INVITED), Meteoroids 2004 Conference, University of Western Ontario, London, Canada

Professional meetings attended

The SOFIA Upper Deck Science Opportunities Workshop, NASA Ames Research Center, Moffett Field (CA), June 22-23.
35th Scientific Assembly of the Committee on Space Research, Paris, France, July 19-25
Meteoroids 2004 Conference, University of Western Ontario, London, Canada, August 16-20
International; Mineralogical Association

Society committee

Chair of the Working Group on Astromineralogy

Mousumi Roy, Assistant Professor

Professional meetings attended

GreatBreak EarthScope Workshop, June, 2004
Rocky Mountain EarthScope Workshop, Sept. 2004
SCEC EarthScope Workshop – invited talk, Sept. 2004
Louis Scuderi, Associate Professor

Invited presentations


Professional societies


Jane Selverstone, Professor

Professional societies

Member, Geological Society of America Annual Program Committee.
Technical Program Chair for Geological Society of America 2004 annual meeting. This position required a month of fulltime work during the summer of 2004, and smaller time commitments throughout the rest of the year.

Dr. Zachary Sharp, Professor

Invited instructor

National Resource Council Postdoctoral Fellowship Committee 03/05
Invited Instructor, International Doctorate School "High and Ultrahigh Pressure Metamorphism: A Window on Subduction Processes". University of Padova (06/04)

Professional activities

Chairman, External Review Board, University of Utah, Dept. Geology, Self Study (04)
Vice President: European Society of Isotope Research (04)
Assoc. Editor: American Journal of Science (present)
Measured samples for Warren Huff (U. Cinc.) for his student’s thesis.
Ph.D. thesis committee of Laure Martin, Centre National Research Scientifique, Nancy

Invited lectures

Colorado College, Northern Illinois University
University of Padova (Italy), University of Wisconsin, Milwaukee
AGU (declined), University of Heidelberg
University of Barcelona, University Autonoma of Barcelona
Gary A. Smith, Professor

Professional societies
Geological Society of America, Committee on Nominations
Member, Española Basin Technical Advisory Group (http://climchange.cr.usgs.gov/ebtag/)
Including Workshop Organizing Committee, Project Needs Matrix Coordinator
UNM Geology Museum exhibit, Albuquerque Gem and Mineral Show, Albuquerque, NM, March 22-24, 2004
Reviewed research proposals for the National Science Foundation (1), American Chemical Society Petroleum Research Fund (1), Fonds zur Forderung der wissenschaftlichen Forschung (Board of the Austrian Science Fund) (1).
Reviewed manuscripts for: Geological Society of America Bulletin (1)
Adjunct Curator of Geology, New Mexico Museum of Natural History and Science
Research Associate, New Mexico Bureau of Mines and Mineral Resources

Michael N. Spilde, Research Scientist III

Professional meetings attended
Annual meeting of the National Speleological Society, Marquette, Michigan, July 12-16, 2004.
Spring Meeting of the New Mexico Geological Society, Socorro, New Mexico, April 15, 2005.

Other professional activities
Reviews
1 paper reviewed for Geomicrobiology Journal and 1 for Astrobiology Journal.
1 NSF proposal reviewed (Biogeosciences)

Timothy F. Wawrzyniec, Senior Research Scientist

Meetings attended and presented talks
High-resolution X-ray computed topography applied to mineralized shear zones in the Cripple Creek Diatreme, Colorado, Mote, Alison S; Ketcham, Richard A; Kyle, J Richard; Wawrzyniec, Tim F; Melker, Marc D, Abstracts with Programs - Geological Society of America, v. 36, no.4, pp. 3-4, Apr 2004


Preliminary Paleomagnetic And Rock Magnetic Data From The Spanish Peaks, Silver Mountain, Associated Dike Swarms And Related Intrusions (South-Central Colorado), Muggleton, Scott Richard, Geissman, John, and Wawrzyniec, Tim F.


Planktonic Foraminifera and Calcareous Nannoplankton Data Used to Define the Regional Geologic Framework of the Neogene in the Southern Laguna Madre-Tuxpan Continental Shelf, Eastern Mexico, Edgar H. Guevara, Hector F. Ruiz-Ruiz, William A. Ambrose, Julieta Martinez-Garcia, Timothy F. Wawrzyniec, Juan Rico-Pérez, Khaled Fouad, and Mario Aranda-García

Invited talks

Shale, Salt, and Gravitational Sliding: A Threesome of Intrabasinal Tectonic Accommodation Processes with Examples from the Western Gulf of Mexico, Wawrzyniec, T.F.

Tectonic forcing of shelf-ramp depositional architecture, Laguna Madre-Tuxpan Shelf, western Gulf of Mexico. Wawrzyniec, T.F.

Jurassic Opening of the Gulf of Mexico and the Neogene Segmentation of the Maya Block, Wawrzyniec, T. F.

New Mexico State, Department of Geology
Four Corners Geological Society, October, 2004
American Associate of Petroleum Geologists, April 2004
6. OTHER PROFESSIONAL ACTIVITIES

Yemane Asmerom, Associate Professor

Professional meetings attended
- Participated: Sloan Workshop on diversity (Puerto Rico)
- Field work in New Mexico with Jessica Rasmussen and Andy DuFrane
- Gave talks at various universities

Adrian Brearley, Associate Professor

Reviews
- Reviewed 4 proposals submitted to NASA Planetary Materials and Geochemistry Program.
- Reviewed 1 proposal submitted to NSF Petrology and Geochemistry Program.
- Reviewed 2 proposals submitted to NSF Instrumentation and Facilities Program.

Tenure review for outside university.

Michael E. Campana, Professor

Invited presentation

- Invited lecture on Transboundary Water Resources at Conference on Identifying Technologies to Improve Regional Water Stewardship, Albuquerque, NM, April.

Other Professional Activities


Laura J. Crossey, Professor

I have two major professional activities ongoing in 2004:
- Chair, Sedimentary Geology Division, Geological Society of America, 2004-2005.
Manuscript reviews

Nature (1)
Geology (2)
Journal of Geoscience Education (1)
Journal of Volcanology and Geothermal Research (1)
Hydrogeology (1)

Scientific book reviews

Geobiology Book Proposal (Blackwell Publishing)
Every Last Drop: Springs of North America (Arizona Press)

Proposals

American Chemical Society/Petroleum Research Fund (1)
National Science Foundation (6): Hydrologic Sciences, Inst. and Facilities, Biocomplexity, Major Research Infrastructure.

Promotion/Tenure Reviews (external reviewer)

University of Illinois at Chicago
University of Oklahoma
Rutgers University (review of denial of tenure case)

Maya Elrick, Associate Professor

Reviews

Geology, AAPG, Sedimentology, GSA Bulletin, Blackwell Publ. (Ch. review)
National Science Foundation

Wolfgang E. Elston, Professor Emeritus, Senior Research Professor

Other

International correspondence with foreign colleagues on giant igneous provinces, extensional tectonics, and the Bushveld Complex, South Africa, reviewed papers posted on websites.

Tobias Fischer, Assistant Professor

Reviews

Reviews of 4 NSF proposals and 15 scientific manuscripts for GCA, Bull. Volc., Geology, G-cubed, JVGR, Geochem. J., EPSL.

Other professional activities

Visitor, JSPS Fellow: Ocean Research Institute, University of Tokyo, March-June 2004
Reviews of manuscripts and proposals

Reviewed proposals for National Science Foundation (13), American Chemical Society (1), The Third World Academy of Sciences (2)


Professional talks

A paleomagnetic odyssey, Massachusetts Institute of Technology, Fall, 2004, Crosby Special Lecture.

Vertical axis rotations take place in the least (and most) expected parts of the world, Boston College

Nanomagnetic particles in rocks, from a microscopic perspective, International Conference on Fine Particle Magnetism.

(with Matthew Zechmeister, Eric Ferre, and Nicolle Mathanasekaran) Paleomagnetic and rock magnetic investigation of the high magnetic remanence in fault pseudotachylytes, AGU Fall Meeting.

Applications of paleomagnetism in understanding shear zone kinematics: The good, the bad, and the ugly, Geological Society of America Fall Meeting.

Other professional activities

Adjunct or associate-type positions at other institutions: Adjunct Full Professor, University of Michigan, Ann Arbor.

Technician (half-time), UNM Paleomagnetism and Rock Magnetism Laboratory.

David Gutzler, Professor

Manuscript reviews


Grant proposal reviews

National Science Foundation (3), NOAA Office of Global Programs (1).

Other professional activities


International CLIVAR Program science guidance: VAMOS panel [Variability of American Monsoon Systems] (Member, appointed May 02)

Interagency U.S. CLIVAR Program science guidance: Pan American sector implementation panel (Chair, three year term beginning Mar 02)
Interagency U.S. GEWEX Americas Prediction Program (GAPP) science guidance: Science Advisory Group (Member).

Lead Author, implementation plan for merging summer precipitation research in GEWEX and CLIVAR programs.

NOAA Climate Prediction Program for the Americas science guidance: Lead Author on science plan for research priorities through 2015.

Rapporteur on drought assessment in mountain regions, Mountain Climate Science Symposium, May 26.

Submitted written testimony on current scientific prospects for successful cloud seeding at the request of the NM Interstate Stream Commission, as part of ISC's effort to draft new licensing regulations for seeding activities in the state, Mar 15.

Interviewee on Southwest drought, Univ. of Arizona CLIMAS Newsletter (interview Sep 10, published Sep 24).


Rhian J. Jones, Research Scientist

Reviews

Review activities

NSF proposals
Geology
GSA Bulletin
Precambrian Research
Canadian Journal of Earth Sciences
Tectonics
JGR- Earth Surface
Other professional activities

- Editorial Board for Precambrian Research, 1990 to present.
- New Mexico Geologic Mapping Advisory Board, 1999 to present.
- Member of Pan-Lithoprobe synthesis subcommittee (2000-2004).
- Member of the EarthScope Science and Education Committee (ESEC) - the oversight and planning committee for the NSF EarthScope initiative.
- Member of organizing committee for the first national EarthScope Meeting to be held at Santa Ana Pueblo, near Albuquerque, March 2005.
- Compiler of southern Laurentia for IGCP 440 project: reconstruction of Rodinia.
- Science editor for Geological Society of America Bulletin - start of 4-year term. This job requires about 10-12 hours per week.

Barry S. Kues, Professor

Review


Editorial duties

Editorial Board, New Mexico Geology.
Associate Curator, N. M. Museum of Natural History.

Grant A. Meyer, Assistant Professor

Manuscript peer review

Quaternary Science Reviews (1)
Environmental and Engineering Geoscience (1)
Journal of the American Water Resources Association (1)

Grant proposal review

Review for Geobiology and Envir. Geochemistry (1).
National Science Foundation

Other professional activities

Undergraduate student mentoring:
Co-advised undergraduate research of UNM-Gallup students Crystal Tulley, Daniel Pablo, and Jeffrey Peshlakai with UNM-G Assistant Professor Paula Watt

Leslie D. McFadden, Chair and Professor

Peer Reviews

Reviewed 1 paper for Quaternary Research
Reviewed 1 paper for Australia Journal of Soil Research
Other Activities

Wrote many letters of reference for colleagues seeking positions at other universities; and one letter of evaluation regarding tenure with promotion to Associate Professor.

Off-campus talks

Differential Solar Heating of Surface Rocks in Deserts: A new weathering hypothesis for the Department of Earth & Planetary Sciences Colloquium, University of New Mexico.

Presented lecture to the NSF-supported Ghost Ranch Science Teachers Institute at Ghost Ranch, Abiqui, New Mexico.

James J. Papike, Senior Research Professor

Other Professional activities

Major Active Research Areas:
Planetary Materials and Processes.
Trace Element Chemistry/Crystal Chemistry of the Rock-Forming Minerals.
Comparative Planetary Mineralogy

Victor Polyak, Senior Research Scientist

Reviews

Reviewed a NSF proposal
Nature paper
Geology papers (2)
Paper for Geological Quarterly

Elizabeth Ritchie-Tyo, Research Associate Professor

Reviews

Reviewed scientific papers submitted to Journal of the Atmospheric Sciences (3)
Monthly Weather Review (4)
Weather and Forecasting (1)
Bulletin of the American Meteorological Society (1)
Journal Meteorological Society of Japan (1)
Reviewed 3 proposals submitted to NSF Mesoscale Dynamic Meteorology Program
Reviewed 4 proposals submitted to NASA Tropical Cloud Systems and Processes Program

Mousumi Roy, Assistant Professor

Reviews

Reviewed 9 NSF proposals
Reviewed papers for Journal of Geophysical Research and Geology
Invited presentations

- UNM Center for Advanced Studies Seminar, Sept. 2004
- Physics Department Seminar, Oct. 2004
- Santa Fe Geological Society public lecture, Feb 2004
- Los Alamos Geological Society public lecture, Feb 2004
- Utah State University – Department colloquium; March 2005
- University of Texas at El Paso – colloquium; April 2005

Other Professional Activities

Chair, Geophysics Division of the Geological Society of America (2003-present)
USGS National Earthquake Hazard Reduction Program Panel Member (2004)

Frans Rietmeijer, Research Faculty Professor

Peer review of scientific papers

- American Mineralogist (2)
- Earth, Moon and Planets (4)

Proposal review

- NASA Exobiology and Planetary Protection Program (8)
- NASA Cosmochemistry Program (1)
- NASA Origins and Terrestrial Planet Finder Program (8)
- NASA Sample Return Laboratory Instruments and Data Analysis Program (1)

Other professional activities

- ASTROBIOLOGY Editorial board member
- Scientific Organizing Committee of the SOFIA Upper Deck Science Opportunities Workshop
- Scientific Organizing Committee of the Meteoroids 2004 Conference
- Volunteer Editor for the Journal of Geophysical Research, American Geophysical Union

Louis Scuderi, Associate Professor

Manuscripts reviewed

- Geophysical Research Letters (2)
- Geografiska Annaler. Series A, Physical Geography
- Geografia Fisica e Dinamica Quaternaria
- EOS

Proposals Review

- NSF Earth Systems History (2), NSF Major Research Instrumentation Program, NSF Paleoclimate (3), National Geographic Research, and Exploration (2)

Misc. Reviews

- External Evaluator, promotion and tenure case at the University of Nevada, Reno.
I have been involved in a proposed effort to develop a remotely sensed and ground based pilot project in Texas, Oklahoma, and New Mexico, which would provide real-time imagery for input into a monitoring and assessment model for potential bioterrorism attacks against the beef and cattle industry. This effort produced a white paper that will be the basis for a $30,000,000 Federal Appropriation request in 2005.

Jane Selverstone, Professor

Manuscripts review

Journal of Petrology, Journal of Metamorphic Geology
Rocky Mountain Geology, EOS
(6 total; I declined many others because of my GSA duties)

Proposals reviewed

NSF Tectonics program
NSF Petrology and Geochemistry program
US Civilian Research and Development Foundation
NSF Continental Dynamics program
NSF Instrumentation program
External reviewer of promotion/tenure files for University of Minnesota and University of Maine.

Invited presentations

Presented talk at University of Kansas, February 2004.
Presented two talks at Massachusetts Institute of Technology, March 2004.
Presented talk at annual UNM Center for Advanced Studies Workshop, May 2004

Zachary Sharp, Professor

Reviews

Reviewed Papers for International refereed journals: Year 2004
8 papers

Reviewed Book

Fegley and Osborne “Practical Chemical Thermodynamics for Geoscientists” Elsevier

Reviewed proposals

NSF (6)
NASA
Invited presentations

Coordinating technical data and study needs for water-resource assessments in the Española Basin, invited presentation at the Geologic and Geophysical Hydrologic Framework of the Española Basin, 3rd Annual Workshop, March 5, 2004, Santa Fe, New Mexico.

See-Saws and ruptured hinges: New ideas on the ups, downs, and tilts of Rio Grande rift basins, invited presentation at the Department of Geology, Boise State University, Boise, Idaho, April 19, 2004.

Michael N. Spilde, Research Scientist III

Reviews

1 paper reviewed for Geomicrobiology Journal and 1 for Astrobiology Journal.
1 NSF proposal reviewed (Biogeosciences)

Timothy F. Wawrzyniec, Senior Research Scientist

Invited talks

Shale, Salt, and Gravitational Sliding: A Threesome of Intrabasinal Tectonic Accommodation Processes with Examples from the Western Gulf of Mexico
American Associate of Petroleum Geologists, April 2004

Tectonic forcing of shelf-ramp depositional architecture, Laguna Madre-Tuxpan Shelf, western Gulf of Mexico
Four Corners Geological Society, October, 2004

Jurassic Opening of the Gulf of Mexico and the Neogene Segmentation of the Maya Block
New Mexico State, Department of Geology
7. NON-TEACHING UNIVERSITY SERVICE

Yemane Asmerom, Associate Professor

Department service

Facilities Committee
Undergraduate Committee
Productivity assessment committee
Search committee: Analytical Lab RA
Analytical Lab steering committee
Search Committee, Hydrology Committee
New Mexico Alliance for Graduate Education and the Professorate
Steering Committee [NM AGEP]; I was also a presenter at a NM-AGEP summer workshop for undergrads and graduate students from various institutions.

Adrian Brearley, Associate Professor

Departmental service

Director, Earth and Planetary Sciences Transmission Electron Microscope and X-ray Diffraction Laboratories
Member, Department of Earth and Planetary Sciences Facilities Committee
CoChair, Department of Earth and Planetary Sciences Graduate Committee
Co-Associate Chair, Department of Earth and Planetary Sciences.

University service


Michael E. Campana, Professor

Department service

Director, Water Resources Program
Hydrogeologist Search Committee, Department of E&PS

University service

Board of Advisors, Utton Transboundary Resources Center, School of Law

Laura J. Crossev, Professor

I continue to be active at all levels within the university. Most significant in terms of time commitment are the undergraduate advising for all EPS programs (including advertisement of programs, maintaining the website, and developing departmental advising materials).
Department

Undergraduate Advisor: E&PS BS/BA, Environmental Science BS
Honors Advisor
Chair, Analytical Chemistry Laboratory Advisory Committee
Undergraduate Committee
Search Committee: Hydrologist position

College

Senior Promotion and Tenure Committee (2003-2004)
A&S Undergraduate Committee
A&S Committee on Math and Science Education for Teachers
PROFOUND committee (undergraduate research)

University

Research Misconduct Committee
Sigma Xi Board Member (2004-present)

Maya Elrick, Associate Professor

Departmental committees

Undergraduate Committee
Search Committees
Natural Science coordinator
Meteorology position

University committees

A&S Scholarship Committee (Lane Scholarship)

Professional committees

GSA Minorities and Women in Geosciences Committee 2003-2005
Organized and co-chaired GSA topical session on "Minorities and Women in the Geosciences: Innovative solutions and Ongoing Issues"
GSA Awards Committee 2004-2007
Delivered citation for 2004 Laurence Sloss Award to J.L. Wilson

Wolfgang E. Elston, Professor Emeritus, Senior Research Professor

Other

Mentored a German undergraduate student, Anna Ksienzyk, University of Bremen, on a field project in the Peloncillo Mountains, Hidalgo County, New Mexico. Visited her field area with her advisor, Professor Klügel, September 22-26, 2004. Guided Prof. Klügel and Ms. Ksienzyk on field trips through the Valles and Emory calderas, NM.
Peter J. Fawcett, Assistant Professor

Department

Chair (Spring) and Member (Fall), Computer Committee
Member, Graduate Committee
Member, Meteorology Search Committee
Member, Ad Hoc Committee on new Hydrology Position
UNIX computing facility administration

University

Member, College of Arts and Sciences Junior Promotion and Tenure Committee

National

Technical Program Chair, 2004 Spring Meeting of the New Mexico Geological Society (Socorro NM).

Geology Program Panelist, Civilian Research and Development Foundation (CRDF), Washington D.C., May 2004 (Panelist and multiple proposal reviews).

Co-organizer and co-convener of Pardee Keynote Symposium Weathering, Slopes, Climate, and Late-Quaternary Geomorphic Change in Arid and Semi-Arid Landscapes (with L.D. McFadden and G.A. Meyer) at the 2004 Geological Society of America Annual Meeting.

Geology Program Panelist, Civilian Research and Development Foundation (CRDF), Washington D.C., December 2004 (Panelist and multiple proposal reviews).


Reviewed 2 proposals submitted to the National Science Foundation.

Tobias Fischer, Assistant Professor

Departmental

Meteorologist Search committee (member), Graduate Committee (member), Computer committee (member).

Coordinator, UNM-LANL Volcanology Program.

John W. Geissman, Professor

Departmental service

Chair, Department Facilities Committee, 2002-
Chair, Department Long Range Planning Committee, 2002-

Department Alumni Affairs Committee, 1999-
Suburban finder
University service
UNM Conflict of Interest Committee, 2003-2004

Special Projects

David Gutzler, Professor

Department committees
E&PS Associate Chair, Spring, Fall.
Undergraduate advisor, Environmental Science B.S. Program, Spring, Fall.
Computer committee, Spring, Fall.
Undergraduate committee, Spring, Fall.
Meteorology faculty search committee (Chair), Fall.

University committees
Program Committee, UNM Water Resources Program: Spring, Fall.
Steering Committee, A&S Center for Advanced Studies: Spring, Fall.

Other
Participant, IGERT workshop, Sevilleta LTER site, Jan 29.
Participant, National Network for Educational Renewal dinner (joint COE and A&S event), Mar 29.
Session Chair, UNM Center for Advanced Studies Annual Symposium, May 14.
E&PS Department representative at UNM High School Senior Day, Sep 11.

Stephen P. Huestis, Associate Professor

Department service
Undergraduate committee
E&PS Undergraduate Advisor
Natural Sciences Search committee

Rhian H. Jones, Research Scientist

University service
Member of UNM Museum Directors Consortium

Departmental service
Manager of High-Temperature Experimental Petrology Laboratory.
Curator of Meteorite Collection.
Karl E. Karlstrom, Professor

Department committee
- E&PS Graduate Committee
- E&PS Long Range Planning Committee (now defunct)
- E&PS Co-convened Caswell Silver Undergraduate Research Symposium, 2004

Barry Kues, Professor

Department service
- Compiled Departmental Alumni Newsletter (20 p.), distributed in Spring, 2004
- Chair, Search Committee, Natural Sciences Lecturer
- Curator of departmental fossil, mineral, rock, and thesis collections.

University service
- Member of Faculty Senate, and (from July on) its Operations Committee
- Chair, Faculty Senate Library Committee
- Member and Chair (from September on) of Faculty Senate Budget Committee

College service
- Member, ad hoc committee to draft A&S bylaws

Grant A. Meyer, Assistant Professor

Department service
- E&PS Departmental Graduate Committee, Fall 2000 to present; Co-chair, fall 2003 - present.
- E&PS Departmental Vehicle Committee Chair, Fall 2000 to present.
- E&PS Departmental Long-Range Strategic Planning Committee, Spring 2002-present.
- E&PS Hydrogeology Position Search Committee, Spring 2003-present.

University service
- UNM Faculty Senate Graduate Committee and Curriculum Subcommittee, Fall 2004-present

Leslie D. McFadden, Chair and Professor

Department service
- Chairman of the Department of Earth & Planetary Sciences
- Secretary, Caswell Silver Foundation Board
- Member, Advisory Council of the Albuquerque Teachers Institute
- Member, Board of Associated Scholars, Center for the Southwest

University service
- Provided evaluation and input concerning a proposed course on “Origins and Evolution” in the University Honors College.
Elizabeth Ritchie-Tyo, Associate Research Professor

Departmental service

Member, Department of Earth and Planetary Sciences Computer Committee.

Mousumi Roy, Assistant Professor

Departmental service

E&PS Computer Committee (Chair, from Fall 04 – present)
E&PS Search Committee for the Natural Sciences Coordinator
E&PS Faculty Salary Assessment Committee (2004 - 2005)

University service

Served on the Internal Advisory Committee of the Consortium for the Americas at UNM.

Louis Scuderi, Associate Professor

Departmental committees

Faculty Productivity committee
Meteorology Search committee

Other service

- Director, Center for Rapid Environmental Assessment and Terrain Evaluation (CREATE)
- Supervise and evaluate the Associate Director, Lab Manager, 5 graduate students and 2 undergraduate students.

In addition in 2004 as Director of CREATE

- Wrote (with Rick Watson my Associate Director) the RFP for the acquisition of the CREATE antenna and data processing system.
- Evaluated 7 proposals from bidders and awarded the contract to SeaSpace Corporation
- Developed the site plan for antennas on campus- Presented five times to Buildings and Antenna committees.
- Worked with UNM facilities to develop the plan and specifications for installation of antennas on 801 University.
- Worked with Jack McIver and the VPR office and Tim Thomas (Associate Director HPC) for development of CREATE/HPC facilities.
- Developed a working agreement with BLM for data sharing which allows CREATE access to BLM databases, imagery, and documents.

Additionally in 2004 from the CREATE research side of things

- Developed a GIS based computer code for the real-time analysis of evapotranspiration- This code is currently being productized and will automatically generate ET estimates for all of New Mexico several times per day using MODIS imagery acquired by the CREATE facility.
- Working with SeaSpace to develop applications for vegetation monitoring to document environmental change in western North America.
Jane Selverstone, Professor

**Departmental committees**

Undergraduate committee (spring)
Graduate committee (fall)
Oversight committee for departmental Analytical Chemistry lab
Search committee for Coordinator of Natural Sciences Program

Zachary Sharp, Professor

**Departmental committees**

Instrumentation and Facilities

**External committee**

External Exam Committee member
Zeynep Saglam, University of Cincinnati

**Editorship**

American Journal of Science
Geology

Gary A. Smith, Professor

**Department service**

Chair, Faculty Senate Teaching Enhancement Committee
Chair, Teacher of the Year and Presidential Teaching Fellow Selection Subcommittee
Chair, College of Arts and Sciences Committee on Academic Uses of UNM Properties
Chair, Undergraduate Committee, Dept. of Earth and Planetary Sciences
Chair, Ad-hoc committee for position description in hydrogeology, Dept. of Earth and Planetary Sciences
Chair, Hydrogeology Search Committee, Dept. of Earth and Planetary Sciences
Collections Committee, Dept. of Earth and Planetary Sciences
Coordinated Caswell Silver Undergraduate Research Symposium, Dept. of Earth and Planetary Sciences
Member of the Board, Caswell Silver Foundation
Advisor, Geology Club

Michael N. Spilde, Research Scientist III

**Departmental service**

Manager, Electron Microprobe and Scanning Electron Microscope Labs.
E&PS Computer Committee.
Performed microprobe and SEM analyses for UNM faculty and graduate students.
Performed microprobe and SEM analyses for local businesses and for students or faculty from New Mexico Tech, Western Illinois University, Los Alamos National Lab, and Nuclear Regulatory Commission.
Dr. Wawrzyniec is currently serving as the co-editor for the Newsletter to the Structural Geology and Tectonics Division Newsletter of the Geological Society of America.

He is also serving on the GSA Annual Meeting Short Course Committee, and the UNM Staff Council.
8. SCHOLASTIC HONORS AND FELLOWSHIPS

Adrian Brearley, Associate Professor
University of New Mexico Regent’s Lecturer, College of Arts and Sciences, 2001-2004.

Michael E. Campana, Professor
Faculty Award for International Excellence, University of New Mexico.

Tobias Fischer, Assistant Professor
Japan Society for the Promotion of Science (JSPS) 3-month research fellowship to work at the Ocean Research Institute (University of Tokyo). Host: Prof. Yuji Sano. Project: analyses (by noble gas MS) of N and Ar isotopes in mineral separates from Arc, hot spots and mantle xenoliths to constrain N isotopic composition of mantle reservoirs

James J. Papike, Senior Research Professor
- NASA medal for Exceptional Scientific Achievement (1973) for contributions to lunar petrology and to the philosophy of studying lunar samples.
- Mineralogical Society of America Award (1974) for contributions in the field of Petrologic Crystal Chemistry.
- Centennial 100 Alumni Award (1985) Selected as one of the 100 most outstanding living graduates of the South Dakota School of Mines and Technology for the 1st century of the school's existence.
- Distinguished Professor (1987) South Dakota School of Mines and Technology.
- Regents' Professor (1990) University of New Mexico.
- President, Geochemical Society (1990 and 1991)
- President, Mineralogical Society of America (1995)
- Outstanding Achievement Award, University of Minnesota (1999)
- Asteroid 5310 named “Papike” by International Astronomical Union (2002)
9. SABBATICALS AND TRAVEL

Adrian Brearley, Associate Professor

Travel

Michael E. Campagna, Professor

Travel
- Honduras – Four day trips to participate in teaching in the diplomado program: January, February, March, August.
- Rapid City, SD – May (3 days) – Mid-year meeting of the Board of Directors, National Ground Water Association.
- Honduras – June (22 days) – working with students to construct rural water systems.
- Honduras – July (15 days) – worked with three REU students sampling surface water in the Rio Choluteca basin.
- South Bend, IN – July (3 days) – University of Notre Dame – REU Forum.
- Myrtle Beach, SC – July – (3 days) – South Atlantic Well Drillers Jubilee.
- Washington, DC - August (3 days) – ALO Annual Meeting.
- Bernalillo, NM – September (2 days) – Crossing Cultural Boundaries to Solve Water Resources Problems workshop.
- Tbilisi, Georgia – September (6 days) – Annual meeting of the NATO/OSCE South Caucasus River Monitoring project.
- Washington, DC – November (1 day) – meeting with ARD, Inc. for USAID WQA project.
- Las Vegas, NV – December (5 days) – National Ground Water Association Board of Directors Meeting and Annual Convention.
Wolfgang E. Elston, Professor Emeritus, Senior Research Professor

Travel
- Germany, Switzerland and United Kingdom, September 29 – October 27, 2004, met with colleagues at University College, London on Bushveld Research.
- Domestic travel to Florida, California, Massachusetts and Washington State, conferred with colleagues at the Universities of Florida and Massachusetts on Bushveld Research.

Tobias Fischer, Assistant Professor

Travel
- Nicaragua, Mexico: January 2004, 2 weeks
- Ocean Research Institute, University of Tokyo, Japan: March – June 2004
- Northern Mariana Islands: April 2004, 2.5 weeks
- Baltimore, MD: October, 2004, 1 week
- Chile: November 2004, 2 weeks
- San Francisco, CA: December, 2004, 1 week

John W. Geissman, Professor

Research Semester, Spring, 2004
Sabbatical, Fall, 2004

Summer teaching


Travel
- January 9-10 Fieldwork, southern New Mexico
- January-mid February, miscellaneous trips to Santa Fe for legislative activities
- February 26-29, Carleton College, Leading Edge Workshop on Visualizations
- March 5-6, Annual Program Committee meeting, Geological Society of America Headquarters, Boulder
- March 8-12, AGU Chapman Conference, Gainesville, Florida
- March 13-18, Fieldwork, southern Colorado
- March 25, field work, northern New Mexico
- April 15-27, field work, western Nevada
- April 28-May 2, proposal preparation, University of Idaho, Moscow
- May 5-6, Fieldwork, north-central NM
- May 16-June 5, New Mexico, southern Colorado, UNM Introductory Field Geology course
- June 10,11-field work, north-central New Mexico
- June 16, 17, field work, central New Mexico
- June 22-July 14, Wyoming, University of Michigan, Field Camp
- July 28-29, field work, north-central New Mexico
- July 30-31, APC meeting, GSA headquarters, Boulder
- August 8-9, Salt Lake City, inspection of 2005 GSA annual meeting site
- August 11-15, Fieldwork, southern Colorado
- September 9-December 9, MIT, Cambridge, Sabbatical
- September 17-21, Fine Particle Magnetism Conference, London, UK
- October 6-10, Alumni Advisory Board Meeting, University of Michigan, Ann Arbor
- November 6-10, Denver, Geological Society of America Annual Meeting
- November 17-20, National Science Foundation, Earthscope Science Review Panel
- December 11-17, San Francisco, AGU Fall Meeting

David Gutzler, Professor

Travel

- Urbana IL, Apr 14-16: visit and presentation to Univ. of Illinois Atmospheric Sciences Dept.
- Lake Tahoe CA, May 24-27: Mountain Climate Science Symposium.
- Baltimore MD, Jun 20-25: International CLIVAR Conference; PanAm Implementation Panel (which I chair) meets.
- Boulder CO, Aug 30-31: GEWEX Americas Prediction Project PI meeting; GAPP Science Advisory group meets.
- Tuscaloosa AL, Sep 23-24: Meeting with U. of Alabama IGERT students and presentation of EPS 536 lecture there.
- Denver CO, Nov 8-9: Geological Society of America annual meeting.
- Silver Spring MD, Nov 29-30: Planning meeting at NOAA Office of Global Programs for development of new Climate Prediction Program for the Americas.

Rhian H. Jones, Research Scientist

Travel

- "Workshop on Chondrites and the Protoplanetary Disk" Kauai, HI. November 8-11, 2004.
- Arizona State University: Ion microprobe laboratory, Tempe, AZ. December 6-8, 2004.

Karl E. Karlstrom, Professor

Travel

- January 21-24, Program review panel for EarthScope.
- January 29, co-led IGERT fieldtrip with Dennis Newell.
- February 14, Mount Taylor Quadrathalon.
- March 1, E&PS 307 - Structural Geology fieldtrip, Abo Pass.
- March 13-21, Research river trip to Lower Granite Gorge.
- March 28-30, IRIS review panel, Washington DC.
- April 16, attended NMGS meeting in Socorro.
- May 7, Co-convened Undergraduate Research symposium.
- May 24-25, EarthScope and the national Labs meeting in Santa Fe.
- May 21-22, New Mexico EarthScope meeting at the Sevilleta.
- June 7-10 - Trail of Time prototype demonstration, South Rim, Grand Canyon
- August 1-August 3 - Field trip, Quaternary geology of Grand Junction region
- August 24-27, EarthScope ESEC meeting in Washington DC.
- August 18-September 1 - 32nd International Geological Congress in Florence, Italy
- September 15-18 - Rocky Mountain Earthscope meeting, Sevilleta LTER, NM
- October 1-5 - Trail of Time, Prototype and Assessment by the Selinda Group, Inc.; South Rim, Grand Canyon
- October 16-19, Panlithoprobe meeting in Ontario
- November 6-10 - Attended Annual Geological Society of America Meeting
- November 2-7, National GSA meeting in Seattle
- December 11-December 14 - attended Annual American Geophysical Union meeting

**Barry S. Kues, Professor**

**Travel**

- Jan. 7 – Field work in Holder Formation, Sacramento Mtns., NM
- Jan. 12 – Field work in Alamitos Formation, Sapello, near Las Vegas, NM
- Feb. 5 – Field work in Pennsylvanian section near Abo Pass, NM
- Feb. 21-22 – Field work in Pennsylvanian of Sacramento Mtns., NM
- March 15 – Field work in Pennsylvanian of Jemez Mountains
- April 10 – Field work with paleontology class, Jemez Mtns., NM
- April 16 – NM Geological Society Spring Meeting, Socorro, NM
- May 16 – Field work in Pennsylvanian, near Pecos, NM
- May 20 – Socorro, to receive donation of fossils from NM Bureau of Geology
- May 27 – Field work in Pennsylvanian near Pecos, NM
- May 30 – Field work in Pennsylvanian of Jemez Mountains
- June 3 – Socorro, donation of fossils from NM Bureau of Geology
- June 16 – Field work in Pennsylvanian, Guadalupe Box, NM
- July 4 – Field work in Pennsylvanian, Sapello, near Las Vegas, NM
- July 15 – Field work in Pennsylvanian, Guadalupe Box, NM
- July 22 – Field work in Pennsylvanian, Guadalupe Box, NM
- July 28 – Field work in Pennsylvanian, Guadalupe Box, NM
- Sept. 22-25 – N.M. Geological Society Fall Field Conference, Taos area

**Grant A. Meyer, Assistant Professor**

**Travel**

- Blue Gap, Arizona, research on microclimatic influences on hillslope geomorphology Mar. 19-21, 2004 (with Ben Burnett).
- Reconnaissance field work on erosion of phosphate mine waste piles and selenium contamination of streams near Soda Springs, Idaho, May 23-25, 2004
- Field work on Sacramento Mountains fire and alluvial history, July 1-3, 2004 (with Jed Frechette, and Tom Swetnam and colleagues, U. AZ. Tree-ring Lab)
- Yellowstone National Park, Holocene beaver activity and effects on small streams, August 9-12, 2004 (with Lyman Persico).
- Reconnaissance of small lakes for coring for environmental geochemistry in northwestern New Mexico-southern Colorado, Sept. 25-26, 2004 (with Paula Watt)
- Oblique aerial photography of geologic and geomorphic features on Colorado Plateau and Rocky Mountains, Cortez, Colorado, Oct. 13-17, 2004
Leslie D. McFadden, Chair and Professor

Travel
- Field trip to SW Arizona to review dissertation research, February 27 to March 1
- Participation in the Annual Symposium of the Center for the Southwest, held in Albuquerque NM and at the Sevilleta Wildlife Refuge, NM, April 11, 12, 13.
- Lecturer in Ghost Ranch Archeology Seminar Class, Ghost Ranch, NM, July 22
- 5 Lecturer in Ghost Ranch Science Teachers Institute, Ghost Ranch, NM, August
- Travel to Denver, CO for GSA National Meetings, November 7-10

Frans Rietmeijer, Research Faculty Professor

Travel
- SOFIA Upper Deck Science Opportunities Workshop, NASA Ames Research Center, Moffett Field (CA), June 22-23, 2004
- 35th Scientific Assembly of the Committee on Space Research (COSPAR), Paris, France, July 19-25, 2004
- Meteoroids 2004 Conference, University of Western Ontario, London, Canada, August 16-20, 2004
- Origins and Terrestrial Planet Finder Panel Meeting, Baltimore (MD), September 13-17

Elizabeth Ritchie-Tvo, Research Associate Professor

Invited talk

"The extratropical transition of tropical cyclones." Meteorologische Institut, Universitaet Muenchen, Deutsches, 13 July.

Jane Silverstone, Professor

Travel
- February, 2004: Lawrence, KS; presented colloquium talk at University of Kansas.
- March, 2004: Cambridge, MA; presented two departmental colloquium talks at MIT.
- July 30-August 1, 2004: Boulder, CO; attended GSA Annual Program Committee meeting.
- August 8-13, 2004: Mt Holyoke College, MA.; attended 4th biennial Gordon Research Conference on Rock Deformation.
- November 5-10, 2004: Denver, CO; attended Geological Society of America annual meeting; served as Technical Chair for the meeting; convened topical session; author on 6 abstracts.
- Several days of fieldwork collecting xenoliths from the Puerco volcanic necks, NM, with graduate and undergraduate students.
Zachary Sharp, Associate Professor

Travel

- European Society for Isotope Research
- ISPET - International Seminars of Petrology
- "High and Ultrahigh Pressure Metamorphism: A Window on Subduction Processes"

Field Work

- ~5 days in field @ Puerco Necks, New Mexico
- 2 weeks w/ J. Barnes (Italy and Hungary, visiting serpentinites localities) in May this year
- 2 weeks w/ Dan Breecker (Wind River Range, Wyoming).

Gary A. Smith, Professor

Travel

- February 12-16 – Attended Tucson Gem and Mineral Show, Tucson, Arizona
- March 5-6 – Attended EBTAG Technical Planning and Coordination Workshop, Geologic and Geophysical Studies of the Española Basin; Santa Fe, NM.
- November 5-10 – Attended Geological Society of America Annual Meeting, Denver, Colorado.

Michael N. Spilde, Research Scientist III

Travel

- October 3-8, 2004. Attended an advanced training class on the JEOL 8200 microprobe at UCLA in Los Angeles, California.
- February 11-13, 2005. Fieldwork in Spider Cave, Carlsbad Caverns National Park, NM.
- April 29-May 1, 2005. Fieldwork in Spider Cave, Carlsbad Caverns National Park, NM.
- May 24-28, 2005. Fieldwork in caves in the Guadalupe Mountains, NM.
- June 11-21, 2005. Field sampling in caves and springs in southern Tabasco and El Chichon volcano in Chiapas, Mexico.
10. PUBLIC SERVICE

Yemane Asmerom, Associate Professor

- Amnesty International; The Sierra Club
- Our work was featured in New Mexico Magazine (October issue)

Adrian Brearley, Associate Professor

- U10 Assistant Coach for AYSO

Michael E. Campana, Professor

- Member, Water Resources Advisory Committee, Albuquerque-Bernalillo County Water Utility Authority
- Member, Water Acquisition and Management Subcommittee, Middle Rio Grande Collaborative Program, New Mexico Office of the State Engineer
- Member, Ad Hoc Committee to Develop Water Well Drillers Certification Program, New Mexico Office of the State Engineer
- Founder, President, and Treasurer, The Ann Campana Judge Foundation
- Volunteer, Lifewater International

Laura J. Crossey, Professor

- Soccer Referee, USSF Grade 6, NM State Referee, NM State Cup referee, Far West Regionals Referee, NISOA Collegiate Referee (1997-current), NM State High School Referee

Maya Elrick, Associate Professor

Community Service

- Participated in mentoring program for Native American NM high school students entering college (SIPI July)
- Represented E&PS at UNM Hispano, African-American, and Native American Indian Days (high school students visiting UNM)
- Ongoing science demonstrations at local elementary school

Wolfgang E. Elston, Professor Emeritus, Senior Research Professor

- Addressed classes at Rio Rancho Middle School on Growing up in Nazi Germany, March 29, 2005.
- Participated in exhibit on choices: Through the Eyes of students (dealing with Nazi Germany), sponsored by the NM Foundation for Human Rights, Rio Rancho Middle School, May 2, 2005.

Peter Fawcett, Associate Professor

- Provided an affidavit for the New Mexico Attorney General's Office on the potential impacts of global warming on New Mexico's natural resources as part of a lawsuit filed by the Commonwealth of Massachusetts v. the United States Environmental Protection Agency (June 2004)
- Interviewed by the Albuquerque Journal for an article on Valles Caldera work
- Interviewed by Quantum Magazine (UNM Research Publication) on Valles Caldera work (2005 edition)
- Quantum Magazine short piece for 2004 edition

Tobias Fischer, Assistant Professor

- Contributions to web-based report from the Volcano Expedition to the Northern Mariana Islands http://scripps.ucsd.edu/marianas.

John W. Geissman, Professor

- Alumni Advisory Board, University of Michigan
- Worked with Career Enrichment Center, APS, to establish "Geology of New Mexico", which has now started
- 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
- Member, Coalition for Excellence in Science Education

David Gutzler, Professor

Invited presentations to nonspecialist audiences

- "Drought in New Mexico", Jemez y Sangre weather modification workshop, Santa Fe, Jan 22.
- "Little Droughts and Megadroughts", Albuquerque Rotary Club, Feb 2.
- "Once and Future Climates in New Mexico and North America", NM Museum of Natural History Symposium on New Mexico's Ice Ages, Feb 7.
- Interviewee on global warming, "Friday Forum", KUNM radio (interview Aug 20, broadcast Oct 8).
- Numerous interviews for New Mexico newspapers and television stations regarding summer rainfall, El Niño/La Niña, drought, global warming, and other weather-related and climate-related topics.
Rhian H. Jones, Research Scientist

- Coordinated and gave tours of Meteorite Museum for visiting school students, UNM classes, and community groups.
- Identified numerous suspect meteorites and answered enquiries about meteorites for members of the public.
- Acted as judge for Bandelier Elementary School Science Fair, February 19th 2004.
- Visited 4th grade class at Bandelier Elementary School to talk about the Moon. October 15, 2004.

Karl E. Karlstrom, Professor

Grand Canyon Trail of Time Geoscience Education Project

Geoscience Education- The Trail of Time – The Trail of Time, designed by me, Laura Crossey, and Mike Williams, will be a new geoscience education and interpretation project at Grand Canyon that involves a walking trail on the South Rim scaled so that each meter of the Trail corresponds to 1 million years of Earth History. A large number of the Park's 5 million visitors per year, will walk the Trail and get introduced to Park geology and geologic time. It also has an accompanying virtual Trail of Time as well as formal and informal science education components. In 2003, we received Park approval for the location of the Trail (Yavapai Point to Pipe Creek Vistas) and there's a tentative plan to open the Trail by Spring 2006.

Barry S. Kues, Professor

- Identified geological specimens and answered geological questions for the public.

Grant Meyer, Assistant Professor

- UNM Alternate Delegate, Middle Rio Grande Endangered Species Act Science Subcommittee.
- Provided interviews for reporters on research of Jen Pierce and myself on fire and erosion history in Idaho and publication in Nature, resulting in newspaper articles in Los Angeles Times (Nov. 4, 2004), Spokane Spokesman-Review (Nov. 7, 2004), Albuquerque Tribune (Nov. 24, 2004), Albuquerque Journal (Nov. 25, 2004), and others on Associated Press.
- Answered miscellaneous inquiries on geological matters for the general public.
Leslie D. McFadden, Chair and Professor
- Member, Coalition for Excellence in Science Education
- (CESE)
- Interview with Los Angeles Times journalist concerning the impacts of military activity on the desert soils of Iraq.
- Responded to several requests for advice and

Victor Polyaik, Senior Research Scientist
- Volunteer work for El Malpais National Monument

Frans Rietmeijer, Research Faculty Professor
- Interview “Der Neuschwanstein” [meteorite], Bild der Wissenschaft [in German], 1, 57-61, 2004 by Thorsten Dambeck
- “Collecting Dust”, UNM’s Quatum 2004 (by Steve Carr) featuring graduate students Melissa Pfeffer and Lysa Chizmadia, Research Engineer Bob Macy and Prof. Frans Rietmeijer

Mousumi Roy, Assistant Professor
- Public lecture at the Santa Fe Geological Society meeting, Feb, 2005
- Public lecture at the Los Alamos Geological Society meeting, Feb., 2005

Louis Scuderi, Associate Professor
- Fieldwork in Arizona, and California
- CEOS Conference, Wuhan China, May 2004

Zachary Sharp, Associate Professor
- Science teaching at Zuni elementary school
- Mentor for NASA SHARP summer students (two)
- Board Member, European Society of Isotope Research
- Albuquerque Start Scholars Reception representative (E&PS)

Michael N. Spilde, Research Scientist III
- Conducted Microprobe & SEM lab tours and demonstrations for several elementary and junior high school groups.
IV. GRADUATE PROGRAMS AND STUDENT SCHOLARSHIPS
(Calendar Year 2004-2005)
SUMMARY OF THE GRADUATE PROGRAM

The total number of graduate students in the Department in 2004-2005 was 52. As of the Fall of 2004, over 50% (54%) of the graduate students were women, a continuation of a trend that began during the last decade. Nearly 50 percent of the graduate students are in the doctoral program. Relevant data for the graduate program are included in the Table 2 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 classroom, laboratory, and field experiences, graduate students acquire the mentoring, expertise, and skills required to become successful professional scientists in a variety 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 opportunities 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.

A great deal of evidence show that the graduate program continues to be quite strong. Again, during the 2004-2005 academic year, many of our students won prestigious national fellowships or awards, such as National Science Foundation Fellowship and NASA Fellowships. In addition, the Department again received a large number of applications to the Graduate Program (nearly 80), another measure of the quality of our program. The top quartile of these applicants have outstanding academic records, and typically they also receive offers from the top Earth Science Departments elsewhere in the U.S. Nevertheless, we continue to have good success attracting such students to the Department, as again well over 50% of the applicants to whom we made TA or RA offers ultimately accepted.

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.
TABLE 1. Bachelor’s, Master’s and Doctoral Students Degrees, Fall, 2004 – Spring, 2005.

<table>
<thead>
<tr>
<th>Bachelor of Science (2004)</th>
<th>Bachelor of Science (2005)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamara Sciacca</td>
<td>Sara Caldwell</td>
</tr>
<tr>
<td></td>
<td>Chloie L. Peterson</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bachelor of Science in Environmental Science (2004)</th>
<th>Bachelor of Science in Environmental Science (2005)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roger Arenas</td>
<td>Amy M. Gray</td>
</tr>
<tr>
<td>Katrina Leckovic</td>
<td>Ranee N. Onstott</td>
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<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Travis Begaye</td>
<td>Caroline A. Myer</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th></th>
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<tbody>
<tr>
<td>Lysa J. Chizmadia</td>
<td>James A. Ashby</td>
</tr>
<tr>
<td>Justin Hagerty</td>
<td>Daniel O. Breecker</td>
</tr>
<tr>
<td>Jennifer Pierce</td>
<td>Benjamin N. Burnett</td>
</tr>
<tr>
<td>Kurt J. Steffen</td>
<td>Bethany J. Burnett</td>
</tr>
<tr>
<td></td>
<td>Thomas A. Loveland</td>
</tr>
<tr>
<td></td>
<td>Richard M. Ortiz</td>
</tr>
<tr>
<td></td>
<td>Lea Anne Scott</td>
</tr>
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<table>
<thead>
<tr>
<th>M.S. Students (2005)</th>
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<tbody>
<tr>
<td>Paul V. Burger</td>
<td>Sara Caldwell</td>
</tr>
<tr>
<td>Caitlin N. Callahan</td>
<td>Chloie L. Peterson</td>
</tr>
<tr>
<td>Johny Chaklader</td>
<td></td>
</tr>
<tr>
<td>Joost Maarten deMoor</td>
<td></td>
</tr>
<tr>
<td>Rachael Dwarzski</td>
<td></td>
</tr>
<tr>
<td>Katherine A. Klise</td>
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</tr>
<tr>
<td>Shirley A. Libed</td>
<td></td>
</tr>
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</table>

<table>
<thead>
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<th>Master's Students (2005)</th>
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</thead>
<tbody>
<tr>
<td>Jonathan K. MacCarthy</td>
<td>Sara Caldwell</td>
</tr>
<tr>
<td>George B. Perkins</td>
<td>Chloie L. Peterson</td>
</tr>
<tr>
<td>Courtney Porreca</td>
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<tbody>
<tr>
<td>Travis Begaye</td>
<td>Caroline A. Myer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applicants Total</th>
<th>Admitted</th>
<th>% Admitted</th>
<th>Accepted</th>
<th>% Admitted / Accepted</th>
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<tr>
<td>51</td>
<td>16</td>
<td>31%</td>
<td>9</td>
<td>56%</td>
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<tr>
<td>13</td>
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<tr>
<td>64</td>
<td>22</td>
<td>34%</td>
<td>14</td>
<td>64%</td>
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<table>
<thead>
<tr>
<th>Female Applicants</th>
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<th>Accepted</th>
<th>% Admitted / Accepted</th>
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<tr>
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<tr>
<td>4</td>
<td>3</td>
<td></td>
<td>3</td>
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</tbody>
</table>
Many Graduate and Undergraduate students were supported by scholarships, fellowships, and other awards during the 2004-2005 year fact are mentioned in the UNM Foundation. During the 2004-05 year, the total value of fund awards was well over $50,000. Many scholarships are derived from various funds that have been established for this purpose 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. Many students, of course are also the recipients of funds from the University, as well as prestigious research awards fund organizations like the Geological Society of America. Recipients of these awards are listed below.

**Graduate and Undergraduate Scholarships and Awards**

**Geology Alumni Fellowship Fund**

Neyda Abreu
Scott DuFrane
Matthew Kirk
Courtney Porreca

Caitlin Callahan
Rachel Dwarski
Jonathan MacCarthey
Michael Petronis

Johny Chaklader
Amber Hawkins
Jennifer New
Austin Zinsser

Carolyn Domrose
Linda Hurley
George Perkins

**Harry and Mabel Leonard Scholarship**

David Abrams
Sara Caldwell
Nick Engdahl
Timothy Lite
Dawn Martin Miller
Chloe Peterson

Chris Armitjo
Bradley Childs
George Garcia
Leslie Livengood
Ryan McGuill
Kimberly Samuels

Cassandre Brown
Russell Drummond
Fotini Grouios
Brian Lucero
Caroline Myer
Lani Tsinnajinnie

R. Cougar Burke
Eileen Embid
Geoffrey Johnson
April Lyons
Michael Petersen
Heather Woods

**General Thomas Campbell Award**

Rose Afandi
Michael Emms
Caroline Myer

Cassandre Brown
Willa Hafich
Greg Peacock

Jamar Bynum
Ana Moreno
James Pyburn

Chad Dawson
Brian Kramer
Nik Rael

**James Drew Pfeiffer Memorial Award**

April Lyons
Dawn Martin-Miller

Kimberly Samuels

**Outstanding Student of the Year Award**

Stuart A. Northrop Award (Chloe Peterson)
Sherman A. Wengerd Award (Kimberly Samuels)
J.P. Fitzsimmons Award (Dawn Martin-Miller)
V.C. Kelley Outstanding Field Geologist (Chloe Peterson)
Roger Y. Anderson Award (Lani Tsinnajinnie)
Outstanding Environmental Science Graduate (Fotini Grouios)
Other Graduate and Undergraduate Student Awards

New Mexico Geological Society, Lucille H. Pipkin Book Scholarship: Fotini Grouios, Willa Hafich, Lani Tsinnajinnie
Albuquerque Gem and Mineral Club Scholarship: Brian Lucero
Association for Women Geoscientists Award: Kate Klise, Kimberly Samuels
New Mexico Geological Society, Fall Field Conference Scholarship: Ben Ortega, Chloe Peterson
New Mexico Geological Society, Lucille Pipkin Senior Scholarship: Christopher Cox

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:

Bachelor of Science
Departmental Honors – Senior Thesis


Sara Caldwell, summa cum laude, Spring, 2005 – “Bacterial Diversity and Biogeochemical Cycling in the Middle Rio Grande Aquifer, New Mexico”. Advisor: Dr. Laura J. Cressey.

Caroline A. Myer, magna cum laude, Spring, 2005 – “Petrographic Analysis of Cuttings from the Yates #2 La Mesa Well and Implications for the Tectonic History of the Southern Española Basin”. Advisor: Dr. Gary A. Smith.


Graduate Student Scholarship and Awards

Outstanding Master of Science Student
Kate Klise

Outstanding Doctor of Philosophy Student
Jessica Rasmussen

Albert M. Kudo Outstanding Teaching Assistant
Scott R. Muggleton

Outstanding Beginning Teaching Assistant
Alexis Ault
Jean-Luc Miossec Memorial Scholarship

Jennifer New
Lyman Persico

Vincent C. Kelley Memorial Scholarship

Joost Maarten deMoor
Jaime Barnes
Jessica Rasmussen

Richard P. Vann Memorial Scholarship

Kate E. Zeigler

Rodney C. Rhodes Memorial Scholarship

George Perkins

Alexander and Geraldine Wanek Scholarship

Jana Berlin
Amy Ellwein
Nathan Mills
Dennis Newell
Paul Burger
Amy Luther
Scott Muggleton
Elizabeth Nichols
Andy DuFrane
Vanessa Meier
Melissa Nelson

Jerry Harbour Memorial Endowed Scholarship Fund

Michael Petronis

Sherman A. Wagered Travelling Scholarship

Alexis Ault
Erin Carroll
Amber Hawkins

Kotlowski Fellowship Award

Matthew Kirk

New Mexico Geological Society Research Grant In Aid

Amy Luther
Jed Frechette
Jennifer New
Graduate Degrees Awarded

The following students received M.S. and Ph.D. degrees in Earth and Planetary Sciences, Fall 2004 and Spring, 2005 (no summer degrees are listed). Thesis/dissertation titles and faculty advisors are also indicated.

Master of Science

James M. Ashby, Spring, 2005 — “Paleomagnetic and Fault Kinematic Assessment of Laramide-Age Deformation in the Central and Eastern Uinta Mountains Colorado and Utah”. Advisor: Dr. John W. Geissman.


Caitlin N. Callahan, Spring, 2005 — “Magnetic Properties of Mantle Xenoliths from the Rio Puerco Volcanic Necks, New Mexico”. Advisors: Dr. Jane Selverstone and Dr. John W. Geissman.


Thomas A. Loveland, Fall, 2004 — “Depositional History and Origin of the Holocene Estancia Playa Complex, Torrance County, New Mexico”. Advisor: Dr. Laura J. Crossey and Dr. Roger Y. Anderson.


Lea Anne Scott, Fall, 2004 – “Cyclostratigraphy and Meteoric Diagenesis of the Middle Pennsylvanian Gray Mesa Formation, Lucero Basin, New Mexico”. Advisor: Maya Elrick.

Doctor of Philosophy


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 2004-2005:

Ph.D.

• Lysa J. Chizmadia – Employed with the Institute of Astronomy, University of Hawaii.
• Justin Hagerty – Working at Los Alamos National Laboratories.
• Jennifer Pierce – Tenure-track Assistant Professor at Boise State University, Dept. of Geoscience.

M.S.

• Paul V. Burger – Working as a Research Scientist in the Institute of Meteoritics, University of New Mexico.
• Benjamin N. Burnett – Teaching part-time in the Denver Public School System.
• Bethany J. Burnett – Tutoring high-school students in the Denver, Colorado area.
- **Caitlin N. Callahan** – Entering Ph.D. Program in the Department of Earth and Planetary Sciences.
- **Johnny Chaklader** – Working as a Senate Intern in Washington, D.C.
- **Joost Maarten deMoor** – Resides in Tucson, Arizona.
- **Katherine A. Klise** – Working as a Hydrogeologist at Sandia National Laboratories.
- **Shirley A. Libed** – Working in New Mexico and her future plans are to enter a Ph.D. Program.
- **Thomas A. Loveland** – Self-Employed and resides in Santa Fe, New Mexico.
- **George B. Perkins** – On the road traveling before entering a Ph.D. Program.
- **Courtney Porreca** – On the road traveling before entering a Ph.D. Program.
- **Lea Anne Scott** – Working for an Environmental Firm in the New England area.
V. DONATIONS TO DEPARTMENT
(Calendar Year 2004-2005)
### DONATIONS TO DEPARTMENT

January 1, 2004 to June 30, 2005 Fiscal Year

#### Geology Chair Account

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. John W. Hawley</td>
<td>Mr. John G. Kuhn</td>
<td>Ms. Jane N. Pedrick</td>
</tr>
<tr>
<td>Mr. William C. Carrigan</td>
<td>Ms. Paula Jane Slavin</td>
<td>Mr. Mark Cameron</td>
</tr>
<tr>
<td>Mr. Richard Lee Ford</td>
<td>Ms. Sallie M. Palmer</td>
<td></td>
</tr>
</tbody>
</table>

#### Harding Pegmatite Mine

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Peate Ingrid Ukstins</td>
<td>Ms. Amy J. Armstrong</td>
<td>University of North Carolina</td>
</tr>
<tr>
<td>Ms. Jacques Bonniseau</td>
<td>Mr. William H. Busch</td>
<td>Geology Field Camp, Gainesville, Florida</td>
</tr>
<tr>
<td>Ms. Amy J. Armstrong</td>
<td>Ms. Michelle T. Benak</td>
<td>Albuquerque Gem and Mineral Club</td>
</tr>
<tr>
<td>Mr. Matthew I. Leybourne</td>
<td>Ms. Karen J. Carney</td>
<td>Geology Field Camp</td>
</tr>
<tr>
<td>Ms. Christina Salomon</td>
<td>Ms. Carolyn H. Mikell</td>
<td>Bucknell University</td>
</tr>
<tr>
<td>Mr. David H. Mobley</td>
<td>Ms. William Veenstra</td>
<td></td>
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</tbody>
</table>

#### Sherman & Florence Wengerd Traveling Fellowship

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Eugene R. Caprio</td>
<td>Mr. Henry F. Pomeroy, Jr.</td>
</tr>
</tbody>
</table>
APPENDIX I

MUSEUM AND HARDING PEGMATITE LOG

2004-2005
<table>
<thead>
<tr>
<th>DATE</th>
<th>ORGANIZATION</th>
<th>GRADE</th>
<th># OF STUDENTS</th>
<th># OF ADULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-20-05</td>
<td>CIRRELSA CLASSES DECLAY</td>
<td></td>
<td>6</td>
<td>2</td>
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<tr>
<td>7-23-05</td>
<td>YOUTH CONSERVATION CORPS.</td>
<td>8TH</td>
<td>40</td>
<td>4</td>
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<tr>
<td>JULY, 2004 TOTAL</td>
<td></td>
<td></td>
<td>46</td>
<td>6</td>
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<tr>
<td>AUGUST, 2004 TOTAL</td>
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<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>9-20-05</td>
<td>ORATE ELEM.</td>
<td>5TH</td>
<td>23</td>
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<tr>
<td>SEPTEMBER 2004 TOTAL</td>
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<tr>
<td>10-01-05</td>
<td>UNM CHILDREN'S CAMPUS</td>
<td>PRE-SCH.</td>
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<tr>
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<td>BANDELIER ELEM.</td>
<td>2ND</td>
<td>40</td>
<td>8</td>
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<tr>
<td>10-19-05</td>
<td>UNM JEWELRY CLASS</td>
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<td>25</td>
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<td>OCTOBER, 2004 TOTAL</td>
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<tr>
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<td>LOS PADILLAS COMM. CTR.</td>
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<tr>
<td>11-05-05</td>
<td>MONTE VISTA ELEM.</td>
<td>1ST-2ND</td>
<td>24</td>
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<tr>
<td>11-09-05</td>
<td>HAYES MIDDLE SCHOOL</td>
<td>8TH</td>
<td>14</td>
<td>2</td>
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<tr>
<td>11-12-05</td>
<td>HOPE CHRISTIAN SCHOOL</td>
<td>5TH</td>
<td>18</td>
<td>4</td>
</tr>
<tr>
<td>11-23-05</td>
<td>HOPE CHRISTIAN SCHOOL</td>
<td>5TH</td>
<td>21</td>
<td>5</td>
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<tr>
<td>NOVEMBER, 2004 TOTAL</td>
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<td></td>
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</tr>
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<td>12-01-05</td>
<td>ROOSEVELT ELEM. SCHOOL</td>
<td>1ST-2ND</td>
<td>37</td>
<td>6</td>
</tr>
<tr>
<td>DECEMBER, 2004 TOTAL</td>
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<tr>
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<td>8TH</td>
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<tr>
<td>1-07-05</td>
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<td>1-12-05</td>
<td>CHILDREN'S CHOICE</td>
<td>K-4TH</td>
<td>25</td>
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<tr>
<td>1-13-15</td>
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<td>8TH</td>
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<td>DATE</td>
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<tr>
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<td>3-02-05</td>
<td>WILSON MID. Sch.</td>
<td>7TH-8TH</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>3-04-05</td>
<td>MONTE VISTA Elem.</td>
<td>K</td>
<td>19</td>
<td>4</td>
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<tr>
<td>3-11-05</td>
<td>ROOSEVELT Elem. Sch.</td>
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<td>&quot;</td>
<td>ENCHANTED HILLS Elem.</td>
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2004 - 2005: 152

COLLEGE / UNIVERSITY VISITORS TOTAL
THE ANNUAL REPORT
OF THE
INSTITUTE OF METEORITICS

July 1, 2004 to June 30, 2005

Carl B. Agee, Director
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INTRODUCTION

The Institute of Meteoritics (IOM), founded in 1944, was one of the first institutions in the world devoted to the study of meteorites. More than sixty years later, IOM has earned a reputation as a premier center for research on the origin and early history of our solar system and the evolution of the planets.

Activities of the IOM include:

1. Microbeam and isotopic analyses of meteoritic and other planetary materials for research on the origin and nature of solar system bodies.
2. Laboratory synthesis of astromaterials at extreme pressures and temperatures to understand the formation, evolution, and present state of planetary interiors.
3. Exploring the solar system through participation in current and future NASA missions to Mars, the Moon, comets, asteroids, and other planetary destinations.
4. Teaching excellence at the undergraduate and graduate level through courses, seminars, and supervised research.
5. Curation of the IOM’s collection of more than 600 different meteorites, including martian and lunar specimens, which constitutes an extremely valuable asset for researchers worldwide.
6. Education and public outreach to several thousand people of all ages who visit the Meteorite Museum in Northrop Hall each year. The museum is also the focus of several funded minority outreach programs.

The 2004 FY was one in which the IOM continued to receive new grants and to book increases in expenditures on scholarly research. Carl Agee was awarded a new three-year grant from the National Science Foundation, thus joining David Draper in broadening the IOM’s funding base and strengthening our foothold in the realm of Earth science research. Robert Reedy and Michael Spilde were also successful in securing new NSF grants in the CRONUS Program and in Biology respectively. Horton Newsom further bolstered our strong NASA funding base with a new grant in the Geology and Geophysics Program. In total, the IOM booked over $944,000 in research expenditures from overhead-encumbered accounts in calendar year 2004 from NASA and NSF grants. We believe this growth and total research-dollar output is even more remarkable when one considers it is all accomplished with a base staffing allotment of 4 FTE for the entire Institute research staff (including Director Agee’s position). This translates into an impressive expenditure/FTE ratio of $236,000/FTE for CY 2004. The total amount of all the active NASA and NSF grants for the IOM is more than 4 million dollars or ~$1,000,000/FTE.

IOM research activities had a significant impact on the field of planetary materials research in FY 2004. We produced 19 peer-reviewed publications that appeared in internationally recognized scientific journals. A notable example was a paper by Lars Borg, Charles Shearer, Yemane Asmerom, and James Papike (2004), Nature, which reported the youngest age ever determined for a rock sample from the Moon. The IOM staff and students were active in disseminating our new results through the presentation of over 70 research papers at numerous international scientific meetings. For example, we presented 29 research papers at the annual Lunar and Planetary Science Conference in Houston. Our contributions at this prestigious meeting were highlighted in wide range of sessions ranging from studies of the deep interiors of Mars and the Moon to the genesis of primitive meteorites.
FACULTY AND STAFF
FACULTY AND STAFF

Director, Institute of Meteoritics
Dr. Carl B. Agee

Senior Research Scientists III
Dr. David Draper
Dr. Horton Newsom
Dr. Charles Shearer

Senior Research Scientists II
Dr. Lars Borg
Dr. Rhian Jones

Research Scientist
Michael Spilde

Research Professors
Dr. V. Rama Murthy
Dr. James J. Papike
Dr. Robert Reedy

Research Assistant Professor
Dr. Barbara Cohen

Postdoctoral Associates
Dr. Amy Gaffney
Dr. James Karner
Dr. Kyeong Kim

Administrative Personnel
Shannon Clark, Program Coordinator
Lee Ann Lloyd, Administrative Assistant II
Kevin Sandoval, Workstudy

Graduate Students
Johny Chaklader (M.S.)
Rachel Dwarski (M.S.)
Jennifer Edmunson (Ph.D.)
Justin Hagerty (Ph.D.)
Nathan Mills (M.S.)
Melissa Nelson (M.S.)

Addition to Staff
Lee Ann Lloyd

Separations from Staff
Dr. Rhian Jones
Yolanda Skotchdopole
1. RESEARCH
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 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.

Funded Research

Total Awards: ~$4,055,000

**Experimental Studies of Planetary Magmas at High Pressure**

Funded by the Cosmochemistry Program, NASA. P.I. Carl Agee
Total Award Amount: $300,000; Award Period: April 1, 2004 – March 31, 2007

This work focuses on three main tasks: 1) Partitioning of slightly siderophile and volatile elements between mantle and core, 2) Mobility of silicate and metallic liquids during planetary differentiation, and 3) The source regions of lunar picrite glasses. All three tasks will be carried out in the high-pressure and analytical laboratories in the IOM. Results from these studies should advance our understanding of the early differentiation of the Earth, Moon, Mars, and other planetary bodies.

**Static Compression of Hydrous Silicate Liquids**

Funded by NSF EAR Petrology and Geochemistry Program and Geophysics Program. P.I. Carl Agee
Total Award Amount: $250,000; Award Period: June 1, 2005 – May 31, 2008

The primary goal of this project is determine the density and compressibility of hydrous silicate liquids at high-pressure. This will be accomplished by performing static compression sink/float experiments in piston-cylinder and multi-anvil devices at pressures from 0.5 to 20 GPa. These measurements will give new insight into the structure and physical properties of hydrous silicate liquids, and the mobility of water-bearing magmas in the Earth’s mantle.

**Geochronology of Planetary Materials: A Petrologic Approach**

Funded by the Cosmochemistry Program, NASA. P.I. Lars Borg
Total Award Amount: $420,000; Award Period: January 15, 2005 – January 15, 2008

The objectives of my Cosmochemistry program funded research are to obtain isotopic analyses of martian and lunar samples and to interpret these data in a petrologic and geochemical context. These analyses will define the crystallization ages and initial isotopic compositions of selected samples and provide a basis for estimating the composition of magma source regions, the timing of source region formation, and the style of chemical interactions between these source regions on both Mars and the Moon.
- **Chronological and Mineralogical Studies of Shocked Terrestrial Basalts: A Martian Analogue**
  Funded by Mars Fundamental Research Program, NASA P.I. Lars Borg
  Total Award Amount: $188,000; Award Period: January 15, 2003 – January 15, 2006

The goal of this Mars Fundamental Research funded project is to determine how the U-Pb, Rb-Sr, and Sm-Nd isotopic systematics of martian basalts respond to shock induced metamorphism. To complete this task Amy Gaffney has completed numerous age determinations on aliquots lunar basalt 10017 that have been artificially heated and shocked in the laboratory. This project is closely tied to ion microprobe studies completed by graduate student Johnny Chaklader (advisor Charles Shearer) who investigated the behavior of Li and B (as well as Rb, Sr, Sm, and Nd) in the same lunar samples studied for U-Pb, Rb-Sr, and Sm-Nd isotopes. This project has also lead to petrogenetic models for the igneous behavior of U-Pb in the Moon.

- **Geochemistry and Geochronology of Granulitic Clasts in Lunar Meteorites**
  Funded by Cosmochemistry Program, NASA. P.I.: Barbara A. Cohen
  Total Award Amount: $126,000; Award Period: June 1, 2004 – May 31, 2007

The lunar cataclysm is postulated to be a brief period ~3.9 Ga when an anomalous, large population of impactors hit the Earth-Moon system. The cataclysm scenario is based on ages determined for lunar impact melt rocks, none of which are older than ~3.9 Ga. Lunar granulites underwent geologically rapid, solid-state metamorphism at intermediate temperatures, probably in or near large impact craters – conditions sufficient to have fully degassed 40Ar. Thus, the spectrum of granulite ages should reflect the flux of large impact events on the Moon. We will use the geochronology of granulitic clasts in lunar meteorites to uncover more data about the large-crater impact record in the lunar highlands. We will also compare the composition of granulitic clasts in lunar meteorites to the Apollo collection to make inferences about the nature of the feldspathic crust at widely-separated sample sites.

- **Experimental Studies of Garnet-Melt Trace Element Partitioning**
  Funded by the Earth Sciences Program, National Science Foundation. P.I. David Draper
  Total Award: $299,810; Award Period: June 1, 2004 – May 31, 2007

Significant progress has been made on this work, with garnet-liquid partitioning explored in two lunar compositions in the previous year. We have found that partitioning is substantially different in such compositions compared to the terrestrial systems explored previously. Two papers are either in review or in press on this work, one of which is part of the Masters thesis research by IOM graduate student Rachel E. Dwarzski. Dr. Willem van Westrenen, science collaborator from Vrije Universiteit in the Netherlands, visited for two weeks and two additional manuscripts outlining an improved predictive model for garnet-liquid partitioning are in preparation during fall 2005.

- **Upgrading Of High-Pressure Experimental Petrology Laboratory At University Of New Mexico**
  Funded by the Earth Sciences Instruments & Facilities Program, National Science Foundation. P.I. David Draper
  Total Award: $15,519; Award Period: July 1, 2005 – June 30, 2007

A small grant was awarded to fund upgrades of the high pressure lab. A new piston-cylinder frame was obtained from the University of Oregon, and new components have been ordered to assemble that frame as a new piston-cylinder press. Funds will also go toward repairing seals on the two existing presses, converting the smaller of the two into a second multi-anvil, and repairing a minor seal leak on the larger press. In addition, a new set of temperature controllers and, possibly, a new automated pressure control system will be installed in the coming year.
An Isotopic Study of Lunar Mg-suite Rocks: Application of Sm-Nd, Rb-Sr, and U-Pb Techniques
Funded in part by a NASA Graduate Student Research Program Fellowship. P.I. Jennifer Edmunson
Total Award Amount: $72,000; Award Period: August 1, 2003 – July 31, 2006

Concurrent Sm-Nd, Rb-Sr, and U-Pb isotopic studies of the lunar magnesium suite (Mg-suite) are necessary to: 1) constrain the age of lunar magma ocean crystallization; 2) determine precisely the time of Mg-suite magmatism, as well as the nature of the mantle source(s); and 3) explore geochemical relationships between the lunar crust and the Mg-suite. This study is the first to apply all three isotopic systems to the same mineral fractions of lunar rocks, which will allow direct comparisons between the three isotopic systems. Research continues as part of a Ph.D. dissertation under the direction of Dr. Lars Borg and Dr. Carl Agee. Work has been completed on the first of two samples using the thermal ionization mass spectrometer and clean lab facilities at the Johnson Space Center and in Earth and Planetary Sciences at UNM. Similar procedures will be employed for dating the second Mg-suite sample in the following year.

Bridging the Gap: Linking SW Native American Culture with the Teaching of Astronomy and Space Science
Funded by the Space Telescope Science Institute IDEAS Program, NASA. P.I. Horton Newsom
Total Award Amount: $49,983; Award Period: May 1, 2003 – April 30, 2005

This project involves a summer teacher-training workshop for teachers from the four corners region and the Navajo Nation. The emphasis is astronomical themes.

A Broker/Facilitator Partnership to Serve the South Central, Southwest Region and Hawai‘i
Funded by the Office of Space Science-Broker Facilitator Program, NASA. P.I. Horton Newsom
Total Award Amount: $121,000; Award Period: March 1, 2002 – February 28, 2007

Dr. Newsom is a co-investigator for a Broker-facilitator project led by the Lunar and Planetary Science Institute. This project coordinates activities for teachers and informal science centers to learn more about NASA planetary science missions and research. A major component of the program is an intensive annual professional development workshop for teachers. These workshops provide interactions with NASA researchers and a field science experience.

Educational Activities for the DAWN Mission to Asteroids Ceres and Vesta
Funded by the Office of Space Science, NASA. P.I. Horton Newsom
Total Award Amount: $25,000; Award Period: January 1, 2003 – January 31, 2007

Dr. Newsom is a member of the educational team for the DAWN mission and is providing information on the connection between meteorites and asteroids for the creation of web sites and educational activities. The DAWN mission will be the first dedicated mission to the main asteroid belt.

Hydrothermal Fluids And Alteration On Mars: Sources Of Life-Related And Toxic Elements In The Near Surface Environment
Funded by the Mars Fundamental Research Program, NASA. P.I. Horton Newsom
Total Award Amount: $177,719; Award Period: March 1, 2004 – February 28, 2007

This project directed by Dr. Horton Newsom will determine the composition of materials altered by aqueous fluids under simulated Mars conditions at temperatures from near freezing to 35°C. The experimental samples will include simulated Mars minerals and glasses provided by Jeff Moore and Mark Bullock altered under simulated Mars conditions in the Ames research center's Mars Brines experimental facility. The samples will be analyzed using a powerful suite of microanalytical techniques to obtain
- three-dimensional quantitative information about the distribution and composition of alteration phases and leached minerals. These techniques include scanning electron microscope and electron microprobe quantitative analysis and quantitative spatial data analysis using x-ray mapping, and secondary ion mass spectrometry for quantitative analysis of trace elements, ion imaging, and depth profiling. The results will be used to improve our understanding of the geochemistry of life-related and toxic elements in the near surface environment of Mars.

**Impact Crater Hydrothermal Systems**  
Funded by the Planetary Geology and Geophysics Program, NASA. P.I. Horton Newsom  
Total Award Amount: $30,000; Award Period: January 1, 2005 – December 31, 2006

This project, directed by Dr. Horton Newsom, 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, and may also be connected with the formation of the Martian soil. Studies of terrestrial analogue craters can provide important insight and constraints into processes involving impact craters on Mars. We are studying the only well-documented crater in basaltic terrain, the Lonar Crater, India. The investigation of the Lonar Crater impact melts is providing information on the formation of a crater in a basaltic terrain analogous to Mars. The mineralogy and chemical transport processes at the crater are studied using Scanning Electron Microscopy, Electron Microprobe, and stable isotope studies. The data from the Lonar Crater will be compared with data obtained by current Mars spacecraft such as the Mars Exploration Rovers. Studies of larger impact craters include the Chicxulub crater in Mexico, and the Bosumtwi crater in Ghana.

**Skytellers: A Resource For Smaller Community And School Planetariums**  
Funded by the National Science Foundation. P.I. Horton Newsom  
Total Award Amount: $37,796; Award Period: July 1, 2002 – August 31, 2005

Dr. Newsom is a participant in the Skytellers project led by the Lunar and Planetary Science Institute. This project is producing a series of Native American stories with astronomical themes, coupled with a short “science” story as a way to inspire students’ interest in science. Dr. Newsom provides input into the content of the science stories, initial training of teachers in use of the material and assistance with the evaluation of the effectiveness of the material.

**Stars on Earth, Space Science Research Experience and College Preparation for Underrepresented Secondary Students**  
Total Award Amount: $149,368; Award Period; January 1, 2004 – December 31, 2007

This program is a collaboration between the Southwestern Indian Polytechnic Institute (SIPI) and UNM. This program provides under-represented high school students and college students with research experience in space science and technology-based academic preparation in math, science, engineering and technology (MSET). SIPI college students also benefit from the establishment of new courses in Earth and Planetary Science and astronomy, and the opportunity to be involved in related research projects at the University of New Mexico. The research activities include a meteorite identification program, and research on martian impact craters and analog materials.
The redox states of volcanic and impact melts from the Earth, Moon and Mars have been estimated from the valence state of vanadium in basaltic glasses. The vanadium valence is determined using synchrotron micro x-ray absorption near edge structure spectroscopy which allows for in situ measurements on samples with a micrometer spatial resolution and ~100 ppm elemental sensitivity. The results show that terrestrial melts are dominated by V\(^{4+}\), lunar samples by V\(^{3+}\), with martian melts a mixture of both V\(^{3+}\) and V\(^{4+}\). The \(f_O_2\) estimates derived from the V valence are consistent with those determined by other proven methods; whereby terrestrial basalts experience \(f_O_2\) conditions within 1 or 2 log units of the QFM buffer, lunar basalts equilibrate at 1 to 2 log units below the IW buffer, and martian basalts fall somewhere between the QFM and IW buffer. The results illustrate the usefulness of this technique; i.e. a robust oxybarometer covering over six orders of magnitude, applicable to samples that record \(f_O_2\) conditions from reduced extraterrestrial bodies to the oxidized Earth.

Subtask: Chondritic Meteorites. (With Co-I. R. Jones)

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.
capture or inelastic-scattering reactions). The abundances of H, O, Si, Cl, K, Fe, and Th are mapped in the martian surface. Some gamma rays are also observed from C, Al, S, Ca, and U. Work at UNM includes determining backgrounds and accurately predicting the fluxes of the gamma rays expected from Mars. Results to date include the detection of much water ice near the martian poles, of several regions near the equator with significant amounts of hydrogen-containing compounds (probably bound water), and of enhancements of atmospheric argon over the poles during the initial formation of the seasonal CO₂ polar caps.

Cosmic-Ray-Produced Nuclide Systematics on Earth
Funded by the National Science Foundation Earth Sciences Directorate. P.I. Robert Reedy
Total Award Amount: $90,000; April 1, 2005 – March 31, 2010

The Cosmic-Ray prOduced NUclide Systematics on Earth (CRONUS-Earth) project is a large, 5-year, international collaboration to develop good production-rate systematics for cosmogenic nuclides made in situ in the Earth's surface. Some cosmic-ray particles penetrate the top few meters of the Earth's surface and produce nuclides. These cosmogenic nuclides are ideal for measuring the lengths of time that a sample has been on or very near the Earth's surface. Surface exposure dating is used for recently-formed igneous rocks and for material recently exposed by processes such as earthquakes, glaciers, river erosion, and landslides. Computer codes and nuclear data are used to numerically simulate the interactions of cosmic-ray particles with the Earth's surface and the production of nuclides. Comparisons with measurements using artificial and natural terrestrial samples are used to improve these calculations. Variations in the calculated production rates as a function of location, sample geometry, and elevation will be calculated.

Behavior of Th and Sm in Planetary Surface and Magmatic Environments. Extending Remotely Sensed Chemical Data to Better Understand Planetary Evolution
Funded by IGPP/DOE. P.I. Charles Shearer
Total Award Amount: $90,000; Award Period: October 2002 - October 2005

The Lunar Prospector mission has produced the first chemical map of a complete planet, but direct comparison between this orbital data set and the "ground truth" samples returned from the Moon has been difficult. The most precise data from Lunar Prospector are those for Th, REE and Fe. This research focuses upon the behavior of Th (relative to Sm and Fe) during magmatic and regolith evolution. This study consists of three tasks that are critical for extending the interpretation of Th remotely sensed data: (1) Th-Sm heterogeneties in the lunar mantle, (2) Behavior of Th-Sm during basalt crystallization, and (3) Behavior of Th-Sm during regolith evolution. These tasks will focus upon the distribution of Th and Sm in individual mineral phases using ion microprobe analysis.

Behavior of Volatile Elements During Shock of Basalts
Funded by the Mars Fundamental Research Program, NASA. P.I. Charles Shearer
Total Award Amount: $186,000; Award Period: February 2002 - June 2006

The mineralogy of martian basalts and the composition of associated melt inclusions have been interpreted as indicating that martian basaltic magmas had very little water (less than 0.1 % H₂O). On the other hand, the behavior of geochemical tracers (Li and B) has been interpreted as indicating that this low water content was the product of extensive magmatic outgassing and that martian basalts initially contained significant water. This interpretation is based on the observation that Li and B decrease in the rims of pyroxenes in basaltic shergottites resulting from the partitioning of these incompatible elements into a fluid phase during degassing. To better understand the behavior of Li and B in basalts, we are investigating the redistribution of volatile elements in naturally and experimentally shocked and shocked-heated basalts and in anhydrous basalts from the Moon.
Identification of Microbial Signatures in Biogenic Cave Ferromanganese Deposits

Funded by the National Science Foundation. Co-I Michael N. Spilde, with P.I: Diana E. Northup, Biology Department
Total Award Amount: $297,000; Award Period: August 15, 2004 to July 31, 2007

The role of manganese- and iron-oxidizing bacteria in the cycling of iron and manganese is a critical question in geomicrobiology, especially in habitats such as cave ferromanganese deposits and desert/rock varnish. While it is well recognized that these elements are involved in biogeochemical cycling, many aspects of these processes are not well understood; much remains to be done to establish that these deposits are truly biogenic. Careful work (with a multidisciplinary approach including molecular biology, high-resolution mineralogy and geochemistry, and innovative environmental sampling) is necessary to establish the active role of microbes in the mineral accumulations of iron and manganese oxides. A multidisciplinary team is investigating the microbial and abiotic processes that produce these deposits to characterize the microbial species involved and to understand the process of mineral transformation in these deposits in caves and desert varnish.
2. PUBLICATIONS


Other Publications


Newsom, HE (2004), Book review, Cratering in Marine Environments and on Ice, H Dypvik, M. Burchell, and P. Claeys (Eds). EOS transactions, American Geophysical Union, 85:378 Sept. 28, 2004
Abtracts
(Institute staff/students in bold)


Agee CB, Draper DS (2005) High pressure melting of H-chondrite: A match for the martian basalt source mantle. LPSC XXXVI, Abstract #1434


Draper DS, Borg LE, Agee CB (2005) Crystallization of a martian magma ocean and the formation of shergottite source regions: a less Fe-rich Mars? LPSC XXXVI, Abstract #1429


Dwarzski RE, Draper DS, Shearer CK, Agee CB (2005) High pressure phase relations and trace element partitioning in Apollo 14 black glass. LPSC XXXVI, Abstract #1450


Hagerty JJ, Shearer CK, Vaniman DT (2004) Closed system behavior of trace elements during basalt crystallization in the Makaopuhi Lava Lake, Hawaii. Abstracts from American Geophysical Union, Fall Meeting


Shearer CK (2004) The role of shock in the redistribution of volatiles and volatile elements. Implications for the interpretation of Martian basalts. Abstracts from Fall American Geophysical Union Meeting


3. PROFESSIONAL TRAVEL
PROFESSIONAL TRAVEL

Carl Agee, Director and Professor

- MEPAG Meeting, Monrovia, CA. June 30 – July 2, 2004

Lars Borg, Research Scientist II

- Invited talk Arizona State University AZ. October 5-6, 2004.

David Draper, Research Scientist III


Rhian Jones, Research Scientist II

- Monnig Meteorite Gallery, Texas Christian University, Fort Worth, TX, to discuss meteorite exhibit. September 2004.
- Arizona State University to use ion microprobe. December 6-8, 2004.

V. Rama Murthy, Research Professor


Horton Newsom, Research Scientist III


Field work at the Lonar crater, India. January 22, 2005.


James Papike, Research Professor


Robert Reedy, Research Professor

- First Mars Express Science Conference, European Space Research and Technology Centre (ESTEC), Noordwijk, The Netherlands. February 21-25, 2005.
- Worked on analysis of planetary gamma-ray data at the Max-Planck-Institute for Chemistry, Mainz, Germany. February 28-March 4, 2005.
- Worked on analysis of the Mars Odyssey gamma-ray data at University of Arizona, Tucson. April 11-14, 2005.

Charles Shearer, Research Scientist III

- MEPAG, Pasadena CA.
- Mars Sample Return Analysis Group II, Meeting 1 Pasadena, CA.
- Mars Sample Return Analysis Group II, Meeting 2 Pasadena, CA.
- LEAG, Washington DC.
- MEPAG, Washington DC.
- Oxygen on the Terrestrial Planets Workshop, Santa Fe, N.M.
- Lunar Exploration Road Map Group, Houston, TX.
- LPI Science Council
- Oxygen in the Solar System, Flagstaff, AZ. June 2005
- Meteoritical Society meeting, Gatlinburg, TN. September 2005.

**Michael Spilde, Research Scientist**

- Advanced training class on the JEOL 8200 microprobe at UCLA in Los Angeles, California. October 3-8, 2004.
- Spring Meeting of the New Mexico Geological Society. Socorro, New Mexico. April 15, 2005.
- Fieldwork in Spider Cave, Carlsbad Caverns National Park, NM. April 29-May 1, 2005.
- Field sampling in caves and springs in southern Tabasco and El Chichon volcano in Chiapas, Mexico. June 11-21, 2005.
4. FACILITIES
FACILITIES

Curation and Meteorite Museum

The meteorite collection is an extremely valuable asset for research conducted in the IOM. Researchers around the world also make extensive use of our collection, and we have many active research loans. We also maintain several loans to permanent educational exhibitions around the country.

The collection now includes samples of approximately 600 different meteorites. We continue to expand the collection and acquire new meteorites, which is achieved through trading, making purchases and receiving donations of material. Discoveries of hundreds of new meteorites in North Africa in recent years have made many rare types of meteorites available to our collection through meteorite dealers.

Our meteorite catalog is now available on the internet, downloadable as a pdf file. The searchable catalog is interfaced with the current collection database, so it is continuously updated. This achievement was accomplished with the help of Dr. William Hudspeth of EDAC, UNM.

A major project to renovate the Meteorite Museum was led by Dr. Rhian Jones. Funds from the NASA Education and Public Outreach program have enabled us to begin redesigning the space, and to determine a projected budget for fundraising. Capital improvement funds have been requested from UNM, and other sources of funding are being pursued.

During this period Dr. Horton Newsom became curator of meteorites and Dr. Barbara Cohen assistant curator. Dr. Jones has joined the Department of Earth and Planetary Sciences as a faculty member, but remains in charge of the meteorite museum renovation effort.

Electron Microprobe and Scanning Electron Microscope Laboratories

Managed by Michael Spilde, Research Scientist

We continue to learn the new JEOL 8200 electron microprobe (installed in 2003 and accepted in May 2004). Lab manager Mike Spilde completed a week-long training class held at UCLA in October 2004. Mike and Lab Assistant Jana Berlin, Ph.D. Candidate in E&PS, continue to train new users, aid existing users, and develop new analytical techniques. Throughout the year, six new users were trained on the instrument, and the microprobe currently has 18 trained operators. The users of both the SEM and microprobe represent students, research staff and faculty from UNM and New Mexico Tech and trained users from several high-tech businesses in Albuquerque.

Both the SEM and microprobe labs are “service labs” that offer analytical services to Departmental and University clients and to the general public, in addition to providing services to Institute researchers and students. Lab personnel will provide analytical service for academic and non-academic clients or may train and assist users on the two instruments.

Analyses and other work were performed by J. Berlin and M. Spilde for the following UNM departments:

- Anthropology Department
- Biology Department
- Chemistry & Nuclear Engineering Dept.
- Center for Microengineered Materials
- Civil Engineering Department

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- College of Pharmacy
- Dept. of Chemistry
- Dept. of Earth & Planetary Science
- Electrical Engineering and Computer Science Department

Analyses were conducted for the following external academic, commercial and government clients:

- Alion Science & Technology, Chicago, IL (SEM)
- Daniel B. Stevens & Assoc. Albuquerque (SEM)
- HT Micro-Analytical, Albuquerque (SEM)
- Los Alamos National Laboratory, Los Alamos, NM (SEM)
- Lovelace Respiratory Research Institute, Albuquerque (SEM and microprobe)
- Museum of New Mexico, Santa Fe, NM (SEM)
- New Mexico Museum of Natural History and Science, Albuquerque (SEM)
- New Mexico State University, Las Cruces, NM (SEM)
- New Mexico Tech, Socorro, NM (SEM)
- Nuclear Regulatory Commission, Washington, DC (SEM and microprobe)
- Office of Medical Investigator, Albuquerque (SEM)
- O-Company, Albuquerque (SEM)
- Petroleum Recovery Research Institute, NM Tech, Socorro (SEM)
- Radiant technologies, Albuquerque (SEM)
- Southwestern Indian Polytechnic Institute, Albuquerque (SEM)
- Western Illinois University, Macomb, IL (SEM)
- Zeotech, Peralta, NM (SEM)
- Zia Engineering, Albuquerque (SEM & microprobe)

In addition to providing analytical services to the community, the labs are also involved in educational classes and public outreach programs. Two high school students from Sandia Prep School in Albuquerque and two REU (Research Experiences for Undergraduates) students from NM Tech worked on summer research projects that utilized the SEM for aspects of their work.

**The UNM/SNL Ion Microprobe**
Managed by Charles Shearer, Research Scientist III

A CAMECA IMS 4f Secondary Ion Mass Spectrometer (SIMS), originally purchased by Sandia National Laboratories (SNL) in 1989, is located in the Institute of Meteoritics adjacent to other microbeam instrumentation. C.K. Shearer and J.J. Papike negotiated with SNL to the transfer of this 2 million dollar facility to UNM. It was moved to UNM from the Advanced Materials Laboratory in November of 2001. 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.
The bulk of the experimental work presently underway in our group, funded by NASA and NSF, involves investigations of the conditions of formation of magmas that might be parents to the martian meteorites; investigations of the origins of lunar ultramafic glasses; studies of the physical properties of silicate liquids; and exploration of the controls on trace element partitioning between garnet and silicate melt. Our work has led to several important results. We have constrained the composition of the martian interior to be less Fe-rich than previously thought, and have shown how crystallization of a martian magma ocean could give rise to the source regions for martian basalts. We are determining the important controls on garnet-melt partitioning and fashioning new predictive models that can be applied to a broad range of conditions throughout the solar system. We are also exploring the effect of water content on the compressibility and density of ultramafic silicate melt at high pressure. Researchers in the lab include manager Draper, IOM Director Carl Agee, and graduate students Rachel Dwarski and Nathan Mills.

The high-temperature experimental petrology laboratory houses one Deltech, vertical muffle tube, high-temperature furnace that has gas-mixing capabilities and programmable temperature control. The lab (room 306C) also incorporates several lower-temperature ovens.
5. TEACHING
TEACHING

Carl Agee, Director and Professor

Courses

Fall 2004: EPS 365 Exploring the Solar System

Spring 2005: EPS 512 Planetary Interiors

Graduate Student Committees

Daniel Breeker
Johny Chaklader
Andrew Dufrane
Rachel Dwarzski
Jennifer Edmunson
Justin Hagerty
Nathan Mills
Melissa Nelson

Lars Borg, Research Scientist II

Graduate Student Committees

Jennifer Edmunson
Johny Chaklader

David Draper, Research Scientist III

Graduate Student Committees

Rachel Dwarzski
Nathan Mills
Jaime Barnes (Earth & Planetary Sciences)
Andrew duFrane (Earth & Planetary Sciences)
Maarten deMoor (Earth & Planetary Sciences)

Rhian Jones, Research Scientist II

Courses

Fall 2004: EPS 365 Exploring the Solar System, one lab session.

Graduate Student Committees

Neyda Abreu
Jana Berlin
Paul Burger
- Rena Ford
  Mel Strong

**V. Rama Murthy, Research Professor**

Nathan Mills

**Horton Newsom, Research Scientist III**

**Courses**


**Graduate Student Committees**

Ivan Thorsos
Melissa Nelson (Jan. 2005)

**Undergraduate Student Advisement**

Melissa Nelson – Senior thesis
Charles Barber
Michael Peterson

**Charles Shearer, Research Scientist III**

**Graduate Student Committees**

Jennifer Edmunson
Justin Hagerty
Johnny Chaklader
Rachel Dwarski

**Michael Spilde, Research Scientist**

**Courses**

Fall 2004: Guest lecture in E&PS 503 Organic Geochemistry
Spring 2005: Guest lecture and microprobe demonstration for Eng 413/513 Technical Writing class
6. POSTDOCTORAL ASSOCIATES
Amy Gaffney

Amy Gaffney received her Ph.D. in geology in 2004 from University of Washington. Since September 2004, she has been working with Dr. Lars Borg as a post-doctoral researcher on projects supported by Dr. Borg’s NASA Mars Fundamental Research and Cosmochemistry grants. She is currently working on two projects involving 10017, a high-Ti mare basalt. The goal of the first project is to evaluate the effects of experimental shock and thermal metamorphism on Sm-Nd, Rb-Sr and U-Pb isotope systematics as a means to understand the effects that shock and thermal metamorphism may have on isochrons from martian and lunar meteorites. For this project she has completed isotopic analyses of these six elements for mineral separates and leachates from each of three aliquots of 10017 (experimentally heated, experimentally shocked, unheated/unshocked). Amy also modified the Pb chemical separation procedures to enable analysis of the very small amounts of Pb in some of the mineral fractions. She presented the results of this project at the 2005 Meteoritical Society meeting. With the second project, she is using the Sm-Nd, Rb-Sr and U-Pb isotope analyses for the unshocked, unheated aliquot of 10017 to understand the petrogenesis of 10017 in the context of mare volcanism. She obtained a 238U-206Pb isochron for this sample that is concordant with the Rb-Sr and Sm-Nd ages. This can be used, in conjunction with the discordant 235U-207Pb age she determined for this sample, as a means to discuss mechanisms for disturbance of U-Pb in the moon, and ultimately, to better understand μ values of lunar magma source regions and the evolution of lunar Pb. Amy presented the results of this project at the 2005 LPSC, and this manuscript is in preparation. This Fall she will begin working on U-Pb isotope systematics in the martian meteorite QUE 94201, with the goal of understanding evolution of and disturbances to U-Pb in Mars.

James Karner

Jim Karner is currently a Post-Doctoral Fellow in the IOM under the direction of Dr. Jim Papike, where his main area of research is determining oxidation conditions of planetary basalts by means of X-ray Absorption Near-Edge Spectroscopy (XANES) using the element vanadium. The XANES experiments are done in collaboration with the Advanced Photon Source facility at Argonne National Laboratory in Chicago, IL.

Jim recently returned from a three-month research trip to Antarctica where he was a member of the Antarctic Search for Meteorites (ANSMET) team. The meteorites that ANSMET collects makeup the main body of samples studied by scientists throughout the world. The team had a successful season in 04-05 by collecting ~1400 new specimens, including 400+ lbs. of a rare pallasite meteorite.

Jim gave a poster presentation at the 35th Lunar and Planetary Science Conference, titled “Comparative planetary mineralogy: Co, Ni systematics in chromite from planetary basalts.” He also gave a talk at the Oxygen in the Terrestrial Planets 2005 workshop that was titled “Comparative planetary mineralogy: V systematics in planetary pyroxenes and f/02 estimates for basalts from Vesta.”

In addition to his postdoctoral duties, Jim also volunteers his time to a few of the IOM’s public outreach activities. These activities include working with Dr. Horton Newsom in developing and implementing space-based inquiry activities for middle school students, and assisting in the development of a meteorite identification program with the Southwestern Indian Polytechnic Institute (SIPI).
Kyeong Kim

Dr. Kyeong J. Kim got her Ph.D. in geology from Victoria University in Wellington, New Zealand. Since May 2002, she has been working with Prof. Robert Reedy as a post-doctoral researcher on two NASA-supported projects — the Mars Odyssey Gamma-Ray Spectrometer experiment and studies of cosmogenic nuclides under the Cosmochemistry Program. For both projects, she has been using the computer code MCNPX (Monte Carlo N Particle eXtended) to calculate the fluxes of neutrons and protons inside matter that are made by cosmic rays. We use those fluxes with cross sections for a range of nuclear reaction to calculate rates of those reactions. Studies that we have done include gamma ray and neutrons fluxes in and above Mars, the cosmic-ray-exposure records of meteorites and lunar samples, and the rates for making cosmogenic noble-gas isotopes in the surface of the Jovian satellite Europa. Dr. Kim has also worked on studies of gamma rays measured from a thick target irradiated by high-energy protons and on the analyses of gamma-ray spectra. Dr. Kim completed her post-doc in April 2005 and joined the Department of Planetary Sciences at the Lunar and Planetary Institute, University of Arizona, in Tucson.
7. GRADUATE STUDENTS
Rachel Dwarzski (M.S.)

Rachel successfully completed her Masters degree in the Summer of 2005. Her research focused on evaluating potentially competing effects of incorporation of Ti and Cr in garnets in Fe-rich compositional systems on trace element partitioning between that mineral and coexisting silicate melts at high pressure. This work is part of a larger, NSF-funded experimental research program intended to expand our ability to predict garnet-melt partitioning behavior over a range of compositions, temperatures, and pressures applicable to petrogenesis in the interiors of the terrestrial planets.

Rachel will begin her Ph.D. at UNM this Fall semester.

Jennifer Edmundson (Ph.D.)

Jennifer Edmundson continues to work on her Ph.D. with the Institute of Meteoritics. She has completed all of the course requirements for her doctoral degree in Earth and Planetary Sciences, and her first manuscript has been accepted for publication in Meteoritics and Planetary Science. Her dissertation research involves radioactive isotope dating of two magnesium suite rocks brought back from the Moon during the Apollo 17 mission. A NASA Graduate Student Researchers Program fellowship provides a significant portion of the funding for Jennifer’s research. Jennifer has completed the isotopic analyses for one sample, and the other sample will be processed next year. She is completing the necessary chemical separation procedures and mass spectrometry in collaboration with both the UNM and the NASA Johnson Space Center isotope labs. The isotopic and trace element data obtained will further constrain the age of lunar magma ocean crystallization and subsequent magmatism on the Moon.

Jennifer attended the 36th Lunar and Planetary Science Conference in Houston in March, where she gave an oral presentation entitled “A Sm-Nd, Rb-Sr, and U-Pb study of Mg-suite norite 78238.”

She also submitted an abstract to the 36th Lunar and Planetary Science Conference entitled “Three system isotopic study of lunar norite 78238: Rb-Sr results.”

Justin Hagerty (Ph.D.)

As part of his doctoral research, Justin is studying the magmatic history of the Moon by conducting in-situ analyses of lunar basalts and volcanic glasses from the Apollo sample suite and basalts from a Hawaiian lava lake. These results are now being combined with remote sensing data in order to better understand the thermal evolution of the Moon on a global scale. Justin completed his doctorate in December 2005.

Johny Chaklader (M.S.)

Johny Chaklader, B.A. Colgate University, completed the M.S. program in Summer 2005. Johny’s thesis explored the effects of magmatic and crystal-chemical processes as well as those of shock and shock-associated thermal metamorphism on the zoning characteristics of volatile elements, Li and B, within pyroxenes of lunar basalts. Through a comparison with Martian basaltic pyroxenes of similar composition and Li-B behavior, Johny’s work suggests that anhydrous magmatic processes gave rise to late-stage Li-B decreases in pyroxenes. Johny’s thesis argues that, contrary to the interpretations of previous workers, supercritical aqueous fluid exsolution in the Martian mantle is not required for such Li-B signatures.
Nathan Mills (M.S.)
Nathan Mills, B.S. Cornell University, has been enrolled in the M.S. program since Spring 2005. Nathan’s thesis is designed to assess planetary conditions during core formation through analysis of the high-pressure metal-silicate partitioning coefficients of certain volatile trace elements.

Melissa Nelson (M.S.)
Melissa Nelson, B.S. University of New Mexico, entered the M.S. program in Spring 2005. Melissa’s research involves studying the Chicxulub impact crater drill core materials and martian weathering processes.
8. DEPARTMENTAL AND UNIVERSITY ACTIVITIES
DEPARTMENTAL AND UNIVERSITY ACTIVITIES

Carl Agee, Professor and Director

- Graduate Student Committee (EPS).
- Facilities Committee (EPS)
- Participated in UNM’s Federal Priorities selection process.

Visitors to IOM

- Dr. David Rubie, University of Bayreuth, Germany, July 17-19, 2004.
- Dr. Qing-zhu Yin, University of California, Davis, CA, December 20-21, 2004.

Lars Borg, Research Scientist II

- Dr. Steve Symes, University of Tennessee, Chattanooga, visited the IOM in September 2004.

Barbara Cohen, Research Assistant Professor

- 2004-05 Research Staff Representative to the EPS faculty.

David Draper, Research Scientist III

Visitors to IOM

- Dr. Nancy Chabot, Johns Hopkins Applied Physics Laboratory, visited the IOM and High Pressure lab in February 2005.

Rhian Jones, Research Scientist II

- Member of UNM Museum Directors’ Consortium.

Horton Newsom, Research Scientist III

- Member, New Mexico Space Grant Faculty Advisory Board.
- Member, diversity Programs/Faculty Advisory Council for the college of engineering, UNM.
- Educational outreach coordinator and director of TOPPS (Training and Outreach Programs in Planetary Science) for the Institute of Meteoritics.
- Oct. 18, 2004, presented IOM seminar talk “How well do we know the initial elemental abundances of the terrestrial planets?”
- Feb. 21, 2005, presented IOM seminar talk “ChemCam instrument on Mars Science Lab.”

Visitors to IOM

- Hosted visit by Dr. Megan Madden, Virginia Polytechnic, visited the IOM on Dec. 6, 2004.
Robert Reed, Research Professor

Visitors to IOM

- Prof. Jozef Masarik, Vice-Dean, Komensky University, Bratislava, Slovakia, visited the IOM November 15-17, 2004

Charles Shearer, Research Scientist III

- Chair of Earth & Planetary Sciences Facilities Committee.

Michael Spilde, Research Scientist

- Manager, Electron Microprobe and Scanning Electron Microscope Labs.
- E&PS Computer Committee.
- Performed microprobe and SEM analyses for UNM faculty and graduate students.
- Performed microprobe and SEM analyses for local businesses and for students or faculty from New Mexico Tech, Western Illinois University, Los Alamos National Lab, and Nuclear Regulatory Commission.
9. PROFESSIONAL ACTIVITIES
PROFESSIONAL ACTIVITIES

Carl Agee, Professor and Director

- Participated in NASA Mars Program planning, MEPAG Meeting, Monrovia, CA. June 30-July 2, 2004
- Speaker, LPSC Meeting, League City, TX. March 13-16, 2005.
- Speaker, Goldschmidt Conference, Moscow, ID. May 20-22, 2005.

Lars Borg, Research Scientist II


Barbara Cohen, Research Assistant Professor

- Workshop on Oxygen in Asteroids and Meteorites (1 talk). June 1-2, 2005.

David Draper, Research Scientist III


Rhian Jones, Research Scientist II

- Member of the Nomenclature Committee of the Meteoritical Society; Associate Editor of the Meteoritical Bulletin.
- Associate Editor, “Chondrites and the Protoplanetary Disk,” to be published 2005.
James Papike, Research Professor


Robert Reedy, Research Professor

- Member, Mars Odyssey Gamma-Ray Spectrometer Flight Investigation Team.

Charles Shearer, Research Scientist III

- Chair, Lunar and Planetary Institute Science Council.
- Adviser to Director of LPI.
- Chair, CAPTEM (Curation and Planning Team for Extraterrestrial Materials).
- Chair, Moon-Mars Science Linkage Science Analysis Group (analysis group for MEPAG).
- Member, Mars Sample Return Analysis Group.
- Chair, Mobility and Accessibility Subgroup for Mars Sample Return Analysis Group.
- Member, Organization Committee for LEAG (Lunar Analysis Analysis Group).
- Team Leader, New Views of the Moon.
- Editor, New Views of the Moon.
- Guest Editor, American Mineralogist, J.J. Papike Special Issue.
- Program Committee, Martian Sulfates Workshop.

Michael Spilde, Research Scientist

- 1 paper reviewed for Geomicrobiology Journal and 1 for Astrobiology Journal.
- 1 NSF proposal reviewed (Biogeosciences).
10. EDUCATIONAL OUTREACH

AND

PUBLIC SERVICE
EDUCATIONAL OUTREACH AND PUBLIC SERVICE

Meteorite Museum

The Meteorite Museum is the most important focus of the Institute of Meteoritics’ public service and outreach efforts. 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.

Carl Agee, Director and Professor

- Graduate Bridge Project, Luncheon Speaker, Indian Pueblo Cultural Center, July 16, 2004.

Barbara Cohen, Research Assistant Professor

- Albuquerque Public School group; Meteorite Museum, February 24, 2005.
- Albuquerque Public School group; Meteorite Museum, March 31, 2005.
- Santa Fe Preparatory School; Meteorites and the Antarctic, April 8, 2005.
- NM-AGEP Workshop "Pathways to the PhD"; Meteorite Museum and EMP lab, June 7, 2005.

Rhian Jones, Research Scientist II

- 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 enquiries.
- Developed plan and exhibit design for complete renovation of Meteorite Museum. See attached NASA progress report.

Horton Newsom, Research Scientist III

- Educational Outreach Coordinator, Institute of Meteoritics.
- Developed educational outreach programs for the Institute of Meteoritics, funded by NASA and the National Science Foundation.
- Assisted with a star party at Wilson Middle School, April 14, 2005.
- 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.
Michael Spilde, Research Scientist

- Conducted Microprobe & SEM lab tours and demonstrations for several elementary and junior high school groups.

Meteorite Museum Renovation and Associated Outreach Activities at the University of New Mexico
NASA E/PO Grant NAG5-12796
Progress Report, Year 2: Feb. 15 2004 – Feb. 15 2005

P.I.: Dr. Rhian Jones, Institute of Meteoritics, University of New Mexico. (rjones@unm.edu)
Co-I.: Dr. Barbara Cohen, Institute of Meteoritics, University of New Mexico (bcohen@unm.edu)
This is an Institutional E/PO Grant, Lead Science Grant No. NAG5-12796 (J.J. Papike, P.I.)

Progress Made

We have made significant progress on the Meteorite Museum renovation project during Year 2 of this grant. Our formal Advisory Group, which includes professionals from three local science museums, has met regularly throughout this period. The following tasks have been completed:

1. **Exhibit design.** In January 2004 we selected an exhibit design consultancy group to work with: Caren Cook and Anton Friis (Cook/Friis) of Albuquerque. Working closely with them, we completed a preliminary conceptual design, and produced floor plans and sketches of the new exhibit. Exhibit elements include Origin of the Solar System, Meteorites and Asteroids, Moon, Mars, Impact Craters, Geographical Distribution of Meteorites, The Norton County Meteorite, Meteorite Identification, and a Docent Audio/Visual Station. From this design, we determined an estimated budget for fundraising purposes (~$300K). Since then we have proceeded with the design by producing a text and graphics prototype of one exhibit element (Asteroids and Meteorites), and rearranging the samples in the existing display in the Museum to prototype the arrangement of samples. We are currently working on developing text and graphics in more detail.

2. **Visits to other museums.** We have visited several different museums and documented exhibit styles, which has provided valuable ideas and input for our new exhibits. These include Jones visiting the Meteorite Gallery of the Smithsonian Museum, including extensive discussions with Curator T. McCoy; Jones and Cohen visiting the Monnig Meteorite Gallery at Texas Christian University, including extensive discussions with Curator A. Ehlmann; and Jones, Cohen, Cook and Friis visiting the NM Museum of Natural History and Science, including extensive discussions with Education Specialist J. Aubele and Exhibit Fabricator M. Pierce.

3. **Fundraising.** Our renovation plan includes essential remodeling of the Museum space (air conditioning, electrical, wall and floor treatments, security etc.) We obtained an estimate of costs for this work from UNM’s Facility Planning Department ($125K) and submitted a request for Minor Capital to UNM in Spring 2004. This request was not funded in the 2004 allocation: we will resubmit the request in 2005. We submitted a preliminary proposal to the Informal Science Education program at NSF but were advised that our visitor numbers were not high enough for us to be competitive in that program. In October 2004 we submitted a proposal to the NSF’s program, Opportunities for Enhancing Diversity in the Geosciences (OEDG), requesting funding for museum renovation and associated outreach activities. We are also working with UNM’s
- Development Office to identify potential private and corporate donors, and to raise funds from alumni.

4. **Teacher input.** On July 13-14, 2004 we held a teacher workshop, with three teachers from local schools (two 4th grade, one 5th grade). The teachers evaluated our current educational materials and provided us with advice about how to provide information and activities in a format that teachers find useful. We also discussed our new exhibit plans with the teachers, had them evaluate our existing exhibit, and prototyped the Asteroids and Meteorites exhibit element with them. They provided extremely helpful input into the level of text, vocabulary, use of graphics, etc. as well as ideas for presenting various complex scientific concepts. The workshop was invaluable. We are incorporating the teacher input into the new material that we are producing.

5. **Evaluation.** Dr. Sorena Sorenson of the Smithsonian Institution visited the Museum in January 2004 in order to provide a formative evaluation of the Museum. Her evaluation report is fully supportive of the need to renovate our facility.

**Request for continuation of funding**

We have made significant progress on this project in Year 2 of our funding. We request a continuation of funding to the amount of $44972, as budgeted, in Year 3, 02/15/05 – 02/15/06. During this time our main objectives are to produce most of the text and graphics we need in the planned exhibit, raise funding that will enable us to carry out the renovation, make the museum material and supportive educational materials available on the internet, and hold an educational Planetary Science workshop for teachers.
11. PUBLICITY
PUBLICITY

IOM and the Community

During the year, IOM has seen a continued to receive numerous 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.

Lars Borg, Research Scientist II

• Several newspaper articles were published in Albuquerque and New Mexico paper regarding our Nature paper that presented the youngest age of lunar magmatism yet measured.

Barbara Cohen, Research Assistant Professor

• Albuquerque Journal interview about the Moon and Moonrise, September 2004.
• Albuquerque Tribune story about lunar meteorites (picked up by AP and distributed globally), November 2004.
• KUNM interview about lunar and martian meteorites, November 2004.
• Discovery Channel interview about the Moon (aired in Canada and the US), June 2005.

James Papike, Research Professor

• Albuquerque Journal interview about the Moon and Moonrise, September 2004.

Michael Spilde, Research Scientist

ANNUAL REPORT

Department of Economics
University of New Mexico

July 1, 2004 – June 30, 2005

Philip T Ganderton
Chair
THE ANNUAL REPORT OF
THE DEPARTMENT OF ECONOMICS
July 1, 2004 – June 30, 2005
Philip T. Ganderton, Chair

1. Significant Developments During the 2004-05 Academic Year

Professor Donald Coes was on sabbatical, Fall 2004

Professor Philip Ganderton was appointed Chair in Fall 2004.

Professor Robert Berrens was promoted to Full Professor, end of Spring 2005.

We successfully hired Matias Fontenla to join our faculty as an Assistant Professor with research interests in Latin American, International and Development economics.

Both Kristine Grimsrud and Jennifer Thacher were awarded Research Semesters, but Kristine deferred hers due to the birth of twins in Spring 2005.

We lost both our Department Administrator, Lourdes McKenna and Administrative Assistant II, Sarah Dilmore at the beginning of Fall 2004 to be replaced by Angela Torrez and a promotion for Sarah Herbert. Sarah's position as AA I was filled by Suzannah Baker.

2. Significant Plans and Recommendations for the Near Future

Continue support of graduate students through successful grant application and awards. Twelve graduate students will be supported by funded research in Fall 2005.

The department was allocated one GA position to support our Success Initiative for Spring 2006, which will increase to 2 GAs the following Fall. Pilot courses will begin in Fall 2005 to develop material to use in the following semesters.

We intend to move forward with our plans to introduce a new program called a Masters in Applied Economics. This is intended to strengthen the graduate program while enlarging the MA cohort. The focus will be on providing training for students to enter, or advance, within the fields of Public Finance and Health Economics.

We will be filling the position of Administrative Assistant I left vacant by the departure of Suzannah Baker to North Carolina.
3. Publications

**Dr. Robert Berrens:**


**Dr. Melissa Binder:**


**Dr. Alok Bohara:**


Dr. David Brookshire:


Dr. Stuart Burness:

Dr. Janie Chermak:

Dr. Don Coes:

Dr. Philip Ganderton:


Dr. Kristine Grimsrud:


Dr. Kate Krause:
“Western Urban Water Conservation: Command & Control vs Incentive-based Policy” at Water Resources Research with H Stuart Burness and Janie Chermak. (Dec 2004)

Dr. Christine Sauer:

Dr. Jennifer Thacher:

4. Outside Professional Activities

Dr. Robert Berrens:


Dr. Melissa Binder:

Dr. Alok Bohara:

“Hospital Quality Oversight by the Joint Commission on the Accreditation of Healthcare Organizations,” Maurice Moffett (Baylor College of Medicine) and Alok K. Bohara (Department of economics, U. of New Mexico), Health care Invited Symposium: Papers Invited by the Eastern Economic Journal (EEJ) for Publication, Washington DC, February 20-22, 2004.

Attended two conventions to promote Nepal Study Center. Phoenix [July 2004] and Atlanta (September 2004)]

Dr. David Brookshire:

Invited to participate as a panelist for “Lasting Effects: Assessing the Future of Economic Impact Analysis” May, 2004, at the Pocantico Conference Center in Tarrytown, N.Y, by the Cultural Policy Center of the University of Chicago.


Dr. Janie Chermak:

Dr. Philip Ganderton:
"The Economics of Personal Finance," Presented at the University of New Mexico, part of the 2004 UNM Homecoming Pre-Game events, October, 2004.
Dr. Kristine Grimsrud:


Dr. Christine Sauer:

Dr. Jennifer Thacher:


5. Research Grants and Contracts Funded

The department received the following grants to fund faculty and graduate research during this academic year. Total of $724,610.74

US Forest Service
“A Research Agenda for Understanding Behavioral and Economic Responses to Forest Restoration Programs in the Southwest.”
Berrens, R., McKee, M.
$73,896.00
July 2004 – June 2005
Year 2 Funding

Sandia National Labs
“Fully Integrated System Dynamics Toolbox for Water Resources Planning”
Chermak, J., Brookshire, D.
$100,000.00
October 2004 - September 2005
Year 2 Funding

Los Alamos National Labs
“ZeroNet Project”
Chermak, J.
$58,000.00
November 2004 - October 2005
One Year of Funding

SAHRA
“Sustainability of Water Resources in Semi-Arid Regions”
Brookshire, D., Chermak, J.
$155,700.00
January 2004 - December 2004
$147,589.00
January 2005 - December 2005
10 Year Project, is Funded Each Year

SILPE
“Science Impact Laboratory for Policy & Economics (Category 1 Center/Institute)”
Brookshire, D.
$50,000.00
January 2005 - December 2005
Year 1 Funding

EPA-Birds
“Integrated Modeling and Ecological Valuation”
Brookshire, D., Chermak, J
$132,800.00
May 2004 - April 2005
Year 1 Funding

Equity Study
Binder, M, Krause, K., & Chermak, J.
$6,625.74
March 2005 - February 2006
Year 1 Funding
(funded 1 grad student for Spring and Summer 2005)

6. Student Information

Bachelor of Arts Degrees Conferred
Bachelor of Arts degrees conferred in 2004-2005 academic year:
Jeffrey Bjarke          Damian Libutti
Brian Bleck            Christal Miller
Danelle Callan         Arely Rincon-Cardoza
Cameron Clark          Michael Sage
David Dashiells        Brandon Sais
Patrick Duncan         Chad Schneider
Brian Gist             Laura Swanbeck
Chester Gore           Erica Talley
Brian Harris           Gil Torres
Gabriel Howell         Szymon Tuzel
Diego Hurtado          Joseph Ulibarri
Michael Jennings       Nathan Walters
Janice Johnson         Jacob Weil

Master of Arts Degrees Conferred
Masters of Arts degrees conferred in 2004-2005 academic year:

Jing Liu              Jennifer Smith
Min Qu                William Vasquez-Mazariegos

Doctoral Degrees Conferred (Committee Chair)
Doctor of Philosophy degrees conferred in 2004-2005 academic year:

Mary Ewers
Chair: David S. Brookshire

Joseph Little
Chair: Robert Berrens

Manuel Valenzuela
Chair: Christine Sauer

J. Raymond Stuart Award
Gwendolyn Aldrich
Patrick Ortiz
William Vasquez-Mazariegos

Gerald Boyle Memorial Award
Rohnn Sanderson

Distinguished Alumnus:
James Shortie
BUS, 1974
University of New Mexico
MA in Economics, 1976
University of New Mexico
## Number of Majors

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### Fall Credit Hours by Course Level 1990-2003

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ANNUAL REPORT
DEPARTMENT OF ENGLISH

July 1, 2004 - June 30, 2005

Scott P. Sanders, Chair

The fall semester began with several members of the senior faculty voicing serious concerns that our tenure stream faculty numbers were not sufficient to sustain our graduate PhD program. Some suggested this was true for our undergraduate programs as well. As noted in last year's annual report, increasing enrollments in the undergraduate program - both in our Core Curriculum service courses and in courses required for our major and minor concentrations - were stretching our full time faculty quite thin. When our request to initiate searches for replacement faculty (we asked for three new lines after having more than three full time faculty separations) yielded permission to search for one line (and that in our third-ranked choice) there was considerable concern and some outcry.

Acting on the Dean's invitation to re-assess our needs and make a revised request to search, the Department emphasized the need to hire in our first choice area of specialization: a Modernist whose 20th Century expertise would support both the American and British literature programs. The Dean approved that revised request and, while that approval for a single line did not address fully our concerns about faculty numbers, it did allow us to begin the positive effort of seeking a new colleague. As it turned out, 2004-2005 became a year of unexpected plenty in hiring, which will be discussed below. In last year's report, I mentioned that "other opportunities for tenure track hires that will strengthen our programs may present themselves during the course of the year ahead," and, indeed, they did and they have.

Departmental Program Directors; Department Chair Appointment
All Departmental program directors continued in their positions for the 2004-2005 academic year. David R. Jones continued as Graduate Director, was appointed Associate Chair for the spring term; and, in the fall, was elected by the faculty and named by the Dean to be the new Department Chair, to begin fall 2005, when Scott Sanders was due to step down after completing two four year terms as Chair. Departmental policy enacted in 1997-98 stipulates that, under normal circumstances, no individual should serve more than two consecutive four-year terms as Chair. Following that policy, Sanders announced early in the fall term that he would step down at the end of the academic year; Jones announced his interest in the appointment; the Department supported his candidacy; and Jones was appointed to the position in November, with the understanding that he would serve as Associate Chair during the spring term and take over as Chair beginning July 1, with the new fiscal year.

Professor Susan Romano served as Director of Rhetoric and Writing; Jerry Shea served as Associate Director. Carolyn Woodward served as Undergraduate Director. Sharon Warner continued as Director of Creative Writing, and Helen Damico continued as Medieval Studies Program Director.
Department Staff
Todd Eddy (Departmental Accounting) stepped down at the end of the fall term, leaving UNM to move out of state with his family. Dee Meier was hired to work with Department Administrator Amy Jameson on accounting matters and also to assist the Department Chair. A new, half-time staff event coordinator position was created this year, specifically to assist with the Taos Writers Conference, and, more generally, to coordinate efforts for all other public events sponsored by the department. After a search, Kate Fitzgerald, a graduate of our MA in Writing program, was hired.

All other Department Staff continued in their positions. Staff members include Amy Jameson (Department Administrator), Megan von Ackmermann (website developer and writer), Lhyv Oakwoman (Administrative Assistant I, receptionist), Ezra Meier (Graduate Studies Staff Assistant), Robert Castillo (Computer and Information Systems Technician) Dee Dee Lopez (Undergraduate Advisor and Staff Assistant to the Undergraduate and Rhetoric and Writing Programs).

Faculty Separations, Retirements, Hiring
Professor Antonio Marquez retired in May after service to the Department and the University that spanned four decades. There were no other faculty retirements or separations. As noted above, this was a year for hiring, not separations.

Matt Hofer was hired at the Assistant Professor level to fill the Modernist position for which we searched. Aeron Hunt, whose field of expertise is the Victorian period, was hired as a half-time, tenure-track Assistant Professor as part of a spousal hiring arrangement negotiated through the Dean's Office with the Department of Sociology, where her husband was hired. Finnie Coleman, a specialist in 19th century American literature and contemporary African American literature, was hired as a tenured, Associate Professor with a shared appointment in our department and as Director of African American Studies.

Finally, our good fortune in tenure track hiring culminated with the return of Joy Harjo to our faculty, who joins us fall 2005 as a full Professor of Creative Writing, in residence for the fall terms only. Harjo will also hold the first endowed, named professorship in English; she will be the Joseph M. Russo Professor of Creative Writing. In that capacity, she is also the first Native American to hold a named professorship at UNM.

Toward the end of the spring term, we received permission to search for two more fulltime Lecturers. After a nationwide search, we hired Erin LeBacqz, a recent MA graduate of our Writing Program, and Kevin Cassell, who joins our faculty after leading the English program at UNM-Taos for several years. These hires bring our fulltime Lecturer faculty to a total of seven; all of these lines are to be funded out of the state I&G budget, making them, if not tenure track, still continuing lines. As reported in last year's annual report, we have taken steps to fully integrate our Lecturers into our regular Faculty. Lecturers participate in annual performance reviews; they are elected to serve on the Executive Committee; and, in spring 2006, they will participate in the department's merit evaluation system.
Visiting Professors included Russell Poole, jointly sponsored with the Institute for Medieval Studies, who taught a spring course in mythology. Also, Sean Murphy, a prominent novelist and essayist from Taos, visited in the spring term as New Mexico Visiting Writer.

Tenure, Promotion, and Mid-Probationary Reviews
Assistant Professors Jesse Aleman and Diane Thiel stood for tenure and promotion in 04/05. After strongly positive votes in the department and the College, both candidates were tenured and promoted to the rank of Associate Professor in June. Assistant Professor Elizabeth Archuleta received a positive mid-probationary review. Associate Professor Gail Houston was promoted to the rank of Full Professor.

MFA in Creative Writing
This year saw the successful completion of our multi-year efforts to establish a new degree, the MFA in Creative Writing. In one form or another, our faculty has considered proposing an MFA degree since the late 1980s. Over the past three years, led by the efforts of Assistant Professor Greg Martin (who wrote the first complete draft of the MFA proposal package) and Director of Creative Writing, Sharon Warner, our proposal for the MFA worked its way across the UNM campus until it was approved by the Board of Regents in the fall 2004 term.

In the spring 2005 term, the proposal was approved by the New Mexico Commission on Higher Education (CHE) as its last act before being dissolved by the Governor; and, finally, in June the State Board of Finance approved funding the degree, doing so with the understanding that it would be the final CHE-approved degree it would consider. All future degree approvals will be suspended pending the new Department of Higher Education’s assessment of duplication issues and articulation agreements. We have the final approval, and we can now begin seeking applicants and moving students in the MA in Writing who wish to do so into the new MFA. In the coming year, the Rhetoric and Writing faculty will submit a proposal for an MA, Concentration in Rhetoric and Writing to replace the MA, Concentration in Writing (now bereft of Creative Writing).

Writing Across Communities
Our Rhetoric and Writing faculty, led by Michelle Hall Kells who was assisted by Graduate Student Beverly Army Gillen, organized events in the fall and in the spring designed to raise awareness of the many, important roles that writing plays across all of UNM’s departments, colleges, and curricula – a recognition summed up with the phrase Writing Across Communities (WAC). The spring WAC event featured Professor Juan Guerra of the University of Washington as a guest keynote speaker. These events were well attended, and more WAC events are planned for the coming year, leading toward the goal of eventually establishing a continuing WAC program at UNM.

Online Sections
In spring 2004, we piloted four fully online sections of English 219 Technical and Professional Writing. Over the past academic year we offered more than twenty fully online sections of 219, two 400-level professional writing courses, and piloted online sections of 220. In the spring, we prepared to offer multiple sections of 219 and 220 online in fall 2005, in addition to two upper-
division professional writing courses and one 400-level course in literature offered online by Professor Gail Houston.

Over the summer, we began to develop "hybrid" sections of 219, 220, and 102 that would be taught half online and half face-to-face, beginning spring 2006. All of these efforts reflect our desire to address the shortage of classrooms at UNM (at one point in the course scheduling process for fall 2003, we had more than 50 classes in English without assigned classrooms) during peak enrollment hours, roughly 9am to 1pm daily. The hybrid courses allow us to offer two courses in one classroom during a popular time. In these efforts, we lead the way for departments in Arts and Sciences, and the future likely holds more online classes for us.

**Awards**
Professor Gary Scharnhorst was named UNM Distinguished Professor of English in June, following the Department’s fall term nomination of him for that honor. Departmental awards for excellence in teaching and research activity went to Anita Obermeier (Wertheim Award) and Michelle Hall Kells (Keleher Award).

Undergraduate student Bernardine Herrera received the inaugural Vicente Ximenes Scholarship, which was established through the efforts of Michelle Hall Kells and her fall 2004 English 320 class, who, to begin the scholarship, donated the monetary prize they received as a group for their entry in the UNM Undergraduate Research Symposium. Mr. Ximenes, an Albuquerque resident now retired from a distinguished career of public service that includes serving in a prominent role in the Johnson presidential administration, generously contributed to the scholarship fund, and he personally presented the award at a ceremony in April.

Specific citations of faculty publications and awards are collected in the Annual Biographical supplements and published by the University in a booklet, so they are not repeated here, although some of that information may appear in the departmental program annual reports collected below.

**Joseph M. Russo Bequest**
In the fall term we were notified that the Creative Writing Program would likely be the beneficiary of a substantial bequest. The process that ensued lasted several months, but likelihood became reality in the spring, and the estate of Joseph M. Russo funded an endowment for Creative Writing that includes the Joseph M. Russo Professorship in Creative Writing (to be held by Joy Harjo, as noted above) and is substantial enough to support other activities and programs integral to our Creative Writing Program. Funds from the Russo estate were augmented by state matching agreements, creating a substantial, sustaining endowment that will grow and support our Creative Writing Program in perpetuity.

The reports that follow below have been edited from documents written and presented by Department Program Directors.
Graduate Program

David Richard Jones, Director

The MFA
2004-05 was an historic year for the English Department because it saw the approval of a major new degree, the Master of Fine Arts. This was the most substantial change in the department's degree programs since the 1950s, when the department began granting PhDs and accepting creative theses in the MA program. The new MFA, first drafted by Gregory Martin and later revised by many hands, was shepherded through the lengthy approval process by Creative Writing Director Sharon Warner and Chair Scott Sanders. Fall 2005 sees the first class of MFA admissions and the conversion of many current MA students to the new degree program.

National Ranking
US News and World Report issued its periodic rankings of English departments nationwide, and we were 89th. The negative aspect of this ranking was that we were tied for 79th five years ago. The positive aspect is that we are the only humanities department at UNM with any national ranking.

Program Modifications

• Master's Degree in Rhetoric and Writing. The Graduate Committee and the Department passed an outline of a new Master's Degree in Rhetoric and Writing to take the place of the current MA in Writing that has combined creative and professional writing. The new degree plan was kept within the department until final approval of the MFA was forthcoming, with the expectation that it would be submitted to upper administration for approval in Fall 2005.

• Pedagogy Requirements. The Graduate Committee and the Department passed a new set of pedagogy requirements for MA and PhD students. Stated briefly, this measure instituted a 3-hour pedagogy requirement for MAs, a 6-hour requirement for PhDs, and noted the presence of a "Creative Writing Pedagogy" course among the pre-professional electives in the new MFA. In addition, we decided to begin offering Eng. 537, the teaching practicum for TAs, for credit and counting it toward the required hours in degree plans, thus allowing 537 to count as a part of such pedagogy requirements. In the same set of measures, the committee stated that a set of pedagogy courses should be suggested prerequisites for TAs who were teaching literature, creative writing, or professional writing courses at the 200-level.

• Foreign Language Requirement. A modification to the Foreign Language requirement for PhDs stated that a 6-hour sequence of courses in Old English could be used to satisfy one of the two "competency" requirements for PhDs. This option was not extended to MAs and not expandable to include the "fluency" requirement of PhDs.

Broader Philosophical Discussions

• Medieval Studies. From November until the end of the academic year, the Graduate Committee debated abolishing the graduate Concentrations in Medieval Studies. A recommendation to abolish the PhD Concentration from the Medieval Committee was returned to them by the Graduate Committee. Discussions ensued about the speed with which the
Institute for Medieval Studies would be able to offer degree programs at undergraduate or graduate levels, about the professional utility of graduate concentrations in medieval studies, and about whether our current PhD in English was a curriculum so flexible as to accommodate the interdisciplinary needs of graduate students in the medieval field. Expect more debate on these issues in the coming year.

**PhD Admissions.** Spurred by a remark from Gary Scharnhorst—that the Committee and Department should consider suspending new admissions to the PhD program until the size of the faculty and the size of the doctoral cohort were a better fit—the Graduate Committee decided to keep PhD admissions in the range of the past few years (6-8), urged professors to be judicious in their commitment to students’ committees, and formalized the practice of putting admissions folders out for review by groups of faculty in various fields. By the end of the academic year, the department’s faculty numbers (36) had swollen beyond the minimum of 34 that Scharnhorst had proposed in his original memo.

**Graduate Committee**
Beyond the debates and measures noted above, it was a relatively quiet year on the Graduate Committee, whose members included Professors Brandon, Damico, Jones (Chair), Jussawalla, Romano, Thiel, and Warner as well as the student representative, MA student Michelle Baca. Thanks to all from a grateful Graduate Director.

**Graduate Students**
It was a year of conspicuous success among graduate students, who kept up a steady stream of conference presentations and publications. A list appears in Parts 5 and 6 below.

From the long list of achievements by our students in 2004-05, two stand out, and they illustrate the abilities of our graduate students in teaching and research.

First, Lisa Ragsdale, an MA student in Rhetoric and Writing, was given one of five awards to Outstanding Teaching Assistants of the Year by the university’s Center for the Advancement of Scholarship in Teaching and Learning (CASTL). The award was presented at a ceremony by the Dean of Graduate Studies, Teresita Aguilar.

Second, doctoral graduate Karmen Lenz won the Popejoy Dissertation Prize. This award from the Office of Graduate Studies honors the university’s best dissertation in the humanities over the past three years. Lenz won this prestigious prize with a study entitled *Images of Psychic Landscape in the Meters of King Alfred's “Froferboc”*, written under the supervision of Helen Damico. At her dissertation defense in November 2004, Lenz’s work had received the grade of “Pass with Distinction,” one of only three such grades given to the twenty English dissertations approved in the past three years.

**EGSA (English Graduate Student Association)**
EGSA seems to have struggled to define itself and its mission during my two-year tenure. During the first year, I was its advisor, and its officers were dominated by PhD students in literature. During 2004-05, Jesse Alemán served as advisor, and its officers were dominated by MA students, particularly those in Creative Writing. The group scheduled some social events
for graduate students. Representatives served on the Executive and Graduate Committees during both years. EGSA helped book rooms in the SUB for departmental events. And it ran Southwest Symposium each spring, an event that stands in even more need of self-definition than EGSA itself.

Trends

• Enrollment. Through this academic year, overall enrollment in our graduate programs was at 120. After December and May graduations and new admissions, we anticipate 114 in the program during Fall 2005. In the early nineties the program was much larger—186 in 1993 and 164 in 1996, for instance—but this number dropped sharply in 1996 and 1997 and seems to have stabilized in the last decade.

The population has redistributed itself over the past decade, to be larger in creative and professional writing, smaller in both MA Literature and PhD programs. For instance, we had an average of 53 PhD students in the program during 1994 and 1996, and as many as 72 in 1997-98 (44 of them ABD). During the past year, we had 42 PhD candidates, including 21 ABDs (of whom seven graduated during the school year and more than half had only recently passed their PhD Comprehensives, i.e. in 2004). The restricted admissions of recent years and increases in the progress of doctoral students toward their degrees have stabilized the program at a number that many faculty think is more realistic in today's job market and kinder to those faculty who play a leading role in mentoring these students.

• Admissions. A study of applications, admissions, and enrollments over the past four years (see Table 1) shows that our program is becoming more attractive: applications are up from 109 during both 2002 and 2003 to 135 in 2004 and 125 in 2005). Also that we are becoming more selective: admissions notices were sent to 46.5% of applicants in 2002 and 2003, but to 39.5% in 2004 and 2005. And that we are being accepted by a higher percentage of those admitted: 43% in 2002 but an average of 62% in the three years following.

In terms of gender, our admissions picture has historically been dominated by women. For Fall 2004, we saw a 61-39% f/m ratio in applications, a 58-42% f/m ratio in admissions, and a 61-39% f/m ratio in acceptances. For Fall 2005, these numbers were distinctly more tilted toward women: 66-34% f/m in applications, 74-26% f/m in admissions, and 81-19% in acceptances.

The ethnicity or race of our population has begun to change, and the evidence is visible in figures from the admissions process. Over the past five years (see Table 2), Anglo students have declined in percentage of applications, from 75% in 2001 and 2002 to 67% and 69% in 2004 and 2005. In terms of the ethnic diversity of our graduate entering classes over the same period, a similar trend is detectable: from 93% Anglos among new students in 2001 to an average of 71% in the three classes of 2003—2005.

The most conspicuous trend in admissions is the increasing popularity of the graduate creative writing program. In the past four years, the number of applications for Fall admission to the MA in Creative Writing has grown from an average of 35 in 2002 and 2003 to an average of 47 in 2004 and 2005. This popularity lead to a special problem with the fall 2004 class, for which the
Graduate Committee extended offers of admission to 14 students while expecting the usual "breakage" (i.e. some students decide to go elsewhere). Instead, all 14 accepted, creating problems but attesting to the program's increasing reputation. For the fall 2005 admissions cycle, the number of applicants stayed constant, but the number of admissions (9) and acceptances (7) were markedly lower by design. Creative writing faculty expect future classes to be of only slightly larger.

• Diversity. The diversity of our graduate student population as a whole can be measured in two ways: gender and ethnicity or race.

The graduate cohort is predominantly female. Students at all levels are 73% female to 27% male. Contrast the ratio among our PhD students—78% female to 22% male—to the national figures for PhDs granted to students in English: 60-40%, female to male.

As for ethnic and racial mixture, the progress made in the admissions process noted above has resulted in an overall balance of 90% Anglo students to 10% members of all other groups, the majority of them Hispanic. In a recent study by the Office of Graduate Studies, our department's ethnic and racial diversity—in applications, admissions, and acceptances—was outstripped only by departments in the sciences and engineering which have huge numbers of foreign students.

• Support for Graduate Research and Travel. This was a record year for financial support of graduate students' research and conference presentations. Due to an innovative move by our Chair to combine three foundation endowments for this purpose (the Baughman-Grabow-Howard fund), combined with money from the Graduate Director's account, we were able to offer $3918.06 in department funds compared to $2966 in 2003-04. Office of Graduate Studies support to our students was likewise increased, to $2797.64 (compare $1133 in 2003-04). The total for the past year is 15 students receiving $6715.70, more than triple the amount from both sources in 2001-02 (see Part 4 below).

This last remark points to an historic trough in graduate research and travel support. In 1996-97, English graduate students received $6037 in support from the Office of Graduate Studies, and in 1998-99 $5839—nearly as much as present rates in real dollars and more when adjusted for inflation. But cuts in OGS funding and other internal causes lead to a dip in such support: $2050 in 2001-02 and $2403 in 2002-03. Although the past two years have seen markedly larger sums, they are still just reclaiming the levels of a decade ago.

• Placement of PhDs. Over the past decade, one of the most striking changes in our graduate program is our PhD graduates' success in the job market. This year, the three graduates who participated in our job-seekers program (Shari Evans, Karmen Lenz, and Matt Teorey) all found jobs that were very close to their ideal positions. This makes 2004-05 the fourth year in a row in which every job-seeking PhD who participated in our program found a job by the end of the year.

This is particularly to be contrasted with the difficulties faced by the graduate program in the mid-1990s, when the success ratio of our job-seeking doctoral students was no better than 3 of 9 (1996-97) or 2 of 8 (1997-98) or 1 of 6 (1998-99) or 1 of 5 (1999-2000). Three factors explain
this change: an uptick in the national employment scene, the work of some very dedicated
faculty members (lead in the past year by Wanda Martin), and a smarter preparation for the job
market by graduate students, both in their attitudes toward prospective positions and in their
preparation through conference presentations, publication, and other forms of professional
development.

2. Graduate Enrollment

The total number of graduate students who were at one stage or another of our various programs
during academic 2004-05 was as follows:

- MA in Creative Writing: 37
- MA in Literature: 23
- MA in Professional Writing: 18
- PhD in Literature and Language: 42 (21 pre-comp, 21 ABD)

Total: 120

Of this 120, 29 students completed their degrees during 2004-05:

- MA/CW: 5
- MA/Lit: 11
- MA/PW: 4
- PhD: 9

Total: 29

3. Graduate Student Awards

- Buchanan Arms Award: Matthew Teorey
- Joseph C. Gallagher Scholarship: Maria Szasz
- Tom B. Popejoy Dissertation Award: Karmen J. Lenz
- Graduate Award in Rhetoric and Writing: Robert Wyckoff
- Graduate Award in Professional Writing: Sharon Sivinski
- American Academy of Poets Award: Sarah Azizi

4. Graduate Research and Travel Awards

**PhD students delivering papers at conferences—dept. funds**
- Kelvin Beliele: $380.16
- Dani Martinez: $425.00
- John Miles: $425.00
- Kareva Mulholland: $425.00
- Cynthia Murillo: $190.00
- Robin Runia: $425.00

**MA students delivering papers at conferences—dept. funds**
- Mariam Durrani: $425.00
- Lisa Ragsdale: $425.00
PhD research request—dept. funds
Deborah Weagel $250.00

PhD MLA interview request—dept. funds
Shari Evans $347.90

MA research request—dept. funds
Marta Trujillo-Evans $200.00

Funded by Office of Graduate Studies
Ashley Carlson $368.00
Rachel Harmon $809.64
Kareva Mulholland $1000.00
Justin Parks $620.00

5. Graduate Student Conference Presentations


Ashley Carlson. “Bertha as the Post-lingual Heroine (and not just another ethereal symbol).” Southwest Graduate English Symposium, Tempe AZ, March 25-27, 2005.


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Lisa Ragsdale. “Superimposing Burke on Scripture or How Burke Plays Among Christians.” Penn State Conference on Rhetoric and Composition, University Park PA, July 2005.


6. Graduate Student Publications and Achievements

Robert Anderson (MFA) had a story, "Main Street," selected by Ana Melendez as one of five fiction winners in a contest sponsored by Washington Square Review.


John Miles (PhD) is one of only twenty graduate students and junior faculty chosen to participate in the Rhetoric Society of America’s Summer Institute at Kent State University, summer 2005.

Lisa Ragsdale, “Teaching Assistant of the Year” award from CASTL.


---------. “Sor Juana Inés de la Cruz in Seventeenth-Century New Spain and Finding a Room of One’s Own,” *CLCWeb: Comparative Literature and Culture* 7.1 (March 2005).


Deborah Weagel (PhD) was included in *Who’s Who in America* (2004).

7. Graduates (Summer and Fall 2004, Spring 2005)

**Master of Arts**

Michelle Baca MA Literature
Anne Bingham MA Literature
Ashley Carlson MA Literature
Kyle Chaney MA Literature
Brian Cosbey MA Professional Writing
Leslie Jae Dennis MA Literature
Kathryn Fitzgerald MA Creative Writing
Randall Gann MA Literature
Melody Gee MA Creative Writing
Stephanie Holinka MA Professional Writing
Jody Ipsen MA Creative Writing
Erin Lebacqz MA Professional Writing
Peter Matta MA Creative Writing
Carrie Meadows MA Creative Writing
Clayton Michaels MA Literature
Robert Miller MA Literature
Dwenna Nelson MA Literature
Nels Olson MA Literature
Janelle Ortega MA Literature
Jamie Poling MA Literature*
Rachel Pratt MA Creative Writing
Lisa Rothrock MA Professional Writing
Adam Ruh MA Literature
Eliza Serna MA Literature
Craig Springer MA Professional Writing

**PhD**

Shari Evans PhD Literature & Rhetoric
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<td>Schlesier, Sibylle</td>
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<td>Stahol' sewo' oms- I'll See You Again, A Study in the Working of Collaboration: The Narratives of Bill Red Hat, Cheyenne Keeper of the Arrows</td>
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<td>Stone, Mary Patricia</td>
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<td>Chronotopes in the Cross-Cultural Novel: Time, Space,</td>
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and Meaning in Novels by Toni Morrison, Louis Owens, and Leslie Marmon Silko

Teorey, Matthew PhD

Brer Rabbit and NHO Lobo: Connections between the Literatures of Cape Verden-Americans and African Americans

8. Graduate Applications and Admissions for Fall 2005

Applications
125 Applicants between Feb. 1, 2004 and Feb. 1, 2005 broke down as follows in terms of their location or origin:

Unknown (18)
California (4)
Colorado (2)
Illinois (2)
Indiana (1)
Kansas (3)
Kentucky (1)
Louisiana (1)
Maryland (2)
Massachusetts (1)
Mississippi (1)
Nebraska (1)
Nevada (1)
New Jersey (1)
New Mexico (66)
New York (3)
Oklahoma (2)
Oregon (1)
Pennsylvania (2)
South Carolina (1)
Texas (5)
Utah (1)
Virginia (2)
Washington (2)
Wisconsin (1)
China (1)
Japan (1)
Zimbabwe (1)

Students Admitted for Fall 2004
Rosemarie Breslin-Libretto MA Literature
Amanda Choi MA Literature
Bernadine Hernandez MA Literature
Rachel Liberatore MA Literature
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<tr>
<td>Dayna Patterson</td>
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<tr>
<td>Amelia Ranney</td>
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<tr>
<td>Norma Allen</td>
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<td>Rhetoric and Writing</td>
</tr>
<tr>
<td>Glenn Damiani</td>
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</tr>
<tr>
<td>Marissa Juarez</td>
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<td>Kirsten Theisen (Christensen)</td>
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<td>Holly Vargo</td>
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<td>Tammy Wolf</td>
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<tr>
<td>Laura Matter</td>
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<td>Skye Pratt</td>
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<td>Carrie Cutler-Maxwell</td>
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<td>Creative Writing-poetry</td>
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<td>Gary Jackson</td>
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<td>John Lagana</td>
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<td>Christina Yovovich</td>
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<td>Randall Gann</td>
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<tr>
<td>Tom Pierce</td>
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<tr>
<td>Adam Ruh</td>
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<td>Marisa Sikes</td>
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<tr>
<td><strong>Fall 2003</strong></td>
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<td></td>
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<tr>
<td>Applied</td>
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<td>33</td>
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<td><strong>Spring 2004</strong></td>
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<tr>
<td>Applied</td>
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<td>7</td>
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<td>46</td>
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Table 2: Graduate Admissions and Ethnicity

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<th>Year</th>
<th>Status</th>
<th>Total</th>
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<th>Asian</th>
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<tr>
<td>2001</td>
<td>(incomplete data)</td>
<td>65</td>
<td>49 (75%)</td>
<td>6 (9%)</td>
<td>2 (3%)</td>
<td>8 (12%)</td>
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<td></td>
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<tr>
<td></td>
<td>Applied</td>
<td>15</td>
<td>14 (93%)</td>
<td>1 (7%)</td>
<td>1 (7%)</td>
<td>1 (7%)</td>
<td>1 (7%)</td>
<td>1 (7%)</td>
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<td></td>
<td>Admitted/Enrolled</td>
<td>15</td>
<td>14 (93%)</td>
<td>1 (7%)</td>
<td>1 (7%)</td>
<td>1 (7%)</td>
<td>1 (7%)</td>
<td>1 (7%)</td>
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<td>2002</td>
<td>Applied</td>
<td>100</td>
<td>75 (75%)</td>
<td>7 (7%)</td>
<td>1 (1%)</td>
<td>1 (1%)</td>
<td>1 (1%)</td>
<td>15 (15%)</td>
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<tr>
<td></td>
<td>Admitted</td>
<td>51</td>
<td>42 (82%)</td>
<td>4 (8%)</td>
<td>1 (2%)</td>
<td>1 (2%)</td>
<td>3 (6%)</td>
<td>3 (6%)</td>
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<tr>
<td></td>
<td>Enrolled</td>
<td>22</td>
<td>18 (82%)</td>
<td>3 (14%)</td>
<td>1 (4%)</td>
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<td>2003</td>
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<td>110</td>
<td>81 (74%)</td>
<td>9 (8%)</td>
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<td>3 (3%)</td>
<td>17 (15%)</td>
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<tr>
<td></td>
<td>Admitted</td>
<td>60</td>
<td>44 (73%)</td>
<td>6 (10%)</td>
<td>2 (3%)</td>
<td>8 (13.3%)</td>
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<td>Enrolled</td>
<td>39</td>
<td>28 (72%)</td>
<td>5 (13%)</td>
<td>2 (5%)</td>
<td>4 (10%)</td>
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<td>2004</td>
<td>Applied</td>
<td>123</td>
<td>83 (67%)</td>
<td>17 (14%)</td>
<td>2 (2%)</td>
<td>1 (1%)</td>
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<td>17 (14%)</td>
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<tr>
<td></td>
<td>Admitted</td>
<td>47</td>
<td>33 (70%)</td>
<td>11 (24%)</td>
<td>1 (2%)</td>
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<td>36</td>
<td>25 (69%)</td>
<td>8 (22%)</td>
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<td>121</td>
<td>83 (69%)</td>
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<td>4 (3%)</td>
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<td>12 (10%)</td>
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<td>50</td>
<td>35 (70%)</td>
<td>7 (14%)</td>
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<td>3 (6%)</td>
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<td>26</td>
<td>19 (73%)</td>
<td>3 (11%)</td>
<td>2 (8%)</td>
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OGS 2003 (all graduate programs)

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<th>Status</th>
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<th>Hispanic</th>
<th>Native Am</th>
<th>African Am</th>
<th>Asian</th>
<th>Other (no mark)</th>
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<tbody>
<tr>
<td>Applied</td>
<td>4282</td>
<td>1624 (38%)</td>
<td>367 (9%)</td>
<td>84 (2%)</td>
<td>52 (1%)</td>
<td>80 (2%)</td>
<td>2075 (49%)**</td>
</tr>
<tr>
<td>Admitted</td>
<td>1442</td>
<td>843 (58%)</td>
<td>217 (15%)</td>
<td>47 (3%)</td>
<td>22 (2%)</td>
<td>47 (3%)</td>
<td>266 (18%)</td>
</tr>
<tr>
<td>Enrolled</td>
<td>992</td>
<td>560 (56%)</td>
<td>175 (18%)</td>
<td>40 (4%)</td>
<td>15 (2%)</td>
<td>34 (3%)</td>
<td>168 (17%)</td>
</tr>
</tbody>
</table>

* Anglo = White (Non-Hispanic)
** The OGS figures for "Other" (= Blank, No Response) skew the entire survey. These numbers presumably come from the huge number of foreign students in various departments (e.g. Engineering) who don’t identify with any of the offered groups.
Undergraduate Program

Carolyn Woodward, Director

In addition to the ongoing management of the undergraduate office—holding undergraduate committee meetings, advising students, running the honors program and overseeing the activities of Sigma Tau Delta—the undergraduate director primarily took on one of Gary Harrison's main recommendations as he left the undergraduate directorship: "to improve faculty-student advising" (see 5-30-04 memo Harrison to Sanders, in appendix).

A major accomplishment of the 2004-05 academic year has been the design and implementation of a system of faculty advisement. During the academic year, transition was begun, with the undergraduate director offering training sessions to faculty members of the undergraduate committee, who then held initial "open advisement hours" in the undergraduate office. The system was fully in place by May 2005, with the undergraduate director and the department administrator working together over the summer to assure its smooth operation. A student coming to the department to declare the major sees a faculty advisor first, and through a listserv, students are urged to return often.

One dramatic improvement is already noticeable. Although heretofore our literature students overwhelmingly opted for the flexibility and low demands of the liberal arts concentration, of fifteen students declaring the major in one six-week period in summer 2005, seven chose pre-graduate (our most rigorous concentration) and five chose pre-law.

Other important accomplishments include developing web pages for our programs in literature, a task on which the Director and the program's graduate assistant worked through spring semester. In June the pages were delivered. Also following on work begun in 2003-04, we made improvements to the rhetorical appeal of brochures for concentrations and the Honors program. Finally, the undergraduate program continued a series of meetings with students begun in 2003-04 that focus on career planning. In spring 2005 we hosted a party for English majors with speakers representing a range of job opportunities.

Undergraduate Committee

Faculty committee members during all of fall 2004-05 were Steve Brandon, Michelle Kells, Dan Mueller, Mary Power, and Jerry Shea. Barry Gaines served for one semester (fall 2004), as did Carmen Nocentelli, staff academic advisor DeeDee Lopez, and graduate assistant Robin Runia (spring 2005). Steve Brandon served as faculty advisor for Sigma Tau Delta. Under the new system of advisement the committee was establishing, each faculty member of the committee served as an academic advisor. The committee met on a monthly basis fall and spring semesters.

Major Action Items

- Established faculty advisement for undergraduates.
- Reconceptualized the "honors seminar" as a "capstone seminar" and established guidelines.
- Approved "Rhetorical Analysis of the Literature of Spying" as the Honors/Senior Capstone Seminar for fall 2005, to be taught by Lynn Beene.
- Evaluated honors prospecti and theses; awarded specific levels of honors.
• Approved curriculum changes (see below and minutes).

Curriculum changes
We approved some changes that were subsequently also approved by the Executive Committee and by vote of the full departmental faculty: changes to the catalog copy for certain courses, lower-division course requirements for the liberal arts and pre-graduate concentrations, and language regarding upper-division course requirements for the pre-graduate concentration.

In the liberal arts concentration English 264, 265, 292, 293 were added to the list of acceptable 200-level surveys. In the pre-graduate concentration, the list of lower division courses requires 12 hours to be taken from 250; 294; 295, 296 or 297; 264 or 265; the list of 15-hours of stipulated upper-division hours now includes 300/400-level electives (6 hours) and the required 400-level courses (9 hours) must include one course in American literature, chosen from Eng 460-466 (Eng 471, 472, 473 acceptable, by approval of faculty advisor, when course readings are predominately from American literature) and one course in British/Irish literature, chosen from Eng 449-459; 470, 486 (Eng 471, 472, 473 acceptable, by approval of faculty advisor, when course readings are predominately from British/Irish literature); finally, one course in theory, language, or rhetoric chosen from among Eng 410, 441, 442, 443, 445, or 487.

Enrollments
During 2003-04, the Department's database showed enrollment of 539 English majors, while the Registrar's office showed 403. A comparison of this 2003-04 data—our figures for enrollments in concentrations compared to figures for concentrations done by the Registrar's office—located the discrepancy mostly in creative writing and partly in professional writing. (See data in memo Gary Harrison to Scott Sanders 5-30-04, in appendix.) The Registrar's office bases data on numbers of students actually enrolled in classes at the end of the fifth week of the semester. The English Department database counts all students who have declared a major up through the end of the semester. Thus, the information is not parallel.

Since students may be majoring in English but on leave during a given semester, it isn't surprising that our numbers are higher than those of the Registrar's office. Furthermore, it may be reasonable for creative writing and professional writing to show discrepancies between the two kinds of data, since the studies in which students in these concentrations engage may sometimes take them away from UNM and from enrollment in classes. However, it seems prudent to accept the more conservative figures of the Registrar's office as our total numbers of majors and minors, given that we cannot track exactly where students in our files but not taking classes have gone, nor for how long.

<table>
<thead>
<tr>
<th>Registrar's Office data</th>
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<tbody>
<tr>
<td>Majors</td>
<td>430</td>
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<tr>
<td>Minors</td>
<td>100</td>
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<table>
<thead>
<tr>
<th>English Department data</th>
<th>Spring 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Majors Literature, total for three concentrations</td>
<td>263 (liberal arts188)</td>
</tr>
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</table>
Graduation
We graduated 6 students in summer 2004, 29 in fall 2004, and 51 in spring 2005. Thus, in 2004-05, we graduated 86 students with the Bachelor of Arts in English.

Scholarships and Awards.
Undergraduate scholarships and awards (excluding those awarded by Creative Writing) were given as follows.

- Reba Rutz Beidleman Award: Mekenna Roybal
- Katherine G. Simons Scholarship (awarded in odd-numbered years): Stephanie Nisly
- Howard Dean Everett Scholarship: Steven Pelletier
- Mark R. Everett Scholarship: John Hoskie
- Irene M. Kimball Endowed Scholarship: Breeyan Deo
- Mary M. McDonald Scholarship: Zach Watkins
- Dale and Ivan Melada Endowed Scholarship (coordinated by the Rhetoric/Writing Program): Elaine Almquist
- Joseph B. Zavadil Memorial Scholarship (coordinated by Helen Damico): Raquel Montoya

There were no nominations for either the Katherine Simms Prize or the New Mexico Folklore Prize, each “for an undergraduate or graduate student,” and each for an essay on New Mexico.

Departmental Honors
Three students graduated cum laude in English: Sierra Netz, for her critical essay, “Bridging the Gap: ‘The Sandman,’ Hegemony, and the Graphic Novel”; Christina Spence, for her critical essay, “Bon-Bons and Scorched Fish: Culinary Details in Kate Chopin’s The Awakening”; Phillip Hughes, for his creative project, “The Burden of Being Conceived.”

Sigma Tau Delta
Steve Brandon served as faculty advisor for Sigma Tau Delta, and under his guidance the organization more than doubled its membership. Three members presented papers at the national conference. Additionally, chapter treasurer Elaine Almquist was elected a representative to the
national council. The year's most important activity was the local chapter's help in establishing the Vicente Ximenes Scholarship in Language and Literacy and organizing the inaugural award ceremony. Other activities included hosting a series of creative readings in the SUB, staffing the English Department library, maintaining the chapter's web site, holding induction ceremonies, and serving as ushers for the spring department commencement. Goals for 2005-06 include organizing field trips that call attention to the literary heritage of New Mexico, participating in regional and national councils, and holding a series of workshops to help undergraduates prepare applications for graduate schools.

Creative Writing Program

Sharon Oard Warner, Director

The Master of Fine Arts became the English Department's first new degree in 50 years. The MFA was fully approved on June 17th at a meeting of the New Mexico State Board of Finance. The new degree is a three-year program, intended to ground serious apprentice writers in a multi-faceted approach to professional study.

The Joseph M. Russo Endowment for Creative Writing: In January, President Caldera designated a bequest to the Department, specifically, to the Creative Writing program, of over $1.1 million dollars from the estate of Joseph M. Russo. The principal of the bequest will support a named professorship, scholarships, fellowships, and other student support. Thanks to the support of then Dean of Arts and Sciences, Reed Dasenbrock, CW also received another $500,000 in matching funds from State Bill 14.

Joy Harjo joined the CW faculty as the inaugural Joseph M. Russo Professor. Harjo is a nationally famous poet, our own alum, and one of the nation's premiere Native American artists--to leave UCLA and rejoin our faculty as the first Joseph M. Russo Chair of Creative Writing. Incidentally, she is the first Native American to hold an endowed chair in the university's history.

The Rudolfo Anaya Scholarship/Fellowship Fund was established to support an Hispanic student enrolled in the new MFA Program. Rudolfo Anaya has been generous in his support of this scholarship fund, and a large matanza fundraiser is planned for the fall of 05.

The New Mexico Visiting Writer (spring 05) was Sean Murphy. Sean Murphy is the author of four books. His novel, The Hope Valley Hubcap King, won the Hemingway Award for a First Novel and was featured on the Book Sense 76 List of recommended books for 2003. Murphy taught a 421 and a 521 workshop and gave a public reading of his work.

FACULTY ACCOMPLISHMENTS:

Amy Beeder had poems published in Poetry, AGNI, Prairie Schooner, Connecticut Review, Post Road, and American Letters & Commentary. Her poetry manuscript, Burn the Fields, was accepted by Carnegie Mellon Press. She also taught a weekend workshop at the Taos Summer Writers’ Conference and served as Poetry Editor for Blue Mesa Review.
Lisa D. Chávez was writer-in-residence at Austin Peay State University for a period of two weeks in March of 2005. She gave a public reading and worked with students in creative writing. She was also a visiting writer at the Des Moines Community College Writers Festival in March. On April 1, Lisa was part of a panel—Politics of Place: Short and Long Perspectives on Writing the North—at the Associated Writing Programs Conference in Vancouver.

Greg Martin was a visiting writer at Lyons College in Batesville, Arkansas in November of 2004. He taught classes and gave a craft lecture and reading. In January of 2005, Martin gave the keynote address at the National Cowboy Poetry Gathering in Elko, Nevada. Martin’s book MOUNTAIN CITY was also featured on NPR’s Morning Edition, as one of librarian Nancy Pearl’s 10 most recommended "Larger than Life" memoirs.

Daniel Mueller gave public readings of his novel-in-progress, Dr. Golf, on October 14-15. The first was at Macomb Community College in Warren, MI, and the second was a fundraising event for the literary magazine, Orchid, in Ann Arbor, MI. He was also invited to join the faculty of the Queen’s University Low-Residency MFA Program in Charlotte, NC. He gave a reading at Queen’s University Accenture Auditorium on January 14. Along with Lisa D. Chávez, Dan served on a panel at the Associated Writing Programs Conference in Vancouver. The panel was entitled “Politics of Place: Short and Long Perspectives on Writing the North.”

Diane Thiel had two new books appear in summer, 2004: The White Horse: A Colombian Journey (creative nonfiction) and Resistance Fantasies (poetry). Resistance Fantasies was nominated for the National Book Award. Diane Thiel's reading is included on the NEA cd, "National Poetry Recitation," distributed recently to teachers and schools all over the nation to encourage recitation and performance in poetry. (The cd includes voices such as Rita Dove, N. Scott Momaday, Anthony Hopkins and James Earl Jones.) Thiel chaired and presented on two panels at the AWP conference in Vancouver, and she presented at various writing conferences, including the Mendocino Writer's Conference and the Taos Writers Conference. She also taught in the pilot Teaching Institute of the Taos Conference, designed for New Mexico teachers. Among other national readings, Diane Thiel read from her new books at the Poetry Center at Youngstown State University, Ohio, where she also visited the schools and the Juvenile Detention Center as part of the Smarts (Students Motivated in the Arts) Program. Her poems appeared in Revenge and Forgiveness (Henry Holt, 2004), Kindled Terraces: American Poets in Greece, and Contemporary American Poetry, (Longman/Penguin, 2005), among numerous other journals and anthologies.

Julie Shigekuni received fiscal sponsorship from Visual Communications and grant support from the California Council for the Humanities Documentary Project Fund and the Skirball Foundation, a Getty organization, to write, produce, and direct a 60-minute documentary. Manju Mammis & the An-Pan Brigade is the story of three nisei Christian women who make and sell manju, a traditional Japanese confection, at the local Buddhist Temple's Obon. The documentary looks at the spiritual, cultural, and social impact of the internment on west coast Japanese Americans after their release from WWII internment camp. The documentary will air at film
festivals and will likely be shown on KQED and other PBS stations in California. In addition to the documentary she spent last year's sabbatical working on a cycle of short stories.

Jack Trujillo was awarded a residency at the Millay Colony for the Arts where he worked on his novel, *Dancing with Pancho Villa.* He also did research on his libretto-in-progress, "Diego (and Frieda) in Detroit."

Sharon Oard Warner gave a reading and talk at Yavapai College and Prescott College on October 4-5. She was the final judge for the Hopwood Awards at the University of Michigan and the final judge for the Katherine Anne Porter book prize, awarded by the University of North Texas Press. The April 2005 issue of *The Writer* included an interview with Sharon Oard Warner on the subject of "Make the Most of Your Next Conference Workshop." She was also interviewed for an article on MFA Programs published in the November 2004 issue of *Poets & Writers.*

STUDENT ACCOMPLISHMENTS AND UPDATES:

**Undergraduate Students**

**Current**

Entering freshmen, Michael R. Alberti of Albuquerque and Sara Cobble of Las Cruces were awarded UNM Performing Arts and Creative Practice Awards, four-year renewable awards to support their studies in English/Creative Writing.

Graduating senior Carrie Cutler had work published in the 05 issue of *The Albion Review* as did graduating senior, Skye Pratt. Both were accepted into UNM's MFA Program for Fall 05.

Graduating senior, Brandi Marks, was accepted into the prestigious Warren Wilson MFA Program.

Graduating senior, Anthony Gonzales, was offered admission to the MFA Program at the University of San Francisco.

Courtney Strobel had a story accepted by the *Allegheny Review.*

**Alumni**

Martha Bearden's novel *I, Andre,* was taken by a major New York agent;

Eddie Chuculate had stories in *Story* and *Ploughshares* and was hired as an editor at the *Denver Post.*

Maya Allen-Gallegos was named Managing Editor at UNM Press.
Kim Henderson was admitted into the MFA Program at University of Montana on a full fellowship.

Lindsay Lancaster is the new editor in chief of Albuquerque Magazine.

Brian Lush made a splash with his radio show, ROCKWIRED, which began on January 15, 2005 at 5 p.m. on www.ktstfm.com. More info on his radio show is available on his website, www.rockwired.com.

Former student Micheline Marcom won the PEN West Award.

Former student Marianne Mohanraj’s "Bodies in Motion" was published by Harper Collins.

Jeff Proctor is a reporter for the Albuquerque Journal.

Megann Sept was admitted to the MFA program at Emerson.

Rebecca Snow and Seth Kiesling will enter UNM's secondary education master's program.

Current Graduate Students

Robert Anderson’s story, “Main Street” was selected by Ana Melendez as one of five fiction winners in a contest sponsored by Washington Square Review.

Sarah Azizi’s story “Gifts for the Dying” won Third Prize in Playboy Magazine’s nineteenth annual College Fiction Contest. She received a cash prize for her story and her name will appear in the October 2005 issue of Playboy. The contest judges, who review countless international submissions, were particularly impressed with the voice Sarah established in the story. “Gifts for the Dying” is part of Sarah’s novel in stories. Her poem, “Guy on the Left,” was accepted by Phoebe: Journal of Gender and Cultural Critiques.

John Bess published his essay “Godzilla vs. the Ogre, a Tale of Musical Determinism in Two Parts” in Exquisite Corpse #14 Spring/Summer 2004. He also had a paper accepted for the Freshman English and English Composition Panel at the 2005 SCMLA Conference.

Larry Goeckel had a poem, “Woman Submerged in a Car” published in AGNI Magazine #59. As part of Poetry Month, he gave a reading of his poetry at Bookworks on April 30.

At the culminating event of EGSA’s Southwest Symposium Allen C. Jones presented a selection of poems including the fusion piece “La Llorona,” in which he was graciously accompanied by trumpet player Mike Pakaluk.

Juan Morales has poems forthcoming in Poet Lore in October and Borderlands: Texas Poetry Review in November 2005.

Diana Zimmerman had two poems accepted at the literary magazine, 13th Moon.
Alumni Graduate Students

Sophie Wadsworth (MA CW 97) has had her poetry published in the most recent issue of Crab Orchard Review (Southern Illinois University—Carbondale). The poems are from "Letters from Siberia," a manuscript that recently won the Jessie Bryce Nils Chapbook Competition. The chapbook was published in late 2004.

Franci Washburn (MA CW 00?) will publish her novel, Elsie's Business, with University of Nebraska Press as the inaugural book in the new Gerald Vizenor Series. Franci's novel was first drafted for her MA thesis project at UNM. Her thesis director was Sharon Oard Warner.

Whitney Woodward (MA CW 01) won the 2004 K. Margaret Grossman Fiction Award for "Possessions." The story was published in Literal Latte. Woodward also won another fiction contest, this one for the Georgetown Review for her story "On the Tendencies of Varieties to Depart Indefinitely from the Original Type."

PROGRAM INITIATIVES:
The Taos Summer Teachers' Institute (July 16-17) offered fifty New Mexico middle and high school teachers a weekend of workshops designed to enhance the teaching of literature and creative writing. The weekend culminated with a keynote address by internationally acclaimed poet and Chair of the National Endowment for the Arts Dana Gioia. Sponsored by the A & S Teachers' Institute, the event attracted teachers from around the state to attend the conference and hear the NEA Chairman's address.

The Taos Summer Writers' Conference of 2005 was the biggest yet. Tony Hillerman served as keynote speaker. Nearly 200 participants came from as far away as Rwanda to take part in seven different weekend workshops and thirteen different weeklong classes. New this year were Master Classes in the Novel and Poetry. The Conference received national attention when it was named by USA Today as one of "10 Great Places to Get Write with the Word."

Blue Mesa Review, Issue 17, July 04-July 05
Twenty-three graduate and undergraduate students participated on the Editorial Board for Blue Mesa Review, Issue 17. While a majority served on one of the three genre committees that met routinely throughout the fall semester to discuss submissions and select material for publication, four registered for the spring workshop as well and were responsible for the magazine's layout, production, and design. In addition, English MA candidate Anne Bingham served as Managing Editor and English MA candidate Stephanie Holinka oversaw much of the magazine's final production. Four English Department faculty members served as Genre Editors: Amy Beeder (poetry), Daniel Mueller (fiction), Lisa D. Chavez (Non-fiction), and Diane Thiel (book reviews).

The magazine contains 245 pages of text. Of the ten stories published in Issue 17, six were solicited. Though I cannot cite ratios for poetry, I know Amy solicited poems from many writers and the quality of the poetry in the magazine reflects this. If I'm not mistaken, Lisa solicited all
three essays that appear in the magazine. Five MFA candidates in Creative Writing--Israel Wasserstein, Elizabeth Shaw, Juan Morales, Carson Bennett, and Jonathon Bohr Heinen--contributed book reviews. Issue 17 features work by Gail Miller and Juan Morales, the winners of the 2004 Blue Mesa Review Graduate Fiction and Poetry Awards, judged by fiction writer Liesel Litzenburger and poet Greg Rappleye. Finally, the issue contains a commemoration of poet and Taos Summer Writers' Conference supporter Leo V. Love with poems by him and a "Remembrance of Leo V. Love" written by Sharon Oard Warner.

DEPARTMENTAL AWARDS:
The Lena M. Todd Memorial Prize Contest Winners for 2004
Poetry
1st Prize: Sharon Head (Instructor: Sari Krosinsky)
2nd Prize: Carrie Cutler (Instructor: Lisa D. Chávez)
Judged by Chris Jones

Fiction
1st Prize: W. Scott Frank (Instructor: Marisa P. Clark)
2nd Prize: Katherine Beebe (Instructor: Jack Trujillo)
Judged by Donna Gutierrez

Creative Nonfiction
1st Prize: Elizabeth L. Hart
2nd Prize: Dana Herrera (Instructor: Marisa P. Clark)
Judged by Karyn Smith

The D.H. Lawrence Fiction Contest
Molly Beer for her story, "Red Trillium." Judge: Dan Stolar

The American Academy of Poets Prize
Sarah Azizi for her poem, "Perverts." Judge: Michelle Brooks

Rhetoric and Writing Program    Susan Romano, Director
                               Jerry Shea, Associate Director

As described in last year's report, the program, by necessity, moved from a three-person to a two-person directorship in May 2004. This "exigency administrative arrangement" (as it was called in last year's report) has worked out well. Not only has the program fulfilled its basic mission, but it has also expanded the program and taken the program in new directions.

Increasingly significant responsibilities were given to the Rhetoric and Writing graduate assistants Virgil Mathes and Whitney Myers Madden. Other responsibilities were meted out to lecturers: Valerie Thomas has been overseeing the English 219 courses, including eight online sections in fall 2004 and eight in spring 2005. Mike Cabot is gradually taking on a leadership
role for English 220, including one online section in spring 2005. As the number of writing and speaking core courses increases, we expect and hope that such delegation will continue through the foreseeable future.

When Director Susan Romano left for sabbatical in May, Chuck Paine left his associate-dean position in University College to take over as Interim Director, with Jerry Shea continuing as Associate Director.

Enrollments in Core Writing Courses
The core writing responsibilities have grown with the number of UNM undergraduates. The table below summarizes total sections, students, and online courses for the entire 2004-2005 school year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Total Sections</th>
<th>Total Students</th>
<th>Online sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>137</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>English 102</td>
<td>122</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>English 219</td>
<td>24</td>
<td>48</td>
<td>21</td>
</tr>
<tr>
<td>English 220</td>
<td>24</td>
<td>21</td>
<td>1</td>
</tr>
</tbody>
</table>

Staffing of Writing Courses
We continue to rely heavily on part-timer instructors (PTIs) for much of instruction, especially in the fall semesters. The table below summarizes how writing core courses have been staffed by course and semester.

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
<th>Total Sections</th>
<th>Total teachers</th>
<th>TAs</th>
<th>A&amp;S TAs</th>
<th>Lecture s</th>
<th>PTIs</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Fall, 2004</td>
<td>106</td>
<td>72</td>
<td>47</td>
<td>10</td>
<td>1</td>
<td>13</td>
<td>1</td>
</tr>
<tr>
<td>101</td>
<td>Spring, 2005</td>
<td>31</td>
<td>18</td>
<td>12</td>
<td>4</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>102</td>
<td>Fall, 2004</td>
<td>46</td>
<td>27</td>
<td>15</td>
<td>2</td>
<td>0</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>102</td>
<td>Spring, 2005</td>
<td>76</td>
<td>43</td>
<td>31</td>
<td>7</td>
<td>0</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>219</td>
<td>Fall, 2004</td>
<td>27</td>
<td>.17</td>
<td>4</td>
<td>0</td>
<td>3</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>219</td>
<td>Spring, 2005</td>
<td>21</td>
<td>18</td>
<td>9</td>
<td>0</td>
<td>3</td>
<td>5</td>
<td>0</td>
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<tr>
<td>220</td>
<td>Fall, 2004</td>
<td>13</td>
<td>12</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>220</td>
<td>Spring, 2005</td>
<td>11</td>
<td>11</td>
<td>8</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Graduate Enrollment and Admissions
In the 2004-2005 school year, there were 38 masters and Ph.D. students enrolled:
- MA students: 29
- Ph.D students: 9

During the school year 10 of these R&W masters and Ph.D. students graduated:
- MA students: 7
- Ph.D. Students 3
Awards and Appointments

A&S Success Proposal Award. Although the status of this award is uncertain (i.e., whether it will actually be funded), Rhetoric and Writing was awarded $2500 for the development and implementation of running two faculty workshops for faculty who want to learn how to incorporate writing into their classrooms.

Consortium of Doctoral Programs in Rhetoric and Composition. We joined this organization.

Teaching Award. Lisa Ragsdale, MA student in Rhetoric and Writing received the TOYA award for teaching excellence.

Lecturer Hires

From April through early June, the Rhetoric and Writing faculty conducted a national search for two lecturers, eventually hiring Kevin Cassell and Erin Lebacqz. Selection committee was headed by interim director Chuck Paine and included assistant professor Michelle Kells and lecturer Valerie Thomas. Our job ad and selection criteria specified experience in mentoring teaching assistants, online teaching experience, and ability to teach American Literature. Six applicants were interviewed by phone and Kevin Cassell and Erin Lebacqz accepted our offers.

Program Changes

MA in Rhetoric and Writing. We redesigned the MA and gained Department approval. New MA requires a portfolio in lieu of a thesis and offers transcripted emphases in Teaching and in Professional Writing.

Placement Changes for English 101 and 102. We altered our placement procedures as follows:

ACT English and SAT Verbal or Critical Reading scores:
- Enroll in English 101: ACT English scores between 19 and 25; SAT Verbal or Critical Reading scores between 450 and 600.
- Enroll in English 101 or 102 (student chooses using “directed self-placement” guidance): ACT English scores of 26, 27, 28; SAT Critical Reading scores between 610 and 640. On passing English 102, student will have met the University Writing Requirement.
- Satisfy University Writing Requirement without taking English 101 or 102: ACT English score of 29 and higher; SAT Verbal or Critical Reading scores of 650 or higher.

Advanced Placement (AP) scores:
- Credit for English 101 and placement into 102: 3 or 4 on either English Literature & Comp or English Language & Comp.
- Credit for English 101 and 102 and satisfy University Writing Requirement: 5 on either English Literature & Comp or English Language & Comp.
- Credit for English 101, 102, and 150, and satisfy University Writing Requirement: 5 on both English Literature & Comp and English Language & Comp.

Textbook adoption. We adopted a central textbook (The Allyn & Bacon Guide to Writing) as a central rhetoric that all sections will use. We also changed handbooks, going to a small, low-cost
Outcomes. We revised the outcomes statement for English 101 from an unwieldy 30 outcomes to a more workable 14 outcomes. Outcomes for English 102 were whittled down to 17.

New Initiatives

Writing Across Communities. We sponsored the first in a three-semester colloquia series that engages members of the UNM community and beyond in discussion about what college students need to know to read and write effectively in academic and professional settings.

The aim of the Writing Across Communities (WAC) project at the UNM is to facilitate the recruitment, retention, and success of New Mexico’s diverse student populations through enhanced literacy education at every level of their college academic career. Toward these aims, WAC calls attention to issues related to student access, authority, awareness, and application of effective literacy practices. WAC promotes the teaching of writing across diverse cultures, learning styles, ethnolinguistic groups, knowledge-making systems, genre conventions, and disciplinary styles.

Our first WAC Colloquium held April 25, 2005, featuring Professor Juan Guerra (University of Washington) was entitled “Creating Pathways to Academic Literacy and Beyond: Situating the Personal, Professional, and Political.” The event attracted over 100 active participants representing disciplines throughout the university. Participants worked in smaller groups to provide ideas for WAC at UNM. Other major events—including “WAC Week” in November—are planned for fall and spring.

Ethnic Center Liaison. We established and are continuing to develop a relationship with directors of American Indian Student Services, African-American Student Services, and El Centro de la Raza. Held a series of workshops for tutors. This was accomplished through the efforts of graduate assistant Whitney Myers Madden.

CAPS Liaison and CAPS Writing Fellows.

We have established and are continuing to develop an ongoing relationship with CAPS, in an effort to coordinate our efforts. We aim to help CAPS and its tutors better understand the goals of core writing courses. CAPS is helping our directors and teachers better prepare our students for tutoring so that it can be more effective. As part of this coordination effort, and with the financial and other support of CAPS Director Karen Olson, we established two graduate fellowships for English or A&S TAs who teach English core courses. Fellows will teach half time in core courses and tutor half time (10 hours per week) at CAPS.

Medieval Studies Program in English

Helen Damico, Director

The internal infrastructure for MSPE in 2004-2005 comprised an advisory committee headed by Helen Damico as Chair, with Anita Obermeier, Assoc. Professor of Middle English, Jay Rubenstein, Asst. Professor of History, Tim Graham, Director of the Institute for Medieval
Studies (IMS), and Gail Houston, Director of Women Studies Program and former Graduate Director in English.

Most of our discussions on curricular and programmatic issues were colored by a request from Dean Dasenbrock to make IMS an academic unit, with its own curricular flag. The consequences of the implementation of this request pointed as a first step to the dissolution of the undergraduate concentration in English Medieval Studies, which had the support (in writing) of Scott Sanders, David Jones, and Helen Damico. It was also the wish of the Medieval Studies Committee. The point of issue had to do with the time the transference was to take place and which, if any, of the graduate concentrations IMS would be willing to take on.

After much discussion, the committee agreed with Tim Graham that the first step would be the transference of the undergraduate concentration in Medieval Studies, with continuing discussions on the advisability of transference of the graduate concentrations. None of the course offerings in English would be affected, since English had the most developed series of courses in the medieval period at UNM; the undergraduate minor degree, however, would be granted by IMS. The paper work was to be presented before the various committees in early fall 2005.

**Accomplishments in 2004-05**

Building on the curricular initiatives put into practice in 2003-2004, the objective for 2005-06 was to continue the process of evaluating and formalizing the degree concentration programs. During summer 2004 and fall 2005, Helen Damico with the help of Megan von Ackermann completed the development of a Medieval Studies web page in English containing curricular and programmatic information. The website was approved by David Jones and the Medieval Studies Committee.

Medieval courses in English were renumbered to reflect (and aid students in identifying) the course of study leading to the undergraduate and graduate concentrations in Medieval Studies to go into effect in the 2005-2007 catalog. Though the paperwork associated with the renumbering of courses had been completed by summer 2004, and revised in fall 2004, the actual recording of the changes did not occur until late 2005.

A reading list for the MA concentration in Medieval Studies was created, to be revisited every three years (the list contains the canonical works in the medieval period); plus a voluntary supplementary list of secondary sources meant to aid students in their readings. This material is on the web. (Approved by the MSCE, IMS steering committee, and Graduate Committee)

Since the IMS will become the academic focal point for the interdisciplinary study of medieval studies, the process of scheduling medieval courses university-wide would be better handled by the IMS office.

Cross-listing of Old and Middle English language courses with the Dept. of Linguistics was formalized, and discussions began formalizing cross-listings of medieval English courses with the Departments of FLL and Comparative Literatures.
With Leslie A. Donovan as the teacher of record, a one-credit topics course for secondary school teachers (professional development) was offered online in WebCT format in collaboration with the Annual Outreach Seminar to the Secondary Schools.

A proposal for the cancellation of the Ph.D. Concentration in Medieval Studies was discussed and the consensus was to revisit the issue in 2005-06.

Graduate Student/Mentor Internship for Medieval Mythology
This student/mentor internship continued in spring 2005, with a Creative Writing student with interest in Old Norse Literature and Language receiving the mentorship. The student received a course release and $300 for assisting Visiting Professor Russell Poole, who taught a course in mythology.

Graduate Fellow in Medieval Studies for the Outreach Program to the Secondary Schools.
The Graduate Fellow in Medieval Studies for the Outreach Program to the Secondary Schools for 2004-2005 was Chris Hallada.

The Zavadil Prize for undergraduates in Medieval Studies went to Raquel Montoya.

Medieval Studies Student Association (MSSA)
Under the faculty sponsorship of Anita Obermeier, MSSA continues to blossom. It offers two student colloquia a year, with strong student participation and increasing audience attendance. In addition, workshops on student professional development in which medieval faculty participate make this organization valuable to student development.

Ph.D. with Distinction and Popejoy Dissertation Award
Karmen Lenz, whose degree was under the Ph.D. Concentration in Medieval Studies, received her Ph.D. with distinction for "Images of Psychic Landscape in the Meters of King Alfred's Froferboe." The dissertation received the Popejoy Award for the best UNM dissertation in the Humanities for the year 2005.

Alumni Achievements
Anne Van Arsdall (Ph.D.2001) was awarded the Jerry Stannard Award (compliments of the University of Kansas) for “Reading Medieval Medical Texts With an Open Mind,” an article to be published by Brill in a collection entitled Textual Healing. Anne also has four encyclopedia entries for the forthcoming Oxford Dictionary of the Middle Ages; continues as editor for AVISTA (prime journal for the study of Medieval Technology, Science and Art); was invited presenter at the Southeastern Association for the History of Medicine and the UCLA Center for Medieval and Renaissance Studies, and will be presenting a paper at the XIIth Colloquium Hippocraticum on “Medical Education in Antiquity” in Leiden, Holland in August 2005.

Douglas Simms (Medieval Studies Minor, 1997), Assistant Professor at Southern Illinois University, was elected to the MLA Discussion Group on Lexicography, and presented papers at MLA in Philadelphia (2004) and at the 40th Medieval Congress at Kalamazoo (May 2005). He was granted two internal awards (1) Fellowship to conduct research in early Scandinavian poetry (2) monies for a project “Launching Culture Projects into Cyberspace.”
Kellie Meyer (MA, 2000) received her D.Phil. at the Center for Medieval Studies at York University, York, England; presented a paper at Leeds in July 2005; and has three publications forthcoming.

Karmen Lenz (Ph.D. 2005) accepted a tenure-track Assistant Professorship at the Macon College of Georgia at Macon, Georgia.

Felicia Steele (BA, 1993) received tenure at the College of New Jersey; was elected to the MLA Discussion Group on Lexicography; presented two papers at MLA in Philadelphia (2004) and a paper at the 40th Medieval Congress at Kalamazoo (2005); and published an article in Explicator 3 (spring 2004).

Faculty Development

Anita Obermeier presented three papers at professional conferences (Univ. of British Columbia, ACMRS, Univ. of Munich); published a book review (Quidditas 23); continues as faculty sponsor of MSSA and on the Steering committee of IMS; is an active member of the Organizing committee of the University Senate; and is member of the Board of Directors of TEAMS, a national organization. Most impressively, she received the University’s Best Teacher of the Year Award (2005), received the department’s Wertheim Award (2005), and was named a Distinguished Alumna of Eastern Illinois University.

Helen Damico directs the MSPE; served as Chair of A&S’s Post-Tenure Review Committee; serves on RAC; serves on the steering committee of IMS; and is on the Executive Board of TEAMS. Presented a paper at the 40th Congress at Kalamazoo, Michigan; was invited presenter at a Conference on Dreams and Illusions at Claremont University; published “Reclaiming Anglo-Saxon Scholars” in a festschrift collection honoring Carl T. Berkhout; has two articles forthcoming in collected editions and a co-edited festschrift volume for Rosemary Cramp; and is working on a monograph on Beowulf and the Politics of the Eleventh-Century.
This is the first report submitted by FLL’s new chair, Natasha Kolchevska, who assumed her duties on August 1, 2005, replacing Warren Smith. Generally, the year 2004-2005 was a productive one for FLL in terms of personnel, student enrollments, faculty awards, and fund raising. Part-time faculty lines in two important areas—lower division language coordination and Italian—were converted to full-time lectureships, and a visiting professorship in German was upgraded to a permanent tenure-track line. The German Summer School underwent a successful external review that underscored the important contribution that it continues to make to the intellectual life of both FLL and UNM. The Department also expanded its new fund-raising campaign.

FACULTY MILESTONES:

**Asst. Prof. Lorie Brau** received a RAC grant during the summer of 2004, which she used for travel to Japan to conduct research on her book on Rakugo culture.

**Rachele Duke (Ph.D.)** was hired as a permanent lecturer and continues to teach her well enrolled courses in Italian language and culture.

**Asst. Prof. Martin Klebes**, who had been hired as a Visiting Professor of German in the previous year, was hired as a permanent, tenure-track faculty member in the department. Prof. Klebes is a specialist on 19th and early 20th century German literature and its connections to the philosophical tradition.

**Prof. Natasha Kolchevska** completed her tenure as Director of UNM’s Feminist Research during the past summer. As Director of the FRI, she organized two university-wide events. The first, a panel on the topic of Challenges to Women in Politics, was led by the four of New Mexico’s leading women politicians, was held in September 2005. The second, on the topic of Challenges to Women in Academe, was held in March 2005 and was attended by a broad cross-section of university faculty and students. In March 2005, she began a two year term as president of the Association for Women in Slavic Studies. As part of her presidential duties, she organized a conference at the University of Illinois on “Women in the Marketplace” in June 2005 and will organize another at Ohio State University in 2007.

**Prof. Byron Lindsey** was promoted to full professor beginning July 1, 2004. During the spring semester of 2005, he was awarded a Fulbright-Hayes Research Fellowship to conduct research in Russia on “Voices from the Mountains: The Poetry of Dagestan in a Post-Colonial Context” from February through August 2005. This project of translating and editing a body of non-Russian poetry from the often contested Caucasian region will not only preserve a cultural heritage but also expand its potential audience.
Marina Peters-Newell (Ph.D.) was hired as a permanent lecturer and now coordinates lower-division language classes for the department, teaches workshops on language methodology, and courses on 17th century thought and French Civilization for the department.

Assoc. Prof. Katrin Schroeter spent her sabbatical leave working in film archives in Germany, researching a new book on representations of national identity in postwar German film. In her book, Schroeter is examining the close relationship between social and political developments and changes in the modes of cinematic production. The sabbatical also allowed her to collect material for a new seminar on multiculturalism in contemporary Germany.

PUBLICATIONS

BOOKS:
Prof. Warren Smith, editor, Satiric Advice on Women and Marriage: From Plautus to Chaucer (U. Michigan P, 2005)

Assoc. Prof. Pamela Cheek's book, Sexual Antipodes: Enlightenment, Globalization and the Placing of Sex (Standford UP, 2003) was favorably reviewed in four academic journals. She also published two book reviews.

ARTICLES AND BOOK CHAPTERS:


CONFERENCES:
Faculty continued to participate actively, as presenters, discussants, and chairs, in regional, national and international professional conferences. Prof. Baackmann, Brau, Lindsey and Kolchevska presented at national conferences such as the MLA in Philadelphia, the AAASS in Boston, as well as smaller conferences held in Madison, Milwaukee and Greensboro, N. Carolina. FLL faculty were also well represented in international venues such as London, Dublin and Mexico City. The Classics faculty in UNM hosted the American Classical League in Albuquerque
in June, 2005. One member of that program, Prof. Cyrino, has continued her publicizing of classics in the contemporary period with a television interview on the Roman arena that aired on the History Channel. Other invited talks included two by Prof. Klebes at UC Irvine and Berkeley, and Prof. Baackmann at City College in New York.

FLL faculty have also been active participants as presenters in several on-campus lecture series including those organized by UNM’s International Studies Institute (Bishop), Comparative Literature/Cultural Studies Lecture Series (McAlheny, Brau), etc.

OTHER:
During the fall of 2004, the CL/CS program sponsored a lecture series entitled Thresholds, which brought together UNM faculty with outside lecturers on the theme of crossing borders culturally.

FLL regularly co-sponsors speakers with other departments. In 2004-2005, we co-sponsored two lectures with the English Department, as well as one each with the Dept. of Spanish and Portuguese and the Medieval Studies Institute.

TEACHING
Overall, enrollments were up again in AY 2004/2005 over 2003/2004, by 8.66%, which can be attributable, to a great extent, to the large increase in Japanese (+22.66%), although Chinese was also up, by 5.88%. Both of these numbers point to the need for a serious discussion of the future of Asian languages within FLL. Other languages with increases were French (+4.29%), German (+2.94%), and Italian (+4.27%). Decreases, some of them due to temporary cuts in personnel, came in Greek (-5.63%), Latin (-1.24%) and Russian (-4.68%).

The quality of education has been considerably improved by the appointment of Rachele Duke, Ph.D., and Marina Peters-Newell, Ph.D. to permanent lectureship positions. With Prof. Klebes appointment, the German program is now stable, and with the upcoming appointment of tenure track professor in French and CL/CS, the graduate programs in FLL will finally, after a hiatus of some four years, also be reasonably well staffed. Dr. Peters-Newell again organized the very successful Language Expo, an outreach program that brings over 500 high school students to the UNM campus, in March 2005. Language Expo introduces the students to the variety of language and culture programs at UNM and gives FLL faculty and TA’s the opportunity to make out programs more user-friendly.

In May, 2005, Prof. Steven Bishop led a group of twenty UNM students on a study trip to Paris and Cannes, France.

GERMAN SUMMER SCHOOL

The German School was directed during summer 2004 by Prof. Katrin Schroeter. After some criticisms were made in the external review of FLL the previous year, there was a recommendation that the GSS undergo a separate review during the summer of 2004. Two reviewers, Prof. Angelika Baumer from the German at Emory University, and Prof. Jane Slaughter, from UNM’s History department, were charged with examining questions that included the significance of the GSS to FLL, its use of resources, and its target audience(s). The reviewers were unanimously positive after their visit to the School in Taos, and recommended “regularizing the resources allocated to [the GSS] and consolidating its administrative structure,” including making the director’s position a three-year appointment. While the last point has not been formalized, Prof. Baackmann has directed the GSS in 2005 and agreed to continue to do so in
2006. This will allow her time to develop strategies that will ensure the School’s continuity and status.

STAFF

Gloria Carol, Department Administrator, was nominated for the 2005 Provost Outstanding Staff Award.

Jean Peaslee was awarded her B.A. in Communications and Journalism in June 2004 and joined the department as Administrative Assistant in October 2004. Gabi Neigelhall is the other FLL AA.

Wei Song is the Department’s work study Webmaster and Computer Technician. Jasmine Regan is the Department’s work study office assistant.

FUNDRAISING
The department is thriving in many respects and began a fundraising program this year through a newsletter published on its website, which will eventually lead to the setting up of a scholarship fund for regular awards to UNM language students

NEW OR ONGOING INITIATIVES

1. Search for outstanding new assistant professor candidate in French and CL/CS
2. Upgrade of part-time positions to permanent lectureships in Chinese and Japanese
3. Shift of Arabic and Swahili language instruction from African-American Studies to FLL
4. Introduction of Ph.D. in CL/CS (co-sponsored by English Department)
5. Upgrading of core language requirement (currently at 3 hours) to 6 hours
1. SIGNIFICANT DEVELOPMENTS

1.1 New teaching strategies and/or course modifications:

Finished converting both Geog. 102 (Introduction to Human Geography) and Geog. 195 (Survey of Environmental Issues) to a power point format.

Revamped World Regional Geography (Geog. 201) making it a power point course. First time taught in over 10 years so all new material incorporated in the course. Revamped Political Geography (Geog. 360) taking the first step in making it a course that will be a prerequisite for The Resource management courses at the 400 level. Course will require one additional revision and a name change.

Developed a new approach for Geography 470/471 by challenging graduating seniors to engage in creative thinking about planet Earth. The year-long exercise was to flip the Earth from north to south and simulate a 10 degree axis to examine effects on ocean currents, global temperature patterns, and resulting global climates. The aim of this effort was to stimulate thinking about a new class of geographers, called “astro-geographers” in the on-going search for habitable planets orbiting the closest 100 stars to the Sun.

Redesigned Geography 367 into a field program on Urban Socio-Economic Issues. The course went from a general lecture series with a focus on urban economic geography to one of applied topics in land use planning (inner and outer city residential, urban center changes, transportation). The field nature of Geog. 367 brings it more into coordination with the field focus of Geog. 465 [Urban Environmental Management] which had been reformatted several years earlier.

Redesigned Geography 545: Seminar on Geography of the Southwest into a course on Geographic Field Methods with application to the natural and cultural landscapes of the American Southwest. Four one-day and one three-day field educational field experiences designed to illustrate classroom field techniques.

Developed a new Honors Program for seniors in Geography that includes a semester in research methods and a semester in research writing.
1.2 Campus committees & service functions

Cullen:

i. National and International:

3. Organized one session for the Applied Geography Conference in St. Louis
4. Organized one session for the International Geographic Union’s meeting in Glasgow
5. Chaired three sessions at professional meetings

ii. University, College, and Departmental:

1. Graduate Committee, College of Arts and Sciences
2. Graduate Advisor, Department of Geography

iii. Editorial Boards

1. Southwestern Geographer
2. Scottish Geographical Journal

Matthews:

1. Matthews: Participation in core courses in Water Program, UNM
3. Matthews: Coordinator and Geographer – New Mexico Geographic Alliance.

Morain:

Served as Chair of Geography; organized and edited departmental responses to College statements on Success, Distinction, and Excellence.

Williams

1. Served as Undergraduate Advisor of Geography and coordinator of the Undergraduate Honors Program.
2. Served on the Arts and Sciences Interdisciplinary Southwest Studies program. Volunteered to serve as field coordinator.
1.3 Proposals submitted and awarded

Matthews:


Matthews, Olen Paul, PI. New Mexico Geographic Alliance Maintenance Grant, National Geographic Society, $24,720 (2004-2005).

Williams:

One semester sabbatical request to transcribe interview tapes of New Mexico pioneer homesteaders onto CD’s to format material for a book on “The Farmer Frontier in New Mexico”. Research was to have in-kind support on transcriptions by the Farm and Ranch Museum. (proposal denied)

2. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE

Cullen:

Preparations for a sabbatical leave to South Africa, Fall 06 and Spring 07.

Morain:

Modify and gain approval for the department curricula for BA, BS, and MS degrees, and for MS concentrations in Environmental Management and Geographic Information Sciences.

By approval of the Interim Dean to recruit a Lecturer on continuing status to lead the GIS curriculum at both the undergraduate and graduate levels.

Gain approval and recruit a tenure track Assistant Professor of Geography to begin F’07.

Williams:

Develop an honors program in Geography that will lead to senior undergraduate experience in research techniques and presentation. Be the departmental coordinator of the program.

Work with several departments [Art History, Anthropology, and Biology] to create a base for a Southwest interdisciplinary program focus through the College of Arts and Sciences.

Connect with the geography program at TVI to develop a series of courses that students can use to bridge as an entry to UNM.
Become connected with one of the UNM freshman cluster programs: hopefully connected with English Literature and with a physical science.

3. APPOINTMENT TO FACULTY/STAFF: (None)

4. SEPARATIONS FROM FACULTY/STAFF: (None)

5. PUBLICATIONS

5.1 Department:


5.2 Faculty:

Cullen:


Matthews:


Morain:


6. OUTSIDE PROFESSIONAL ACTIVITIES

6.1 Meetings attended and roles played

Cullen:

Papers presented at professional meetings:


Morain:


Presenter, Quarterly New Mexico Epidemiology Meeting, Albuquerque, NM, 13 January, 2005


Scientific Committee, Session Moderator, and Presenter, Remote Sensing Arabia, Riyadh, Saudi Arabia, 7-11 May, 2005

Watson:

Worked with the New Mexico Office of the Bureau of Land Management in the development of a decision support system for active rangeland management using MODIS and NEXRAD data to monitor range condition.

Attended and presented the results of work integrating MODIS satellite imagery and NEXRAD weather radar for monitoring and assessment of environmental and infrastructure impacts from Hurricane Katrina, 3rd International Workshop on Remote Sensing for Post-Disaster Response, Chiba, Japan, September, 2005.

Attended and presented research on environmental monitoring and assessment using MODIS Direct Broadcast satellite imagery from the Center for Rapid Environmental Assessment and Terrain Evaluation (CREATE), International EOS/NPP Direct Readout Meeting, Benevento, Italy, October, 2005.

Williams:

Presentation on “The Interdisciplinary Nature of Geography in Studying the New Mexico Region”, invited talk for the Museum of New Mexico at the Palace of the Governors, August, 2005.

Active Member of the Albuquerque Archaeological Society. Participant in rock art recording at the Galisteo Dike in the Summer, 05.

Contributor to the New Mexico Historical Society.

6.2 Committees, boards, service functions

Matthews:


Morain

Elected Treasurer to the International Society for Photogrammetry & Remote Sensing (ISPRS), 2004-2008. In this capacity, attended several international meetings of ISPRS Council.

Wrote, and was signatory to, a bilateral Cooperative Agreement between the Chinese Ministry of Communications, Academy of Transportation Sciences and the US/DOT Research and Special programs Administration (RSPA).

Representative for ISPRS, United Nations Regional Conference on Cartography in the Americas (UNRCC-A), New York, 27 June-1 July, 2005.

7. OUTSIDE SPONSORED RESEARCH

Matthews:


Matthews, Olen Paul, PI. New Mexico Geographic Alliance Maintenance Grant, National Geographic Society, $24,720 (2004-2005).

Morain:

National Aeronautics and Space Administration, $3.2M, Public Health Applications in Remote Sensing (PHAiRS) 2/19/03 - 2/19/08.

U.S. Department of Transportation, Research & Special Programs Administration (RSPA) [renamed Research and Innovative Technologies Administration 2/05], $3.27M, National Consortium for Remote Sensing in Transportation (NCRST)-Security, Hazards, Disasters, Safety, 3/19/00-12/31/05 (possible funded extension through 3/19/09).
2004-2005 was another year of successes for the History Department. In all the mandated areas of performance -- research, teaching and service -- our faculty and students showed exceptional productivity, and continued to increase the stature of the Department and to enhance the national reputation of UNM. In fact, in Spring 2005 our graduate program was listed was in the new US News and World Report, ranking 59th in the nation. We have continued our efforts to revise and enhance both graduate and undergraduate education, have supported both junior and senior faculty in their research, have been successful in receiving competitive national funding and awards, and have contributed to university-wide and national professional activities. These developments are described in more detail below.

I. Significant developments during the academic year

Faculty in the Department have maintained active research agendas, and as a result published a number of books and articles in the past year. Two of those articles received national prizes. (See listing below.) Two of our faculty were awarded nationally competitive Mellon grants, another was selected as one of sixteen national Fellows at the Wilson Center in Washington, D.C., and one of our Latin American scholars received a Fulbright award to teach in Spain. Our graduate students received scholarships and fellowships awarded for work in southwestern and Latin American History, two programs that continue to be strong in the Department. Professional service was extensive and varied and continues to raise the profile of the Department and the University. For example, faculty served on book, article and dissertation prize committees for the Western History Association, for borderlands studies at SMU, and for the association of Urban History; faculty were on the editorial boards or reviewed for Viator, the Pacific Historical Review, the Journal of American Indian Education, Montana: The Magazine of Western History, the Journal of American History, the American Historical Review, the Journal of Religion, and for the Frontier and Border Series of Yale University Press. They participated in the governing council of the Western History Association, on the Conference Planning Committee of the Environmental Studies Association and the Program Committee of the Western Association of Women Historians, as one of the Distinguished Lecturers of the Organization of American Historians, as grant and documentary film reviewers for the NEH, and led a workshop for the NSF Chautauqua Program.

The department combined this considerable research and professional activity on a national level, with similar contributions to important developments in the University. The History Department continues to provide leadership for international education on campus and housed the Directors of the International Studies Institute and the Medieval Institute in A&S, and the Latin American Institute, while our faculty directed or were part of the governing boards of Asian Studies, and European Studies, the Feminist Research Institute, The Southwest Hispanic Research Institute, Religious Studies and Women Studies. History Faculty were members of the Search Committees for the Director of International Programs and of African American Studies,
served on the Faculty Senate, the Core Curriculum Task Force, the Senate Committee on Mentoring, the Provost’s Committee on Areas of Marked Distinction, the University Press Committee, and advised the Hispanic Honor Society. Two of our junior faculty members also chaired the Faculty Selection Committee for the Freshmen Learning Communities. When taken collectively these contributions symbolize the very strong commitments of our faculty to the intellectual and teaching missions of the institution, and the willingness to be active citizens of the University community.

We also make important contributions to the broader community by providing guest lectures on topics ranging from “Recent Developments in the Israeli-Palestinian Conflict,” to “French Secularism and Muslim Women,” to “The Sixty-Year Saga of Atomic Comic Books.” Additionally, the Department helps fund lectures that we believe will serve our colleagues and members of the community. A good example of this was our support for last Fall semester’s program “Vietnam: Voices and Visions Unfiltered.” We were especially pleased to fund the visit to campus by Prof. George C. Herring one of the nation’s foremost historians of the Vietnam co.

Faculty in the Department have been regular participants in the activities of Albuquerque’s Tricentennial Commission, and on the 2012 Committee planning for the state’s centennial celebration.

Our commitment to teaching on undergraduate and graduate levels remains constant. Full- and part-time faculty from junior to senior ranks regularly teach the introductory survey courses. This last year in Fall semester, we had 1561 students enrolled in lower division courses, 1265 in upper division, while in Spring 2004 comparable numbers were 1529 and 1284. To make up for faculty on leave or with release time because of administrative duties, we were able to hire a Visiting Assistant Professor with a speciality in 19th Century US History, and this last Spring, for the second time, Prof. Melvyn Dubofsky (Bartle Distinguished Professor of History at SUNY, Binghamton) taught an undergraduate course for us, this year in US Social History Since 1945. We continue to use our Associate in Teaching program that allows our ABD students to teach beginning courses, or topics courses that reflect the focus of their graduate work in the EWDP program. By giving graduate students the opportunity to have sole authority in their classes we believe we are contributing to their professional development, and to their future employment.

The Department continues to expand our offerings of introductory courses (101, 102, 161, 162) with enrolled discussion groups. Additional funding from the Dean of the College of Arts and Sciences has made it possible to fund additional Graduate Teaching Assistants (GTAs), and thus offer two US and two Western Civilization courses/semester that employ such a structure. Data from surveys of students who enroll in such courses indicates that the majority feel this experience is valuable and as a result they would “actively seek out” such courses in the future. We also have many more faculty who are interested in teaching surveys with discussion sections, and we believe in the future, with the necessary graduate student help, we can use this course format for the majority of our lower-division classes. For the record, in 2004-2005 we had 80 students enrolled in our graduate program, and 296 undergraduate majors. In May of 2005 we awarded 88 BA degrees, 8 MA degrees and 8 PhDs.

This academic year was the second year of our participation in the Carnegie Initiative on the Doctorate (CID). As one of 16 History programs nationwide selected to participate in this initiative, a team of some ten faculty and four graduate students has been working to determine our role as a “steward of the discipline” in the 21st Century. We now have completed an evaluation and reconfiguration of our major PhD fields to require that students specialize in both a
geographic and a topical concentration. We are also examining several models for revisions in our required Historical Methods course, and, as a result, have also begun some preliminary conversations about possibly having different levels of that course offered for MA students, as well as considering creating several “tracks” for MA study depending on whether the individual is planning to pursue a PhD or is interested in other professional venues such as high school teaching or public history work. In January 2005 the national Carnegie directors chose UNM as one of four schools to make a public presentation on their progress at the annual meeting of the American Historical Association. Last, and hardly least in the Department’s report on teaching activities in the previous year, we are very proud that Prof. Tim Moy was selected as the 2006-2007 University President Teaching Fellow, the highest award that the University bestows for teaching. He is the second of our faculty to receive that singular recognition.

II. Plans and recommendations for the future

During 2004-2005 the Department was fortunate to be able to hire three very strong scholars to our program. Searches were carried out by the Department to fill positions in 20th Century American History and Ancient History, and the size and strength of the pools for both positions attest to the national standing of our faculty and programs. Through the University’s “Spousal/Partner Hiring Policy,” we anticipate that the spouse of one of the candidates, who specializes in Medieval History and Gender and Women’s History, will begin teaching for us in Spring 2006, and the procedures for a regular appointment in the Department will begin at that time. In Spring 2005 the Department was pleased to learn that an historian was among the finalists for the position of Director of the Southwest Hispanic Research Institute, and after an evaluation by the Department and a final selection by the associated faculty of SHRI and the Vice President for Research, the director of that Institute will have a home in our Department as a tenured, Associate Professor of History. In each of these cases we have hired individuals who build to our strengths – our support for research, desire to offer students an excellent education, and the willingness to share in the multiple service activities that make the Department and the University run well.

As noted last year, we continue to benefit from the support of many donors, and in May 2005 we made the Dabney award for the first time to a graduate student in early US History. We also have adopted the criteria and selection process for the Shoemaker award which will benefit faculty research and teaching. We are now in the position to make that award in Spring 2006. We will continue to communicate with our alums and community on a systematic and regular basis and look forward to developing more formal relationships for the friends of History.

During 2004-2005, as part of the College of Arts and Sciences planning process we undertook concrete evaluations of what we can and do offer entering students, upper class students, particularly majors and Honors Students, and our graduate program. After an assessment of the programs in each of these categories we made serious, concrete proposals for needs in each area that could bring each one to success, excellence and distinction. Some of our proposals are being evaluated by a College committee, and others have already borne fruit through their inclusion in the College’s case statement for the ongoing Capital Campaign which will kick off in 2006. If our suggestions can be made reality through College and University funding, or through donor gifts we would be most fortunate, but no matter those outcomes, we
have plans in place that should help guide Department initiatives and activities in the future. We will be adding two new faculty to our ranks through searches in 2005-2006 – one in 19th Century European Cultural History, the other in African American History. It is clear that we have many opportunities ahead that should spur us to re-examine undergraduate teaching and curriculum in particular to reflect changing student needs and faculty interests.

III. Appointments/Separations of faculty/staff

Appointments:

Thomas Sizgorich, Assistant Professor and Gorham Endowed Lecturer in Ancient History with focus on Late Antiquity and comparative cultural and religious developments. Effective August 2005.

Jason Smith, Assistant Professor in 20th C. US Political History with a focus on Political Economy. He has been granted a leave-without-pay in order to take advantage of a second year of a Mellon Postdoctoral Fellowship at Cornell University. He will join us in August 2006.

Manuel Garcia y Griego, tenured, Associate Professor in Hispano/Latino and Mexican History with a focus on immigration. He will join us in January 2006.

Separations: None

IV. Selected Publications of the Department for 2004-2005

Ball, Durwood


Bokovoy, Melissa


Cahill, Cathleen


Denetdale, Jennifer

A One of the Queenliest Women in Dignity, Grace, and Character I Have Ever Met: Navajo Women and Photography-Portrayals of Juanita, 1868-1902. New Mexico Historical Review (Summer 2004): 288-318.

Gauderman, Kimberly


Graham, Timothy


Hall, Linda


Hutton, Paul

A It was but a Small Affair: The Battle of the Alamo. Wild West (Feb 2004): (Awarded the National Cowboy and Western Heritage Center A Wrangler Award for best Western article of the year).

A Tales from the Missing. True West (Jan 2004), 56-57

A Remembering Alamo Movies. True West (May 2004), 56-59

A Custer's Last Film. True West (Aug. 2004), 50-57

Moy, Timothy


Porter, Jonathan


Pugach, Noel


Reyes, Barbara


Rubenstein, Jay


Sanabria, Enrique


“Iberian War,” pp. 90-92

“Instability of the Republic,” pp. 113-115

“Religion,” pp. 200-202

Sandoval-Strausz, Andrew


Scharff, Virginia


Szasz, Ferenc


Truett, Samuel


Yazawa, Melvin


AJ. Hector St John de Crevecoeur, @ vol. 14: 162-63

ABenjamin Rush, @ vol. 48: 156-58

AEzra Stiles, @ vol. 52: 777-78

ANOah Webster, @ vol. 57: 895-97
1. **Significant developments during Academic Year 2004-2005**

Professor Joan Bybee was named Regents Professor.

Associate Professor Melissa Axelrod named one of four Regents’ Lecturers for Arts and Sciences (term for three years).

Professor Emeritus Robert W. Young was selected to receive the Kenneth Hale Award by the Linguistic Society of America.

Associate Professor Caroline Smith spent her sabbatical at the University of California-Berkeley and in Paris France conducting phonetic research.

Assistant Professor Catherine Travis successfully passed her mid-probationary review.

Associate Professor Sherman Wilcox was promoted to Professor and was invited to give workshops and lectures in Italy and Brazil.

Associate Professor Jill Morford collaborated with students from UNM and the Technical University of Aachen, Germany on conference papers presented at Mainz Germany, Barcelona Spain, San Francisco CA, and Albuquerque NM.

The Department participated in the College of Arts and Science’s Southwest Semester (Linguistics 554 “Language Structures of the Southwest” and Linguistics 331 “Language in Society”).

Received $20,000 from New Mexico Legislature for upgrading the Signed Language Learning Center (operated by N. Vigil).

New Ph.D. Concentration in Speech and Hearing Sciences approved.

Continued the successful department practice talk program.

Contributed to the Institute for Medieval Studies colloquium program.

Hosted departmental orientation for faculty, new and returning undergraduate and graduate students, early in the fall semester.

Hosted departmental retreat for faculty and staff to set departmental goals for the year,
address departmental issues, and develop long-term plans for improving the curriculum, enhancing recruitment of graduate students.

Continued to upgrade and enhance the department website to include news of events concerning students and faculty in the department.

Continued projects to standardize departmental administrative functions. Continued the process of developing network access to certain databases for departmental functions.

2. Significant plans and recommendations for the near future

The department began exploring ways in which to improve the Navajo language program. We hope to expand this program, which is now staffed with only one lecturer position, and to develop it into a full-fledged Navajo language program, offering a B.A. in Navajo, in the near future.

3. Appointments to faculty and staff

Professor William Croft was hired in the linguistics program. Professor Croft is a highly regarded cognitive and functional linguist with an outstanding international reputation.

Josephine Santiago was hired as a lecturer in the Signed Language Interpreting Program. In addition to teaching undergraduate classes in American Sign Language and interpreting, Santiago will spearhead our effort to begin developing multimedia course materials for our signed language program.

4. Separations of faculty and staff

Professor Joan Bybee retired, effective June 30, 2005.

5. Publications of faculty in Linguistics which appeared in calendar year 2003

Morford, J. P.


Shaffer, Barbara

Smith, Caroline L.


Travis, Catherine E.


Wilcox, Phyllis Perrin


Wilcox, Sherman


6. Outside professional activities of staff members
Faculty and staff performed a multitude of service to the profession and the community during 2004-2005. A few examples of such professional service activities include:

**Melissa Axelrod**
Ongoing work with Nambé Pueblo, Jicarilla Apache community, and the Mayan Ethnographic Documentation Project.

**Joan Bybee**
President of the Linguistic Society of America.

**Jill Morford**
Wrote a story “Talking about Talk” for the National Year of Languages series on National Public Radio (NPR).

**Karen Naughton**
Ongoing work with the Community Outreach Program for the Deaf and the Deaf Cultural Center, Albuquerque, NM.

**Bonnie Rudy**
American Sign Language Teachers Association.

**Barbara Shaffer**
New Mexico Licensure Committee (mandate to develop state licensing procedures for signed language interpreters).

**Caroline Smith**
Referee for the National Science Foundation.

**Catherine Travis**
Awarded a research semester in Australia, delivered lectures at Melbourne University and a symposium at the Linguistic Society of America Annual Meeting.

**Phyllis Wilcox**
Organized and directed Sign Fest 2004.

**Sherman Wilcox**
Serves on the editorial board of *Sign Language Studies, Gesture, and Annual Review of Cognitive Linguistics*.

**Roseann Willink**
Serves on advisory boards of Navajo Language Academy and Navajo Schools Inc.; presentation as part of University Libraries, Indigenous Nations Library Program, “Weaving a World” Diné Bahane, Navajo Weaving and Spider Woman’s Gifts.

**Nancy Montoya**

7. **Outside sponsored research**

*Phyllis Wilcox*

$3000 grant from the U. S. Rehabilitation Services Administration Region IV Interpreter Education Project for Individuals Who Are Deaf-Blind (University of Arkansas).

8. **Students’ professional activities**

**Presentations**

Several graduate students presented papers at indigenous language conferences, including the Stabilizing Indigenous Languages Conference in Canada.

Several graduate students presented papers at the High Desert Linguistics Society Conference.

**Fellowships and Awards**

Johnelle Walters was selected as the first recipient of the Robert W. Young Award for Native American Linguistics.

Doctoral student Simoni Valadares was awarded a fellowship from the Latin American and Iberian Institute for her work on Palikur, an indigenous language of Brazil.

Doctoral student Ana Medina Murillo was awarded a fellowship from the Latin American and Iberian Institute for her work on Guarijio, an indigenous language of Mexico.

Volya Kapatsinski received a full scholarship to pursue his doctoral study at Indiana University.

Evan Ashworth received a fellowship to attend a summer research program on Quichua in Ecuador.

Doctoral student Erin Wilkinson became the first deaf Teaching Assistant in the department’s history, and successfully taught 80+ students in Linguistics 101.

**Masters Comprehensive Exams and Theses, Dissertation Proposals and Defenses**

Keith Martin Cagle, “The role of iconicity and initialization in the emergence and historical development of the American Sign Language lexicon,” June 29, 2005.

Brenda Nicodemus, “The use of prosodic markers to indicate utterance boundaries in ASL interpretation,” June 15, 2004
Natalya Stukova, “The role of formulaicity in the creation of grammar,” April 22, 2005.


9. Graduate study in the Department of Linguistics

Graduate Admissions 2004-2005

1. Eight students applied for the doctoral program in linguistics; seven were offered admission; four did not accept admission, two accepted admission elsewhere.
2. 13 students applied for the masters program in linguistics; 13 were offered admission; four did not accept admission, three accepted admission elsewhere.

10. Graduates from the Department of Linguistics

Bachelor of Science: Signed Language Interpreting

Nora Comeau-Gillis
Nicole Humphrey
Kara Midgley
Dana Sumrow
Jennifer Andrews
Wendy Severns
Lisa Smith
Molly Weider

Bachelor of Arts: Linguistics
11. Events sponsored by the Department of Linguistics

Conferences and Mini-courses

Sixth High Desert Linguistics Conference, November 4-6, 2004. Plenary presentations by Joan Bybee (UNM), David McNeill (U. of Chicago), and Suzanne Kemmer (Rice U.). 135 people attended, with presentations on spoken languages including Italian, German, Dutch, Swedish, Mandarin Chinese, and Japanese; signed languages including American Sign Language and Australian Sign Language; six papers on Spanish; ten presentations on indigenous languages. Forty UNM students participated, 17 made presentations. All plenary presentations were made accessible with signed language interpreters; individual papers were interpreted as request by deaf faculty and graduate students.

Colloquium Series

Sandra Thompson (UC Santa Barbara), “‘You know it’s funny’: English ‘extraposition’ revisited,” October 1, 2004.

Larry Gorbet (UNM), “English substantive adjectives and their evil half-twin: derivational syntax,” April 29, 2005

Sergei Starostin (Santa Fe Institute), “The current situation with linguistic taxonomy,” April 8, 2005.


Other Sponsored Workshops

Workshops sponsored by Arkansas Interpreting Grant

(b) Ralph Sedano, “Boost Receptive Mastery,” Nov. 2004
(c) Gary Sanderson, “Developing Training for a Mentor Program,” Jan. 2005
(f) Ed Gervoni, “Deaf-Blind,” May 2005
The Department of Mathematics and Statistics continued to meet the demands of its broadly defined missions in education, research, and service during the 2004-2005 academic year.

1. Significant Developments During the Academic Year, 2004-2005

- Including multiple year funding, our research funding was approximately $3,972,398 for 2004-2005; this is a decrease from $4,373,352 last year. These grants funded 16 research assistants in the fall and 15 research assistants in the spring. Also, four research assistants were funded by other departments. New funding includes grants for Professors Huerta and Umland.

- Total 21-day enrollment for the AY was 15,396 students, an increase of 8% over the previous AY; this is the highest enrollment ever. There were 7,665 students enrolled fall semester, 6,618 students enrolled spring semester, and 1,113 students enrolled in summer session.

- The Department of Mathematics and Statistics awarded a total of 27 BS degrees, 14 MS degrees, and 8 Ph.D. degrees for AY 2004-2005.

- Professor Cristina Pereyra and Lecturer Cathy Gosler continue to promote the UNM Mathematics Contest with permanent funding ($16,000 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. William Dunham, Truman Koehler Professor of Mathematics at Muhlenberg College, gave a general interest lecture on "The Calculus Gallery" in connection with the contest. We took advantage of the statewide high school PNM-UNM Math Contest mailings and sent flyers about our web site to high school teachers. We anticipate that this will help teachers state-wide prepare their students for UNM. Our finals from past years are on our web site so that teachers and students will know what UNM's expectations are.

- Again, we were able to purchase 48 Matlab licenses for the Lobo Computer Pod so students can have more accessibility to this software program. This funding came from student course fees, and we hope to continue to buy these licenses for our students.
• Qiao Liang, who was a senior applied mathematics major in our department, received the prestigious Merage Foundation Fellows Program award for $20,000.

2. Significant Plans and Recommendations for the Near Future

• We want to develop a long term sustainable hiring plan and will use the following criteria to implement it: (1) the standing of our programs as reported to A & S in the recent reports of distinction and excellence (2) the involvement of the Department of Mathematics and Statistics in the proposed BA/MD degree in Nanoscience and Microsystems, and (3) the relocation of the Department of Mathematics and Statistics in the new Science and Math Learning Center building. These three facets will provide a solid basis for our strategic growth.

3. Appointments to Faculty/Staff

• Our permanent faculty did not change this year; however, Scott Beaver, a post-doc, and Liviu Ornea, a visiting professor, taught upper-level courses for us this academic year. We had a total of 28 Part-Time Instructors who taught 67 sections in fall 2004, and 24 Part-Time Instructors who taught 42 sections in spring 2005.

• Gail Mercer was hired in September 2004 as an Administrative Assistant III to replace Trevor Bilmes.

4. Separations

• Trevor Bilmes, Administrative Assistant III, transferred to HSC in September 2004.

5. Faculty Publications and Creative Works

Aceves, Alejandro


Bedrick, Edward


Buium, Alexandru


Christensen, Ronald

Coutsias, Evangelos


Efroymovich, Sam


Ellison, James


Gosler, Cathy


Hagstrom, Thomas


Hanson, Tim


Huerta, Gabriel


Huzurbazar, Aparna


Kapitula, Todd


Linear stability of perturbed Hamiltonian systems: theory and

Koltchinskii, Vladimir


Kucharcz, Wojciech


Lorenz, Jens


Nitsche, Monika

Pereyra, Cristina
Poutkaradze, Vakhtang

Salter, Laura


Steinberg, Stanly


Sulsky, Deborah


6. Outside Professional Activities of Staff Members

Donna George, Coordinator Program Advisement, chaired the 2004 NMAAA annual State Conference that was hosted at the University of New Mexico on October 22, 2004, in the Student Union Building. Participants included 115 academic advisors, administrators, faculty, staff and student/peer mentors from throughout the NMAAA region. The keynote speaker for the conference was President Louis Caldera.
7. Outside Sponsored Research

UNM Mathematics & Statistics
Active Grants between 7/01/04 - 6/30/05
Full Funding $ 3,972,398

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Institute for Medieval Studies

Annual Report
July 1, 2004 to June 30, 2005

Submitted by Timothy C. Graham, Director, Institute for Medieval Studies

Developments in 2004–2005

The Institute offered two public programs during the year, bringing seven distinguished speakers to the UNM campus. Both events drew excellent attendance.

The Institute’s annual Outreach Seminar for Secondary School Teachers took place on Friday, October 29, 2004. The theme for the day was “Of Heroes and Hobbits: Beowulf in the Works of J. R. R. Tolkien.” The overall aim of the seminar was to highlight Tolkien’s debt to Anglo-Saxon literature in his Lord of the Rings cycle and his other writings. In planning the event, the Institute’s Steering Committee felt that, with the completion of Peter Jackson’s three movies inspired by The Lord of the Rings, the time was ripe for an assessment of how teachers might creatively use their classrooms to highlight the links between the Middle Ages and modern imaginative literature. The seminar featured two guest presenters: Jane Chance, Professor of English at Rice University, and Michael D. C. Drout, Associate Professor of English at Wheaton College, Massachusetts. Both guest presenters are internationally recognized for their research on Tolkien; Professor Chance has organized many conference sessions focusing on Tolkien’s work and Professor Drout has the unique distinction of having rediscovered Tolkien’s complete translation of Beowulf. Leslie Donovan, Associate Professor in UNM’s Honors Program, and a Tolkien expert in her own right, offered the day’s third presentation and also served as academic coordinator of the event. The seminar drew the highest attendance the event has seen for several years: some forty teachers from Albuquerque, Los Alamos, Moriarty, Roswell, Shiprock, and Santa Fe, as well as a visitor from the Wisconsin Public School system and several UNM graduate students. This was also the first occasion on which a pupil of the Albuquerque Public School system attended the seminar.

Professor Drout began the day’s first lecture, “From Beowulf to The Lord of the Rings,” by advancing to the podium reciting Beowulf in the original Anglo-Saxon, just as Tolkien used to do in his Oxford lectures. Prof. Drout demonstrated how the two apparently contradictory aspects of Tolkien’s career—his tenure of the Oxford Professorship of Anglo-Saxon (in which capacity he produced perhaps the most influential study of Beowulf ever written) and his work as an imaginative writer—were closely interlinked, each enriching the other. Leslie Donovan used her lecture, “Women in Beowulf and Tolkien’s The Lord of the Rings,” to demonstrate how the female characters in Tolkien’s fiction encapsulate many of the characteristics embodied by the women who feature in the heroic poetry of the medieval Germanic tradition. Jane Chance’s lecture, “Out of Africa: Tolkien’s Anglo-Saxon Scholarship as a Window into Middle-Earth,” again interwove Tolkien’s experiences as a scholar and writer while introducing concepts from modern critical theory. The day ended with a panel discussion focused on ways in which teachers could incorporate into their classrooms the materials discussed during the seminar. A new feature
of this year's event was the opportunity offered participants to acquire one hour of UNM credit by taking an eight-week course following the seminar. Leslie Donovan designed the course and provided classroom and online instruction to the seven teachers and students who opted to take it. The final outcome for course participants was the completion of a research paper focused on the links between Tolkien’s writing and medieval culture.

The theme of the 2005 Spring Lecture Series—the Institute’s flagship event—was “Medieval Journeys: Pilgrims, Crusaders, and Explorers.” Taking place on March 28–31, the series investigated the rationale for medieval pilgrimage, in particular the great pilgrimage to Santiago de Compostela, with a special focus on the resulting impact on art, culture, and spirituality; and considered the nature of the encounter between western Europe and the wider world that resulted from the crusading movement and from late medieval exploration. The series included seven lectures: Mary Campbell (Brandeis University), “The Larger and Larger World: How an Expanding Environment Changed the Writers and Readers of Europe”; George Greenia (College of William and Mary), “Pilgrims at Prayer: The Search for Medieval Spirituality”; George Greenia, “Preying on Pilgrims: Criminals among the Holy”; Edward Peters (University of Pennsylvania), “Crusaders and Pilgrims in Motion, 1096–1291”; Thomas Madden (St. Louis University), “Medieval and Modern Perspectives on the Crusader Conquest of Constantinople in 1204”; Mary Campbell, “Asia, Africa, Abyssinia: Writing the Land of Prester John”; and Derek Pearsall (Emeritus, Harvard University), “Chaucer’s Pilgrims.” A new feature of this year’s program was the inclusion of a concert of medieval music, “Songs of Pilgrimage and the Crusades,” offered on the Thursday afternoon by UNM’s Early Music Ensemble, directed by Colleen Sheinberg. Presented in Keller Hall, the concert was enthusiastically received. Overall, the Spring Lecture Series attracted an attendance of more than 1,500 people.

During 2004–05, the Institute continued to offer its peer-mentoring program for Albuquerque secondary schools. Christopher Hallada, a Master’s student in the English Department, served as the Institute’s Outreach Fellow for the year. He taught the module on “Medieval Manuscripts” at both Bosque Preparatory School and Del Norte High School. With Karmen Lenz, he offered a pilot version of a new module on “The Crusades” at La Cueva High School. In November, he offered a module on the works of J. R. R. Tolkien for Albuquerque Academy’s Medieval Day. On that same occasion, Sarah Baechle and Justin Parks, M.A. students in the English Department, respectively offered modules on “Chaucer” and “Medieval Heresies.”

In November, the Institute published vol. 14, no. 1 of the AVISTA Forum Journal, an international interdisciplinary journal of medieval science, technology, and art. Anne Van Arsdall, Research Associate of the Institute for Medieval Studies, serves as editor of the journal; this was the second issue to appear under the Institute’s imprint. The issue included three articles: Nigel Hiscock (Oxford Brookes University), “‘Conversing with Winged Birds’: The Vaulting of Lincoln Cathedral”; Stephanie Hollis (University of Auckland), “The Social Milieu of Bald’s Leechbook”; and Elaine M. Beretz (Bryn Mawr College), “Adjustments for the Innovative: Installing a Rose Window into the North Façade of Saint-Étienne, Beauvais.” The issue also provided a full account of papers on science, technology, and art presented at the Thirty-Ninth International Congress on Medieval Studies, held in May 2004; an obituary of the scholar Barbara McLaughlin Kreutz; and abstracts of twenty-nine recently completed dissertations.
During the year, the Institute offered financial support for lecture programs organized by UNM's Anthropology and English Departments, the International Studies Institute, and the Religious Studies Program. Its contributions included support for the March visit by Toshiyuki Takamiya, the noted Japanese expert on Middle English literature who is also a collector of manuscripts and early printed books. Professor Takamiya's lecture, "From Gutenberg to Caxton: Digitization at the HUMI (HUMANITIES Media Interface) Project," described a remarkable Japanese initiative aimed at producing high-quality digital facsimiles of manuscripts and early printed books owned by the British Library in London, the Chester Beatty Library in Dublin, and the Parker Library of Corpus Christi College, Cambridge University.

Plans for 2005–2006

The 2005 Outreach Seminar for Secondary School Teachers is scheduled for October 21 and will be titled "Dante in the Classroom." The seminar will explore key aspects of Dante's great work, The Divine Comedy, with a particular focus on the historical, cultural, and political context within which Dante wrote. The presenters will be Christopher Kleinhenz, Carol Mason Kirk Professor of Italian at the University of Wisconsin, who will offer "Italy and Florence in the Age of Dante" and "Dante and the Visual Arts"; Regina Psaki, Giustina Family Professor of Italian Language and Literature at the University of Oregon, whose presentation is titled "That Rome in Which Christ is a Roman: Rome for the Middle Ages and Dante"; and Justine Andrews, Assistant Professor of Art History at UNM, who will speak on "Art in the Age of Dante." The day will end with a workshop discussion in which Professors Kleinhenz and Psaki will introduce the participants to Internet resources on Dante and to different English translations of his Divine Comedy.

The Institute will offer its Fourth Annual Seminar on Medieval Science and Medicine on the evening of Friday, November 18 and all day Saturday, November 19. The topic this time is "Blades and Blood: Surgery and Anatomy in the Middle Ages and Beyond." The event will include five lectures: Michael McVaugh (University of North Carolina, Chapel Hill), "What Good Was Anatomy to a Medieval Surgeon?"; David A. Bennahum (University of New Mexico), "Contributions of Jewish Medicine to Medieval Science"; Ynez Violé O’Neill (University of California, Los Angeles), "Ariadne’s Thread: The Visual Tradition of Anatomy"; Katharine Park (Harvard University), "The Secrets of Women: Anatomy and Dissection in Renaissance Italy"; and William Eamon (New Mexico State University), "Stupendous Surgery and Renaissance Self-Fashioning." A panel discussion will conclude the Saturday proceedings.

The theme of the Institute’s Twenty-First Spring Lecture Series, scheduled for April 3–6, 2006, is "Medieval Innovations: How the Middle Ages Changed the Western World." The series aims to highlight fundamental cultural developments that took place during the Middle Ages, producing major advances in Western civilization that continue to have an impact. There will be six lectures: Michelle P. Brown (The British Library), "Tradition, Innovation, and the Illuminated Manuscript in the Middle Ages" and "The Lindisfarne Gospels: The Transforming Power of Sacred Text"; Michael T. Davis (Mount Holyoke College), "‘Behold I Make All Things New’: Design and Experience in Thirteenth-Century French Architecture"; C. Stephen

**Personnel**

Early in the fall semester, the Institute conducted a search to identify a Program Coordinator to replace Sara Mota, who had left in June to take up a position as a graphic designer in Switzerland. The successful applicant, Eva Lipton, assumed her duties at the end of October. Holding a Master’s degree in Theatre from the University of Cologne, Ms. Lipton is bilingual in English and German. She previously served as Program Coordinator for the New Mexico Symphony Orchestra’s Berlioz Festival. She brings significant organizational and fund-raising skills to the Institute.

Dr. Justine Andrews joined the faculty of the Department of Art and Art History at the beginning of the fall semester. A medievalist who specializes in the art of the eastern Mediterranean during the fourteenth and fifteenth centuries, Dr. Andrews is one of the Institute’s core faculty and a member of its Steering Committee. The Institute’s other core faculty, who participate in the planning of all events, are Anthony J. Cárdenas, Professor in the Department of Spanish and Portuguese; Helen Damico, Professor in the Department of English Language and Literature; Leslie A. Donovan, Associate Professor in the University Honors Program; Anita Obermeier, Associate Professor in the Department of English Language and Literature; and Jay Rubenstein, Assistant Professor in the Department of History. During the year, Jay Rubenstein was evaluated by his department and promoted to the rank of Associate Professor with effect from fall 2005; his tenure and promotion file was found to be especially strong. In spring 2005, Prof. Rubenstein was awarded the William Koren, Jr., Prize of the Society for French Historical Studies for the best article on French history published during 2004; the award honored his article “Putting History to Use: Three Crusade Chronicles in Context,” published in the journal *Viator*. Anita Obermeier received three awards during the year: an Outstanding Alumna Award from Eastern Illinois University, where she completed her M.A.; the UNM English Department’s Wertheim Lectureship, which honors a senior member of the faculty whose contributions to the department are exemplary; and UNM’s Outstanding Teacher of the Year Award.

In October, Karmen Lenz, a doctoral candidate pursuing the English Department’s Concentration in Medieval Studies, successfully defended her dissertation, “Images of Psychic Landscape in the Meters of King Alfred’s *Book of Consolation.*” In May she received UNM’s Tom L. Popejoy Dissertation Prize, a campus-wide award honoring the best doctoral dissertation in the Humanities and the Arts completed during the year. Upon the successful completion of her degree program Dr. Lenz was appointed a Research Associate of the Institute for Medieval Studies. In August she takes up a position as Assistant Professor in the Division of Humanities at Macon State College, Georgia.
Publications, Conference Presentations, and Other Professional Activities

The Institute sponsored three sessions at the Fortieth International Congress on Medieval Studies, held on the campus of Western Michigan University, May 5–8, 2005. Two sessions, organized by Anthony J. Cárdenas, focused on the fifteenth-century Spanish author, Teresa de Cartagena. The first of these sessions included papers by Ronald E. Surtz (Princeton Univ.), “Gender and Patronage: Juana de Mendoza, Teresa de Cartagena, and Íñigo de Mendoza”; Yonsoo Kim (Purdue Univ.), “The Social Construction of the Religious Body: Teresa de Cartagena”; and Paul Siegrist (Fort Hays State Univ.), “Natural Metaphors in Teresa de Cartagena’s Writings: From Didactic to Defensive.” The papers in the second session were “Writing and Voice in the Work of Teresa de Cartagena,” delivered by Sara Guengerich (UNM); “Subverting the Dominant Patriarchy: Teresa de Cartagena’s Authority in Arboleda de los enfermos,” delivered by Benito Quintana (UNM); and “Cartagena’s Literature of Unlikeness,” delivered by C. Helen Tarp (Idaho State Univ.). The third Institute-sponsored session, titled “The Oxford Saxonists” and organized by Timothy C. Graham, included four papers: Timothy C. Graham, “The Oxford Saxonists”; Sophie van Romburgh (Univ. of Leiden), “From Alfred to Sidney to Virgil: Anglo-Saxon Text and Early Modern Context”; Karmen Lenz (UNM), “ChristopherRawlinson’s Edition of King Alfred’s Meters in the Book of Consolation”; and Shannon McCabe (UNM), “George Hickes and His Thesaurus.” At the same Congress, Lia Ross, a graduate of the History Department’s Ph.D. program and the winner of the Institute’s 2004–05 Graduate Student Prize, delivered her winning paper, titled “Personal Touches: Social Styles and Control at the Burgundian Court in the Chroniques of Georges Chastellain.”

Justine Andrews presented a paper titled “Art of Identity in the Post-Crusader Mediterranean” at the Twenty-Second Annual Conference of the Illinois Medieval Association, held at Southern Illinois University in February. She received an award from UNM’s Teaching Allocations Committee that enabled her to travel to Spain and photograph buildings and artifacts that will feature in her course “Art of Medieval Spain,” to be taught in fall 2005.

Anthony J. Cárdenas delivered four presentations during the year. In August he offered “Bargaining with Beelzebub: Visualizing Satan in Medieval Spanish Literature” at the University of Auckland and the University of Waikato, New Zealand. At the annual meeting of the Modern Language Association of America, held in Philadelphia in December, he delivered two papers: “Negotiating Women: Leonor López de Córdoba and Teresa de Cartagena” and “Crossing Borders: The Pleasure of Textual and Iconic Artifice in Alfonso X’s Cantiga 16; or, The Miracle of the Lovesick Knight.” At the Fortieth International Congress on Medieval Studies held at Western Michigan University in May, he presented a paper titled “Of Dogs and Donkeys: From Juan Ruiz to Miguel de Cervantes.”

Helen Damico published her article “Reclaiming Anglo-Saxon Scholars” in Old English Scholarship and Bibliography: Essays in Honor of Carl T. Berkhout, ed. Jonathan Wilcox (Kalamazoo, Mich.: Medieval Institute Publications, 2004), pp. 23–39. She delivered four presentations during the year. In July she gave a paper titled “Eyeless in Ely: Political Parallels in Beowulf” at the conference on the Anglo-Saxon Chronicle held at the Centre for Anglo-Saxon Studies of the University of Manchester, England. She offered “Writing/Sounding the Rood” at the conference on “Dreams and Illusions” held at Claremont Graduate University in November.
At the Fortieth International Congress on Medieval Studies held at Western Michigan University in May she gave a presentation on "Exile as a Pre-Condition of Identity." She spoke on "Vikings and Viking Women" at two sessions held at the Albuquerque OASIS Center.

Leslie Donovan delivered two professional presentations in 2004–05. For the National Collegiate Honors Council Conference held in New Orleans in November she spoke on "Bright Shores, Tricky Currents: Steering the Student Publication." In April she offered "'A Light in Dark Places': The Works of J. R. R. Tolkien in the Twenty-First Century" at the Western Regional Honors Conference held in Las Vegas, New Mexico.

The Director of the Institute published his article "The Opening of King Alfred’s Preface to the Old English Pastoral Care: Oxford, Bodleian Library, MS Hatton 20" in Old English Newsletter, vol. 38:1 (Fall 2004), pp. 43–50. He also published biographies of four medieval artists (the Alexis Master, Master Hugo of Bury St. Edmunds, John Siferwas, and William de Brailes) in the Oxford Dictionary of National Biography. In February he submitted to Cornell University Press the final typescript of his book, Introduction to Medieval Studies, co-authored with Raymond Clemens of Illinois State University. The book, which has sixteen chapters and includes two hundred fifty illustrations, is due for publication in the late spring of 2006. During the Fortieth International Congress on Medieval Studies, he participated in the annual meeting of the International Advisory Board of the Richard Rawlinson Center for Anglo-Saxon Studies. In June, he reviewed a book manuscript for University of Toronto Press. Dr. Graham was featured for the first time in the 2005 edition of Who’s Who in America.

Anita Obermeier published a review of Richard Utz’s book Chaucer and the Discourse of German Philology (Turnhout: Brepols, 2002) in the journal Quidditas, vol. 23, pp. 117–20. She gave two conference presentations during the year. At the Thirty-Fourth Medieval Workshop held at the University of British Columbia, Vancouver, in November, she spoke on “Censorship in The Manciple’s Tale as Ovidian and Ricardian Metaphor”; at the eleventh annual conference of the Arizona Center for Medieval and Renaissance Studies, held in Tempe in February, she delivered “Food and Feast in Cleanliness.” Both papers have been accepted for publication. For the Tempe conference, of which the overall theme was “Feast, Famine, and Fasting: Food and Material Consumption in Medieval and Renaissance Culture,” Prof. Obermeier also organized a session titled “Glitzy Banquets in Literature and Politics.” On a visit to the University of Munich in July, she offered the university’s Gender Studies Colloquium a talk titled “Of Monarchies and Movies: Fertility and Sterility in Braveheart and The Mists of Avalon.”

Prof. Rubenstein delivered six presentations. In September, he was one of eight speakers at the inaugural Fall Lecture Series on “Islam and Europe” hosted by UNM’s International Studies Institute; the topic of his lecture was “Islam in the Medieval Imagination.” At a conference held in November to honor his dissertation director, Gerard E. Caspary, he offered “Guibert of Nogent as Historian, Reconsidered.” He delivered “The First Crusade: The Eyewitness Chroniclers Reconsidered” at the Haskins Society Conference held in Washington, D.C., in November. At the symposium on “The Rhetorics of Holy War” held at the University of California, Berkeley, in February, he spoke on “Storytelling and the Definition of Holy War in the Middle Ages.” He offered “Journey to the Center of the Earth: The Holy Land in the Chronicles of the First Crusade” at the colloquium on “Medieval Travel” held at the University of California, Santa Barbara, in February. Finally, in April he delivered an invited lecture on “Chroniclers of the First Crusade: Stories of the Clash of Cultures at the End of Time” at the University of Houston.
1. Significant developments during the academic year 2004-05

Enrollments at the undergraduate level continue to increase significantly. Four new students were admitted to the Ph.D. program, and one to the M.A. Meanwhile, two students attained their Ph.D.’s, Jessica Posniak (in the fall) and Christopher Framarin (in June), while six graduated with M.A.’s. Dr. Framarin received a joint, tenure-track appointment in Philosophy and Religious Studies at the University of Calgary, which began in July of this year.

Profs. Burgess and Taber received promotions to full professor. Prof. Thomson was granted tenure and promotion to associate professor.


After two terms (eight years) of service Prof. Russell Goodman stepped down as Chair. Prof. John Taber, who had been serving as Graduate Director, was elected to replace him. Prof. Becker was appointed to take over as Graduate Director.

The Department hired Prof. Mary Domski, who began teaching fall semester, ’05. She received her Ph.D. from Indiana University and came highly recommended from Fresno State University. She is a specialist in history of science, early modern philosophy, and Kant. She replaces Prof. Aladdin Yaqub, who resigned in fall, ’03.

The Department saw the retirement of Prof. Fred Gillette (Ted) Sturm this spring. Prof. Sturm joined the Department in the fall of 1975. He will continue teaching philosophy courses part time through spring of 2006.

The Department drew up plans for undergraduate Success and Excellence and overall program Distinction at the request of the College of Arts and Sciences.

The Department received a grant from the New Mexico State Legislature of $100,000 for the renovation and repair of the Philosophy Department.
In May the Department voted to award the Barrett Dissertation Fellowship to Mark Ralkowski and Carlos Sanchez for academic year '04-'05. Mr. Sanchez will receive half of the fellowship in the fall semester, and Mr. Ralkowski will receive half in the spring.

The Department sponsored the Summer Seminar on Buddhism at Jemez Springs in June, together with the UNM Religious Studies Program and the Rinzai-ji Buddhist organization. Over thirty-five students attended, about 20 took the course for credit. The speakers were Prof. Janet Gyatso of Harvard Divinity School, Prof. Charles Hallisey of the Department of the Languages and Cultures of Asia of the University of Wisconsin, and Prof. Lekshe Tsomo of the Department of Religious Studies and Theology of the University of San Diego.

Prof. Goodman hosted an NEH Seminar for college and university teachers in June on “Reading Emerson’s Essays,” with several distinguished invited participants, including Stanley Cavell.

As usual, the department hosted a series of visiting speakers, with the highlight being our annual Brian O’Neill Lectures in the History of Philosophy, which were given this year by Prof. Jonathan Lear of the University of Chicago. The complete list of speakers for the year, which also includes UNM faculty, is as follows:

**Dieter Schultz**, University of Heidelberg, 9/24/04 – Thoreau’s ‘Walking’ and the Method of Nature

**Fred Schueler**, UNM, 10/8/04 – Can Actions be Explained in Terms of Agents’ Reasons?

**Peter Hylton**, University of Illinois at Chicago, 10/19/04 – Beginning in the Middle: How to Read Quine

**Carl Stern**, 11/12/04 – Deliberative Democracy: From Advocacy to Inquiry

**Bernard Reginster**, Brown University, 11/19/04 – The Will to Power and the Ethics of Creativity

**Claire Katz**, Pennsylvania State University, 1/10/05 – Educating the Solitary Man: Dependence and Vulnerability in Levinas and Rousseau

**Diane Enns**, McMaster University, Hamilton, Ontario, 1/13/05 – The Violated Self and the Condition of Belonging

**Abraham Stone**, University of Chicago1/20/05 – Some Hegelian Thoughts on Mathematical Interest and the Applicability of Mathematics

**Jonathan Lear**, University of Chicago – Brian O’Neil Lecturer, 2/3/05 – How Can Irony Change the Soul?
The Department plans to replace Prof. Sturm this year by hiring a new faculty member at the assistant or associate professor level in the area of continental or ancient/medieval philosophy. The Department is in the process of determining how the $100,000 grant from the State Legislature should be spent. At this time we hope that some of the funds can be used to expand Humanities Bldg. Rm. 518, our current seminar room, into a mid-size classroom. The Departmental travel and TA budgets have been increased by the College; we still hope for an increase in our supplies and expenses budget, which has been frozen for many years. With the intention of stimulating interest in Latin American Philosophy at UNM, the Department is planning a lecture series of distinguished scholars of Latin American Philosophy for academic year ’06-’07. To augment its program in Indian philosophy, the Department will propose a nationally-advertised summer Sanskrit institute as part of UNM summer school for summer ’06.

2. Appointments to faculty/staff

Mary Domski
3. Separations from faculty/staff

Ted Sturm

4. Publications of faculty

Becker, Kelly:

“Knowing and Possessing Knowledge,” American Philosophical Quarterly, 41:1, pp. 21-36.

Burgess, Andrew J.:


Bussanich, John


Russell Goodman:


Kalar, Brent:


Scheler, G.F.:


Taber, John:


*A Hindu Critique of Buddhist Epistemology: Kumarila on Perception; the Pratyaksapariccheda Chapter of Kumarila's Slokavarttika, Translation and Commentary* (London: Routledge, 2005)

Thomson, Iain:


*Heidegger on Ontotheology* (Cambridge: Cambridge University Press, 2005)

5. **Outside professional activities of staff members**

**Becker, Kelly**


**Burgess, Andrew**

convener and chair, session of “Jon Stewart’s Kierkegaard’s Relation to Hegel Reconsidered,” American Academy of Religion national meeting, San Antonio, Texas, Nov. 2004

**Goodman, Russell**

invited talk: “James on the Nonconceptual,” Philosophy Department, University of Arkansas, Sept., 2004

invited talk: “Wittgenstein and William James,” Philosophy Department, Duke University, Feb., 2005

"Emerson and Montaigne on Experience, Surprise, and Skepticism," Conference on Philosophy, Film, and Literature, University of South Carolina, February, 2005.

paper: "Some Sources of Hilary Putnam’s Pragmatism," Society for the Advancement of American Philosophy annual meeting, Bakersfield, CA, March, 2005

**Hayes, Richard**

paper: “Pluralistic Dharmacentricity,” conference on Interfaith Perspectives on Justice and Universality, McGill University, Sept., 2004

**Schueler, Fred**

paper: “A Puzzle About the Human Theory of Motivation,” American Philosophical Association, Pacific Division, Mar., 05
invited talk: “Is It Really Possible to Follow One’s Conscience?” New Mexico State Philosophy Department, Mar., 2005

Taber, John


Thomson, Iain


6. Outside Sponsored Research

Grant from the National Endowment for the Humanities to Russell Goodman to conduct a summer institute for college and university teachers: “Reading Emerson’s Essays” ($107,000)
DEPARTMENT OF PHYSICS AND ASTRONOMY  
July 1, 2004 to June 30, 2005

Professor Bernd Bassalleck, Chair

Significant Developments

During the 04/05 academic year Associate Professor Ivan Deutsch was considered for promotion to Full Professor. This was an early and a successful promotion, and it became effective in August 2005. Also during the summer of 2005 Prof. Deutsch assumed directorship of our Center for Advanced Studies (CAS) from Prof. Sudhakar Prasad. The CAS director reports to the Dean of Arts & Sciences. In addition, Prof. Dinesh Loomba’s and Prof. Jim Thomas’ mid-probationary reviews ended positively, i.e. with a second three-year appointment for Prof. Loomba and a second two-year appointment for Prof. Thomas, who is on an accelerated tenure clock.

Last winter and spring our faculty, our Departmental Administrator, and other office staff were very busy with the selection and subsequent interview process for three new faculty members, who we had permission to search for during the last academic year. In the end we were successful in attracting and hiring two new radio-astronomers and one new experimentalist in quantum information/optics, see also the section on New Appointments below.

Reorganization and better functioning of the departmental office staff has remained a high priority and a challenge at the same time. This effort includes improved cross-training of some of our front office staff as well as continual training in and struggles with the Project LINK/Banner, an effort that is led admirably by Beth Walker, our Departmental Administrator. The operational efficiency of our entire office staff remains significantly improved over years past.

As already mentioned in last year’s annual report, the departmental overhead account became debt-free as of July 1, 2004. Needless to say, we have remained debt-free, and were able to easily fulfill our start-up commitments for our three new faculty hires this year. One older, remaining start-up obligation (for Prof. Sheik-Bahae) has by now also been taken care of, and we’re starting the new fiscal year with a healthy carry-forward, which will enable other meaningful investments in the future.

Overhead return to the department has remained healthy. For CY01/02/03/04 the departmental overhead allocations were $159k/190k/192.5k/165.5k (for CY02 and 03 the numbers represent averages, correcting a mistake in the allocation made in summer 2003). In the present very difficult funding climate (for most subfields of the physical sciences) these numbers signify at least an ongoing research vitality of our department. The remaining problem of the debt of our Institute for Astrophysics (lAfA), accumulated while reporting to Deans prior to Dean Dasenbrock, has not yet been addressed any further.
We have continued to invest in some remodel projects in our aging building. New classroom chairs for rooms 5 and 184 were purchased in summer 05 (after lengthy attempts the UNM Administration did not contribute) and our front office was outfitted with new furniture. Time permitting we are also looking more seriously into pushing harder for a new Physics & Astronomy building.

Future Plans

Our departmental Long Range Plan (mentioned in previous Annual Reports) remains 90% completed, and still needs to be formally adopted by the faculty. This plan is the most serious and most comprehensive such Long Range Plan that this department has ever undertaken. It is both a critical self-assessment document and a planning document for the next 5-10 years, including a faculty hiring plan. In addition, it is very much meant to be a living (and governing) document in the sense that the Chair and his/her Advisory Committee will be tasked with implementing this plan as well as reviewing and updating it regularly. For various reasons (three faculty searches in one year being one of them) we made essentially no progress last year, but we still hope to complete this work during the current academic year. The un-prioritized faculty hiring plan (which has been adopted by our faculty) within our Long Range Plan proved very helpful last year in eventually determining our recent faculty hiring priorities. Again this year we used it to arrive at our current top two priorities, which were forwarded to the College: a theorist (precise subfield to be determined later) and a joint position in biophysics, i.e. jointly with a department in the Medical School/Health Sciences Center or possibly with the Biology department. The former was not forwarded by the College to the Provost, but the latter, joint position remains a possibility for a search during the 05/06 year, albeit a somewhat remote possibility at this point.

New Appointments

No new faculty member was hired this year, but as already mentioned three successful faculty searches were performed. Andrew Hedges started as Webmaster (a new staff position, as mentioned last year) in August 04, and unfortunately left us in June 05. A search for a replacement is ongoing. Karlene Fabozzi (Administrative Assistant II) started in February 05, but only stayed until June 05. Daniel Sandoval (also Administrative Assistant II) started in November 04. Gary Harrison successfully completed a career ladder from General Services Assistant to Facilities Service Tech, two grade levels higher.

Separations/Retirements/Deaths

One regular faculty member retired during the summer of 2005: Prof. Marc Price. Two staff separations are listed in the previous paragraph. Emeritus Prof. Roy Thomas died on 3/18/05. He was a doctoral student of J. Robert Oppenheimer, and taught here from 1948 until his retirement in 1980.
**Graduation Statistics**

Between the summer semester 04 and the spring semester 05 the department graduated 5 BS in Physics (one woman among them), 7 BS in Astrophysics (one woman), 1 BA in Physics & Astrophysics, 7 MS in Physics (3 women), 3 MS in Optical Sciences & Engineering, 3 PhD in Physics (1 woman), and 1 PhD in Optical Sciences & Engineering (a woman). This represents a healthy graduation rate for this department. Bill Miller (Teaching Lab Supervisor) completed his Masters Degree in the Education Department in May 05.

**Outside Sponsored Research and Publications**

Research efforts in the department remain strong and vibrant. For FY05 funding for new and existing/continuation/renewal grants in the department (including Institutes and Centers housed in the department, such as the Center for Advanced Studies, the Institute for Astrophysics, the NM Center for Particle Physics, and the Consortium of the Americas for Interdisciplinary Science) amounted to $8.800 million. For comparison, the corresponding amounts for FY04 and FY03 were $6.362 million and $5.714 million, respectively. The largest single factor in the dramatic 38% increase (FY05 relative to FY04) was the first year of Prof. McGraw’s NESSI project (in astronomy) with UT Austin. Even without that project, though, research funding increased by a very strong 12.8%.

Publications in refereed journals, as well as conference contributions and proceedings, invited talks, etc. by faculty members of this department are too numerous to list here - suffice it to say that well over one hundred papers were published in refereed journals alone.

**Awards and Special Grants or Contracts**

2004/05 was a particularly good year for special awards and honors in our department:

In November 04 Prof. Sudhakar Prasad was elected a Fellow of the Optical Society of America, and Prof. Steve Brueck was elected a Fellow of the American Association for the Advancement of Science.

Prof. Carl Caves was elected a Fellow of the American Physical Society in December 2004.

In May 2005 Lecturer Kathryn Dimiduk was honored as Outstanding Adjunct Teacher/Lecturer of the Year for 2005.

Prof. Nitant Kenkre was selected as UNM’s 50th Annual Research Lecturer for 2005, and in April 2005 he was honored as one of the recipients of the 2005 UNM International Excellence Awards.

Graduate student and Teaching Assistant Mohit Adhikari received one of the 04/05
Gunter Starkey Teaching Awards in February 05. In spring 05 graduate student Jennifer Markus received a National Science Foundation Robert Noyce Scholarship. These are to encourage talented science, technology, engineering and mathematics (STEM) majors and professionals to become K-12 mathematics and science teachers. Darryl Sanchez, who graduated with a PhD in our Optical Sciences program in 1997 (and who is presently a Research Associate Professor in our department), is mentioned in the following article as being among the Top Minorities in Science:

Special Departmental Service & Outreach Contributions

Our office staff participated in Disability Mentoring Day in October 2004. Two office staff members (Sandra Ortiz and Betty Fry) and two graduate students (Joel Nunez and Ramesh Laghumavarapu participated in "Spring Storm" earlier this year. The department made various cash donations, including one to send the All Faith's organization to the Lodestar planetarium and museum. In addition, we continued our tradition of Open Houses for prospective graduate students (we fly in the best domestic applicants, expenses paid) as well as for high school students and first or second year undergraduates already at UNM. These Open Houses include research laboratory tours and interactions with various faculty members.
"The Center for Advanced Studies (CAS) is a Center of the College of Arts and Sciences of the University of New Mexico (UNM), with a mission to foster and further interdisciplinary research activities and interdepartmental collaborations in the College, and to enhance the international position of the University. Activities of the CAS include arranging workshops, inviting and hosting visiting researchers from all over the world to UNM for short periods, and promoting initiatives that create and support collaborations among the participating departments and other units at UNM. The underlying goal is to assist in furthering of research in fields that have the potential to build bridges across disciplines. The funding for these activities comes from the Dean of the College of Arts and Science and from sources external to the University." (excerpted from the Mission Statement of CAS)

SUMMARY OF ACTIVITIES DURING THE PERIOD 7/1/04 – 6/30/05

- **CAS Steering Committee** – The CAS Steering Committee members for the year 2004-2005 were Jim Brozik (Chemistry), Ivan Deutsch (Physics & Astronomy), David Gutzler (Earth & Planetary Sciences), Bruce Milne (Biology), and Vakhtang Putkaradze (Mathematics & Statistics).

Listed below are the activities and accomplishments of the Center in the past fiscal year:

- **CAS Distinguished Lecture Series** – The inaugural Annual CAS Distinguished Lecture Series was held at the University of New Mexico in Dane Smith Hall, April 26-28, 2005. The distinguished Lecturer this year was Professor Marlan O. Scully of Princeton and Texas A & M Universities. Professor Scully was the founding Director for the UNM Center for Advanced Studies between 1985 and 1992. He has been a pioneering scientist in the areas of quantum optics and laser physics over the past four decades. He has been recognized by many distinguished societies, including the prestigious National Academy of Sciences to which he was elected in 2002.

- **CAS Weekly Seminar Series** – The CAS Weekly Seminar Series featured nearly 25 speakers from interdisciplinary areas as diverse as physics, astronomy, biophysics/medical sciences, ecology, dynamic systems, and econophysics. The speakers came from a number of scholarly institutions here at UNM and abroad, including Canada, France, and Germany. Five of these seminars were held either as joint colloquia
with the Math & Statistics and Biology departments or as other joint activity with other departments, particularly Math & Statistics and Earth & Planetary Sciences. Because of its unusual breadth and scope, this seminar series is widely recognized across the College and several other schools, notably SoE and SOM, at UNM as an important interdisciplinary activity of the university.

- **SQuInT Workshop** – The UNM Center for Advanced Studies provided $2500.00 to three faculty members and ten graduate students to attend Annual SQuInT Workshop in Tucson, Arizona in February, 2005. The SQuInT organization is a local network of universities, national laboratories, and industry with the purpose to facilitate the exchange of resources - intellectual and human - amongst the node institutions.

- **Meeting Sponsorship** – The CAS gave $2500.00 for sponsorship to support the 5th Annual Unified Science and Technology for Reducing Biological Threat and Countering Terrorism workshop held March 16-18, 2005. The meeting was held in the Wyndham Airport Hotel in Albuquerque, NM. Nearly 150 people attended the event, which featured several panel discussions, nearly 30 talks and a number of poster presentations.

- **Web page development** – Administrative time and effort continues to be invested in maintaining an effective web page for the Center. This has led to a highly informative web site that features current activities of the Center, including its workshops, visitors, and seminar series. The website includes several web-based online application forms, including a speaker request form, which had been added to those for requesting CAS funds for workshops and visitors and for nominating graduate students for the Annual CAS Student Prize. The website can be found at the following address: http://panda.unm.edu/CAS/CAS.html.

- **Quarterly Newsletter** – a newsletter featuring events and accomplishments of CAS members and other informational items is posted on our web site. A new edition is published once every 3-4 months.

- **Administrative Activities** – The CAS has hired a new Administrative Assistant, Jennie R. Peer, effective May 16, 2005. She has trained with Betty Fry and has taken over the management of the CAS accounting and book-keeping responsibilities. She has taken classes on the new Banner/Link financial systems, and continues to learn more about her responsibilities. She recently helped with the Administrative needs for the recently held Laser Cooling in Solids workshop and received compliments for her excellent support.

- **CAS Student Prize** – Each year the Center awards a Student Prize, consisting of a $500 check, a citation plaque, and the distinction of delivering the Student Prize lecture at the Annual CAS Workshop. The Prize recognizes outstanding merit and accomplishments of a senior graduate student in the sciences. This year’s winner was Tomas Dohnal, a student from the Department of Mathematics and Statistics. He is well recognized in the community of applied mathematicians for his work on mathematical studies of the propagation and trapping of optical pulses in nonlinear periodic structures.
Graduate Student Research – Anita Palmar, a Graduate Student in the Physics and Astronomy Department was recently supported with a $500.00 advance to allow her to travel to Spain. While there, she will attend and present at the 6th Annual Trends in Nanotechnology 2005 Conference.

Outreach Activities – CAS also reaches beyond its traditional scientific boundaries to promote science related activities in the humanities. Among such outreach activities:

By a grant of $1,000, CAS once again supported the Institute for Medieval Studies this year. Under Prof Tim Graham’s leadership, IMS continues to organize pioneering lecture series on topics in medieval setting but of cross-cutting contemporary interest in the community. The CAS support to IMS can be regarded broadly as fulfilling the CAS mission of encouraging and supporting the humanities within the sciences and of informing the larger public of the role of the humanities in the development and progress of science.

External Grants through CAS – Active grantsmanship has been the hallmark of CAS researchers over the years. The Center has seeded many research activities that have gone on to attract substantial external funding. As Director, I have particularly tried to attract proposals from UNM researchers that have an interdisciplinary thrust. The total external grant funding to UNM under the CAS org code from a total of 11 currently active grants is about $8.2M, with these grants generating a total funding of about $2M (including capital equipment) for the year 2004-5. The total UNM overhead generated by these grants is roughly $400K/yr.

ACTIVITIES PLANNED FOR 2005-6

As of July 1, 2005 the Center for Advanced Studies will have a new Director. Professor Ivan Deutsch will step into this role. Professor Deutsch has been with the Department of Physics and Astronomy at the University of New Mexico for 10 years.

Under the outgoing director, assisted by the steering committee, the CAS has proposed holding annual summer/winter school in topical but interdisciplinary areas, much along the lines of the Kavli Institute of Theoretical Physics at the University of California at Santa Barbara. He hopes that the CAS will move forward vigorously in this respect, so its impact on education, training, and research can be extended still further at both the undergraduate and graduate levels.

Finally, the Center's current and proposed activities have been made possible primarily because of the generosity of your office in supporting it and its continually evolving mission of stimulating and fostering interdisciplinary research on the UNM campus over the past several years. It is in this interdisciplinary, inter-departmental mission that the Center has achieved excellent distinction and distinguished itself notably from many other Category I centers. As outgoing director, I sincerely hope the Center will continue to serve and thrive in that broad role and purpose for years to come.
I. SIGNIFICANT DEVELOPMENTS

A. UNDERGRADUATE PROGRAM
The department graduated 104 majors, including one student who received departmental honors: Mekoce T. Walker was awarded Summa Cum Laude. The annual commencement ceremony was hosted in the Kiva Lecture Hall and attended by over 350 students and their guests. Dr. Gilbert St. Clair was the commencement speaker.

Six Political Science undergraduate students were named to Who’s Who Among Students in American Universities. Mekoce Walker was awarded an American Political Science Association Minority Fellowship to support his graduate studies. Jesse French was named a 2005 Truman Scholar.

Pre-Law Advisor, Dr. Ellen Grigsby, worked with the College of Arts and Sciences to expand and enhance pre-law advisement services at UNM.

The department was selected as the #2 Best UNM Department in the New Mexico Daily Lobo annual Lo Mejor student survey.

B. GRADUATE PROGRAM
The department awarded a Ph.D. degree to Jeffrey M. Drope and M.A. degrees to Jeffrey Hartzell and Margaret C. Toulouse.

Awards: This year, Nancy Carrillo, Jeff Drope, Doug Hecock and Christina Schatzman conducted field research under their National Science Foundation dissertation grant awards. Eric Jepsen and Doug Hecock conducted field research under grants awarded by the Social Science Research Council. Eric Jepsen’s field research this year was also
supported by a Fulbright fellowship. Lori Tafoya received the Clogg Scholarship from the Political Methodology Section of the American Political Science Association, to attend the summer Inter-University Consortium for Political and Social Research.

In competitive awards offered by the UNM Latin American and Iberian Institute, Kimberly Nolan was a recipient of a Ph.D. Fellowship and Matthew Ingram received a Title VI Foreign Language and Area Studies Fellowship. Tiffany Berger, Nancy Carrillo, R. Douglas Hecock, and John Todsen received the New Mexico Graduate Scholars Award.


Seven new students were admitted to our graduate program for the 2004-2005 academic year. The department currently has 4 M.A. students and 28 Ph.D. students enrolled.
C. INSTITUTE FOR PUBLIC POLICY
The Institute conducted public opinion surveys and other research in key public policy areas this year, including national security and terrorism, the war in Iraq, education reform, childcare, and judicial change of venue studies. Sandia National Laboratories, the Texas A&M Research Foundation, the Middle Rio Grande Council of Governments, the New Mexico Health Policy Commission, the New Mexico Commission for Deaf and Hard of Hearing, New Mexico Advocates for Children and Family, the New Mexico Developmental Disabilities Council, and others continue to provide funding.

Institute Director and Political Science Research Professor Roger L. Hagengruber, who serves as director of UNM's Office for Policy, Security and Technology at UNM, soon plans to retire and the department is conducting a study on potential future plans for the IPP.

D. SPEAKERS
The following faculty and graduate students gave presentations in the department's colloquium speaker series: Michele Leiby, Matthew Ingram, Kimberly Nolan, John Todsen, and Fred Harris. Political Science also sponsored speakers in interdisciplinary colloquia with the department of English and International Programs.

E. INTERNSHIPS
93 undergraduate students were placed as interns in public agencies, political campaigns, offices of elected officials, and voluntary organizations in Political Science 291/491 Internship classes this year. Under the direction of Professor Ellen Grigsby, the students gained practical experience in the application of political science theories while receiving course credit. Twelve other students were placed in internships with the New Mexico State Legislature, working under the close supervision of Professor Gilbert K. St. Clair. The students were unanimous in their praise of the internship as a learning experience and the legislators were impressed by the maturity and professional skills that the interns displayed. The department's Legislative Internship Program began in 1984 and receives support from the College of Arts and Sciences as well as the University. The program provides a unique opportunity for our students to observe the policy-making
process and for the University to showcase our students to the Legislature.

F. SCHOLARSHIPS AND FELLOWSHIP AWARDS
The department awarded nine undergraduate scholarships and two graduate research fellowships this year.

G. RESEARCH CONTRACTS AND GRANTS
The department’s total in active and pending contracts and grants is $980,000, including on-going studies funded by the Hewlett and Ford Foundations of pioneers in global population policy and gender and multicultural leadership.

H. FACULTY HONORS AND APPOINTMENTS
Mark Peceny and Kenneth Roberts were appointed Gallegos Lecturers in Political Science for 2004-2005. William Stanley received a Regents’ Lecturer in Arts and Sciences award for the 2004-2007 term. Mark Peceny served the second year of his Regents’ Lectureship appointment. F. Chris Garcia was named Honorary Commander by the New Mexico Air National Guard, and received the Bernard S. Rodey Award for Educational Leadership by the UNM Alumni Association.

II. SIGNIFICANT PLANS
A. CURRICULUM DEVELOPMENT
Beginning with the Fall semester, part-time instructor Fernando Garavito taught a Latin American Politics course based on his personal experiences as a journalist in Colombia. The course was offered for graduate credit and was taught completely in Spanish. After restructuring our methods curriculum, Lonna Atkeson taught a new course in introductory statistics at the M.A. level and Wendy Hansen taught a new course in advanced statistical analysis at the Ph.D. level.

B. RECRUITMENT
We are recruiting for a Latin American Politics and/or Comparative Politics position for
next year, and plan to recruit for our additional vacancies when authorized to do so. The department recruited a Lecturer to teach introductory courses and to serve as Undergraduate Advisor this year.

III. APPOINTMENTS TO FACULTY/STAFF

Ellen Grigsby, Lecturer III, effective August 1, 2004

IV. SEPARATIONS OF FACULTY/STAFF


V. PUBLICATIONS


“Red, Orange, Green or Gray? Shades of Political Succession in Central Asia.” The Analyst (SAIS Institute for the Study of Central Asia and the Caucasus) (January 12, 2005)


Benjamin Goldfrank – *The Left in the City: Participatory Local Governments in Latin America*, co-edited with Daniel Chavez (London: Latin American Bureau and Transnational Institute, 2004).

Chapters: “The Difficulties of Deepening Democracy: La Causa R Meets Caracas the Horrible,” “Conclusion: The End of Politics or a New Beginning for the Left?” Published in Spanish as *La izquierda en la ciudad: Participación en los gobiernos locales de América Latina* (Barcelona: Icaria and Transnational Institute, 2004).

Revised edition published in Italian, with Giovanni Allegretti, as *La sinistra e la città: Partecipazione nei governi locali dell'America Latina* (Firenze: Caminito Editrice and Transnational Institute, 2005).


VI. NOTEWORTHY OUTSIDE PROFESSIONAL ACTIVITIES OF FACULTY

**Department editorial board memberships**

- American Politics Research
- American Review of Politics
- Central Eurasian Studies Review
- International Studies Quarterly
- Journal of Central Asian Studies
- Journal of Latin American Politics and Society
- Latin American Research Review
- National Political Science Review
- Policy Studies Journal
- Political Research Quarterly
- 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 Nomination Committee Chair, Southwestern Political Science Association, and as Member, Charles Redd Paper Committee and Political Parties Program Committee, Western Political Science Association.

- **F. Chris Garcia** served on the Committee on Endowments, American Political Science Association, and as Consultant-Evaluator for the Commission on Institutions of Higher Education, North Central Association of Colleges and Schools, and the Western Association of Schools and Colleges.

- **Gregory Gleason** served as President of the Central Eurasian Studies Society. He was a member of the Executive Committee of the Section on Post-Communist States in International Relations, International Studies Association, and served as Secretary/Treasurer of the Section.

- **Wendy Hansen** served as Chair, Political Economy Dissertation Awards Committee, American Political Science Association Annual Meeting, August 2003.

- **Timothy Krebs** served as Urban Politics Division Chair of the 2003 American Political Science Association Program Committee and as a member of the Executive Council of the Urban Politics Section of the American Political Science Association.
Deborah McFarlane served on the Executive Councils of the Federalism and Intergovernmental Relations Section and the Public Policy Section of the American Political Science Association.

Christine Sierra served on the Task Force on Hispanic Issues, appointed by Reed Dasenbrock, Interim Provost, University of New Mexico, Department of Political Science, Faculty Search Committee in Latin American Politics, Department of Political Science, Chair, Graduate Admissions Committee, 2005-2006.


Gilbert St. Clair served as Treasurer for the Western Political Science Association.

Joseph Stewart served as Vice-President of the Southwestern Social Science Association and as Chair of the Editorial Policies Committee.

Selected invited presentations by faculty
Gregory Gleason — “Structural Reform in Central Asia.” Plenary Session Address, Central Eurasian Studies Society, Harvard University, October 2003.

Fred Harris — Principal Address, Oklahoma Political Science Association Annual Conference, University of Central Oklahoma, November 2003.


“International Interventions and the Promotion of Democracy,” Conference on Democracy from the Outside, Co-Sponsored by Uppsala University and the Folke Bernadotte Academy, Uppsala University, Sweden, November 11, 2004.


Other professional activities off-campus or community and public service
Lonna Atkeson was interviewed on “University of New Mexico Showcase,” KUNM radio, in March 2004 during Women’s History Month and served as a member of the New Mexico Advisory Commission for the Help America Vote Act.
Christopher Butler served as Guest Editor for a special issue of *Conflict Management and Peace Science* on “Formal Theories of Bargaining in International Relations.”

F. Chris Garcia served on the Board of Directors, Think New Mexico; Board of Directors, National Hispanic Cultural Center, (gubernatorial appointment); and conducted interviews with more than 100 international, national and local media on the 2004 elections.

Gregory Gleason served as Faculty Associate, Center for Middle Eastern Studies at the University of Chicago, as Governance Specialist for the Asian Development Bank, and as Research Advisor to the Fulbright Senior Specialist Program of the Council for International Exchange of Scholars.

Wendy Hansen served as Grant Referee for the National Science Foundation.

Fred Harris served as 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, a member of the National Governing Board of Common Cause and a member of the Board of Directors of the Common Cause Education Foundation.

Neil Mitchell served as Comparative Government faculty consultant for The College Board/Advanced Placement.

Mark Peceny was interviewed on *The Current*, Canadian Broadcasting Corporation radio network in October 2004.

Kenneth Roberts was President of the Board of Directors of Re-Visioning New Mexico and served as a member of the Carter Center’s Election Observation Delegation to Venezuela in November 2004.

Christine Sierra was a guest panelist on “Executive Choice: New Mexico’s Presidential Caucus,” an In Focus broadcast on KNME TV-5 (PBS) in January 2004. She was a Visiting Professor, Fall 2003 and June 2004, at the Center for American Women and Politics, Eagleton Institute of Politics, Rutgers University, and in 2003-2004, served as a consultant to the Eleccion Latina Planning Committee, a national project to increase participation of Latina women in U.S. electoral politics. She served on the Social Sciences and History Examination Committee for The College Board/Educational Testing Service.


Joseph Stewart was Chief Faculty Consultant, Advanced Placement Government and Politics Examination, for the Educational Testing Service, and participated in Advanced Placement American Government Teachers’ Institutes at Rice University, Texas Christian University, and UNM. He served as a member of The College Board’s Advanced Placement College and University Policy Task Force and as a judge for the CLEP American Government Standard Setting, Educational Testing Service.
Served on departmental, college, or university committees or held administrative positions outside the department

Lonna Atkeson served as chair of the department’s American Politics/New Mexican Politics Lecturer III Search Committee and on the Executive Committee.

Christopher Butler served as President of the UNM Chapter of Phi Kappa Phi and as temporary Chair of the university’s International Affairs Committee.

F. Chris Garcia served as UNM Institutional Representative for The College Board.

Benjamin Goldfrank served as a member of the UNM Latin American and Iberian Institute’s Operations Committee.

Wendy Hansen served as a member of the department’s Graduate Committee and the College of Arts & Sciences Promotion and Tenure Committee. She also was National Science Foundation Political Science Advisory Panel member and Grant Referee.

Fred Harris chaired the department’s Undergraduate Committee.

Timothy Krebs served on the department’s Undergraduate Committee and Executive Committee.

Deborah McFarlane served as President of the American Association of University Professors (UNM Chapter) and as Managing Editor of the AAUP Newsletter at UNM. She served as Faculty Advisor for the Phi Beta Kappa Chapter at UNM.

Neil Mitchell served on UNM’s European Studies Committee and on the Associate Provost’s Distinguished Professor Review Committee. He served as a member of the department’s Executive Committee and the IPP Steering Committee.

Mark Peceny served as Chair of the department, was a member of the Graduate and IPP Steering Committees and was Coordinator of the UNM Political Science/Sandia Labs Externship program. He was on the university’s Faculty Senate Library Committee, the Academic Freedom and Tenure Committee, the International Studies Institute Board and was the UNM Rhodes Scholarship Program Representative. He chaired the Latin American and Iberian Institute’s Operations Committee. He was Faculty Sponsor for the UNM Intelligence Studies Club, the Students for Clean Energy Club and served as a choir director at the St. Thomas Aquinas Newman Center.

Kenneth Roberts served as Chair of the department and as a member of the Policy Committee for the Latin American and Iberian Institute.

William Stanley served as Interim Director of the UNM Latin American and Iberian Institute and chaired the Grants and Awards Committee for the Institute. He served on the department’s Graduate Committee.
Gilbert St. Clair served as the department’s Undergraduate Advisor and on the department’s Undergraduate Committee.

Joseph Stewart served on the department’s IPP Steering Committee.

VII. SPONSORED RESEARCH

VIII. OUTSIDE-SPONSORED RESEARCH

Deborah McFarlane, Hewlett Foundation, $300,000, Title: Learning from Experience: Accounts and Documents from Population Pioneers.

Christine Sierra, Ford Foundation, $680,000. Title: Gender and Multicultural Leadership: The Future of Governance.
ANNUAL REPORT
2004-2005
DEPARTMENT OF PSYCHOLOGY
Ronald A. Yeo, 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 d'être: 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 the 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.
I. Department Information and Achievements

A. Departmental Administration and Structure

The Department continued with the administrative structure adopted in 1995. Ronald Yeo began serving as Chair on 5/15/04. The Department’s major administrative committee, the Planning and Policy Committee, consisted of the Department chair, the associate chair for graduate education, Steven Gangestad, the associate chair for undergraduate education, Gordon Hodge, and the heads of the Department’s five areas of study. These areas and their respective heads were: Clinical (Michael Dougher), Learning and Cognition (Timothy Goldsmith), Evolutionary/Developmental (Steven Gangestad), Quantitative (Harold Delaney), and Behavioral Neuroscience (Claudia Tesche). To facilitate planning and organization, three new procedures were established. All general faculty meetings were scheduled at the beginning of the semester. The week before each general faculty meeting, the Policy and Planning Committee met to discuss relevant agenda items. Also, minutes from general faculty meetings were typed and distributed.

As in past years, the governance and functioning of the Department relied heavily on a number of faculty members who served effectively on important departmental committees. Particularly noteworthy was the very important and time-consuming work of the Graduate Admissions Committee (chaired by Jane Smith). The Graduate Admissions Committee was faced with the task of selecting the very best applicants from a pool of 175. Outstanding
graduate students are essential to any good research department, and the Admissions Committee is to be commended for its work in recruiting an impressive class of new students.

The faculty noted with great sadness this year the passing of two Emeriti Professors, Drs. Frank Logan and Robert Grice. Dr. Logan founded the modern Psychology Department, and our building is named in his honor. His passion for psychology, in particular the psychology of learning, shaped the structure of the Psychology Department and established a shared commitment to teaching that persists to this day. Dr. Grice was an eminent cognitive psychologist widely known for this research on information processing.

Two faculty members retired this past year, Drs. John Gluck and Lynette Cofer. They each made enormous contributions to the Department over the years and will be greatly missed.

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. Michael Dougher serves as faculty advisor to the Quad-L.

B. Faculty

At the beginning of the academic year, the Department had 22 voting faculty (21.5 FTE), including William Miller, who is supported by a senior Research Scientist Award from NIAAA. Dr. Theresa Moyers continued as part-time visiting faculty to cover Dr. Miller’s teaching load. Paul Amrhein (included among voting faculty) spent a year on leave and was granted a request for an additional year of leave, owing to his wife’s ill health. Professor Amrhein notified the
Department on February 1, 2005 he had decided he could not return to UNM due to his family circumstances.

Two new experimental faculty members were hired at the Assistant Professor level in AY 2004-2005, Derek Hamilton and Eric Ruthruff. Dr. Hamilton received his Ph.D. from the University of New Mexico in 2002, and Dr. Ruthruff received his Ph.D. from the University of California, San Diego, in 1995. Dr. Hamilton's research interests lie in the area of learning and memory, brain plasticity, and psychopharmacology. Dr. Ruthruff explores issues in cognitive psychology, with a special interest in complex attention skills. The Psychology Department also hired two new clinical faculty. Dr. Theresa Moyers (UNM, 1995), who has worked as a Research Fellow at CASAA for many years, joined us as a .5 FTE Assistant Professor. Dr. Kamilla Venner (UNM, 1999) will be a .25 FTE Visiting Professor for 2005-2006 and 2006-2007. Dr. Venner is also a Research Fellow at CASAA. These new clinical hires greatly increase our ability to offer graduate and undergraduate training in the area of alcohol problems and addictive behaviors. Additionally, we hired Steven Alley as a Lecturer II. Mr. Alley was previously recognized as Teacher of the Year at UNM.

The research activities of the faculty are summarized in Appendices A-C. It is particularly noteworthy that this year our extramural funding exceeded 7,187,187 million dollars (see Appendix B). This is certainly an extraordinary accomplishment, both in terms of the absolute level of funding achieved for a department of our size and in terms of the breadth of topics under study. We are hopeful that we can continue this high level of funding in the future. Appendix C provides a list of faculty and a list of their publications for the year. Clearly our faculty continues 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.

At the request of the Dean of Arts and Sciences the Psychology Department completed a comprehensive “Plan for Distinction.” This document (attached as Appendix H) reviews our areas of greatest strength (Addictions, Cognitive Neuroimaging, Evolutionary Psychology) and outlines our plans to develop each of these areas further.

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. Indeed, Professor McDaniel’s departure in 2004 was partly related to salary matters. The salaries of some of our faculty are as much as 20% below national and regional norms. The situation was essentially unchanged with the salary increases this year. It will take several successive years of substantial salary increases before our faculty is compensated at a level comparable to their peers. While this problem is fully acknowledged by the central administration, 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. Foremost among these are our three visiting faculty members: Janis Anderson, Jose Navarro Guzman, and Theresa Moyers.
For 2004-2005 the Department added Kamilla Venner to our list of research faculty. Research faculty status is granted to individuals who have excellent research records, provide research opportunities for our students, and receive extramural funding. Three 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.

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 D.

C. Graduate Education

Our American Psychological Association (APA) accredited Clinical Psychology program was reviewed this year. After submitting a detailed self-study in May of 2004, a three-member team from APA visited UNM in November of 2005. Our program was granted full accreditation for a three-year period. The strengths noted included the quality of the faculty and the graduate students, as well as the intellectual climate of the Department. Suggested areas of improvement were better monitoring of student outcomes, a more programmatic effort for including
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.

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multicultural issues across the curriculum, and space problems in the Psychology Department Clinic.

79 graduate students are currently enrolled in the Department. This year, the Department awarded 9 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 E. This brings the total of Ph.D. degrees awarded by the Department to 328. In addition, the Department awarded 13 Master of Science degrees this year. These degree recipients along with the titles of their theses and faculty advisors are also listed in the second half of Appendix E. The graduate program remained relatively unchanged from the previous six years. However, much discussion was devoted to a new Clinical Curriculum that will be phased in starting in the Fall 2005 semester.

The faculty used the criteria and guidelines that were revised five 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 Department received 175 highly qualified applicants to the graduate program for AY 2004-2005. Fortunately, the Department was able to provide some financial support to 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 received aid in our Department worked as teaching assistants (TAs). This
presented a problem because the ratio of the number of courses needing TAs to the number of TAs funded creates an excessive workload for our TAs. The Department simply has not received sufficient TA/GA funding to cover its needs. 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 recruiting the best graduate students. Another emerging problem is difficulty in covering tuition for our graduate students who are supported through other mechanisms than our TA/GA budget.

In the face of all of this, the Graduate Admissions Committee under the leadership of Jane Smith continued its efforts to attract the very best applicants to our graduate program. Its efforts paid off in that we were able to admit fifteen very good students to our program this year. These students, their areas of study, and their advisors are listed in Appendix F.

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 Psychology Department had a total of 685 majors, which makes it the department with the second highest number of majors in the College of Arts & Sciences. This is a 12% increase over last year. The Biology Department ranks first with 734 majors. However, the Psychology Department has a ratio of 30.6 majors per faculty member, compared to the Biology Department, which has 17.9 majors per faculty member. 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 flagship for quality education in our Department remains our Psychology Honors Program, which has been in existence for 30 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 G lists our 2004-2005 honors students along with the titles of their theses and the names of their faculty supervisors. Harold Delaney continued as the instructor for the junior honors seminar, and Michael Dougher was the senior honors instructor. By all accounts, student presentations were excellent.

For the 15th consecutive year, the Department hosted a spring commencement ceremony for its graduating students. The commencement address was delivered by Professor John Gluck, who retired after this past academic year. The Department also honored Dr. Lynette Cofer, who also retired this year. This continued the tradition of having a senior faculty member in the Department deliver the commencement address. Previous addresses have been delivered by Michael Dougher, Frank Logan, William Gordon, Samuel Roll, John Gluck, Henry Ellis, William Miller, Kristina Ciesielski, Mark McDaniel, Dennis Feeney, Richard Harris, Robert Sutherland, Harold Delaney, and Lynette Cofer. 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 $5,000) 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. Staff

The Department of Psychology continues to benefit from an extremely competent support staff. The core administrative support staff (Candace Blashak, Stan Bennett, Trish Aragon, Elise McHugh, and Mary Justus) 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. Candace Blashak (Department Administrator) and Stan Bennett (Department Financial Administrator) are very experienced and capable administrators. Elise McHugh and Mary Justus efficiently deal with the myriad day-to-day jobs required of a large department with many graduate and undergraduate students. Trish Aragon expertly advises students, helps organize teaching schedules, and manages all communications with the Office of Graduate Studies (OGS). 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, 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.

The success of the Psychology Clinic is due in large measure to the administrative skills of Dan Matthews, who completed his 15th year as Clinic Staff Director this spring. Dan continues to be effectively assisted in his duties by Wanda Sharts, the Administrative Assistant.
F. Space

As has been highlighted in the Department’s Annual Report for the past fourteen years, our Department is not well accommodated by its current space allocation. We need a new building or a significant addition to the existing building. Currently, we have insufficient staff space in order to function optimally, and more importantly, insufficient research laboratory space. Unfortunately, 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. 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 an addition has been acknowledged on the University’s Capital Projects list. As noted earlier, our American Psychological accreditation review specifically noted the inadequacies of the Psychology Department Clinic. These space issues remain a priority for our long-term development.
## APPENDIX A

### DEPARTMENT OF PSYCHOLOGY SUMMARY STATISTICS

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APPENDIX B

DEPARTMENT OF PSYCHOLOGY CURRENT OUTSIDE-SPONSORED RESEARCH

AMOUNTS THAT INCLUDE THE CURRENT YEAR 2004-2005

Catherine Baca—Principal Investigator

National Institutes of Health (NIH); “Primary Care Intervention”; $149,729.91; 9/1/03-8/31/06

Vincent Clark—Principal Investigator

National Institute on Drug Abuse/National Institutes of Health (NIH)/United States Department of Health & Human Services (DHHS); $1,202,689; 9/30/01-6/30/06

Harold Delaney—Principal Investigator

Metanexus Institute; $54,087.05; 6/1/03-9/30/05

Steven Gangestad/Randy Thornhill—Principal Investigator

National Science Foundation; “Genetic Conflicts of Interest, Fluctuating Asymmetry, and the MHC”; $340,883; 08/01/02-07/31/06

Timothy Goldsmith/Peder Johnson—Principal Investigator

Federal Aviation Administration (FAA); “Training and Assessing Aircrew Skills: Methods to Achieve Reliable and Valid Performance Data”; $180,000; 01/28/05-05/31/06

Nancy Handmaker/William Miller—Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “Motivating Pregnant Problem Drinkers”; $341,626; 09/27/99-06/30/05

William Miller—Principal Investigator

National Institute on Drug Abuse (NIDA); “Moving MI into Practice”; $60,374.17; 9/30/99-8/31/04

University of North Carolina; “Behavioral Pharmacologic”; $-11,085.85; 9/1/99-8/31/04

University of North Carolina; “Behavioral Pharmacologic”; $70,204.84; 9/1/99-8/31/04

Behavior Therapy Association; “SBIR”; $0; 1/1/01-8/31/04
University of Notre Dame; $-415.61; 6/8/00-8/31/04

National Institute on Drug Abuse (NIDA); “Clinical Trial Network”; $590.73; 10/1/02-8/31/07

National Institute on Drug Abuse (NIDA); “Clinical Trial Network”; $0; 9/1/03-8/31/07

National Institute on Drug Abuse (NIDA); “Clinical Trial Network”; $1,623,101.09; 9/1/03-8/31/07

New Mexico Department of Health; “Amity”; $0; 6/1/02-6/30/07

Johnson Foundation; $95,892.26; 12/15/03-12/14/06

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “Combine Year 6”; $0; 9/30/97-8/31/03

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “Combine Year 7”; $22,770.27; 9/1/03-8/31/06

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “Combine Year 8”; $165,694.98; 9/1/04-8/31/06

Theresa Moyers—Principal Investigator

University of Texas; $0; 9/26/02-8/31/04

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “How does MI Reduce Alcohol?”; $170,353.95; 9/16/02-8/31/05

Department of the Army; “MI in Prevention of Alcohol Abuse”; $230,342.33; 7/26/01-7/25/05

Natasha Slesnick—Principal Investigator

National Institute on Drug Abuse (NIDA); “Treatment Runaway”; $0; 9/1/98-7/31/03

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “Family Therapy Runaway”; $16,563.64; 9/28/98-8/31/04

National Institute on Drug Abuse (NIDA); “Outcome of CRA with Homeless”; $528,601.01; 9/30/01-8/31/06

National Institute on Drug Abuse (NIDA); “Outcome of CRA with Homeless”; $0; 9/30/01-8/31/03
Center for Substance Abuse Treatment (CSAT); “Evaluation of Adult Ment. with Homeless”; $1,739; 9/30/01-5/29/04

Center for Substance Abuse Treatment (CSAT); “Expanding Svc Runaways Estar”; $631,249.37; 10/1/02-9/29/05

National Institute on Drug Abuse (NIDA); “Treatment Outcome for Runaway”; $19,647.96; 9/5/03-6/30/04

Jane Ellen Smith/Robert Meyers—Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “CRA and Enhanced Job Training for Homeless Women”; $323,775.45; 08/01/01-07/31/06

Claudia Tesche—Principal Investigator

MIND Institute; “Magnetoen Cephalographic Studies of Information Processing in Normal Subjects”; $133,826; 1/1/05-12/31/06

J. Scott Tonigan—Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “AA Practices–Match”; $0; 9/30/00-8/31/03

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “Combine ECO Study”; $67,779.08; 8/2/00-7/31/06

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “Change Mech. in AA”; $112,367.86; 9/1/01-8/31/06

Fetzer Institute; $590.73; 1/1/02-12/31/04

United States Department of Health & Human Services (DHHS)/National Institute on Drug Abuse/National Institutes of Health (NIH); “A Transtheoretic Model”; $166,601.01; 4/15/04-3/31/06

Kamilla Venner—Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); “Cult Appropriate Treatment”; $117,634.29; 9/30/02-8/31/07
Michael Villanueva—Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Zuni Pueblo Veteran Project"; $121,533.61; 3/15/01-7/31/06

Ronald Yeo—Principal Investigator

National Institute of Neurological Disorders and Stroke/National Institutes of Health (NIH); "Brain Metabolism & Traumatic Brain Injury in Children"; $367,029; 10/01/02-04/30/05
AMRHEIN, PAUL C.

BUTLER, KARIN M.


CIESIELSKI, KRISTINA T.


CLARK, VINCENT P.


COFER, LYNETTE


DELANEY, HAROLD D.


DOUGHER, MICHAEL J.


ERICKSON, SARAH


GANGESTAD, STEVEN W.


GLUCK, JOHN P.

GOLDSMITH, TIMOTHY E.


HODGE, GORDON K.


MILLER, GEOFFREY F.


**MILLER, WILLIAM R.**


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SMITH, BRUCE W.


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TANG, AKAYSHA C.


TESCHE, CLAUDIA D.


VERNEY, STEVEN P.


WITHERINGTON, DAVID C.


YEATER, ELIZABETH A.


YEO, RONALD A.


## DEPARTMENT OF PSYCHOLOGY COLLOQUIA AY 2004-2005

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| **John Dencoff**  
Department of Psychology  
University of New Mexico | "Training workshop for new human-subject research experiments system"  
September 3, 2004 |
| **Kate Krause, Ph.D.**  
Department of Economics  
University of New Mexico | "The economic behavior of children and adolescents: Ultimatum bargaining"  
September 10, 2004 |
| **Michael Weisend, Ph.D.**  
Department of Psychology  
University of New Mexico | "Working memory and moving pictures: An update"  
September 17, 2004 |
| **Derek Hamilton, Ph.D.**  
Department of Psychology  
University of New Mexico | "Some divergent thinking about the prefrontal cortex"  
September 24, 2004 |
| **Richard Haier, Ph.D.**  
Department of Pediatrics  
University of California, Irvine | "Brain imaging and the neuroanatomy of intelligence"  
October 7, 2004 |
| **Bruce Smith, Ph.D.**  
Department of Psychology  
University of New Mexico | "Journey into the emotional brain: fMRI and more"  
October 22, 2004 |
| **Jessica Goodkind, Ph.D.**  
Center for Health Promotion and Disease Prevention  
University of New Mexico | "Promoting refugee well-being: A community-based advocacy & learning intervention model"  
October 29, 2004 |
| **Elizabeth Yeater, Ph.D.**  
Department of Psychology  
University of New Mexico | "Are men really from Mars and women from Venus? A reexamination of misperception theory"  
November 5, 2004 |
| **Nariman Arfai, M.S.**  
Department of Psychology  
University of New Mexico | "Consequences of psycho-pharmacological suppression on adult hippocampal neurogenesis"  
November 19, 2004 |
David Witherington, Ph.D.
Department of Psychology
University of New Mexico

"How to prepare a research protocol for the IRB"
February 4, 2005

Courtney Dornburg, M.S.
Department of Psychology
University of New Mexico

"Cognitive interview components and their application to academic settings: AKA how to take a test when you haven't studied"
February 11, 2005

Ben Klein, Ph.D.
Lovelace Medical Center

"Acceptance and commitment therapy: The third wave of behavior therapy"
February 28, 2005

Laura Dane, M.S.
Department of Psychology
University of New Mexico

"Within-sex differences in jealousy and other 'sex differential' tests: The role of prenatal testosterone and developmental instability"
February 25, 2005

Brandi Fink
Department of Psychology
University of New Mexico

"New directions in the treatment of domestic violence"
March 11, 2005

Kristina Ciesielski, Ph.D.
Department of Psychology
University of New Mexico

"Development of brain subsystems mediating top-down control: fMRI studies of categorization"
March 25, 2005

Marnie LaNoue, M.S.
Department of Psychology
University of New Mexico

"Attention to emotional faces and social intelligence"
April 1, 2005

Mark H. Pedrotty, Ph.D.
Pediatrics, Carrie Tingley Hospital
UNM, Health Sciences Center

"The Rorschach as a neuropsychological test"
April 8, 2005

Sharon Kernen, M.S.
Department of Psychology
University of New Mexico

"The neurometabolite peaks and valleys of MRS"
April 15, 2005
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<td>Vince Clark, Ph.D.</td>
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<td>&quot;MIND matters: Resources, ongoing projects and how to get access to the MIND Institute&quot;</td>
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<td>&quot;Variance in neurometabolism after traumatic brain injury in children&quot;</td>
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<td>Teddy D. Warner, Ph.D.</td>
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<td>&quot;Learning to discern ethical problems in human studies: An experimental test of two brief educational interventions&quot;</td>
<td>May 13, 2005</td>
</tr>
</tbody>
</table>
APPENDIX E

DOCTORAL DEGREES AWARDED AY 2004-2005

DEPARTMENT OF PSYCHOLOGY

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE OF DISSERTATION</th>
<th>ADVISOR</th>
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<tbody>
<tr>
<td>Courtney Domburg</td>
<td>“Cognitive Interview Components and Their Application to Academic Settings”</td>
<td>Mark McDaniel, Ph.D.</td>
</tr>
<tr>
<td>Sharon Flicker</td>
<td>“The Relationship Between Ethnic Matching, Therapeutic Alliance, and Treatment Outcome with Hispanic and Anglo Adolescents in Family Therapy”</td>
<td>Sarah Erickson, Ph.D.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Holly Waldron, Ph.D.</td>
</tr>
<tr>
<td>Nicole Gendler-Martin</td>
<td>“Social Referencing and the Development of Emotional Understanding in Infancy”</td>
<td>David Witherington, Ph.D.</td>
</tr>
<tr>
<td>Dave D. Hochstein</td>
<td>“Automatic Acquisition for Location: Mapping the Boundary Conditions”</td>
<td>Mark McDaniel, Ph.D.</td>
</tr>
<tr>
<td>Aimee C. Knupsky</td>
<td>“Language Selection Specificity: An Examination of Bilingual Factors and Their Effect on Language Production”</td>
<td>Paul Amrhein, Ph.D.</td>
</tr>
<tr>
<td>Andrea Sherwood</td>
<td>“Neuropsychological Test Performance Among Navajo Native Americans: A Normative Sample”</td>
<td>Ronald A. Yeo, Ph.D.</td>
</tr>
<tr>
<td>Daniel Squires</td>
<td>“Diffusing a PC-Based Intervention for Problem Drinkers”</td>
<td>William Miller, Ph.D.</td>
</tr>
<tr>
<td>Birgit Vigil</td>
<td>“Development and Validation of Empowerment for Individuals Suffering from Eating Problems”</td>
<td>Jane Ellen Smith, Ph.D.</td>
</tr>
<tr>
<td></td>
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<td>Richard Harris, Ph.D.</td>
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<tr>
<td>Paula Wilbourne</td>
<td>“An Empirical Basis for Treatment of Alcohol Problems: A Methodological Meta-Analysis”</td>
<td>William Miller, Ph.D.</td>
</tr>
<tr>
<td>NAME</td>
<td>TITLE OF THESIS</td>
<td>ADVISOR</td>
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<tr>
<td>Katherine Goold Akers</td>
<td>“Effects of Neonatal Novelty Exposure on Task-directed Attention and Success in Competition”</td>
<td>Akaysha Tang, Ph.D.</td>
</tr>
<tr>
<td>Ana Bisono</td>
<td>“Religiosity and Spirituality Among Psychologists”</td>
<td>William Miller, Ph.D.</td>
</tr>
<tr>
<td>Lisa Dalen Hetter</td>
<td>“The Relationship Between Implicit Meaning, Personal Meaning, and Spirituality on Negative Life Events and Psychological Adjustment”</td>
<td>Sarah Erickson, Ph.D.</td>
</tr>
<tr>
<td>John Dencoff</td>
<td>“Neuropsychological, Neuroanatomical, and Neurochemical Correlates of Vascular Dementia”</td>
<td>Ronald A. Yeo, Ph.D.</td>
</tr>
<tr>
<td>Rebecca England</td>
<td>“Psychopathy and Emotion Dysfunction: An FMRI Study”</td>
<td>Vincent Clark, Ph.D.</td>
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<tr>
<td>Sarah Feldstein</td>
<td>“The Relationship Between Coping, Defense, Distress and Adjustment in Early Adolescence”</td>
<td>Sarah Erickson, Ph.D.</td>
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<tr>
<td>Alyssa Forcehimes</td>
<td>“Spiritual Transformations in Alcoholics Anonymous”</td>
<td>William Miller, Ph.D.</td>
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<tr>
<td>Stacey Hendrickson</td>
<td>“Analysis of Multitrait-Multimethod Data: An Investigation of Confirmatory Factor Analysis with Ordinal Indicators”</td>
<td>Timothy Goldsmith, Ph.D.</td>
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<tr>
<td>Sharon Kernen</td>
<td>“Relationships Between Measures of Developmental Instability, Neurometabolism, and Intelligence in a Normal Sample”</td>
<td>Ronald A. Yeo, Ph.D.</td>
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<tr>
<td>Jennifer Knapp-Manuel</td>
<td>“Dynamics of Coping in Substance Abusing Families”</td>
<td>William Miller, Ph.D.</td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Author</td>
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<tr>
<td>Denise Lash</td>
<td>“Multiple Functions of Obligatory Exercise in Females with Poor Body Image”</td>
<td>Jane Ellen Smith, Ph.D.</td>
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<tr>
<td>Matthew Sutherland</td>
<td>“Reliable Detection of Ipsilateral Primary Somatosensory Cortex Activation Following Median Nerve Stimulation: Blind Source Separation of EEG Data”</td>
<td>Akaysha Tang, Ph.D.</td>
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<tr>
<td>Maria Isabel Villarreal</td>
<td>“The Relationships Between Family Communication Patterns and Adolescent Behavioral Outcomes”</td>
<td>William Miller, Ph.D.</td>
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APPENDIX F

GRADUATE STUDENTS ACCEPTED FOR AY 2004-2005

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADVISOR</th>
<th>AREA</th>
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</thead>
<tbody>
<tr>
<td>Mary Bancroft</td>
<td>Sarah Erickson</td>
<td>Clinical</td>
</tr>
<tr>
<td>Gregory Beatty</td>
<td>Vincent Clark</td>
<td>Cognitive Neuroscience</td>
</tr>
<tr>
<td>Jennifer Bennett</td>
<td>Steven Verney</td>
<td>Clinical</td>
</tr>
<tr>
<td>Lavina Cavasos</td>
<td>Harold Delaney</td>
<td>Clinical</td>
</tr>
<tr>
<td>Matthew Euler</td>
<td>Ronald A. Yeo</td>
<td>Clinical</td>
</tr>
<tr>
<td>Loren Gianini</td>
<td>Jane Ellen Smith</td>
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</tr>
<tr>
<td>Paul Guinther</td>
<td>Karin M. Butler</td>
<td>Cognitive/Learning</td>
</tr>
<tr>
<td>Jennifer Harriger</td>
<td>David Witherington</td>
<td>Developmental</td>
</tr>
<tr>
<td>Melissa Heap</td>
<td>Steven Gangestad</td>
<td>Evolutionary</td>
</tr>
<tr>
<td>Kathryn Lenberg</td>
<td>Elizabeth Yeater</td>
<td>Clinical</td>
</tr>
<tr>
<td>Jenny Rinehart</td>
<td>Elizabeth Yeater</td>
<td>Clinical</td>
</tr>
<tr>
<td>Jeani Sarosy</td>
<td>Claudia C. Tesche</td>
<td>Cognitive/Learning</td>
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<tr>
<td>Ilanit Tal</td>
<td>Geoffrey Miller</td>
<td>Evolutionary</td>
</tr>
<tr>
<td>Joshua Tybur</td>
<td>Geoffrey Miller</td>
<td>Evolutionary</td>
</tr>
<tr>
<td>Kathryn Wiggins</td>
<td>Bruce W. Smith</td>
<td>Clinical</td>
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</table>
# APPENDIX G

**SENIOR HONOR THESES AY 2004-2005**

**DEPARTMENT OF PSYCHOLOGY**

<table>
<thead>
<tr>
<th>STUDENT</th>
<th>THESIS TITLE</th>
<th>FACULTY SPONSOR</th>
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</thead>
<tbody>
<tr>
<td>Billy J. Jimenez</td>
<td>&quot;Adult Conceptualizations of Different Forms of Fear&quot;</td>
<td>David C. Witherington, Ph.D.</td>
</tr>
<tr>
<td>Christine R. Probasco</td>
<td>&quot;Mothers' Facial Expression Modifications During Pretense&quot;</td>
<td>David C. Witherington, Ph.D.</td>
</tr>
<tr>
<td>Jamie L. Dolan</td>
<td>&quot;The Effects of Instructional Set on the Evaluation of Dating and Social Situations&quot;</td>
<td>Elizabeth A. Yeater, Ph.D.</td>
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<td>Dustin C. Lee</td>
<td>&quot;No Evidence for Preferred Rate of Entrainment to Synchronous Stimuli in Two Performance-Related Tasks&quot;</td>
<td>Claudia Tesche, Ph.D.</td>
</tr>
<tr>
<td>Miranda Palmer-Jijana</td>
<td>&quot;Attitude of Gratitude: Benefits of Focusing on Blessings Each Day&quot;</td>
<td>Bruce W. Smith, Ph.D.</td>
</tr>
<tr>
<td>Paulette Christopher</td>
<td>&quot;Decisional Balance Predicts Outcome in Motivational Enhancement Therapy&quot;</td>
<td>Theresa Moyers, Ph.D.</td>
</tr>
<tr>
<td>Monica R. Jaramillo</td>
<td>&quot;Mentally-Disordered Offenders in the Bernalillo County Metropolitan Detention Center&quot;</td>
<td>Paul Guerin, Ph.D.</td>
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<tr>
<td>Danielle Pearl</td>
<td>&quot;Bereavement Interventions for Children: A Meta-analysis&quot;</td>
<td>Jennifer Hettema, M.S.</td>
</tr>
<tr>
<td>Lisa K. Leahigh</td>
<td>&quot;Assessing Changes in Outcome Measures and Implicit Attitudes After Undergoing the Mindfulness Based Stress Reduction Program: A Pilot Study&quot;</td>
<td>Michael Dougher, Ph.D.</td>
</tr>
</tbody>
</table>
Paul Swegel  "A Person-Perception Study of Writing and Drawing"  Geoffrey Miller, Ph.D.

Sean J. Tollison  "Risk and Preventative Factors of Depression in Pueblo Indian Teens"  Philip May, Ph.D.  Tassy Parker, Ph.D.
APPENDIX H

REPORT OF THE DEPARTMENT OF PSYCHOLOGY COMMITTEE ON THE

DEAN’S PLAN FOR DISTINCTION AY 2004-2005

March 1, 2005

The Dean’s Plan for Distinction concerns our graduate training and research missions. The Dean notes in his memo, "[UNM’s] resource base is such that while we can compete, we cannot compete broadly, i.e., to try to be good in every discipline and in every aspect of every discipline. The search for distinction is always a search for comparative advantage—where are we strong and where can we be strong?"

The Department is charged with several related tasks:

1. Measure where we are now: Where do we stand as a Department? More specifically, in what areas do we currently have national and international distinction? In what areas do we have a competitive market advantage to achieve distinction?

2. How can we improve our standing or claims to distinction?

3. What components of our graduate training and research mission connect with other units on campus? Do we see ways to forge interdisciplinary strengths?

Where We Stand Now: Current Strengths

For a major research institution, UNM has a Department of Psychology very modest in size. We currently have 20.5 FTE (though we have been as large as about 27 FTE). By regional comparison, the University of Arizona has 42 core faculty, Arizona State has about 50, University of Utah has 38, and University of Colorado has 53. Relatedly, we do not cover all areas of psychology in the same way they are represented nationally. For instance, we have little representation in mainstream social and personality psychology, despite faculty in these fields comprising about a quarter of all non-clinical academic psychologists nationally. Similarly, we do not have industrial or organizational psychology represented. Measures of aggregate national ranking are based on reputational indices across all areas; breadth and size matter. We accordingly suffer in these rankings, relative to our standing in areas we do cover. In the 1995 National Research Council rankings, we were not listed due to the fact that our materials were not submitted by the administration. We had previously been ranked about 75 out of 185 Ph.D.-granting programs, but that ranking may be too outdated to mean much today. (In 1997, the Association for State and Provincial Psychology Boards ranked programs on mean performance on Examination for Professional Practice of clinical students. UNM ranked 23 out of 187 (88th percentile). Though tapping strength of clinical graduate training, however, that ranking does not reflect research productivity).

We have focused on measuring our strength within particular areas of psychology where we are strong. We currently have national or international distinction or have comparative advantages to
achieve distinction in three areas, with each area’s strength drawing, each in its own way, on
other resources in the university.

1. Cognitive Neuroimaging

Currently, seven faculty incorporate neuroimaging techniques into their research programs:
Claudia Tesche, Vince Clark, Ron Yeo, Bruce Smith, Kristina Ciesielski, Akaysha Tang, and
Steve Verney. Tesche and Clark were hired as senior faculty in highly competitive national
searches. Tesche, Yeo, and Clark have each received more than 1000 citations in scientific
journals for their work.

A major comparative advantage of UNM’s neuroimaging efforts is the MIND Imaging Center
(MIC), which is located on UNM’s campus. The MIC is a collaboration between the MIND
Institute and UNM, and has recently undergone a major expansion and renovation to become a
world-class facility. The MIC now has two research dedicated human MRI systems, and state of
the art magnetoencephalography (MEG) and electroencephalography (EEG) systems, as well as
offices for 90 people, computer databasing and data processing facilities, and conference and
training facilities.

We compared UNM’s cognitive neuroimaging program to several other nationally visible
programs in cognitive neuroscience based in departments of psychology at state universities with
an emphasis on neuroimaging: Rutgers, University of Oregon, University of Georgia, and SUNY
Stony Brook (Appendix A). The overall citation rate for our faculty is substantially higher than
for most of these institutions. Oregon, while similar in size, has more senior faculty, and has
supported its imaging program to a greater extent, with 7 faculty out of 30 doing some work on
imaging, and an imaging center with a research dedicated MRI system located within the
department of psychology there. With sufficient support, our imaging program could reach the
same stature.

2. Addictions and Substance Abuse

Currently, three full-time faculty, Bill Miller, Jane Ellen Smith, and Vince Clark, work on
addictions and substance abuse. Sarah Erickson has recently begun work in the area as well,
serving as the PI on a federal grant with addictive pregnant mothers and newborns. (Clark, who
has an R01 funded by NIDA to study the relationship between brain function and relapse in
abstinent cocaine addicts, is also in the Cognitive Neuroimaging area; see comments above.)
Miller is a UNM Distinguished Professor. He is one of the most highly cited researchers at
UNM, with about 7000 citations in the scientific literature for his research articles, chapters, and
books. Smith has received two NIH grants to study substance abuse in homeless populations and
has published extensively in the area as well, including a first-authored book published six
months ago. In terms of annual faculty rankings within the department (determined by research,
teaching, and service contributions), Drs. Miller and Smith consistently are rated among the top
20-25% of the faculty.

Again, UNM has additional resources that enhance its national standing in this area. CASAA (the
Center for Alcoholism, Substance Abuse, and Addictions) is UNM’s second largest research
center. Established in 1989, over $40 million in extramural grants and contracts has been
generated by 20 different CASAA investigators. Currently, eight research faculty of the
Department of Psychology are conducting research at CASAA. Several (e.g., Scott Tonigan, Robert Meyers) have national reputations. In addition to its research function, CASAA has always been a major training facility. Sample training programs have included: minority Career Opportunities in Research (undergraduates), NIAAA/NRSA (graduate students), being a placement site for the APA-approved Southwest Consortium (clinical internship), and the NIAAA/Faculty Development Program (Psychology Faculty with addiction interests).

We compared UNM’s addictions and substance abuse program with similar specialty training programs within several other nationally visible Clinical Psychology Programs. A comparison of citation rates (Appendix B1) across the various universities shows that UNM holds a very respectable second place position, despite not including Dr. Clark’s work.

3. Evolutionary Psychology

Two faculty specialize in evolutionary psychology, Steve Gangestad and Geoffrey Miller. The work of Gangestad, the senior member, has received over 2600 citations. In addition, two other faculty have mentored (or co-advised) evolutionary psychology students, Ron Yeo and Michael Dougher, and seven faculty in other departments provide key interdisciplinary training. Despite its small size within the department, the evolutionary psychology program is considered one of the best in the nation. Evolutionary psychology is an inherently interdisciplinary field, with strong ties to Biology and Anthropology. UNM’s program is particularly well known because, to a degree unparalleled by any other North American institution, it has strong representation in all three departments.

We compared the citation rates of UNM’s evolutionary psychology faculty to that of other major programs in evolutionary psychology: Texas, UC-Santa Barbara, UCLA, Arizona, Arizona State, McMaster, Harvard, Michigan, and Penn. UNM ranks well (see Appendix C). Again, however, because evolutionary psychology is interdisciplinary and UNM has broad representation, comparison of psychology faculty alone underestimates UNM’s strength. Three years ago, the broader Human Evolutionary Behavioral Science (HEBS) group at UNM conducted a self-study. Comparisons of citation and publication rates showed that UNM is clearly well ahead of any competitor in North America, including Harvard, Texas, UCLA, UC-Santa Barbara, Rutgers, and Michigan (see Appendix C).

In recent years, more students have applied to the evolutionary program than any other non-clinical area in the department, largely because UNM is one of the few places in the country that offers training in this field. We receive approximately 20-25 applications per year. Many applicants have excellent test scores and we have competed well with other institutions to attract the best students. Of 11 students admitted in the past three years, 6 accepted and, of these, most declined offers from major competitors (e.g., UCSB, Texas; see Appendix C).

How Can We Get Better?

We can enhance our claims to distinction in two major ways: First, we can solidify and directly enhance areas in which we have distinction; second, we can strengthen other areas of the department, building on our areas of distinction, in ways that both strengthen (and broaden) our general reputation and indirectly enhance the existing claims to distinction.
Solidifying Areas of Distinction

Distinguished Professor Bill Miller will be retiring in two years. He constitutes our major strength in the addictions area. Should UNM wish to maintain its strength in this area, a major priority must be to replace him at the senior level. Given our national reputation in the area and existing support (CASAA), there is good reason to believe that UNM can successfully recruit a major researcher in addictions, one who has an international reputation. To take advantage of this opportunity, however, we should do so before Bill Miller retires, so as to ensure a seamless transition from Bill's leadership in the program to that of his replacement. The Department has already made a senior replacement for Bill Miller its number one hiring priority; we reiterate that position here. Further strength could be added to this area if the CASAA Director search results in the hiring of a psychologist, but we definitely would not regard this to be an adequate substitution for hiring a full-time senior addiction psychologist in the Psychology Department.

We recommend that the areas of Cognitive Neuroimaging and Evolutionary Psychology can be strengthened through hires in our department that build bridges between these areas and other areas in the department, thereby creating rich synergies, as we discuss below. As we also emphasize below, all three areas tie into other strengths in the university and our visibility in the larger interdisciplinary efforts can be enhanced by steps to maintain and bolster these strengths and interdisciplinary ties.

Strengthening the Department by Building on Areas of Distinction

The Department offers research training in a number of areas aside from those in which we can now claim distinction (or near-distinction): behavioral neuroscience, cognitive psychology, developmental psychology, clinical psychology, health psychology, and quantitative psychology. By strategically building these areas in light of current strengths, we can broaden our claims to strength as well as bolster claims to distinction.

Clinical training, addictions, health psychology. Work in the addictions area takes place within our clinical training program; the focus of the work at UNM is on health-behavior change. Our claims to distinction can be broadened and strengthened in two respects:

1. Bolstering our clinical science training. UNM's clinical training program is highly research-oriented; we focus on training clinical scientists. The top clinical psychology programs similarly do so. A priority should be to further strengthen our claims to clinical science training. A small group of elite programs constitute the Academy of Psychological Clinical Science. The clinical area plans to apply for membership. (Dick McFall of Indiana University, a top member, assures us that we are the type of program desired by the Academy.) We have strengthened our clinical science training with recent hires; a notable addition in this regard is Elizabeth Yeater, who comes from strong clinical science training programs (and did a post-doc with McFall). Hiring strong researchers in clinical science generally should enhance our reputation in this regard.

2. Broadening our strength in health psychology and/or health-behavior change. Addictions and substance abuse research fits within a broader area of health psychology (specifically fitting an area of health-behavior change). We currently have several researchers in this broader area not in the area of addictions (Bruce Smith, Harold Delaney, and John Gluck; as noted, Jane Smith and Sarah Erickson work in both addictions and health psychology). One measure of strength is the
number of graduate applicants to work with specific researchers. Our health psychology faculty traditionally attract the largest percent of applicants, with between 65-69% of all applicants to the clinical program requesting to work with an addictions or health psychologist in the last two years. Impressively, all four offers extended to graduate applicants last year by faculty in addictions/health psychology were accepted. Our strength in addictions can be broadened into the area of health psychology through several means: (a) strengthening ties with North Campus and the VA Hospital in this area (see Interdisciplinary Ties below); (b) development of faculty in this area; (c) additional hiring of faculty with health psychology interests.

*Neuroimaging, cognitive neuroscience, and experimental psychology.* Our current strength within the broader area of cognitive neuroscience specifically focuses on neuroimaging. We have lost considerable strength in allied areas of cognitive psychology and behavioral neuroscience (with, for instance, the loss of Mark McDaniel and Dennis Feeney, two of our most cited researchers, as well as, just this year, Paul Amrhein). It is important for the department's reputation, including for our claim to distinction in graduate training in neuroimaging, that we strengthen these areas. Good training in cognitive neuroimaging requires a solid background in basic experimental psychology. Moreover, synergies between basic experimental areas and neuroimaging are possible.

We recommend that we restructure our training areas. Currently, we have three separate training tracks in these areas: behavioral neuroscience, cognitive neuroimaging, and cognitive psychology. We propose that we have one main area here: Brain, Behavior, and Cognition. Within this broader area, multiple training tracks can be available (Cognitive Neuroimaging, Behavioral Neuroscience, and Learning and Cognition). Because the training tracks will have some overlapping courses, however, these tracks will be more integrated than previously. A major emphasis of the external site visit report several years ago was that we streamline the number of training tracks we offer. With the recent losses of faculty and the opportunity to hire into these areas, the present is a good time to streamline.

*Evolution and development.* Following the retirement of Lynette Cofer this year, we will have one faculty member primarily identified as a developmental psychologist, David Witherington. Both evolutionary and developmental psychology use approaches that cut across traditional disciplinary lines. It makes sense that they be combined into an Evolution and Development area, which should retain two training tracks (evolutionary psychology and developmental psychology). Within the broader area, intellectual tensions exist, as mainstream evolutionary psychology and developmental systems views are not fully synthesized into one coherent approach. We consider these tensions to be strengths in graduate training, not drawbacks. An overarching umbrella over these areas may also lead to synergies involving current or future faculty. Theory and data pertaining to development within evolutionary frameworks on the one hand and the implications of development for understanding evolutionary trajectories on the other, for instance, are both vital and expanding thrusts, and we could possibly strengthen both areas jointly by hiring someone working in these areas. (It might also be noted that one of our major competitors in evolutionary psychology, UC-Santa Barbara, has a similar “Developmental and Evolutionary Psychology” area.)

In sum, we propose that the department have two main training areas outside of Clinical: Brain, Behavior, and Cognition and Evolution and Development, each with multiple training tracks.
Health Psychology should remain a training track largely within Clinical (though, as is currently true, non-clinical faculty may contribute and non-clinical students may be accepted into the Health Psychology program).

A more general emphasis on developing synergies. We reiterate an emphasis in the proposal of our ad hoc departmental Vision Committee three years ago: We are a small department with an historical emphasis on psychology broadly conceived; we have not been a department filled with narrow specialists more devoted to their subspecialties than the discipline as a whole. As it happens, within- and inter-disciplinary breadth are now highly valued in scientific communities. We can best thrive if we do not hire narrowly into areas but rather seek to create and nurture synergies between areas. The training areas, therefore, should be construed to have fluid, permeable, and overlapping boundaries, with individual faculty often doing work in on topics that do not neatly fall into one specific area. Many synergies are possible. As already noted above, basic experimental work on cognition and learning can be informed by neuroimaging studies. Developmental and evolutionary psychology both draw on perspectives that cut across all content-defined areas of behavior. In addition, life-span developmental perspectives can be applied to the study of psychopathology; social neuroscience, which may combine evolutionary perspectives and neuroimaging, is currently a hot area; we already have a number of faculty using neuroimaging techniques to study psychopathology and health-related behavior; learning and cognition can be approached from developmental and/or evolutionary perspectives; similarly, health-related behavior can be studied using life-span and/or evolutionary approaches—and these are just a few examples. In all instances, synergies can be enhanced by the fact that we have rich cultural diversity in New Mexico; we recently hired a cultural psychologist (Steve Verney) and may wish to hire additional faculty whose research addresses culture. Synergies enhance each area involved—hence bolstering our claims to distinction—as well as enrich the general intellectual environment of the department. In addition, we may be able to better compete on the national market for faculty who bring synergies that involve our areas of distinction in conjunction with other areas, as our combination of departmental strengths is fairly unique.

A general hiring plan. We have lost a large number of faculty in recent years and will lose several more to retirement in the next few years. Although we realize that all positions opened up though retirement or departure return to the college and do not belong to departments, we believe that replacement in the department is both sorely needed for us to be able to cover necessary coursework and can profitably enhance our national stature. As noted at the outset, our department is small relative to other psychology departments in major research universities and, over the past two decades, we have shrunk, not grown.

We have recently lost or will soon lose five faculty in non-clinical areas (Rob Egly, Mark McDaniel, Dennis Feeney, Lynette Cofer; Paul Amrhein). We currently are searching for one faculty member in cognitive psychology. We recommend that four additional hires be made. One should specifically be made in developmental psychology, with a plan to hire someone who can interact with at least one other area. We recommend that the remaining three hires be advertised as open hires, with hope that we will hire new faculty to facilitate synergies between areas, including current areas of distinction. (Hiring with open hires will also widen the pool of candidates, which should increase the possibility of identifying qualified candidates from underrepresented groups.)
We have lost or will lose three faculty not replaced in clinical psychology (John Gluck, Holly Waldron, and Bill Miller). A top priority, once again, should be to replace Miller with a high-profile senior researcher in addictions. We propose to hire two additional faculty in clinical psychology to strengthen the basic clinical science emphasis of the area as well as health psychology.

**Interdisciplinary Ties**

All areas of distinction or potential distinction discussed above have strong ties with other units on campus (and sometimes outside agencies). Indeed, all have been nominated as elements of strategic clusters in the Provost’s strategic plan.

1. *Addictions and health-related behavior change.* There are four Psychology faculty currently conducting research on addictions (Drs. Clark, Erickson, B. Miller, and J. Smith), as well as eight Psychology research faculty working at CASAA (Drs. Arciniega, Baca, Meyers, Moyers, Pallas, Tonigan, Venner and Villanueva). Prominent CASAA faculty outside the Psychology Department are Phil May (Sociology) and Gill Woodall (Communication and Journalism). Over the years CASAA has had over 100 affiliated faculty from 24 departments in seven UNM colleges. Sample current affiliates include: Psychiatry (Bogenschutz), Surgery (Schermer), and Public Health (Duran, Wallerstein; see complete list in Appendix B2). Discussions are underway regarding mutually advantageous ways to enhance the Psychology Department/CASAA bond. In terms of more general health-related behavior change: core Psychology faculty (e.g., Erickson, B. Smith, Delaney) have already established research programs with North Campus affiliates (e.g., Pediatric Cancer Center), and with other universities (spirituality research interests). Additionally, efforts have begun to strengthen the Psychology Department’s connection with the health psychology programs at the VA Hospital (e.g., diabetes treatment compliance), and with local cardiac rehab hospitals (exercise and diet adherence).

2. *Neuroimaging.* There are a number of collaborations between Psychology faculty who are involved in neuroimaging research and other faculty both on and off campus. Dr. Clark is currently 63% of his 12 month salary supported by the MIND Institute, where he is currently Director of Cognitive Neuroscience. Dr. Tesche was supported 63% for the previous 4 years, and now received 25% support. Dr. Verney receives 10% support, and Dr. Bruce Smith has received summer salary support and research support from the MIND. Funds from the MIND currently support imaging studies in learning and memory (Tesche), addictions, schizophrenia (Clark), affect and social cognition (B. Smith and Clark). The MIND also supports or provides research opportunities currently for 2 postdoctoral trainee, 6 graduate students and 5 undergraduates based in Psychology. The MIND also supports a collaboration between Psychology and Computer Science (Dr. Terran Lane) to develop new methods of data analysis. Other collaborations include the MIND Clinical Imaging Consortium, which involves Psychology faculty (Clark) along with UNM Psychiatry, Neuroscience and Neurology faculty, and includes faculty based at Harvard, the University of Minnesota and the University of Iowa. Psychology faculty have many other ongoing collaborations. This includes the NSF funded Southwest Science of Learning Center (Clark, B. Smith, Tesche, Verney and Yeo) that also includes faculty in Physics, EECE, Computer Science, Linguistics, and other UNM departments. Psychology faculty are also involved or planning multiple other projects including other UNM faculty and with the Santa Fe
Institute, LANL, Sandia Labs, Yale, Harvard, UCSD, NIH, Helsinki University Central Hospital, Kuopio University Hospital, and other universities and research institutions worldwide.

3. Human evolutionary behavioral science. The human evolutionary behavioral science group at UNM consists of a network of about 10 core faculty in Psychology (Gangestad, G. Miller), Biology (Thornhill, Charnov, research professor Watson), and Anthropology (Lancaster, Kaplan, Boone, Hill, Hurtado) and numerous associated faculty from a variety of departments (e.g., Yeo and Dougher from Psychology, Brown and Kodric-Brown from Biology, Pearson from Anthropology). As already noted, due to the breadth and strength of faculty representation in this area, UNM is considered one of the leading institutions in the world in the study of human behavior using an evolutionary perspective (see Appendix C).

APPENDIX A

COMPARISONS OF PROGRAMS OFFERING COGNITIVE NEUROSCIENCE WITH HUMAN BRAIN IMAGING

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<tr>
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<td>Tesche</td>
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<td>Yeo</td>
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New Jersey State University at Rutgers (http://www.psych.rutgers.edu)

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<td>Komisaruk</td>
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University of Oregon at Eugene (http://psych.uoregon.edu)

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<td>Neville</td>
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<td>Tucker</td>
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University of Georgia at Athens (http://www.uga.edu/psychology/)

Clementz 1989 1377 769
McDowell 1996 365 365

Total 1742 1134

SUNY Stoney Brook (http://www.psychology.sunysb.edu/psychology)

Canli 1993 466 411
Leung 1997 300 300
Squires 1972 2243 75

Total 3009 786

APPENDIX B1

COMPARISONS OF ADDICTION TRAINING WITHIN CLINICAL PSYCHOLOGY PROGRAMS

(Note: Each university list includes the main addiction faculty from both within their Psychology Department and from their addiction institutes)

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<td>J. Smith</td>
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<td>V. Clark</td>
<td>[see Cognitive Neuroimaging section]</td>
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<td>Tonigan</td>
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<td>May</td>
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<td>927</td>
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<td>Meyers</td>
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<td>Woodall</td>
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<td>Bogenschutz</td>
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44
APPENDIX B2

UNM/CASAA: AFFILIATED FACULTY AND INVESTIGATORS

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<th>NAME</th>
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<td>Patrick J. Abbott, M.D.</td>
<td>Psychiatry</td>
<td>Treatment of drug abuse; dual diagnosis; pharmacotherapies</td>
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<tr>
<td>Andrea Allan, Ph.D.</td>
<td>Neurosciences</td>
<td>Effects of acute and chronic sedative hypnotics on brain</td>
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<tr>
<td>Lisa Arciniega, Ph.D.</td>
<td>CASAA</td>
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</tr>
<tr>
<td>Catherine Baca, M.D.</td>
<td>CASAA</td>
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</table>
Karen Blatz, M.D.  Psychiatry  Dual diagnosis of children and adolescents (substance abuse and psychiatric disorders) and effective treatment strategies

Michael Bogenschutz, M.D.  Psychiatry  Pharmacotherapy of addictive disorders, co-occurring substance use and psychiatric disorders (dual diagnosis)

Bebeann Bouchard, M.Ed.  Pediatrics  Perinatal effects of fetal drug exposure (FDE); prevention of FDE

Kevin K. Caldwell, Ph.D.  Neurosciences  Characterizing neurochemical mechanisms that underlie behavioral sequelae (e.g., altered learning and memory) resulting from prenatal ethanol exposure

Jose M. Canive, M.D.  Psychiatry  Dual diagnosis; psychopharmacology

Janet C'de Baca, Ph.D.  Behavioral Research Ctr.  Alcohol abuse/dependency, drug abuse/dependency, of the Southwest gambling, and other behavioral health issues

Leslie Chamberlin  Dir., Tireman Library College of Education

Kristina Ciesielski, Ph.D.  Psychology  Neuropsychology of alcohol and other drug problems

Vince Clark, Ph.D.  Psychology

Carol Clericuzio, M.D.  Pediatrics  Diagnosis and treatment fetal alcohol syndrome: anthropometric normative data for minority populations

Ellen Mary Cosgrove  Medicine

Louis B. Curet, M.D.  Obstetrics/Gynecology  Fetal alcohol effects; pregnancy and health
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<th>Name</th>
<th>School</th>
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<tr>
<td>Sally M. Davis, Ph.D.</td>
<td>Prevention Research Ctr.</td>
<td>Prevention; rural and Native American youth</td>
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<tr>
<td>Harold Delaney, Ph.D.</td>
<td>Psychology</td>
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<tr>
<td>Patsy L. O. Duphorne, M.N.</td>
<td>Nursing</td>
<td>Prevention of drug abuse; nursing diversion programs</td>
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<td>Bonnie M. Duran, Dr. P.H.</td>
<td>Family and Community Medicine</td>
<td>Substance abuse and mental health among Native Americans and other minority groups</td>
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<td>Sarah J. Erickson, Ph.D.</td>
<td>Psychology</td>
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<td>P. Rodrigo Escalona, M.D.</td>
<td>Psychiatry</td>
<td>Treatment of substance abuse/dual diagnosis; education; community and primary care intervention</td>
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<tr>
<td>Greg Franchini, MD</td>
<td>Psychiatry</td>
<td>Medical training; careers in medicine and lifestyle</td>
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<td>Michael J. Hammes, Ph.D.</td>
<td>Health Education</td>
<td>Mental/emotional health in etiology of addictive behaviors</td>
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<td>Barbara E. Hannan, Ph.D.</td>
<td>Philosophy</td>
<td>Analysis of the notions of freedom and responsibility as they apply to addiction and recovery</td>
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<td>Paula Hensley, M.D.</td>
<td>Psychiatry</td>
<td>Hepatitis C; depression; anxiety.</td>
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<td>Reid K. Hester, Ph.D.</td>
<td>Behavior Therapy Assoc.</td>
<td>Treatment outcome research; brief interventions</td>
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<td>Dina Hill, Ph.D.</td>
<td>Psychiatry</td>
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<td>Gordon K. Hodge, Ph.D.</td>
<td>Psychology</td>
<td>Psychopharmacology</td>
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<td>Jane C. Hood, Ph.D.</td>
<td>Sociology</td>
<td>Occupational alcoholism programs and reporting behavior</td>
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<td>Andrew Hsi, M.D.</td>
<td>Pediatrics</td>
<td>Prevention of fetal alcohol/drug effects; neonatal addict</td>
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<td>Aparna V. Huzurbazar, Ph.D.</td>
<td>Mathematics and Statistics</td>
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<td>Name</td>
<td>Institution</td>
<td>Research Focus</td>
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<tr>
<td>Krishna P. Kandath</td>
<td>Communication and Journalism</td>
<td>Understanding symbolic influences in developing addiction behaviors</td>
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<td>William M. Kane, Ph.D.</td>
<td>Individual Family Community Ed.</td>
<td>Public policy; alcohol and injuries</td>
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<tr>
<td>Samuel Keith, M.D.</td>
<td>Psychiatry</td>
<td>Treatment of dual diagnosis populations</td>
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<td>P. W. Kodituwakku, Ph.D.</td>
<td>CASAA</td>
<td>Neuropsychology of alcoholism; self-regulation and planning</td>
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<tr>
<td>Jane B. Lancaster, Ph.D.</td>
<td>Anthropology</td>
<td>Life histories, parenting, fertility</td>
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<tr>
<td>Sandra C, Lapham, MD, MPH</td>
<td>Behavioral Research Ctr.</td>
<td>Alcohol abuse/dependency, drug abuse/dependency, of the Southwest gambling, and other behavioral health issues</td>
</tr>
<tr>
<td>Lorraine Malcoe, Ph.D., MPH</td>
<td>Family and Community Medicine</td>
<td>Relations between alcohol and drug use and intimate partner violence</td>
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<td>Joseph M. Masserano, Ph.D.</td>
<td>Pharmacology</td>
<td>Obtain funding to develop and lecture courses on drug abuse to group in the community</td>
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<td>Philip A. May, Ph.D.</td>
<td>Sociology</td>
<td>Native American alcohol problems; epidemiology; fetal alcohol syndrome (FAS)</td>
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<tr>
<td>Teresita McCarty, M.D.</td>
<td>Psychiatry</td>
<td>Psychiatric presentations of medical disorders; dissociation</td>
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<tr>
<td>Robert J. Meyers, Ph.D.</td>
<td>CASAA</td>
<td>Community reinforcement approach</td>
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<tr>
<td>Geoffrey Miller, Ph.D.</td>
<td>Psychology</td>
<td>Application of costly signalling theory to understanding substance abuse; the evolution of young male risk-seeking in relation to substance abuse; why marriage protects against addiction</td>
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</table>
William R. Miller, Ph.D.  Psychology and Psychiatry  Program evaluation and change processes; clinical trials

Nancy K. Morrison, M.D.  Psychiatry  Substance abuse and personality disorders/early trauma

Theresa B. Moyers, Ph.D.  CASAA  Therapist effects in alcohol treatment; client beliefs

Liza Nagel, Ph.D.  Individual Family Community Ed.  Prevention among youth, adults, seniors; values related to abuse; successful prevention strategies

Elizabeth Nielsen, Ph.D.  Special Education  “At-Risk for School Failure”

Kurt B. Nolte, M.D.  Pathology  Central nervous system and other pathologic effects of drug abuse, especially cocaine

George Nurnberg, M.D.  Psychiatry  Substance abuse and personality disorders

Janet M. Oliver, Ph.D.  Cancer Center  Basic receptor mechanism; ligand-receptor interaction

Irene F. Ortiz, M.D.  Psychiatry & Immunology  Substance abuse and the immune system

Barbara Overman, CNM, Ph.D. College of Nursing  Health risk reduction in primary care practice

Christobel Rendall, MD.  Psychiaytry

Diane Pallas, Ph.D.  Psychology  Adolescent substance abuse

Edward Reyes, Ph.D.  Pharmacology  In-utero alcohol exposure; animal models of fetal alcohol syndrome

Robert L. Rhyne, M.D.  Family and Community Medicine  Medications in the elderly; aging and health; community medicine

Robert A. Robergs, Ph.D.  Physical Performance and Development  Exercise in rehabilitation of addicts; effects of altitude
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<th>Name</th>
<th>Department</th>
<th>Research Focus</th>
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<tr>
<td>Robert D. Rogers, Ph.D.</td>
<td>Anderson Schools of</td>
<td>Substance abuse decisions (to initiate, to continue, to stop behaviors) especially smoking among young adults</td>
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<td>Management</td>
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<td>Richard H. Rubin, M.D.</td>
<td>Internal Medicine</td>
<td>Prevention; patient-physician communication</td>
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<td>Linda C. Saland, Ph.D.</td>
<td>Neurosciences</td>
<td>Neuroendocrine regulation of endogenous opiate peptide secretion; endogenous opiate effects on immune function</td>
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<td>Daniel Savage, Ph.D.</td>
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<td>Effects of fetal alcohol exposure on the developing brain</td>
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<td>David Scherer, Ph.D.</td>
<td>Individual Family</td>
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<td>Carol Schermer, M.D.</td>
<td>Surgery</td>
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<td>Sandra L. Schwanberg, Ph.D., RN</td>
<td>College of Nursing</td>
<td>Successful prevention and intervention program in Native American communities</td>
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<td>Virginia C. Shipman, Ph.D.</td>
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<td>Wilmer L. Sibbitt, Jr., M.D.</td>
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<td>David Sklar, M.D.</td>
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<td>Jane Ellen Smith, Ph.D.</td>
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<td>Richard Smith, Ed.D.</td>
<td>Individual Family Community Ed.</td>
<td>Dependency behaviors and violence</td>
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<td>Paul D. Steele, Ph.D.</td>
<td>Sociology</td>
<td>Substance abuse and crime; substance abuse and work/the workplace</td>
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<td>Nicole D. Stephens, Ph.D.</td>
<td>Molecular Genetics and Microbiology</td>
<td>Social family effects of alcoholism and other drug addictions</td>
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<td>Vicente Tuason, M.D.</td>
<td>VA Medical Center</td>
<td>Pharmacotherapies; treatment of dual diagnosis patients</td>
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<td>J. Scott Tonigan, Ph.D.</td>
<td>CASAA</td>
<td>Treatment outcome research; survival analysis; AA</td>
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<td>William G. Troutman, Pharm.D.</td>
<td>Pharmacy</td>
<td>Acute overdose effects</td>
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<td>Mark Unverzagt, MD</td>
<td>Family and Community Medicine</td>
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<td>David L. VanderJagt, Ph.D.</td>
<td>Biochemistry</td>
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<td>Kamilla Venner, Ph.D.</td>
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<td>Cross cultural issues in addiction etiology</td>
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<tr>
<td>Michael Villanueva, Ph.D.</td>
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<td>Cross cultural issues in addiction &amp; posttraumatic stress disorder.</td>
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<td>Nina Wallerstein, Dr.P.H.</td>
<td>Family and Community Medicine</td>
<td>Prevention of adolescent substance and abuse; community health</td>
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<td>Dora Wang, M.D.</td>
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<td>P. Jackie Weeks</td>
<td>Gallup Branch</td>
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<td>MS Counselling, MAT Spec. Ed.</td>
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William Wiese, M.D.  Family and Community Medicine  Clinical prevention of addictions

W. Gill Woodall, Ph.D.  Communication and Journalism  Prevention of substance abuse

Joel Yager, M.D.  Psychiatry  Assessment, recognition, and interventions concerning alcoholism in emergency room settings.

Ronald A. Yeo, Ph.D.  Psychology  Neuropsychology, neuroimaging, and fetal alcohol syndrome

APPENDIX C

COMPARISONS OF PROGRAMS OFFERING EVOLUTIONARY PSYCHOLOGY

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<th>University</th>
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<td>Fridlund</td>
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<td>Roney</td>
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### University of California at Los Angeles

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<td>Malamuth</td>
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<td>Haselton</td>
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### McMaster University

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<th>Name</th>
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<th>Total</th>
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<tbody>
<tr>
<td>Daly</td>
<td>197_</td>
<td>2724</td>
<td>321</td>
</tr>
<tr>
<td>Wilson</td>
<td>197_</td>
<td>~2724</td>
<td>~321</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>~5448</td>
<td>~642^2</td>
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### Arizona State University

<table>
<thead>
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<th>Name</th>
<th>Year</th>
<th>Total</th>
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<tbody>
<tr>
<td>Kenrick</td>
<td>1976</td>
<td>1899</td>
<td>235</td>
</tr>
<tr>
<td>Neuberg</td>
<td>1987</td>
<td>1421</td>
<td>235</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td>3320</td>
<td>470</td>
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### University of Arizona

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<th>Total</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Figueredo</td>
<td>1987</td>
<td>415</td>
<td>332</td>
</tr>
<tr>
<td>Ellis</td>
<td>199_</td>
<td>243</td>
<td>127</td>
</tr>
<tr>
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<td>658</td>
<td>459</td>
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### University of Pennsylvania

<table>
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<tbody>
<tr>
<td>Rozin</td>
<td>196_</td>
<td>7514</td>
<td>605</td>
</tr>
<tr>
<td>Kurzban</td>
<td>1998</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>7579</td>
<td>670</td>
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### Harvard University

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<th>Name</th>
<th>Year</th>
<th>Total</th>
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<tr>
<td>Pinker</td>
<td>1979</td>
<td>5976</td>
<td>2141^3</td>
</tr>
<tr>
<td>Hauser</td>
<td>1987</td>
<td>2334</td>
<td>1378^3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>8310</td>
<td>3519^3</td>
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University of Michigan

<table>
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<tr>
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<td>674</td>
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<tr>
<td>Smuts</td>
<td>198</td>
<td>1190</td>
<td>42</td>
</tr>
<tr>
<td>Brown</td>
<td>199</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>Total</td>
<td>3844</td>
<td>779</td>
<td></td>
</tr>
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</table>

(Note. University of Michigan has advertised for a position in Evolutionary Psychology to begin Fall 2005.)

Notes.

1 Citation counts were made in October 2004.
2 Daly and Wilson have co-authored most of their articles and books since the early 1980s; Wilson’s citation numbers are estimated from Daly’s. Note, however, that most of these citations are redundant with Daly’s.

Most of Steven Pinker’s citations since 1994 have come from books, largely popular writings. Mark Hauser works with non-human primates. Though Harvard may appear to be a major competitor of UNM’s, in fact they do not compete with us for graduate students in evolutionary psychology. (Their Department of Anthropology is, however, a major competitor of UNM’s for students in evolutionary anthropology.)

Summary

UNM competes with the best programs in evolutionary psychology. Our major competitors for students are University of Texas and UC-Santa Barbara. UCLA has strengthened. In years past, we have competed with Arizona State, Arizona, and Michigan for students. Since our evolutionary program was expanded to two faculty in Psychology (3 years ago), however, we have lost no students to those schools.

In the past 3 recruiting years:

We admitted 11 students; of those, 6 accepted.

Of the 6 who accepted, 2 declined UCSB and 2 declined Texas.

Of the 5 who declined us, 2 went to UCSB, 1 went to UCLA, 1 went to Princeton (in social psychology), 1 went to Vienna.
The Interdisciplinary Focus

UNM's comparative advantage in the broader area of human evolutionary behavioral science heavily draws on our interdisciplinary strength across Psychology, Anthropology, and Biology. In total, UNM has 9 faculty across these areas (Thornhill and Charnov in Biology; Lancaster, Kaplan, Hill, Boone, and Hurtado in Anthropology; Gangestad and Miller in Psychology), in addition to one research faculty (Watson in Biology). Two years ago, we assessed our area relative to other leading universities. At that time, we counted journal citations (total and first author) for years 1998-2000 as well as total publications between 1998-2001. The results:

<table>
<thead>
<tr>
<th>Institution</th>
<th>No. faculty</th>
<th>Total</th>
<th>1st author</th>
<th>Publications</th>
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<tr>
<td>UNM</td>
<td>9</td>
<td>3906</td>
<td>2477</td>
<td>75</td>
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<tr>
<td>Rutgers</td>
<td>8</td>
<td>1856</td>
<td>1589</td>
<td>21</td>
</tr>
<tr>
<td>Utah</td>
<td>6</td>
<td>1833</td>
<td>620</td>
<td>28</td>
</tr>
<tr>
<td>UCSB</td>
<td>7</td>
<td>1731</td>
<td>1040</td>
<td>22</td>
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<tr>
<td>Harvard</td>
<td>6</td>
<td>1589</td>
<td>1116</td>
<td>49</td>
</tr>
<tr>
<td>Texas</td>
<td>2</td>
<td>1045</td>
<td>955</td>
<td>30</td>
</tr>
<tr>
<td>UCLA</td>
<td>9</td>
<td>988</td>
<td>749</td>
<td>28</td>
</tr>
<tr>
<td>Emory</td>
<td>7</td>
<td>937</td>
<td>463</td>
<td>48</td>
</tr>
<tr>
<td>Michigan</td>
<td>7</td>
<td>916</td>
<td>666</td>
<td>40</td>
</tr>
<tr>
<td>Arizona</td>
<td>2</td>
<td>578</td>
<td>357</td>
<td>37</td>
</tr>
</tbody>
</table>

In all categories, UNM ranks number 1.

Since we performed this comparison, several changes have occurred. Harvard hired a senior faculty member in Psychology (Pinker). UCSB and Texas hired junior faculty in Psychology. Arizona lost one senior person and hired a replacement at the junior level. These changes would not affect UNM's ranks.

The senior UNM faculty in this area rank high in their own departments in terms of total career citations. Charnov and Thornhill (both Distinguished Professors) rank 1st and 3rd in Biology, respectively. Gangestad ranks 2nd in Psychology. Hill, Lancaster, and Kaplan rank 1st, 3rd, and 4th in Anthropology. The only faculty who have as many or more within their respective departments are three Distinguished Professors: James Brown in Biology (2nd), Bill Miller of Psychology (1st), and Jane Buikstra in Anthropology (2nd).
The 2004-2005 academic year brought both change and consolidation in the Religious Studies Program. Following the Spring 2004 transition in directors, in Fall 2004 we focused on consolidating a more formalized governance structure and process, restructuring our undergraduate major, improving undergraduate advising, and expanding the broad circle of UNM faculty that relate to Religious Studies. During the first half of 2005, we focused on launching some significant initiatives for building a more dynamic and substantial Religious Studies presence for the future. We summarize below first the consolidation steps, then the new initiatives.

Consolidating the Religious Studies Program:

1. The overall governance of the Religious Studies Program (within the ultimate responsibility of the Dean of the College of Arts & Sciences) lies in the hands of the Religious Studies Committee (RSC). Day-to-day authority in the Program is exercised by the Director of Religious Studies. For the first time, we now have a clear set of guidelines for RSC governance authority, for its relationship to the director’s authority, and for how both RSC members and the Director will be chosen – encoded in by-laws (available on request from the Program). Formal elections were held during Spring 2005, with some former members rotating off and two new members (Oakdale and Rubinstein) joining the RSC at the start of the 2005-2006 year. In a program that has been governed quite informally, establishing a routine and formalized process for governance represents a key step in consolidating long-term strength. We think our current by-laws may need some further tweaking via amendments (to be considered in Fall 2005), but overall provide a good balance between administrative flexibility and long-term structure.

2. The RSC finalized a new structure for the undergraduate major in order to provide more rigorous intellectual formation for all students and more systematic preparation for those students continuing on to graduate-level study of religion or seminary. The new structure of the Religious Studies major is now before the Faculty Senate Curriculum Committee for approval. It includes a faculty-mentored senior project requirement for all majors, and formal criteria for graduating with departmental honors in Religious Studies, under the mentorship of Associate Director Cindy Geppert. We continue to teach the most undergraduate students by far of any interdisciplinary program, teaching some 4200 credit hours per semester – more than many regular departments.

3. With the hiring of Dr. Dan Wolne as the first Lecturer in Religious Studies, we were able to consolidate a more focused and systematic advisement process for undergraduate majors and minors. Dr. Wolne serves as the primary undergraduate advisor for all matters of curriculum, graduation requirements, and approvals, as well as for advanced advising for students doing work on the eastern religious traditions. Dr. Geppert advises students wishing to pursue graduate work in preparation for ministry or teaching.

4. The broadest level of faculty engagement in the Religious Studies Program is the
Associated Faculty. The Associated Faculty provides a way to engage faculty across multiple disciplines in the Program; because we were concerned that the Program had become rather isolated from the wider life of the University, we sought to broaden this base of contact with faculty. By using the faculty-wide listserv to contact faculty throughout the university once each semester, we have built from a group of 18 to 48 faculty from Arts & Sciences, Fine Arts, the Medical School, the School of Law, and the College of Engineering.

5. We have also clarified the lines of authority over UNM’s outstanding Summer Seminar in Buddhism; the Department of Philosophy, where most of our expertise in Buddhism resides, now has clear authority over this thriving UNM program which brings national experts to the Jemez Mountains for a two-week seminar. Religious Studies helps market the Summer Seminar through our extensive contacts in religious communities around the state.

6. We made the difficult decision not to proceed with launching an M.A. degree in Religious Studies; in the absence of more substantial faculty resources dedicated to the program, we believed we could not assure graduate students adequate numbers of graduate level seminars or graduate level faculty mentoring. Such decisions are difficult to make, as both status claims and inertia argued for moving forward; however, we felt it would be irresponsible to do so at this time. We still hope to launch an M.A. program in the future, if and only if we have adequate claim on faculty resources.

7. Over the 2005 summer, we increasingly came to encounter difficulties with UNM branch campuses around the hiring of instructors for religious studies courses. We are now formalizing criteria and a standardized review process that respond adequately to the particularly sensitive issues involved in teaching courses on religion at a state-sponsored university, while also responding to the legitimate concerns of branch colleges needing to staff courses.

8. Stabilizing the Religious Studies budget was a majority priority. Following the transition in Religious Studies directors in 2004, we took steps early on to stop budget over-runs within the Program, and the College wiped out the accumulated deficits of prior years. We finished the 2004-2005 fiscal year within budget.

New Initiatives in Religious Studies:
A. New personnel: Through a variety of arrangements coordinated through the College, this year we hired three new Lecturers in Religious Studies (in conjunction with the Philosophy and Foreign Languages and Literature Departments). Michael Candelaria, Lisa Gerber, and Achim Oberst bring new strengths to the Program, in Hispanic religions and philosophy of religion, religious traditions and environmentalism, and Protestant theology and Greek, respectively. This growth, along with expansion into significant public programming (see below), also required new staff support. After a full search and interview process, new administrative assistant Christina Jensen joined us in July 2005. We have also begun to diversify our pool of part-time instructors, in another attempt to
- broaden the courses offered.

B. **New research institute:** In order to heighten the profile of research on religion at UNM, the Religious Studies Program established a year ago the Southwest Institute on Religion and Civil Society as a venue for funded research. SIRCS is now firmly on its feet, with funding for work on Islam & democracy and religion in the public university.

C. **New space:** With support from the College of Arts & Sciences and additional outside funding, we colonized and remodeled unused space on the fourth floor of Hokona-Zuni (for SIRCS) and gained at least temporary assignment to Religious Studies of one existing office on the third floor; the latter will be used as office space for lecturers.

D. **Endowment:** This year, we formally established a permanent endowment for the Religious Studies Program, with a fund of $11,000 as an initial endowment. We intend to gradually build this fund as a source of ongoing programmatic support.

E. **Nexus: Religion in the Public University:** During Spring 2005, we sought and received $35,000 in funding from The Louisville Institute for a major series of events this year titled *Nexus: Religion in the Public University*. We hired a graduate assistant to carry some of the implementation burden of Nexus, and in September 2005 launched the series with an event on religion and environmentalism. Future events will focus on “Islam and America in the World” (November); “Evolution Wars” (a religious and scientific critique of the intelligent design movement, in January); “Politics & Ethics” or “Feminism and Spiritual Practice” (March); and “Vulnerability, Power, and Medical Decision-Making” (April). Each event will feature a nationally-prominent speaker delivering a public lecture on a prominent issue related to religion and society, followed by an invitation-only dialogue with 25-30 local religious leaders and university faculty. The program is being evaluated as a possible model for national funding.

F. **Religion & Science:** We attempted to catalyze the launching of a Society on Religion & Science in New Mexico to promote deeper understanding between scientists and religious leaders, and to give public school teachers better tools for teaching science effectively. After an initial promising meeting, many participants appear to be unable to invest the time needed for such an endeavor. At present, we are backing off this effort and hope to address this critical need in other ways (notably the January 2005 Nexus session and a Fall 2005 course on religion & science).

G. **Endowed chairs:** After exploring the potential for endowed chairs focused on the study of particular religious traditions, we have begun to work with the College Development Office toward establishing such chairs at UNM. We have had very exploratory conversations in this regard with leaders from several traditions. The conversation has advanced farthest regarding a chair of Catholic Studies, with the Archdiocese of Santa Fe having formed a committee to explore raising the necessary money for a major endowment (note that chairs of Catholic Studies exist at a variety of prominent secular universities – both public and private – around the country already). We hope that this might catalyze establishment of endowed chairs in a variety of other traditions in the
It has been a busy year in the Religious Studies Program, with very real contributions from a broad group of staffpersons, faculty members, part-time instructors, lecturers, community members, and College personnel. We continue to serve large numbers of undergraduate students, and are now striving to intersect more fully with other dimensions of university life, including UNM’s intellectual life and relations with the broader New Mexico community. Though, like everywhere at UNM, we regularly push up against limitations of time, personnel, and space, we hope to consolidate these new initiatives in the year ahead.
College of Arts and Sciences
Department of Sociology
July 1, 2004 - June 30, 2005
Phillip Gonzales, Chair

I am pleased to submit this report covering the first year of my term as Department chair. The 2004/05 academic year witnessed several important developments with respect to our faculty and students.

A. Significant Achievements/Developments

Assistant Professor Lisa Broidy was awarded tenure and promoted to Associate Professor.

Assistant Professor Nancy López underwent a successful mid-probationary review.

The Department conducted a successful search for a faculty member in comparative sociology. Dr. Andrew Schrank, Assistant Professor at Yale University, accepted our offer to begin a tenure-track appointment in Fall 2005.

Associate Professor Dodd Bogart retired from UNM.

We just saw a banner year for teaching awards in the Department. Two of our colleagues received the Gunter Starkey Award for Teaching Excellence, Associate Professor Lisa Broidy in the faculty category, and doctoral candidate Colin Olson in the graduate student competition. Also, Erika Derkas, one of our graduate students who is holding down an assistant professor position at New Mexico Highlands University, received that institution’s Professor of the Year Award.

Department Chair Felipe Gonzales was appointed to the Peace Studies Program Committee.

The Department responded to Dean Reed Dasenbrock's request for each department to participate in the College's initiative, Planning for Success, Excellence and Distinction. At a faculty retreat, the faculty brain-stormed the issues involved in carrying out the tasks in three major areas: [1] improving the unsatisfactory graduation rates among the College undergraduates (Success); [2] enhancing the undergraduate major, career advisement, and honors (Excellence); and, [3] strengthening the graduate program and faculty research (Distinction). Out of the retreat discussion, the faculty as a whole hammered out the elements of action reports bearing on Success, Excellence, and Distinction. The discussion and the reports proved quite useful in clarifying the state-of-the-Department, our mission, academic values, and general direction.
The Department participated in the Combined Degree BA-MD Program which was funded by the State for the 2004-05 academic year. As a member of the BA-MD Task Force, Chair Gonzales participated in the Task Force Retreat held September 21, 2004. In a follow-up to the retreat, Dr. Meredith Martin, a Sociology instructor, developed a prospectus for a course syllabus, "The Contours of Health in New Mexico," which will likely serve as an entry level class for students enrolled in the Combined Degree.

Chair Gonzales participated in an ad hoc, cross-departmental, committee created by Dean Reed Dasenbrock in the Fall Semester 2004, to discuss the possibility of creating a new forensics major in the College. Associate Professor Lisa Broidy was also appointed to the committee.

**Department Colloquia**


**Additional:**

Contributing to UNM’s Extended Learning program by offering instructional television courses (Sociology 312 "Causes of Crime" and Sociology 471 "Contemporary Social Theory" taught by Kathryn Hovey).

**B. List of Faculty Publications, Outside Professional Activities, Sponsored Research**

**Dodd Bogart**

**Department Service**

Member, Curriculum Committee

**Lisa Broidy**

**Publications**

Awards

Gunter Starkey Teaching Award, 2004-2005. University of New Mexico, College of Arts and Sciences

Funded Research


Department Service

Chair, Criminology Task Force
Member, Undergraduate Committee

College Service

Member, College Forensics Committee

Outside Professional Activities


_Beverly Burris_

Department Service

Member, Executive Committee
Chair, Curriculum Committee

University Service

Chair, President’s Faculty Club Committee

_Richard M. Coughlin_

Department Service

Associate Chair of Department
_Ex officio_, Executive Committee
Chair, Faculty Hiring Committee

_Robert Fiala_

Publications


Department Service

Chair, Undergraduate Committee

Outside Professional Activities

**Phillip B. Gonzales**

**Publications**


**Department Service**

Chair, Sociology Department  
Chair, Executive Committee

**Outside Professional Activities**

Manuscript referee. American Sociological Review.


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**George Huaco**

**Department Service**

Library Liaison  
Member, Curriculum Committee

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**Jane Hood**

**Department Service**

Undergraduate Honors Coordinator

**Outside Professional Activities**

Robert A. Ibarra

Publications


Sponsored Research


University Service

Assistant to the Provost on Diversity

Outside Professional Activities


Assisted as special diversity consulted for conflict over diversity issues in a project for Tribal nations, Head Start programs, and WGBH television in Boston, 2004-2005.

Nancy López

Publications


Department Service
Member, Faculty Hiring Committee

Philip A. May

Publications


Sponsored Research


University Service

Senior Research Scientist, Center on Alcoholism, Substance Abuse, and Addictions (CASAA).

Aki Roberts

Funded Research


John M. Roberts, Jr.

Department Service

Member, Executive Committee
Chair, Graduate Committee

Paul Steele

Sponsored Research


Department Service

Member Undergraduate Committee

University Service

Member, Academic Freedom and Tenure Committee
Outside Professional Activities


Susan B. Tiano

Department Service

Member, Faculty Hiring Committee

Bert Useem

Publications

Sponsored Research

Bert Useem is working with a group, located at the University of Maryland, funded by the Department of Homeland Security studying the social causes of terrorism. His focus is "Correctional Response to Terrorism: Organizational Change and Strategies."

Department Service

Director, Institute for Social Research
Member, Graduate Committee

Tim Wadsworth

Publications


Department Service

Member, Executive Committee
Member, Graduate Committee

Outside Professional Activities


Richard L. Wood

Publications


**Sponsored Research**

$124,451: Middle East Program, Cooperative Monitoring Center, Sandia National Laboratories; Principal Investigator.


**Department Service**

Member, Faculty Hiring Committee

**Outside Professional Activities**


Invited panel respondent at the annual conference of the Washington, DC based Roundtable on Religion and Social Welfare Policy, in collaboration with The Rockefeller Institute at State University of New York at Albany (Washington, DC:: December 2004).

Poster session at the American Academy of Religion (huge professional association for religious studies) on UNM’s Southwest Institute of Religion and Civil Society (research institute affiliated with Religious Studies Program at UNM) (San Antonio: November 2004).


“Strategic Capacity in National Political Organizing,” research presentation to the Brown University Working Group on Community Organizing (Providence, RI: October 2004).

Organizer, thematic session on “Deepening Democracy through Faith-Based Citizen Activism: Strengths, Critiques, Alternatives,” a joint session of the American Sociological Association and the Association for the Sociology of Religion (San Francisco, August 2004).
C. Graduate Program

Awarded Doctoral Dissertations & Master's Theses
Sociology Department/Summer 2004, Fall 2004, Spring 2005

<table>
<thead>
<tr>
<th>Candidate</th>
<th>Title</th>
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<tr>
<td>Mozafar Banihashemi, MA</td>
<td>Iran in Transition: From Theocratic Rule to Incertitude?</td>
</tr>
<tr>
<td>Rebecca Jasso-Aguilar, MA</td>
<td>Privatization in Bolivia: Struggle and Resistance</td>
</tr>
<tr>
<td>Billy James Ulibarri, MA</td>
<td>Transforming a Rape Culture: The Case of Male Survivors</td>
</tr>
<tr>
<td>Gloria S. Vaquera, PhD</td>
<td>Persistence in Doctoral Programs: A Test of a Theoretical Model at a Hispanic Serving Institution</td>
</tr>
<tr>
<td>Bradley Varley, MA</td>
<td>Subtle Parallels and Violent Differences: Comparing Crime in Canada and the United States</td>
</tr>
</tbody>
</table>

The graduate program in Sociology continued to make progress with three new admissions for Spring 2005. The Sociology Graduate Student Association (SGSA) remained active with Sophia Hammett serving as president, Sarah Strong serving as treasurer and Tom Maestas serving as secretary.

Graduate Awards

Ryan Goodman received the Foreign Language and Area Studies (FLAS) Fellowship for 2004-05 from the Latin American and Iberian Institute.

Doctoral student Chalane Lechuga received an honorable mention from the Ford Foundation’s Pre-Doctoral Fellowship program.

Doctoral candidate Colin Olson received the 2005 Gunter Starkey Award for teaching excellence by the College of Arts and Sciences.

Graduate Student Colloquia


Graduate Student Publications


-----. Opt-ed article. Al-Ahram Weekly.
-----. Opt-ed article. Daily Times (Pakistan).
-----. Opt-ed article. The Humanist.
-----. Opt-ed article. The Jewish Post.
-----. Opt-ed article. La Gazette du Maroc.
-----. Opt-ed article. Le Matin (Morocco).
-----. Opt-ed article. Libération (Morocco).
-----. Opt-ed article. The Mercury (South Africa).
-----. Opt-ed article. Morocco Times.
-----. Opt-ed article. Peace Corps Online.


Other

Dr. Kathryn Hovey (Ph.D. in Sociology, 2002), current instructor in the Department and Albuquerque TVI faculty member, had her dissertation published by the University of New Mexico Press. Entitled Anarchy and Community in the New American West: Madrid, New Mexico 1970-2000, it is a study of a small community outside of Albuquerque that went from a mining boom center in the 1950s to a ghost town to a tourist attraction in which, as the book’s jacket states, “arts and crafts have replaced coal as the commodity on which all livelihoods depend.”

Jason Ben-Meir, Sociology doctoral candidate, was elected President of the High Atlas Foundation, a US nonprofit organization that assists rural development in Morocco. This past March, the foundation received a grant from the United States Agency for International Development (USAID) for community tree planting. Moroccan and American dignitaries and university professors, among others, are members of the organization.

Dr. Marie Clevenger (PhD in Sociology, 2003), engaged in post-doctoral research at the Institute for Social Research.

Chalane Lechuga, Sociology doctoral student was a Fellow at the National Summer Institute on Promoting Multicultural Excellence in the Academy, University of Denver, Denver, Colorado, 2004-2005.

D. Undergraduate Program

The winners of the 2004 Christopher A. McGee Memorial Award were Mary Fisher for “Obstacle to Achievement? An Examination of the Effects of the Glass Ceiling on Female CEOs of Fortune 500 Companies,” and Amanda Sims for “Community Policing or Traditional Policing: What is Really Going On?”
Isaac G. Cardona, BA in Criminology 2005, received departmental honors at the rank of cum laude for his thesis titled, “Community Policing: The Importance of an Integrated Model of Policing at the Department Level.” Cynthia Diane Torres, BA in Criminology 2005, received departmental honors at the rank of cum laude for her thesis titled, “Theories of Female Offending: Outlining the Role of Childhood Victimization.”

Alpha Kappa Delta (AKD), the International Honors Society for sociology and criminology majors, inducted over forty new members this past year. AKD president Isaac Cardona presented his honors thesis paper at the Pacific Sociological Association meeting held in Portland Oregon April 15-18, 2005. AKD sponsored two well-attended symposia, one on drug policy and the other on the death penalty.

E. Convocation

A total of one hundred seventy-seven Sociology Department undergraduate students completed their studies in the 2004/05 academic year. Forty-nine of these graduating seniors (fifteen sociology majors and thirty-four criminology majors) participated the Sociology Convocation that was held in the Student Union Ballroom on Saturday, May 14, 2005 at 3:30 pm. An estimated 600 persons were in attendance including family and friends. This year, the Department heard presentations from graduating criminology senior Isaac G. Cardona and doctoral candidate Ethel Nicdao, and guest speaker Dr. Rhys H. Williams, Associate Professor, University of Cincinnati, who received his undergraduate degree in Sociology from UNM in 1979. The Department recognized the accomplishments of graduating seniors with grade point averages of 3.50 and above: Erin Armstrong, Isaac G. Cardona, Ryan David Cunningham, Aynsley Rhea Dickinson, Gabrielle Guzzardo-Lee, Cheyenne Kiernan, Linda Marie Lendino, Robert Francis Medina, Christopher William Moffatt, Tiffany Robertson, Cynthia Diane Torres, Megan Louise Torres, Delilah Elisha Trujillo, Susan Marie Walden-Nolan. Doctors of Philosophy degrees were recognized for graduates Nell Damon, W. Azul La Luz Baez, Ethel Nicdao, and Rebel Palm-Aitchison. Masters of Arts & Letters degrees were recognized for Rebeca Jasso-Aguilar, Weiwei Liu, and Sarah Strong.

F. Appointments

Professor Felipe Gonzalez served his first year as Chair of the Sociology Department.

Dr. Bert Useem was reappointed Director of the Institute for Social Research (ISR).

Dr. Gerhard (Jerry) Daday, (PhD in Sociology, 2004), accepted an Assistant Professor position at Western Kentucky University.

Karen Majors was promoted to undergraduate academic advisor for the Sociology Department.
Dr. M. Christine Rack (PhD in Sociology, 1997), currently an instructor with the Department, was appointed Assistant Director of the Peace Studies Program.

Dr. Andrew Schrank accepted an assistant professorship in the Sociology Department starting Fall 2005.

Lora Stone, doctoral candidate, accepted an Assistant Professor position at the University of St. Francis.

Dr. Gloria Vaquera, (PhD in Sociology, 2004), accepted an Assistant Professorship position at John Carroll University.

Preliminary work was conducted to have Dr. Howard Waitzkin’s FTE transferred from the UNM Health Sciences Center to the Sociology Department.

E. Leaves of Absence, Sabbaticals, Departures

Dr. Dodd Bogart, Associate Professor of Sociology, retired from the Sociology Department in July 2005.

Dr. Raymond Liedka, Assistant Professor of Sociology, accepted a position at the University of Kentucky.
Introduction

The UNM Peace Studies Program is a collaborative association of UNM faculty, staff, students and administrators with affiliated organizational and community members. The program sponsors and participates in campus and community events relevant to establishing a just and sustainable peace. The minor in Peace Studies is an interdepartmental and interdisciplinary program designed to introduce students to the causes and consequences of conflict. This course of study allows students the opportunity to examine alternatives to violence and to reflect upon the nature of peace as a sustainable condition at the individual and collective levels. This report catalogs the accomplishments and ongoing projects undertaken by Peace Studies over the course of the past year, and lays out our goals for the coming year.

I. Developments in 2004-2005

A. Program Development

The chief programmatic accomplishments of the UNM Peace Studies Program in the past year were appointing our Director and Assistant Director/Advisor, consolidating our Program Committee, adopting our Program by-laws, designing our website and reaching out to the various Arts and Sciences chairs and program directors who contribute courses to the Peace Studies minor.

In April of 2004, the prior Program Committee recruited Jennifer Moore, Professor of Law, as Director of Peace Studies. She was nominated in May, and formally appointed by the College of Arts and Sciences in July. Soon thereafter, the Director and Program Committee selected Dr. Christine Rack, part-time Sociology instructor, as the Assistant Director and Advisor. Christine Rack had served on the prior Program Committee, and teaches Sociology courses within the Peace Studies minor. A&S Associate Dean (now Dean) Vera Norwood made available to Peace Studies a $5000 budget for our first year.

In August of 2004, the Program Committee was reconstituted, including nine former members and five new members. The “renewed” members were African American Studies Director Shiame Okunor, Anthropology Chair Carol Nagengast, History Chair Jane Slaughter (now Asso. Dean of A&S), Philosophy Professor Ted Sturm, Physics Professor Colston Chandler, Political Science Professor (now Chair) Mark Peceny, Dr. Christine Rack, part-time instructor in Sociology, BUS candidate Adolphine Carole, and Sociology PhD candidate Betsy Erbaugh. The newly appointed members were Sociology Chair Felipe Gonzales, UNM Taos campus Sociology Professor Barri Sanders, Mennonite pastor Anita Amstutz as our community
partner, (then) Asso. Dean Vera Norwood ex officio, and the new Director, who would chair the regular meetings.

The Program Committee met on a monthly basis throughout the 2004-05 academic year, and had a series of vital discussions about the evolving vision and tasks of Peace Studies. These conversations were enriched by the interdisciplinary range of our membership and the participation of both senior and junior faculty, both full and part-time professors, both graduate and undergraduate students, and the pastor of a religious congregation with a pacifist tradition and practice.

In August and September of 2005, with the help and creativity of Math Department Web Designer Sterling Coke, Peace Studies launched its own website, including pages devoted to our program description, curricular requirements and electives within the minor. Our website is at http://www.unm.edu/~peace/index.htm. As part of this process, the Director conferred with chairs of a dozen UNM departments to identify and clear individual courses addressing conflict and conflict resolution for inclusion as electives within the minor. We have more than 50 electives distributed over four elective concentrations. In addition to the seven departments represented on our Program Committee, the other departments contributing courses include American Studies, Biology, Community & Journalism, Geography, Linguistics and Women's Studies.

In October of 2004, Peace Studies benefited from the appointment of Eva Lipton as our new part-time Program Coordinator. Medieval Studies Program Director Timothy Graham hired Ms. Lipton on a part time basis (full time as of July 2005), and she is able to divide a portion of her weekly hours with Peace Studies and other interdisciplinary programs, to help us handle our billing and purchase orders through the Banner/LINK system.

After revising multiple drafts, in November of 2005 the Program Committee adopted our first bylaws (see appendix A). This document formalizes the organizational and governance structures of the Program and articulates its pedagogical and social vision. The bylaws clarify that Peace Studies seeks to educate students about the causes and consequences of violence, while promoting non-violent conflict resolution through partnership with community organizations. The bylaws also reflect the democratic and inclusive spirit of Peace Studies. While faculty serving on the Program Committee have a controlling vote in curricular matters, any individual or community organization committed to respectful dialogue about non-violent conflict resolution may join Peace Studies. As part of this wider membership, such individuals may attend Program Committee meetings and participate in decision-making regarding Peace Studies events and community outreach projects.

In May of 2005, Peace Studies submitted a summary proposal to the UNM Registrar and the Associate Provost for Academic Affairs for a certificate program in Peace and Justice Studies. While the Peace Studies minor is limited to Arts and Sciences majors, the certificate program will be open to all undergraduate students, including those enrolled in University College, and the Colleges of Education and Engineering, who have not previously been able to pursue a concentration in peace studies that is reflected on their transcripts. The certificate program will also be open to non-degree students interested in conflict resolution. While the
Peace Studies minor entails 12 required credits and 12 elective credits, the certificate will encompass 12 elective credits and a 3-credit internship, for a total of 15 credits. In July of 2005, the Director of Peace Studies was informed by the Associate Provost that the application had passed the first hurdle, and the next step will be to file a complete Form C by the end of 2005. This submission will then be reviewed by the UNM Registrar, the Office of the Associate Provost and various committees, before ultimately being considered by the NM Department of Higher Education in 2006.

**B. Public Events**

In 2004-05, Peace Studies held one major conference, organized one fundraiser for humanitarian relief, co-sponsored three interdisciplinary UNM programs and attended one community peacemaking event.

On March 1, 2005, Peace Studies held the first annual UNM Peace Fair from 12:00 to 8:00 in the UNM Student Union Ballroom. The event was entitled “Studying Peace at UNM: Thinking & Acting, Locally & Globally.” Close to fifty local and UNM peacemaking organizations sponsored booths and shared materials about their work in the fields of mediation, environmental protection, non-violence training, human rights, disarmament and cross-cultural understanding. Several hundred students, faculty, staff and community members attended the Fair throughout the day.

The Fair included two panels on peacemaking at home and abroad, with presentations by UNM professors and representatives of organizations all working to facilitate conflict resolution and social justice in Ghana, Nepal, Israel/Palestine and downtown Albuquerque. Our keynote speaker, Melinda Smith, delivered an address entitled “Building a Culture of Peace.” Her presentation focused on the work of the New Mexico Center for Conflict Resolution, and the ways in which its approach to peace education has inspired kindred programs in Africa, Asia and the Middle East.

On September 14, 2004, Peace Studies was asked to participate in a community education event sponsored by the Colombia Solidarity Committee on the development of peace communities in Colombia. The event took place at the First Congregational Church of Albuquerque.

On October 24, 2004, Peace Studies organized the “Peace Studies Runners for Darfur,” whose members participated in various events in the Duke City Marathon. Peace Studies raised over $1000 for three humanitarian organizations working to alleviate violence, hunger and disease in the Darfur region of Sudan – Doctors Without Borders, the International Rescue Committee and the United Nations High Commissioner for Refugees.

From November 15-19 2004, Peace Studies co-sponsored the annual International Educational Symposium on Terror and Human Rights, organized by the UNM Office of International Programs. Peace Studies Director Jennifer Moore moderated a panel on “The Impact of the War on Terror on the Human Rights of Civilians and Non-Civilians,” held at UNM Law School on November 16.
On January 21, 2005, UNM Peace Studies was asked to participate in the annual UNM commemoration of the life and work of Dr. Martin Luther King, Jr., sponsored by the UNM African American Studies Program and the MLK State Commission.

In March and April of 2005, Peace Studies was a co-sponsor for the Anthropology Department’s lecture series entitled “The Anthropology of Music and Sound.”

C. Curricular Development

The contours of the Peace Studies minor program include four required courses and four electives that students may select from each of four concentrations of subjects comprising the theoretical, methodological, international and national dimensions of conflict and conflict resolution. In addition to clarifying the content of the minor on our Peace Studies website and in the UNM catalog, the Program Committee made a number of important decisions during the 2004-05 academic year with regard to strengthening the focus of Peace Studies as a discipline at UNM.

Our first challenge was to examine our two required entry-level courses, International Politics (Pol Sc 240) and Physics and Society (Physics 105). We discussed the merits of reconfiguring these requirements as entry-level Social Science and entry-level Natural Science courses, with some degree of choice within those two subject areas. At our April 1, 2005 Program Committee meeting, we voted to amend the Natural Science requirement, to allow students to choose between Physics and Society and the Blue Planet (Env Sc 101). The Blue Planet is an Earth Sciences course that looks at the ways in which finite natural resources may become flash points for conflict and opportunities for conflict resolution at the national and international levels. In Physics and Society, students are asked to reflect upon the impact that weapons technology has on human communities.

In April of 2005, Peace Studies contributed to a proposal authored by Assistant Director Christine Rack to develop an interdisciplinary format for her Peace and Conflict class (Soc 398). Her proposal was selected and funded by the Office of the Vice Provost for Academic Affairs. In the Fall 2005 semester, Peace and Conflict will be team-taught by ten professors from nine different UNM departments and programs, spanning a variety of approaches to conflict and conflict resolution. Represented on the team are professors from American Studies, Anthropology, Communication & Journalism, Earth Sciences, Law, Native American Studies, Political Science, Religious Studies and Sociology. The course will meet in two regular classroom sessions per week throughout the semester. Then on four specific occasions, special dialogue sessions will be held in panel format, in which several professors and students will address challenging topics such as militarization and the role of religion in politics and society. Twice during the semester, speakers will be invited in the evening to address the public on themes relevant to the class.

In May of 2005, Peace Studies, Religious Studies and Communications & Journalism drafted a proposal to the Ford Foundation on facilitating difficult dialogues on religious and
political themes in the university setting. Christine Rack was the principal author of this proposal, which extends the model of the team-taught Peace and Conflict class to two semesters. Each semester, one substantive seminar will be linked to a methodological course through a “learning community.” The first semester, Peace Studies will sponsor the seminar, which will be linked to a course in dialogue facilitation, sponsored by Communications & Journalism. The second semester, a Religious Studies seminar will be linked to the C&J dialogue course, in a second learning community.

In April and May of 2005, the Director and Assistant Director held a series of meetings with Dean White of University College, Associate Provost Amy Wahlert, Dr. Rosalie Otero of the University Honors Program, Dr. Tracy Skipp of BUS Advising, Dr. Joel Nossof of Freshman Learning Communities and Elizabeth Barton of the UNM Registrar’s Office. These conversations centered on how to enhance the interdisciplinary reach of Peace Studies, as well as how to increase our recruitment of freshmen and sophomores into the minor program. As a first step in extending our outreach to students, Director Jennifer Moore and incoming Advisor Betsy Erbaugh made a presentation on April 21 to UNM honors students about Peace Studies, on the occasion of the annual Honors Preview Night in the SUB Ballroom. In July of 2005, Jennifer Moore made two presentations to undergraduates, one to a class in International Politics, and another to a class in Comparative Politics.

II. Publications, Conferences and Other Professional Activities, 2004-05

A. Director Jennifer Moore

1. Presentations and Honors

On April 1, 2004, Jennifer Moore was inducted into the Martin Luther King, Jr. Collegium of Scholars at Morehouse College in Atlanta, Georgia, as the New Mexico Chancellor of the International Association of Educators for World Peace.

On September 17, 2004, she made a presentation on “Burundian Refugees in Tanzania” at the International Initiatives Luncheon sponsored by UNM Office of the Provost.

On November 11, 2004, she spoke on the topic of “AIDS Advocacy in the International Arena” as a guest presenter in Professor Carol Suzuki’s AIDS and the Law seminar at UNM School of Law. She provided an overview of various international human rights instruments that recognize the right to health care, including education, prevention and treatment, with a focus on possibilities for creative advocacy on behalf of people living with HIV/AIDS.

On November 16, 2004, Professor Moore moderated a panel on “The Impact of the War on Terror on the Human Rights of Civilians and non-Civilians.” In her presentation, she discussed the complementary relationship between human rights law and humanitarian law in requiring the humane treatment of all individuals detained in the war on terror. This panel was held at UNM School of Law as part of the UNM International Symposium on Terror and
2. Publications
Professor Moore published two opinion pieces in the Albuquerque Journal during 2004 and 2005. The first was entitled "As U.N. 'Negotiates,' Sudan Genocide Rages," and called for more concerted international action to protect civilians from attacks in the Darfur region of Sudan (Albuquerque Journal, Monday, December 6, 2004). The second piece was entitled "Senate Vote Should Reaffirm American Values," and advocated against the confirmation of Alberto Gonzales as U.S. Attorney General, because of his failure to demand humane treatment for all detainees in the war on terror as required under international law (Albuquerque Journal, Wednesday, February 2, 2005).


B. Assistant Director Christine Rack:
Presentations and publications

On August 17, 2004, Dr. Rack participated on a panel on "Teaching About Peace, War, Military Institutions, and Social Conflict," at the American Sociological Association Annual Meeting, San Francisco, California. She presented and discussed a variety of curricula designed for peace studies courses.

Dr. Rack has a forthcoming book entitled Latino-Anglo Bargaining Patterns: Culture, Structure or Choice, which will be published by the Routledge, Taylor & Francis Group (under contract). Her book analyses the different ways that culture and ethnicity influence participation in the mediation process.

C. Program Committee members

Elizabeth Erbaugh: In March 2005, Betsy Erbaugh was invited to give a presentation on "Community Organizing to End Violence in Queer and Transgender Communities," as part of the Women's Studies Dialogue Series hosted by the University of Colorado in Boulder.

III. Developments and Plans for 2005-2006

A. Personnel

Jennifer Moore will stay on as Director for a second year. Christine Rack has stepped down as Assistant Director/Advisor, and Betsy Erbaugh has agreed to serve as Advisor for the 2005-06 academic year. We are grateful that Eva Lipton will continue to provide Banner/LINK support as our part-time Program Coordinator. We also look forward to continuing to benefit from Sterling Coke’s support in updating and expanding our website.
B. Curricular Development Goals

In 2005-06, Peace Studies hopes to recruit more students to the minor by collaborating with the various departments in Arts and Sciences, as well as the various interdisciplinary programs at University College. Second, we plan to submit an application for a Peace Studies certificate program, which would enable non-A&S majors (from University College, the College of Education, etc.) as well as non-degree students to specialize in Peace Studies, and to have this concentration reflected on their academic transcript. Third, we are committed to further develop and focus the Peace Studies minor in part by creating a core of Peace Studies faculty who regularly share ideas and learn from one another about the diverse meanings of peace and conflict resolution across the curriculum. The Fall 2005 Peace & Conflict team-taught seminar will help us make significant strides in strengthening collaboration among our Peace Studies faculty. Finally, we will continue to reach out and partner with community peacemakers. For example, one initiative we are taking on in the coming year is to support the efforts of the Albuquerque Peace & Justice Center to conduct peace recruitment in APS high schools, so that students may look critically at the role of the military in our society, and so that some may consider and prepare themselves for alternative careers in non-violent conflict resolution.

C. International Study

In 2005-06, Peace Studies would like to explore strengthening the international component of the minor. Already Peace Studies promotes the development of knowledge and skills in conflict resolution in at least three inter-connected levels of human interaction, one of which is explicitly international: (1) the mediation of interpersonal conflicts; (2) dialogue between diverse ethnic, religious and socio-economic groups at the national level; and (3) conflict resolution at the global level, encompassing peacekeeping, poverty alleviation and post-conflict reconstruction efforts. Giving students the opportunity to study and/or work overseas will both enhance their understanding of global conflict and reconciliation issues, as well as enriching their undergraduate experience overall.

While we do not currently have a study abroad component within the minor, such experience would significantly deepen the students' understanding of cross-cultural communication and socio-cultural diversity at the international level. Overseas experience would also enhance students' ability to pursue international career paths upon graduation.

In 2005-06 Peace Studies will explore funding possibilities that will enable us to offer our minor students the opportunity to spend a semester abroad, either to pursue coursework, or to fulfill the internship requirement through placement with an overseas peacemaking, social justice or humanitarian organization. Increasing numbers of universities in the developing world have peace and justice or development studies programs (for example, the University of Capetown in South Africa has a Center for Conflict Studies, and the University of Dar es Salaam in Tanzania has a Development Studies program). With additional funding for international travel and study,
Peace Studies could link our students with such programs, facilitating a variety of enriching international experiences.
Appendix A

Peace Studies Program Bylaws
(adopted by Peace Studies Program Committee on Nov. 12, 2004)

Mission Statement

Peace Studies is an interdisciplinary program drawing from the human and intellectual resources of faculty, staff and students from over fifteen departments and colleges in the University of New Mexico, combined with community partners committed to peacemaking at all levels from the personal to the international. The Peace Studies curriculum encompasses courses across the UNM curriculum that address the causes and consequences of violent conflict from theoretical, methodological and contextual perspectives, and which explore nonviolent alternatives to conflict locally, nationally and internationally. Peace Studies sponsors and co-sponsors lectures and panel presentations on issues of war, peace and reconciliation. The principal goals of the Peace Studies Program are to encourage scholarly inquiry, respectful discussion, and community engagement in the interpersonal, structural, institutional, and cultural dimensions of violence and alternatives to violence. (See Appendix A for an elaboration of Program Goals and Requirements.)

Organization

**Director** – nominated by the Program membership and appointed by the Dean of Arts and Sciences for two-year term (renewable). S/he is responsible for chairing monthly/bimonthly meetings of the Program Committee and semi-annual meetings of the Program Membership; overseeing the budget; supervising the work of the Program Coordinator in processing financial, administrative and student advisement forms; and working in collaboration with the Assistant Director and Program Committee to communicate relevant information to faculty, students, staff and community partners, maintain appropriate records, organize lectures and presentations, and solicit and recommend courses for the Peace Studies curriculum. The Dean of Arts and Sciences conducts an annual evaluation of the Peace Studies Director.

**Assistant Director** – appointed by the Director in consultation with the Program Committee and the Dean of the College of Arts and Sciences for two-year term (renewable). Responsible for assisting the Director in her duties (outlined above), organizing and scheduling meetings, encouraging membership and participation in the Program and inviting individuals to serve on the Program Committee. S/he also ensures that minutes of meetings are taken and distributed to participants. (The Assistant Director may also serve as the Program Advisor in the event that an appropriate person for both jobs is identified.)

**Program Advisor** – appointed by the Director in consultation with the Program Committee and the Dean of the College of Arts & Sciences for two-year term (renewable). Responsible for academic advisement of students participating in the Peace Studies minor, preparing forms and maintaining student records, approving student curricular choices, and validating completion of the requirements for graduation with the Peace Studies minor. In
collaboration with the Program Committee, s/he develops curriculum and the articulation of the Peace Studies minor in other degree programs outside of the College of Arts & Sciences.

**Program Coordinator** – appointed by the Dean of the College of Arts and Sciences in consultation with the Peace Studies Program Director. S/he is responsible for assisting in the preparation of financial and other administrative forms, and submitting necessary forms to the Office of the Dean.

**Program Committee** – between twelve and fifteen members, including the Director and Assistant Director/Advisor, at least six other faculty, at least two students, at least one community partner and the Associate Dean of Arts and Sciences (ex officio). Program Committee members shall be nominated and elected by the Program Membership to serve staggered two-year terms (renewable). Program Committee members are responsible for attending regular Program Committee meetings (monthly or bimonthly), as well as semi-annual Program Membership meetings; taking minutes on a rotating basis; determining curricular offerings; assisting in the communication of relevant information to faculty, staff, students and the public; participating in the organization of lectures and presentations; and taking part in the maintenance of administrative records. Individuals serving on the Program Committee are also Peace Studies Program Members. The Program Committee is thus a part of and functions within the overall Peace Studies Program Membership.

**Program Members** – An indeterminate number of individuals consisting of the Program Committee and other UNM faculty, staff and students, as well as community partners, who are interested in, committed to and/or involved in issues relating to peacemaking, alternatives to violence, and conflict and its peaceful resolution. All members have full participation and voting rights in all Program meetings, with the exception of those decisions relating to curricular modifications and amendments to the Program by-laws (see specifics below). Program members are encouraged to participate in student education, to facilitate the incorporation of new participants into the Peace Studies Program, as well as to nominate new Program Committee members. Program Members are therefore encouraged to attend, participate and vote at Program Committee meetings, organize and participate in semi-annual Program Membership meetings, and make proposals for new courses, lecture topics and community peace-making initiatives. The active participation of Program Members is essential to a vital Peace Studies Program. An active Membership will also embody a spirit of collective decision-making through which the internal governance of the Program may model peacemaking activities at the University, community and global level. Decision-making by consensus will be the preferred model.

**Program Governance and Voting Procedures**

**Nomination of the Program Director** – on the occasion of the biannual nomination of the Program Director, a quorum consisting of no less than fifteen Program Members must be present, including at least eight members of the Program Committee. The Program Director will be nominated by a two-thirds majority of the attending Membership. The nomination is validated through official appointment by the Dean of Arts and Sciences.
Election of Individuals serving on the Program Committee – on the occasion of the yearly nomination and election of individuals to serve on the Program Committee, a quorum consisting of no less than fifteen Program Members must be present. Program Committee members will be elected by two-thirds majority of the participating Program Membership. Program Committee members serve for staggered two-year terms; thus each year, roughly half the Committee seats will open, and a slate of individuals will be elected to fill those positions for the following two years.

Amendments to the Bylaws – any amendments to the bylaws may be proposed and voted on by any and all Program Members. Amendments require a quorum of at least fifteen Program Members, including at least eight members of the Program Committee, and the support of both a two-thirds majority of the Membership present and a two-thirds majority of all faculty members currently serving on the Program Committee.

Amendments to the Curriculum – amendments to the Peace Studies minor curriculum may be proposed and voted on by any and all Program Members. Changes in the curriculum require a quorum of fifteen Program Members, including at least eight members of the Program Committee, and the support of both a two-thirds majority of the Membership present and a two-thirds majority vote of all faculty members currently serving on the Program Committee.

The academic component of the Peace Studies Program (the Peace Studies minor) is implemented under the aegis of the Dean of the College of Arts and Sciences.

Peace Studies Governance: A Participatory Vision

The central role of those UNM faculty members serving on the Program Committee in shaping the Program bylaws and the interdisciplinary Peace Studies curriculum reflects the character of Peace Studies as a program hosted and supported by the University of New Mexico. However, it is critical that we engage the full participation of the broader community if Peace Studies is to achieve its potential in creating appropriate learning opportunities for students in the reduction of violence in our community, nation and world. This broad participation is particularly necessary in those activities relating to the planning and implementation of the Peace Studies Internship, community lectures, and peacemaking initiatives. Therefore, we will encourage the active involvement of students, staff, community partners and faculty not serving on the Program Committee. Such participation is valued and essential, if Peace Studies is to flourish and engage meaningfully in the life of the University and the greater community. For this reason, wherever possible, consensus decisions of the Membership will be sought as the fullest and most whole-hearted expression of the collective will of the Peace Studies Program.
I. TEACHING FACULTY AND STAFF

A. TENURED AND TENURE TRACK FACULTY

Spanish

Anthony J. Cárdenas-Rotunno  Professor
Enrique Lamadrid  Professor
Tey Diana Rebolledo  Professor
Kimberle López  Associate Professor
Judy Maloof  Associate Professor
Susan Rivera  Associate Professor
Mirta Alejandra Balestra  Assistant Professor
Miguel López  Assistant Professor
Kathryn McKnight  Assistant Professor
Eleuterio Santiago-Díaz  Assistant Professor
Rena Torres Cacoullos  Assistant Professor
Catherine Travis  Assistant Professor
María Dolores Gonzales  Lecturer III/Assistant Professor
### Portuguese

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<tbody>
<tr>
<td>Margo Milleret</td>
<td>Associate Professor</td>
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<tr>
<td>Leila Lehnen</td>
<td>Assistant Professor</td>
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</table>

### B. VISITING PROFESSORS

- Alfred Rodríguez

### C. LECTURERS

- Diego Deane               Barbara Gonzales
- Fernando Garavito          Patricia Rosas-Lopátegui

### D. EMERITUS PROFESSORS

- John Bergen               Garland Bills
- Rubén Cobos                Pelayo Fernández
- Rosa Fernández             Dick Gerdes
- Angel González             Erlinda Gonzales-Berry
- Tamara Holzapfel           Raymond MacCurdy
- Alfred Rodríguez            Jon Tolman

### E. TEACHING ASSISTANTS

#### Ph.D.

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<th>Name</th>
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**ARTS AND SCIENCES INTERDEPARTMENTAL TEACHING ASSISTANTS**

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<tr>
<td>Orlando Andrade</td>
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<td>Wendy Braun</td>
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<td>Elvira Pichardo</td>
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Silvia Soto  Latin American and Iberian Institute  
Naomi Todd  Latin American and Iberian Institute  
Natalie Vogel  Latin American and Iberian Institute  
Venkata Pavan K. Madhira - Graduate Assistant/Webmaster  

F. Office Staff  
Rosario Johnson  Department Administrator II  
Martha Hurd  Graduate Administrative Assistant II  
Maríafelix Treviño  Language Instruction Administrative Assistant II  
Katharine E. Merrill  Department Administrative Assistant I  

G. Work Study Staff  
Ari Muñoz  Rosalinda Olivas  Leobarda Zacarias  

H. Degrees Awarded  
Summer 2004  
Doctorate in Spanish and Portuguese  
Esther Brown,  
Patricia Catoira,  
MASTER OF ARTS IN SPANISH
Blanca Rodríguez

MASTER OF ARTS IN PORTUGUESE
Charles Bicalho Agrippino Souza Silveira José Alejandro G. Sousa

BACHELOR OF ARTS, SECOND MAJOR IN SPANISH
Allison Block Zoila Cleaver Lorena Galván - Valenzuela

Fall 2004

DOCTORATE IN SPANISH AND PORTUGUESE
José Esteban Hernández,

Dissertation Title: Present Perfect Variation and Grammaticization in Salvadoran Spanish.

Kristina Knudsen Galindo,


MASTER OF ARTS IN SPANISH
Duane Garrett

BACHELOR OF ARTS IN SPANISH
Rebekah Bott Monica Duarte Rosina Jaramillo
Gerardo Martínez

BACHELOR OF ARTS, SECOND MAJOR IN SPANISH
Julieta Avitia Jeffrey Bauer Cynthia Bernal
José Chávez Becky Corral Carolyn Ehlers
Yolanda Flores Christina Hutchinson Shannon Martínez
Michael Redondo Sara Saavedra Lucia Sánchez
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Valarie Aguilar  Elizabeth Elston  Armando Lamadrid
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Kaiyra Salcido  Laura Waymire

**BACHELOR OF ARTS IN PORTUGUESE**

Carrie Thompson

**BACHELOR OF ARTS, SECOND MAJOR IN PORTUGUESE**

José G. Argüello  Desirée Kosciulek  Hannah Wolberg

II. **COURSES OFFERED**

A. **SUMMER 2004**

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C. Spring 2005

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III. DEPARTMENTAL HIGHLIGHTS

The Department of Spanish and Portuguese was active in terms of scholarship, teaching and service during the academic year. We put a particular emphasis on teaching this year and faculty focused on a multi-perspective pedagogical approach. 1. We continued our emphasis on closing the proficiency gap between our 200 and 300 level classes with faculty training in new pedagogical techniques, appointing a faculty member to work on further professionalizing our ABD graduate teachers who teach at the intermediate levels, and applying for and receiving a grant from the College of Arts and Sciences for faculty to do research and to attend national workshops on this level. We also connected with the Writing Across the Curriculum Program that the English Department is overseeing. The workshops will further professionalize our faculty who will then go on to train our advanced ABD teachers as almost all of our intermediate classes are being taught by ABD graduate students. 2. We also continued the professionalization of our graduate students by offering various workshops on aspects of the profession. Topics included Succeeding in Graduate School; A Modern Language Association Job Search Workshop on CV and Cover Letter Writing; a Workshop on Conferences and Abstracts; How to Prepare for the Modern Language Association Job Interview; a Dissertation Writing Workshop; and a Workshop on Fellowships and Grants. These workshops were given by various faculty members in the department and contribute to the successful job placement of our graduate students. 3. We continued to place emphasis on our Sabine Ulibarri Heritage Language Program which has continued to grow. Our language coordinator was moved from a lectureship to a tenure track Assistant Professor position in order to ensure the continued success of this program. These efforts are addressing long held concerns about proficiency and
outcomes in our undergraduate program and in better training of our graduate students as teachers and in their professional careers.

We continue to have a shortage of faculty and a plethora of students, particularly at the undergraduate levels. Our department has attempted to address the large influx of undergraduate students by adding classes, enlarging number of students in the classes, and hiring experienced and retired faculty members. Nevertheless it is clear that we need additional faculty to continue to produce excellent programatic goals. We were fortunate to hire a new Chair of the Department, Dr. Clancy Clements, a linguist from Indiana University, who will begin his duties in January, 2006. In the meantime Dr. Kimberle Lopez will be Interim Chair. As Dr. Enrique Lamadrid was hired to be the Director of Chicano/Latino/Mexicano Studies we continue to need faculty members in the area of Southwest Studies. Although Dr. Rebolledo will return to teach full time in Southwest Studies, the amount of both graduate and undergraduate students interested in pursuing degrees in the field demonstrates that additional faculty members in that area are needed. We have been approved to search for a faculty member in Peninsular literature for 2005-2006 and we have begun the process.

We held a successful national conference, the 13th Annual University of New Mexico Conference on Ibero-American Culture and Society in conjunction with the 8th Recovering the US Hispanic Literary Heritage Conference on November 5-6, 2004. Papers were given by over 65 professors and graduate students. This Conference continues to give national visibility to the Department and to UNM. In addition, we sponsored nine scholarly lectures, several theatrical presentations, creative readings and a symposium on Cervantes. One of our more successful events was the celebration of the 400th anniversary of the publication of Miguel de Cervantes'
Don Quijote, a continuous reading of the book in Spanish and English by over 200 readers recruited from the university and the community, including the President of UNM.

Our faculty continued working on their scholarly production. Faculty members published two books, eight articles, many book reviews and encyclopedia articles, and gave around 33 scholarly papers to national and international audiences. They were also active in presenting talks to the local community. Many other scholarly projects are in progress. They are also active in scholarly activities such as editorial boards, reviewing articles and manuscripts for publication, and working in professional societies. Likewise our graduate students were active. Narlan Teixeira published a series of poems in an anthology, and four graduate students read papers at conferences.

Various faculty members received prestigious awards. Dr. Enrique Lamadrid received the important Chicago Folklore Prize and the Southwest Book Award from the Border Library Association for his book Hermanitos Comanchitos. Professor Tey Diana Rebolledo received the Critica Nueva Award for Chicano/a Literature and the Alumni Association Faculty Award. Several faculty members received grants: as stated, Professors Milleret, Gonzales, and McKnight received a grant from the College of Arts and Sciences for Faculty Research and Development; Dr. Gonzales received a grant from the Teaching Allocation Committee and a Fellowship from the US Department of Agriculture. Dr. Lamadrid received an award from the Smithsonian Traveling Exhibits Service, and from the New Mexico Humanities Council.

Our faculty and students are active in service to the department, the university and the community. While their service record is too numerous to mention, many of our faculty members also serve as sustaining members of important UNM entities such as the Latin American and Iberian Institute and the Southwest Hispanic Research Institute as board members,
presidents of the faculty co cili um and so forth. Our Undergraduate and Graduate Advisors carry a heavy service load and all members of the department serve on MA thesis and Ph.D. dissertation committees both for our department and many other departments such as American Studies, Latin American Studies, Comparative Literature and English. Especially important to our department are the many faculty members who participate in Study Abroad Programs: Dr. Leila Lehnen took a group of students to Fortaleza, Brasil; Dr. Alejandra Balestra created a program to Buenos Aires, Argentina; Drs. Lamadrid, Eleuterio Santiago-Díaz, and Gonzales took students to Puerto Rico, and Drs. Lamadrid and Cardenas took students on the Pilgrimage to Santiago, Spain. All these programs were done without the aid or support of the University, on individual faculty time and interest. The University must find a method in which these programs can be supported without diminishing faculty creativity and energy.

Our department is also heavily involved in community and universities activities. We participated in Language Expo in which more than a thousand high school students came to the University in March 2005. We also participated in Find your Major Fair, International Students Day, Study Abroad Fair, American Indian Students Day, and Hispano Students Day.

Our department continues to excel in all areas of the university and in teaching, research and service in spite of the lack of faculty and a heavy service load. It was a lively and productive year.

A. STAFF CHANGES

No changes.

B. AWARDS

PROFESSORS
Enrique Lamadrid

For his book *Hermanitos Comanchitos*:

- Chicago Folklore Prize, October 2004 (oldest, most prestigious prize in the United States for ethnographic writing).

Tey Diana Rebolledo

- Alumni Association Faculty Award, Spring 2005, University of New Mexico Alumni Association.
- Crítica Nueva Award for Chicano/a Literature, October 2004, Zimmerman Library, University of New Mexico.

GRADUATE STUDENTS

Jessi Elana Aaron, ABD

- Latin American and Iberian Institute Field Research Grant, $986.00, June 15 – August 15, 2004. For travel to and within Mexico.
- Research Project and Travel Grant, $1,000.00, June 15 – August 15, 2004. For field work in Mexico.

Spencer Herrera, ABD

Regional Studies Dissertation Fellowship, $10,000.00, August 2004.
Sara V. Guengerich

Latin American and Iberian Institute Title VI Summer Fellowship, $2,400.00, Summer 2005. Foreign Language Studies, will study Quechua with the Cornell University Summer Language Program in Peru.

IV. DEPARTMENTAL ACTIVITIES

A. EVENTS

Lecture by Dr. Scott Schwenter, Ohio State University. Held in the Ortega Hall Reading Room.

Workshop conducted by Professor Kimberle López and covered such topics as the written and unwritten rules of graduate school, coordinating teaching and studying time and preparing for comprehensive exams. Held in the Ortega Hall Reading Room.

Workshop conducted by members of the Spanish and Portuguese Graduate Committee: Professors Kimberle López, Miguel López, Rena Torres Cacoullos and Catherine Travis. Held in the Ortega Hall Reading Room.
“Of Conferences and Abstracts: Everything you wanted to know about them, but were afraid to ask.” October 22, 2004.

Workshop conducted by Professor Anthony J. Cárdenas of the Spanish and Portuguese Graduate Committee and was “a hands-on gathering regarding the hows, withs, and wherefores of abstracts for conferences”. Held in the Ortega Hall Reading Room.


There were 56 sessions, two plenaries, and a mean of 22 persons in each session.

Presentations were delivered by over 65 professors and graduate students. Held in Ortega Hall, the National Hispanic Cultural Center, and SUB Theater.


Our graduate students participated in this event, as representatives of the department, by talking with prospective students, and handing out information regarding Spanish and Portuguese undergraduate degree programs. Held in the Student Union Building.

“How to Prepare for the Modern Language Association Job Interview.” November 12, 2005. Workshop conducted by Professor Leila Lehnen of the Spanish and Portuguese Graduate Committee. Topics included preparing for and conducting an MLA interview. Held in the Ortega Hall Reading Room.

Workshop conducted by Professor Kimberle López of the Spanish and Portuguese Graduate Committee. It focused on overcoming writer’s block with an emphasis on the practical approaches in dealing with the emotional and intellectual challenges that dissertation writing presents.

“Choose a Major Fair,” hosted by the Student Success Center. November 22, 2004

Spanish and Portuguese professors and graduate students represented the department at the fair by talking with prospective students, and handing out information regarding Spanish and Portuguese undergraduate degree programs.


Lecture by Steven N. Dworkin, University of Michigan. Held in the Ortega Hall Reading Room.


Students from Professor Anthony J. Cárdenas’s Medieval Literature course performed selections from these two medieval books.


Presented by Louise Popkin, the translator of the autobiographical novel by Mauricio Rosencof. Held at the Latin American and Iberian Institute. Co-sponsored by the Student Organization of Latin American Studies.
Conducted by Professors Kathryn McKnight and Catherine Travis of the Spanish and Portuguese Graduate Committee. Information presented to graduate students covered fellowship and grant availability at UNM, other sources of support and tips on the application process. Held in the Ortega Hall Reading Room.


“Dorotea’s Revenge: Sex and Speech Acts in Don Quijote, Part I.” February 25, 2005. Lecture by Dr. Anne J. Cruz, University of Miami. Candidate for Chair of the Department of Spanish and Portuguese. Held in the Ortega Hall Reading Room.

“Chicano Culture: Calibán, Quasimodo, and Other Familiars.” February 28, 2005. Lecture by Dr. Lauro H. Flores, University of Washington. Candidate for Chair of the Department of Spanish and Portuguese. Held in the Ortega Hall Reading Room.

“Ojos del sur, visiones del norte. La Fotografía de Santiago Harker.” April 7, 2005.

Fullbright scholar at UNM and visiting artist from Bogotá, Columbia presented his photographs – conferencia ilustrada - in room 153 of Ortega Hall. Co-sponsored by Chicano Studies.

“Celebración Quijotesca – Quixotic Celebration:”


A celebration of the 400th anniversary of the publication of Miguel de Cervantes Saavedra’s “El ingenioso hidalgo don Quixote de la Mancha.” A cover to cover reading, by UNM and community members of both books, in Spanish and English. Romances cantados were performed daily by Tomás Lozano. Organized by Professor Anthony J. Cárdenas, Joaquín Garrido of the Instituto Cervantes and the Organizing Committee - graduate students David Briggs, María de Abajo, Spencer Herrera, Sara V. Guengerich, Elvira Pichardo, Theodore Walker, David Wilde, María Teresa Villarroya. The department’s administrator, Rosario Johnson and administrative assistants; Maríafelix Treviño and Martha Hurd supported this event with promotional materials, community contacts and their vast problem solving expertise, along with Katharine E. Merrill who maintained the schedule of well over 200 recruited readers. Read in the Ortega Hall Reading Room and Ortega Hall Lounge.

The Alfred Rodríguez Lecture Series Presented “Some Recent Soundings in Quijote Criticism.” April 22, 2005.

Lecture by Professor James A. Parr, University of California – Riverside. Held in Ortega Hall Reading Room.

Simposio Cervantes/Cervantes Symposium, Poesía, and Reception, April 23, 2005.

Symposium featured Professors Alfredo Rodríguez, Edward Friedman and Howard Manning.
Poetry authored and presented by Angel González. Held at the Instituto Cervantes – National Hispanic Cultural Center.

These events were supported by the entire department’s faculty, teaching assistants and many of its students. Sponsored by the Department of Spanish and Portuguese and co-sponsored by the Instituto Cervantes, Spanish Resource Center, College of Arts and Sciences Lecture Series, Vice President of Academic Affairs, Spanish Colonial Research Center, Latin American and Iberian Institute, Foreign Languages and Literatures, Parking and Transportation, Pegasus Press, Chicano/Hispano/Mexicano Studies, and Media Technology Services.

Lecture by Professor J. Clancy Clements, Indiana University. Candidate for Chair of the Department of Spanish and Portuguese. Held in the Ortega Hall Reading Room.


**B. INVITED TALKS**

*Enrique Lamadrid*


- “Los Comanches: A Regional Tradition.” Fray Angélico Chávez Library Lecture
Leila Lehnen


Miguel López


Rena Torres Cacoullos

"Subjectification of grammatical morphemes: a variationist study of Spanish salir(se).”

The Department of Spanish and Portuguese, Ohio State University. April 2005. Columbus, Ohio.

Catherine Travis

• "The effects of interaction on structural priming: Subject expression in Spanish conversation vs. narrative.” Linguistics Program Colloquium Series, La Trobe University. March 10, 2005. Melbourne, Australia.


C. FACULTY PUBLICATIONS

Mirta Alejandra Balestra

Article in refereed scholarly journal:

Encyclopedia articles:
• New Mexico Acequia Association, Latino / Latina Anthology, Oxford University Press, June 2005.
• Luis Valdez, Latino / Latina Anthology, Oxford University Press, June 2005.
• Jesús Colón, Latino / Latina Anthology, Oxford University Press, June 2005.

Book review:

Leila Lehnen

Selected Conference Proceedings

Book Review
La literatura testimonial latinoamericana: (Re)presentation y (auto)construcción del sujeto subalterno by Gustavo V. García. Confluencia 20:2, May 2005.
Kimberle Lópex

Book reviews:


Miguel Lópex

Article in critical anthology:


Judy Maloof

Article in refereed scholarly journal:


Book review:

Kathryn McKnight

Article in refereed scholarly journal:


Edited journal:


Margo Milleret

Book authored:


Book review:


Rena Torres Cacoullos

Article in refereed scholarly journal:

Selected conference proceedings:


Co-author: Neddy A. Vigil.

Catherine Travis

Book authored:


Article in refereed scholarly journal:


D. GRADUATE STUDENT PUBLICATIONS

Narlan Matos Teixeira

Selected poems appeared in the anthology “*Concerto lírico a quinze vozes*” Published by Abrio Livre Edições: Bahia, Brazil.

E. PAPERS READ BY FACULTY

Mirta Alejandra Balestra


• "La lengua y la literatura como fuentes para el estudio de la historia regional y de frontera." Joint New Mexico State University – University of New Mexico Faculty and Graduate Student Colloquium, "Fieldwork in Latin America and the Borderlands: Challenges and Opportunities." Center for Latin American and Border Studies Nason House, New Mexico State University. April 22, 2005. Las Cruces, New Mexico.

Anthony J. Cárdenas-Rotunno


• "Of Dogs and Donkeys: From Juan Ruiz to Miguel de Cervantes." 40th International

**María Dolores Gonzales**

- “Entre la teoría y la práctica: enseñando español como lengua de herencia.”

**Enrique Lamadrid**

- “Nuevos caminos: New Directions and Regional Collections in Corrido Research.”
- “La Cautiva” Plácida Romero’s Search for Justice: the Rights of Hispanic Women in the

Leila Lehnen


Kimberle López


• "Fantasies of Consumption: The Discourse of Antropofagia in Contemporary Brazilian Culture." 58th Kentucky Foreign Language Conference, University of Kentucky. April 21 – 23, 2005. Lexington, Kentucky. Conference panel co-organized with Dr. Leila Lehnen
Miguel López

- "Researching violence and resistance in Ciudad Juárez literary and cultural production."
  Joint New Mexico State University – University of New Mexico Faculty and Graduate Student Colloquium, "Fieldwork in Latin America and the Borderlands: Challenges and Opportunities." Center for Latin American and Border Studies Nason House, New Mexico State University. April 22, 2005. Las Cruces, New Mexico.

Judy Maloof


Kathryn McKnight


Margo Milleret

· "How can we assess outcomes if we don't know students' needs?" SUN Conference on Teaching and Learning, University of Texas at El Paso. March 4 - 5, 2005. El Paso, Texas


Tey Diana Rebolledo

· "Las Claravidentes: Creativity, Gender and Ethnicity in Chicana Artists and Writers."

· "Dark Gifts, Silences, Public Secrets and Other Tales of Horror in Chicana Literature."

· "Nine dresses, two fine women's hats with gold ribbons and many other things suitable for the adornment of women and the home: New Mexican Women on the Colonial Frontier." El Rancho de las Golondrinas. February 24, 2005. Santa Fe, New Mexico.

Eleuterio Santiago-Díaz


Rena Torres Cacoullos

• “Usage-based associations vs. reanalysis in grammaticization: Spanish a pesar de.” Linguistic Symposium on Romance Languages 35, University of Texas. February 2005. Austin, Texas.
Catherine Travis


F. Papers Read by Graduate Students

Jessi Elana Aaron, ABD


Spencer Herrera, ABD


Soledad García-King

Sara Vicuña Guengerich


G. OTHERS RESEARCH PROJECTS OR CREATIVE WORKS IN PROGRESS OR COMPLETED

Mirta Alejandra Balestra

Co-director, with Dr. Celia López-Chávez, of research project “La lengua y la literatura como fuentes para el estudio de la historia regional y de frontera.” Programa Raíces, Universidad de San Juan, Argentina. July 2004 - (project was accepted by Secretaría de Ciencia y Técnica of Argentina, a final report will be written, and we are traveling to San Juan, Argentina to present the project results). A resulting paper from this research was presented at the Joint New Mexico State University – University of New Mexico Faculty and Graduate Student Colloquium, “Fieldwork in Latin America and the Borderlands: Challenges and Opportunities,” in Las Cruces, New Mexico.

Anthony J. Cárdenas-Rotunno

Fellowship:
Research Allocation Committee Fellowship, University of New Mexico, Summer 2004.

"Editing the Madrid Manuscript of the Libro del Caballero Zifar." $3074.00 Awarded May 2004. In Spain transcribed the Madrid manuscripts from microfilm printouts, and proofed them against the originals. Will transfer the corrections from the paper copy into the electronic format. The Hispanic Seminar of Medieval Studies publishing firm is interested in publishing the transcription in CD format along with a hard copy. The larger project remains in progress.

**Book introduction in progress:**

Introduction to Tomás Lozano’s forthcoming book on the sounds of New Mexico.

To be published by University of New Mexico Press.

**Encyclopedia Article forthcoming:**


**Quixotic Readings:** April 16-23, 2005. Celebrated the 400th anniversary of the publication of Miguel de Cervantes Saavedra’s “El ingenioso hidalgo don Quixote de la Mancha” with a cover to cover reading, by UNM and community members of both books, in Spanish and English. UNM, Cervantes Institute, National Hispanic Cultural Center. Came up with the idea of and planned for celebrating the 400th Anniversary in this manner; decided on details of celebration; secured funding for celebration. Achieved this with the help of a fine departmental staff and some great graduate students.

Maria Dolores Gonzalez

Grant:
• "Delivering Gems of Southwest literature in a digital-oral format for students."

Teaching Allocation Grant of $1720.00 from December 2004 through 2005. For the transference of literary materials written by New Mexican and Mexican authors to a digital-oral format, which will be integrated into the curriculum of the Spanish as a Heritage Language Program. (Materials to be recorded: Rosebud by E. Gonzales-Berry; Mi Abuela Fubaba Puros and Tierra Amarilla by Sabine Ulibarri; Inocencio, Ni pica ni escarba, pero siempre se come el elote más grande by Esteban Arellano; and various poetic entries by Ulibarri, Mora, Gonzales, Cota-Cárdenas, Cisneros, and Alarid. In progress.

• Collaborated on Faculty Development Proposal with Professors Margo Milleret and Kathryn McKnight. Funded for $7,000 by the College of Arts and Sciences.

Fellowship:

United States Department of Agriculture, Hispanic Serving Institutes Fellowship, Washington, D.C. July 1 - 21, 2004. One of 15 fellows comprised of professors, staff and deans from different universities who participated in daily workshops on funding sources and scholarship opportunities for Hispanic students. Met with Assistant Secretary of Education and National Endowment for the Humanities.

Enrique Lamadrid

Grants:

• "Nuevo México, ¿hasta cuándo?" New Mexico Component of Smithsonian Corridos Exhibit. Smithsonian Traveling Exhibits Service, $8,500.00.

• "Comanches en Nuevo México: Festival Symposium." New Mexico Humanities
Council, $2,000.00.

Creative Works:

Compact Discs

• "Nuevo México, ¿hasta cuándo?: Anthology of New Mexican Ballads."


Article in national festival guide


Museum curatorial


• “Nuevo México, ¿hasta cuándo?” Compiled, recorded, and produced the entire New Mexico component, including acquisition and loan of objects, photographs, and maps. On tour of community museums of New Mexico with TREX, Traveling Exhibits Service of the Museum of New Mexico. Venues: Silver City, January - May, 2005. Las Cruces June - September, 2005. (Curator)
- Museum of Spanish Colonial Art, "Nuestra Música Festival III." Lensic Performing Arts Center, Santa Fe, New Mexico. April 23, 2005. (Festival Curator, Producer, Master of Ceremonies)

Leila Lehnen

Articles in refereed scholarly journal forthcoming:

- "Ufanismo e identidad nacional en Antônio Gonçalves Dias y José Santos Chocano." *Diálogos Inter-Ibéricos* No.19. *Colección Cultura Iberoamericana* (Published by Universitas Castellae), Summer 2005. 30 pp. Accepted but not yet published.
- "Eating the Nation: The Meanings of Cannibalism in Glauco Ortolano’s *Domingos Vera Cruz.*" September 2004. 26 pp. Submitted to *Brasil/Brazil* and waiting for a response.

Kimberle López

Anthology in progress:

- *Carnal Fantasies: Cannibalism in Latin American Literature,* to be co-edited with Leila Lehnen for a university press.

Anthology chapter in progress:

Book in progress:

Close Encounters of the Taboo Kind: Sexual Near-Misses in Latin American Narrative.

On incest and miscegenation in nineteenth-century Latin American narrative.

Articles in progress:

• "The Cooked and the Raw: Cannibalism and Slavery in Terra Papagalli (1997)." Co-written with Leila Lehnen to be submitted to Luso-Brazilian Review.

• "The Monstrous-Feminine in Rómulo Gallegos's Doña Bárbara."

• "Consumer Cannibalism in Augusto Monterrosos's Mr. Taylor." To be submitted to Latin American Literary Review.

Judy Maloof

Article in refereed scholarly journal forthcoming:


Book chapter forthcoming:

• “El humor como una táctica subversiva en Mujeres de ojos grandes de Ángeles Mastretta,” in Revista de Literatura Mexicana Contemporánea, 2005.

Book reviews forthcoming:


• The Fifth Sun by Mary Helen Lagasse. Letras Femeninas, vol. 32, No. 1 (Fall 2005).

Encyclopedia articles forthcoming:

• Anzaldúa, Gloria. Encyclopedia Latina: History, Culture, and Society, edited by Ilan


**Kathryn McKnight**

**Grant:**

Developed with Professors Margo Milleret and María Dolores Gonzales. “Research and Training Funds for Bridging the Second-to-Third Year Program in the Department of Spanish and Portuguese.” Awarded by Dean Vera Norwood of the College of Arts and Sciences from Faculty Development Funds; $7,000.00; April 2005 through May 2006. In progress.

**Margo Milleret**

**Grant:**

“Research and Training Funds for Bridging the Second-to-Third Year Program in the Department of Spanish and Portuguese.” Awarded $7,000.00, April 2005, from Dean Vera Norwood, College of Arts and Sciences. Submitted with Professors Kathy McKnight and María Dolores Gonzales. The research project will examine curricular problems in the articulation of its second year language (200 level) and third year content courses (300 level). Instructors have expressed frustrations with the content, pedagogy, and skill-level of the students in these classes which bring together students with a diversity of linguistic proficiencies. Engaged in conducting or designing needs analysis
surveys are the undergraduate advisor, Kathryn McKnight, the coordinator of Spanish as a Heritage Language Program, María Dolores Gonzales, and the Portuguese Program supervisor, Margo Milleret. Alejandra Balestra, the coordinator for Spanish as a Second Language Program, is providing support to the research team. The expenditure of these funds will bring better information and improved skills to the task of training teaching assistants and course development in the previously mentioned programs, and will improve the key articulation between second- and third-year courses.

H. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES

Mirta Alejandra Balestra

• Organizer of the 8th Recovering the U.S. Hispanic Literary Heritage Conference, Department of Spanish and Portuguese, University of New Mexico, Albuquerque. November 4-6, 2004. (Duties: Fundraising for the conference, abstract evaluations, organization of plenary, and sessions, reading by Lucha Corpi). There were 56 sessions, two plenaries, and a mean of 22 persons in each session.

• National service. Board member of Recovering the U.S. Hispanic Literary Heritage Project, 2002-present. Duties: conference organizer, project information dissemination, attend board meetings.

• National Service. Elected Member of Southwest Hispanic Research Institute, 2003-present.

Anthony J. Cárdenas-Rotunno

• Read and evaluated an article for Publication of Modern Language Association.
• Read and evaluated an article for *La Corónica*.

**Enrique Lamadrid**

• Organizer of the 8th Recovering the U.S. Hispanic Literary Heritage Conference at the National Hispanic Cultural Center. November 2004. Albuquerque, New Mexico.

• Organizer of the “Comanches en Nuevo México: Festival Symposium.”

• Read Francisco Lomelí’s monograph *Miguel de Quintana* for the University of New Mexico Press.

• Read Marie Romero Cash’s novel for the University of New Mexico Press.

• Read Benito Córdova’s novel for the University of Oklahoma Press.

• Serve on the Advisory Board for the Smithsonian Center for Folklife and Cultural Heritage - three year congressional appointment 2002 – 2005.

• Editorial consultant for Multi Ethnic Literatures of the United States.

**Kimberle López**


**Miguel López**

**Kathryn McKnight**


**Margo Milleret**


**Tey Diana Rebolledo**

- Member of the Executive Committee of the Modern Language Association
- Member of the Editorial Board for *The New Mexico Historical Review*
- Member of the Editorial Board for *Arte Publico Press*

**Susan Rivera**

Rena Torres Cacoullos

- Member of the editorial board for *Southwest Journal of Linguistics*, through 2004.
- Refereed abstracts sent to the *Hispanic Linguistics Symposium*, held October 2004 at the University of Minnesota.

**Reader of articles refereed for professional journals:**


Catherine Travis

- Reader for 5th Hispanic Linguistics Symposium: 2 papers.

I. **OTHER PROFESSIONAL ACTIVITIES (EXHIBITS, OFF CAMPUS TALKS, ETC)**

**Mirta Alejandra Balestra**

• Facilitator of “Cultural Competence,” for the New Mexico State Bar Association Diversity Committee, April 30, 2005.

**María Dolores Gonzales**

• Keynote Speaker for the Northern New Mexico Community College Scholarship Dinner, “The strength of our roots sustains us through life’s transitions: Spanish, our Heritage Language.” November 6, 2004. Española, New Mexico.


**Enrique Lamadrid**

Coordinator of the New Mexico Endowment for the Humanities Speakers Bureau Chautauqua and Lecture Series.

**Judy Maloof**

• Evaluator of the National Endowment for the Humanities’ *Expressive Culture in the Hispanic Southwest: A Colloquium on Curriculum, Research, and Retention at An*


Kathryn McKnight

- Reader, Latin American Studies Selection Panel, Scholarships, National Endowment for the Humanities. Read 40 applications for year-long NEH fellowships, participated in one-day panel meeting in Washington, DC, July 2004.


Margo Milleret

- Member of the KUNM Radio Board. Fall 2004, Spring 2005.

- Member of KUNM sub-committee on Outreach. Attend orientation and program review meetings, re-work by-laws, review radio programs, review feedback from the public, work with station manager and program director.

- Participant in 2 KUNM fund-raisers in Albuquerque.

- Board Member and Orientation Coordinator, New Mexico Area Team AFS International High School Exchange Programs. Fall 2004, Spring 2005. Help organize
the infrastructure for hosting, sending exchange students, training host parents and liaison parents, organizing activities and trips for exchange students, and fund raising. Conducted 2 orientations hosting and liaison parents and for newly arrived exchange students.

J. NON-TEACHING UNIVERSITY, COLLEGE, AND DEPARTMENT SERVICE

Mirta Alejandra Balestra

• Spanish as a Second Language Program Coordinator: Teaching Assistant supervision: development of syllabi, exams and quizzes, TA observation and evaluation. Co-organization of Orientation Week. Implementation of *Almuerzos en español*, a twice-a-week meeting for SSL students, and interested 301 students, to further develop their Spanish conversation skills with the SSL TAs and Coordinator. Development of specialization courses: Integrating Technology into your Intro Spanish Course (online course, November 15, 2004); AVE Aula Virtual de Español (Instituto Cervantes de Albuquerque, Fall 2004). Recipient of *Oral Proficiency Interview* training from the American Council on the Teaching of Foreign Languages (April 6-7, 2005, Plano, Texas), training to be extended to the TAs.

• CAMINITO Study Abroad program director and founder, to Buenos Aires: Budget preparation, advertisement, composition of agreement between UNM and Universidad de Palermo; arrangement of classes and housing with Universidad de Palermo; organizer of orientation sessions and meetings, and tours to Cataratas del Iguazú and San Antonio de Areco, Prv. de Buenos Aires for 36 students.

• Director of 36 students in independent study courses for CAMINITO program, May 26-
June 24, 2005. Students composed final papers and prepared presentations about the trip for faculty and students.


- Leader with Ken Carpenter, “Promoting Cultural Awareness.” Workshop for UNM faculty who want to take students abroad. Sponsored by International Studies, Latin American and Iberian Institute, and the Study Abroad Advisory Committee. February 8, 2005. Dane Smith Hall.

- “Budget preparation to study abroad.” Workshop for UNM faculty who want to take students abroad. Sponsored by International Studies, Latin American and Iberian Institute, and the Study Abroad Advisory Committee, April 1, 2005. Student Union Building.


- Chair of completed PhD comprehensive exam committee for Loreto Catoira, Fall 2004.

- Director of independent study course for Sara Levin, Summer 2004.

- Director of independent study course for Philip Guengerich, Fall 2004.

- Director of independent study course for Rita Schexnayder, Fall 2004.

- Director of independent study course for Lauren Wellman, Spring 2005.

- Director of independent study course for Rita Schexnayder, Spring 2005.

- Member of the University’s Study Abroad Committee. Fall 2004 - to present.

- Member, Undergraduate Committee. Fall 2003 - to present.
Anthony J. Cárdenas-Rotunno

• Official undergraduate mentor, Ronald E. McNair Scholarship Program for Carrie Thompson (Portuguese major, Spanish second major) "Journey to Santiago." She walked the route to Santiago, Spain, and kept a journal of events and experiences, and put them in a power point format. Summer 2004.

• Chair of honors thesis for Charles Streeper, December 2004.

• Chair of honors thesis for José Argiello, May 2005.

• Director of independent study course for Charles Streeper, Summer 2004.

• Director of independent study course for Jorge Estrada, Summer 2004.

• Director of independent study course for Rosalba Ramírez, Spring 2005.

• Director of independent study course for Zuheil Alvarez, Spring 2005.

• Director of independent study course for Carrie Thompson, Spring 2005.

• Southern Methodist University, evaluated tenure and promotion dossier of E.K.

• North Dakota State University. evaluated tenure and promotion dossier of C.H.

María Dolores Gonzales

• Spanish as a Heritage Language Program Coordinator: Coordinated and organized fall and spring semester orientation, invited guest speakers, arranged trust building activities and a one day retreat in Embudo for all SSL & SHL teaching assistants - Fall 2004. Trained and supervised TAs, classroom observations and evaluated videotapes, met for weekly practicum, reviewed ICES with each TA. Curriculum development: working manuals, readers and syllabi; researched, reviewed and ordered new materials (videos, magazines, books, etc.). Supervised TA horario, exam and quiz preparation;
contacted professionals from other departments to give special workshops. Placement Evaluations: graded and discussed evaluations with approximately 400 students; met with department staff to develop orange card strategy; reviewed informational material for schedule of classes. Conducted a performance review of the Language Instruction Administrative Assistant

· Member of completed PhD comprehensive exam committee for Loreto Catoira, Fall 2004.

· Member of completed PhD comprehensive exam committee for Jaime Chávez, Communication and Journalism, Fall 2004.

· Director of student independent study course for Damián Wilson, Fall 2004 and Spring 2005.

· Director of independent study course for honors student, Jessica Castro, Spring 2005

· Director of independent study course for law student, Tyler Atkins, Spring 2005

· Facilitator for UNM Medical School’s “Health Care: Identity, Culture and Diversity” September 7 and November 16, 2004.

· Participant in the panel discussion on Bilingual Education for the Border Awareness Series presented by Justicia Sin Fronteras, December 1-2, 2004. University of New Mexico.

· Participant in the English Department’s Writing Across Curriculum Workshop February 28, 2005.

· Panel member of the Writing across Curriculum Colloquium, April 25, 2005.

· Member of the University’s Core Curriculum Committee, Fall 2004 – present.

· Member of the University’s Study Abroad Committee, Fall 2004 – present.
- Member of the Foreign Language Department’s Coordinator Search Committee
  September - October 2004.

- Member of the Department’s Undergraduate Committee, Fall 2004 – present.

- Member of the Department’s Graduate Admissions Committee, Spring 2005.

- Member of the Department’s Chair Search committee, Fall 2004 - Spring 2005.

**Enrique Lamadrid**

- Study abroad program director for the Nuevo México / Puerto Rico Learning Community Puerto Rico trip during spring break, 2005.

- Study abroad program director for the Camino Real Learning Community, Zacatecas, Mexico trip during the spring intersession.


- Reader of Rebecca Hernández’s completed PhD dissertation, American Studies, Spring 2005.

- Member of completed PhD comprehensive exam committee for Veronica Calvillo, Spring 2005.

- Member of completed PhD comprehensive exam committee for Loreto Catoira, Fall 2004.

- Official undergraduate mentor of McNair fellow Kathy McCully, Summer 2005.

- Official undergraduate mentor of McNair fellow Daniel García, Summer 2005.

- Member of the University Honors Council.

- Member of the Scholarship Committee.

- Member of the Search Committee for Director of the Office of International Programs.
· Member of the Search Committee for Director of the Southwest Hispanic Research Institute.

**Leila Lehnen**

· Director of the study abroad program in Fortaleza, Brazil June 13 – July 23, 2005.
· Director of Desirée Kosciulek’s honors thesis, Spring 2005.
· Director of independent study course for Desirée Kosciulek, Spring 2005.
· Member of the Undergraduate Committee fall 2004 - Spring 2005.
· Member of the Graduate Admissions Committee, Spring 2005.
· Evaluator of Portuguese Masters Exams, Fall 2004.
· Evaluator of Spanish American Masters Exams, Spring 2005.
· Conducted Departmental workshop How to Prepare for the MLA Job Interview November 12, 2004.
· Co-creator of the department’s Portuguese website, Fall 2004.

**Kimberle López**

· Reader of Shelli Rottschafer’s PhD dissertation “(Female) Collective Resistance and Art as a Creative Form of Subversion in Southern Cone Narrative during the 1970s-1980s Dictatorships.” In-progress.
· Reader of Miguel Ángel Estrada’s PhD dissertation “Espacio urbano y estrategias de
resistencia: La literatura fantástica en la narrativa reciente de la Ciudad de México.” In-progress.

- Member of completed MA comprehensive exam committee for Marty Carvlin, Spanish American Literature, Latin American Studies, Spring 2005.
- Member of completed MA comprehensive exam committee for Natalie Vogel, Spanish American Literature, Latin American Studies, Spring 2005.
- Coordinated and directed mock interviews for PhD students going on the MLA Job Market, December, 2004.
- Coordinated and directed workshop on dissertation writing, Spanish and Portuguese, November 2004.
- Coordinated and directed workshop on the MLA Job Search, Spanish and Portuguese, September 2004.
- Coordinated and directed workshop on transitioning to graduate school, Spanish and Portuguese, September 2004.
- Member of the Women’s Studies Executive Committee, Fall 2004 - Spring 2005.
- Member of the Comparative Literature/Cultural Studies Advisory Committee, Fall 2004 - Spring 2005.
- Member of the Graduate Committee, Department of Spanish and Portuguese, Fall 2004 - Spring 2005.
- Tenure Review of Carrie Chorba, Claremont McKenna College, California, Fall 2004.
Miguel López

- Faculty Advisor and Co-founder of the student organization *Justicia sin fronteras/Justice without Borders*, Fall 2003 - the present. JSF: brought film maker Matt Sneddon to UNM to present his documentary about Ciudad Juarez’s water supply problems, October 20, 2004; participated in panel on “Terror and Violence” at the International Symposium, November 15, 2004, sponsored by the Department of International Studies and; presented a two day Border Awareness Series that addressed such topics as Affirmative Action, Water Rights of the Rio Grande, Femicides of Cuidad Juárez and Bilingual Education, December 1 – 2, 2004.

- Chair of PhD dissertation for Miguel Ángel Estrada. In-progress.


- Official undergraduate mentor, Ronald E. McNair Scholarship Program with Laura Crystal Vega, “Historical Approaches to Chicano Literature.” Spring 2005.


- Director of independent study course for Adrean Flores, Spring 2005.

- Co-conducted Workshop on conference participation, Spanish and Portuguese, Fall 2004.

• Member of Graduate Committee, Spanish and Portuguese.
• Member of Grants and Awards Committee, Latin American and Iberian Institute.
• Member of Grants and Awards Committee, Spanish and Portuguese.

Judy Maloof
• Chair of PhD dissertation committee for Carmen Julia Holguín-Chaparro. In-progress.
• Chair of PhD dissertation committee for Shelli Rottschafer. In-progress.
• Reader of PhD dissertation for María de Abajo. In-progress.
• Reader of PhD dissertation for Miguel Estrada. In-progress.
• Reader of PhD dissertation for Olga Rios. In-progress.

Kathryn McKnight
• Undergraduate Advisor: Student advising, major/minor declarations, applications for graduation, review study abroad course plans; help select Lina A. Ruiz y Ruiz Memorial Scholarship winner. Honors coordination: review applications, oversee fulfillment of requirements, assist supervising faculty with guidelines. Set transfer equivalencies for Study Abroad programs and domestic transfers. Banner Catalog: coordinate redefinition of prerequisites for online registration checks.
• Spanish 301 (Special Topics Courses) Coordinator: Planned and directed five workshops; observed and wrote recommendations for several courses; provided feedback on syllabi; provided additional mentorship. Developed, directed, analyzed and produced a report regarding an on-line survey of 220 students in 301, designed advising...
• Chair of PhD dissertation committee for Benito Quintana, "The Americas in the Spanish Comedia: Myth, Religion, and Politics." In-progress.
• Member of completed MA comprehensive exam committee for Wendy Braun, Latin American Studies, March 2005.
• Member of completed MA comprehensive exam committee for Marty Carvlin, Latin American Studies, March 2005.
• Co-developed and ran workshop for graduate students on applying for fellowships and grants with Catherine Travis, January 21, 2005.
• Director of an Honors Senior Teaching in Spanish 307 for Sarah Sullivan, January – May 2005.
• Chair of the Undergraduate Studies Committee, Fall 2004 and Spring 2005.
• Member of the MA Admissions Committee, Spring 2005.
• Member of the Merit Committee.
• Member of Chair Search Committee for the Department of Spanish and Portuguese, Fall 2004 and Spring 2005.

Margo Milleret

• Coordination of Portuguese teaching assistants. Prepared a book of reading materials and met with the students during orientation week. Met every other week to set course objectives, develop testing and teaching materials, critique textbooks, etc. Prepared tasks for classroom use and for testing. Reviewed all the tests and visited classes.
• Portuguese Advisor. Meet with all students to sign paperwork, to decide on courses,
transfer credits from study abroad. Give exams to native speakers of Portuguese for credit, and evaluate students’ language skills for study abroad programs in Brazil.


· Chair of Christina Hutchinson’s senior teaching, graduated with Honor’s in Portuguese, December 2004.


· Reader of Shelli Rottschafer’s PhD dissertation, “(Female) Collective Resistance and Art as a Creative Form of Subversion in Southern Cone Narrative During the 1970s’-1980s Dictatorships.” In-progress.


· Chair of the Study Abroad Advisory committee Fall 2004 - Spring 2005.

· Faculty Advisor for the Brazil Club, Fall 2004 - Spring 2005.

· Member of the Activities Committee Fall 2004 and Spring 2005.

· Member of the Executive Committee for the Latin American and Iberian Institute. Fall 2003 – Spring 2005.

· Member of the Membership Committee, American Association of University Professors. Fall 2004 – Spring 2005.


Tey Diana Rebolledo

· Chair, Department of Spanish and Portuguese
Ex Officio, Search Committee for Chair of the Department of Spanish and Portuguese

The Core Curriculum Committee

The International Studies Committee

Chair, Executive Committee of the Latin American and Iberian Institute,

Susan Rivera

Chair of completed PhD comprehensive exam committee for David Briggs, "Toward a Further Understanding of Spanish Surrealism: Cante in Lorca and Alberti." October 18, 2004.

Director of independent study course for Dolores Ruiz-Fábrega, "The Image of Women in Spanish Film and Literature." Spring 2005.

Member of the Advisory Committee, Fall 2004 - Spring 2005.

As Associate Chair, member of the graduate and undergraduate committees.

Associate Chair, Fall 2004 - Spring 2005.

Member of the Chair Search committee for the Department of Spanish and Portuguese, Fall 2004 - Spring 2005.

Eleuterio Santiago-Díaz

Coordinator of campus public lecture by Dr. Stephanie Merrim, Brown University, "Sor Juana Inés de la Cruz." February 23, 2005.

Coordinated with SOLAS on two campus talks by Dr. Claude-Rhéal Malary, St. Mary's College of California. For the Department of Spanish and Portuguese, "The Haitian Subject in the Literature of Alejo Carpentier and Mayra Montero." February 17, 2005.
For the Latin American and Iberian Institute, "The Haitian Predicament." February 18, 2005.

• Co-coordinator of study abroad trip at the University of Puerto Rico, Spring Break 2005.

• Chair of completed MA comprehensive exam for Wendy Braun, Latin American Studies, March 2005.

• Chair of completed MA comprehensive exam for Natalie Vogel, Latin American Studies, March 2005.

• Supervisor of teaching practice option for honor student Jane Domínguez, Spring 2005.


• Director of independent study course for Andrea Martinez, completed research paper, "Puerto Rican literature." Summer 2004.

• Chair of Department’s Activities Committee, Fall 2004 - Spring 2005.

• Member of Latin American and Iberian Institute Caribbean Studies Subcommittee, Fall 2004 - Spring 2005.

• Member of Search Committee for African American Studies Program Chair, Fall 2004 – Spring 2005.

Rena Torres Cacoullos

• Graduate Advisor: convened graduate committee, consideration of graduate student petitions, departmental admissions, Latin American Studies admissions, student inquiries and mentoring; initiated proposal on policy changes, fellowship and grant
applications this year, led by Miguel López, called upon faculty to present workshops on job applications, abstract writing, and grant applications.

- Linguistics Courses Coordinator: convened meetings and coordinated linguistics faculty with respect to course offerings; division of mentoring responsibilities; adjustments to MA program; recruitment of students; invitation to speakers; participation in conferences; Linguistics web page.

- Coordinated the Spanish Phonetics (SPAN 350) and Advanced Grammar (SPAN 352) sections taught by TAs. Provided instructors with guidelines and materials, approved syllabi.

- Chair of Mayra Cortes-Torres’s PhD dissertation committee, “La perifrasis ESTAR + -NDO en el español puertorriqueño: ¿variación dialectal o contacto lingüístico?” In-progress.

- Chair of Matthew Alba’s PhD dissertation committee, “Hiatus resolution between words in New Mexican Spanish: A usage-based account.” In-progress.

- Chair of Elizabeth Hein’s completed MA comprehensive exam, Latin American Studies, March 2005.

- Member of the College of Arts and Sciences Interdisciplinary Committee on Latin American Studies, Fall 2004 - Spring 2005.

- Member of the department’s Chair Search Committee, Fall 2004 – Spring 2005.

Catherine Travis

- Reader of Mayra Cortes-Torres’s PhD dissertation, In-progress.
• Reader of Matt Alba's PhD dissertation, In-progress.

• Reader of Adrian Tien’s completed PhD Dissertation; Linguistics, University of New England, Australia. Spring 2005.

• Member of completed MA comprehensive exam committee for Brittany Kubacki, Linguistics. Fall 2004.

• Member of completed MA comprehensive exam committee for Elisabeth Hein, Latin American and Iberian Institute, Spring 2005.

• Member of Graduate Committee Fall 2004 - Spring 2005 helped run a series of workshops, in particular on grant and fellowship applications and conference presentations.

• Chair of the Personnel Committee for Linguistics Department, Fall 2004. In charge of faculty evaluations for merit-based raises.

• Member of the Computer Use Committee for the College of Arts and Sciences, Fall 2004 - Spring 2005. Conducted a survey to assess computer needs of UNM faculty.

• Library Representative for the Department of Linguistics, Fall 2004 - Spring 2005. Liaison between faculty and library - ordering books relevant to linguistics.

• Co-ordinator of Practice Talks for the Department of Linguistics, Fall 2004 - Spring 2005. Set up practice talks for students prior to conference presentations, including advertising the talks, coordinating sessions, etc.

• Member of the Search Committee for Linguistics Department, Fall 2004. Search for replacement for Professor Joan Bybee. Assessed and ranked all applicants, and identified four finalists.
Throughout the last academic year the Department maintained its pursuit of diversity, making efforts to attract women and minority groups. The Department issued contracts to sixty-one teaching assistants, twenty-seven of whom are Hispanic-Americans, three are of African descent, and thirteen are Hispanic individuals from such diverse places as Bolivia, Spain, Puerto Rico, Cuba, Colombia, Venezuela, Uruguay and Mexico. Our three Portuguese teaching assistants are all from Brazil, one of whom is an African-Brazilian. There is an additional Spanish teaching assistant from Japan. Women accounted for 62 percent of the total, of which seventeen are Hispanic. A total of five lecturers taught on a part-time basis, three of whom are women, and four of the total number are Hispanic. The work study team was composed of three students, all of whom are Hispanic, two are women, and our Graduate Assistant/Webmaster is from India.
Annual Report
Department of Speech and Hearing Sciences
July 1, 2004 – June 30, 2005

Submitted by
Janet L. Patterson, Associate Professor and Chair,
Department of Speech and Hearing Sciences

I. Significant Developments

A. Accreditation

The department’s first annual report to the Council on Academic Accreditation of the American Speech-Language-Hearing Association (ASHA-CAA) for the accreditation period April 1, 2004 – March 31, 2012 was submitted April 1, 2005 and was approved.

B. Mission Statement and Related Goals

A retreat, attended by all faculty and staff in the department, was held on Thursday, January 13, at a local bed and breakfast conference facility. Participants concurred that our mission statement continues to reflect the department’s identity, purpose, and values:

The mission of the Department of Speech and Hearing Sciences at the University of New Mexico is to support the missions of the University and the College of Arts and Sciences by:

1. Creating and disseminating knowledge in the academic discipline of communication sciences and disorders and in collaboration with related disciplines,
2. Pursuing excellence in clinical services as an applied component of students’ education, as a component of research endeavors, and as a benefit to the community, and,
3. Increasing the participation of culturally diverse populations in our disciplines and preparing our students to be leaders in a multicultural and multilingual society.

Strategies were identified for matching the activities of the department to our mission and, as a result of the retreat dialog, the following goals were incorporated into the department’s plan for distinction:

A. Improve integration of academic and applied clinical work as measured by:
   1. comprehensive exam performance
   2. ratings of student performance during the internship semester

B. Increase faculty research productivity as measured by:
   1. an increase in the number of peer-reviewed faculty research publications per FTE
   2. an increase in the number of external grant applications submitted

In addition, elements from the retreat were used in developing the department plan for excellence in undergraduate education:

C. Increase quality of undergraduate education
   1. Assess current writing opportunities and performance of undergraduate students
   2. Increase undergraduate student awareness of and involvement in research activities
   3. Foster integration of academic and clinical education through collaborative teaching and observation experiences.
C. UNM Speech-Language-Hearing Clinic

The following chart indicates the total number of sessions and the populations served by the Clinic for AY 2004-2005.

<table>
<thead>
<tr>
<th>Visits</th>
<th>Ethnicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004-2005</td>
<td>total</td>
</tr>
<tr>
<td>1645</td>
<td>1249</td>
</tr>
</tbody>
</table>

In addition to individual treatment for a wide range of speech and language disorders, the clinic provided group sessions for adults with aphasia, children that are language delayed, children with autism spectrum disorders, and transgender voice clients. The clinic also provided diagnostic and treatment sessions for clients wishing to modify their English pronunciation, many of whom are UNM graduate assistants whose first language is not English. Through our contract with the Albuquerque Public Schools, pre-school children identified in the APS “Child Find” program were seen for treatment at our clinic.

The department’s Client Services Fund contributed $805 towards services for two clients receiving speech-language therapy. The fund assists clients who cannot afford the department’s Speech-Language-Hearing Center fees for speech-language pathology services. The funds are provided by a gift from Charlotte and Keith Lough.

D. Acquisition of Equipment and Major Materials

In AY 2004-2005 the department acquired equipment essential for faculty and student research and for students’ clinical and academic education. A&S equipment funds provided funding for one adult therapy room and one therapy observation room that were equipped with a much improved system that enabled better client recording results for instruction through the purchase and installation of a pan tilt camera, flat panel TV, and state-of-the-art microphones ($2000). Installation costs and additional wiring were purchased by the department. The student lab was equipped with a computer, color printer, and laminator ($1361) enabling students to construct therapy materials and use specialized speech-language pathology computer software.

Other research laboratory equipment and computers were purchased from faculty start-up funds. The clinic and academic program benefited in addition to providing equipment for research by Assistant Professor Binger using start-up funds to establish a specialized program utilizing augmentative communication devices. Hardware and software costs were upwards of $11,000. Dr. Binger also purchased a desk top computer ($2139). Assistant Professor Palmer purchased a VitaStim ($1671) for therapy and research in the area of Ocularpharyngeal Muscular Dystrophy. Asst Professor Neel purchased a lap top computer ($1000) for Parkinson’s Disease research.

Two desktop computers were purchased for the department and clinic income and clinical course fees also paid for tests, protocols, and all treatment materials used in the clinic.
G. Comunidad Crecer

From May 17 to May 25, 2005, Clinic Supervisors Laurel Elrick and Elynn Molina-Cowden and a group of 8 students (4 Speech-Language Pathology and 4 Occupational Therapy) and 2 other professionals visited Comunidad Crecer, the rehabilitation center in Mexico City that has served as an educational site for our students since 1991. The group performed evaluations of children at the school, counseled parents, and provided equipment and materials to improve communication abilities of these multiply handicapped children. Professionals in the community donated wheelchairs and other adaptive equipment. The four SLP students were Jennifer Mowrey, Dara Pauley, Sasha Piper, and Stephanie Rich.

H. Rural Health Interdisciplinary Program

Our program continued to participate in this UNM Health Sciences program. The program includes interdisciplinary classroom sessions and clinical practice in rural communities. In addition to our speech-language pathology graduate students, the program includes medical, nursing, and physician’s assistants students, students in public health, pharmacy, respiratory therapy, occupational therapy, physical therapy, dental hygiene and social work. Our program has participated since 1994. One of our clinical supervisors, Katharine Blaker, serves as a Faculty Tutor, Steering Committee member, and Evaluation Committee member for the RHIP program, and one to four of our graduate speech-language pathology students participate each year.

I. Southwest Conference

The 14th Annual Southwest Conference on Communicative Disorders was held March 10-11, 2005, at the Wyndham Albuquerque International Sunport Hotel. The conference was presented by the UNM Chapter of the National Student Speech-Language-Hearing Association and chaired by graduate student Mary Becker with the assistance of faculty advisor Charlotte Lough. Twelve nationally-known professionals presented two full days of sessions covering a wide variety of topics in the fields of speech-language pathology and audiology. Approximately 300 students and professionals attended the event, which has become a primary continuing education source for the entire New Mexico speech and hearing community.

J. Physical Plant

Construction of department lab space and faculty offices as part of the Lobo Center business facility expansion project began in early January. The existing faculty wing was demolished and offices were relocated to modular units across the street from the department, causing considerable disruption to faculty and staff productivity. However, the end result will provide greatly needed research lab space and equipment. The expansion project is expected to be completed prior to the end of the fall 2005 semester.

Progress towards the construction of the department’s playground, a $75,000 gift from the Hanson Foundation, was delayed due to the Lobo Center expansion project. The playground will be constructed during early spring 2006.
II. Significant Plans and Recommendations

Only one senior faculty member, the current department chair, is available to guide four junior faculty, specializing in the area of speech-language pathology, to obtain tenure. Additional mentoring support is imperative to achieve the departmental goal of increasing faculty research productivity. A faculty search for a department chair is planned for hire beginning with AY 2006-07 and will add an additional senior faculty member to the department. Should the hiring process result in a hire that specializes in the area of audiology, an additional senior hire in the area of speech-language pathology is most desirable. If the hiring process results in a chair specializing in speech-language pathology, a position addressing audiology educational needs for our students will be needed.

III. Appointments to Faculty and Staff

Janet Patterson, Associate Professor, was appointed Department Chair beginning fall semester.

Cathy Binger, Assistant Professor, began employment in January.

IV. Separations of Faculty and Staff

Amy Wohlert, Professor, was appointed Associate Provost (promoted from Interim Associate Provost) effective fall semester.

V. Faculty Achievements

A. Publications

Neel, A.


Patterson, J. L.


Rodríguez, B.


Wohlert, A.B.  

B. Selected Presentations

**Neel, Amy**


**Palmer, Phyllis**


**Patterson, Janet**


**Rodriguez, Barbara**


**Vining, Christine**


C. Selected Service

**Ballachanda, Bopanna**

- Past President, New Mexico Speech-Language & Hearing Association  
- UNM Faculty Club Committee
Lough, Charlotte
- Member, NM Stroke Task Force
- Advisory Board Member, Society for Cognitive Rehabilitation, Inc.
- Area Representative, National Stroke Association
- State Representative, National Neurotrauma Registry

Palmer, Phyllis

Patterson, Janet

Rodriguez, Barbara
- Editorial Consultant, *American Journal of Speech Language Pathology*

Vining, Christine
- Editorial Consultant to review submitted manuscripts to ASHA’s *Language, Speech, and Hearing Services in Schools* (LSHSS).
- Reviewer/Consultant, Indian Health Service, Department of Health and Human Services.
  - Reviewed scholarship applications for health professions preparatory, health professions pregraduate and Indian health professions scholarship programs. Gaithersburg, MD: April 2005.
- Reviewer/Consultant, National Early Childhood Transition Center (NECTC), Diversity Work Group, University of Kentucky, Lexington, KY, 11/2003-present.
- Submitted grant to the University of New Mexico, Institute for American Indian Research (IFAIR) in March 2005. Grant funded to purchase research equipment for $600.00.
- Attended licensure board meeting to advocate for bilingual endorsement, now implemented in New Mexico Public Education Dept. July 19, 2004.
- VP for Professional Affairs, New Mexico Speech-Language and Hearing Association.

Wohlert, Amy
- Chair, Council on Academic Accreditation of the American Speech-Language-Hearing Association.

D. Honors, Awards

Rodriguez, Barbara
- American Speech Language and Hearing Association, Advancing Academic-Research Careers Award, $5,000.
VI. Outside Sponsored Research and Programs

National Institutes of Health/NICHD/Pennsylvania State University

Dr. Barbara Rodriguez continued her work on the NIH-funded research project, “Bilingual Preschoolers: Precursors to Literacy” (a two-year Minority Supplement Award for 2003-2005; funding for Spring 2004-Spring 2005 was $101,107). The purpose of this study is to examine the nature of bilingual language and literacy development in English/Spanish bilingual preschool children.

Albuquerque Public Schools

The department maintains a contractual arrangement with the Albuquerque Public School System. APS provided $65,847 for 2004-2005 to provide stipends and tuition for a graduate assistant, paid internships and tuition for two graduate students, partial salary support for two clinical supervisors, 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, 2004 through summer, 2005, 45 master’s students received their degrees. Of those reporting their prospective plans (11/45), the following sites of employment were represented:

- New Mexico public schools 33%
- New Mexico health care facilities 33%
- New Mexico private practice 9%
- Out-of-state 25%
- Further study (doctoral) 0%

Twenty-seven students received the Bachelor of Arts degree majoring in Speech & Hearing Sciences.

B. Honors and Awards

Gwyneth Sprouls, an undergraduate student, was awarded 1st place in the area of biological sciences for presenting some of the research data from the project, "Tongue Strength and Endurance in Patients with Oculopharyngeal Muscular Dystrophy," at UNM’s Undergraduate Research Symposium.

The following graduate students received funding and/or honors during AY 2004-05:

Crossman Scholarship: Sharlene Sandoval

Hood Scholarship: Brynna Benefield, Teresa Corbo

Porch Scholarship: Mya Colasurdo
Josephine Chen Scholarship: Kimberly Branch

New Mexico Graduate Scholars Award: Ellen Andres, Patricia Breen, Michelle Hargrave

Office of Graduate Studies Graduate Fellowship: Monica Toledo

Project BRIDGE: Antoinette Alderete, Sandy Frey, Nadine McDaniel, Marlaina Romero

Project LEER: Antoinette Alderete, Nadine McDaniel, Cindy Nguyen

UAF/LEND Program: Judith Ferdinand

SHS Graduate Assistantships: Trisha Aragon, Mary Becker, Brynna Benefield, Amy Beveridge, Teresa Corbo, Florina Cordova, Lynn Donaldson, Colby Green, Erika Olsson

APS Graduate Assistantship: Evelyn West, fall semester;
Tiffany Paulos, spring semester

C. Applications
There were 51 applications for 2004-2005 entry into the master’s program in speech-language pathology. We accepted 37 of those applicants and 24 enrolled in the program.

D. Enrollment
In spring of 2005, 92 undergraduate A&S students majored in Speech and Hearing Sciences and an additional 13 students in the major were registered in University College (43 Hispanic, 48 White/non-Hispanic, 8 American Indian, 1 Asian, 1 Black, 4 Other). The master’s degree program served 66 enrolled graduate students (33 White/non-Hispanic, 28 Hispanic, 2 Asian, 1 Black, 2 other). Approximately 30 students were taking courses in the department under non-degree status.

The total department course enrollment increased for AY 2004-05 as compared to AY 2003-04. Fall 2004 and spring 2005 was 1803 student credit hours (SCH) in undergraduate courses and 1037 graduate SCH. In summer 2005 students were enrolled in 4 undergraduate SCH and 273 graduate SCH.
1. Significant Developments

a. Post-doctoral Teaching Fellowship: Hired Ime Kerlee to serve as the first Post-doctoral Teaching Fellowship in Women Studies. She received her degree from Emory University in Women Studies; her specialty is global women and in particular women in the Dominican Republic.

b. Graduate certificate in WS: A 15-unit graduate certificate was approved by the Women Studies Executive board and is now moving through the campus and state approval process. Designed for students enrolled in MA or Ph.D. programs across UNM, the Graduate certificate enables students to earn a recognized concentration in Women Studies coursework.

c. The Executive Committee completed an overhaul of the undergraduate WS curriculum, which had been a mish-mash of courses with little articulation of overall focus or progress through levels of study. This is also in the processing of moving through the UNM approval process. A required set of core courses will be followed by a choice among five clusters: Feminist Theory, Social Science and Women, Literature/Film/Art, and Regional/Global.

d. Formalization of reading, writing, and research requirements: The Women Studies Program formalized a reading, writing, and research requirement for all Women Studies classes. A 1-unit Writing Research Lab will be a requirement in the new major.

e. Transition to joint appointments. With the 2004-2005 academic year, Women Studies implemented a program of 2-year rotating joint appointments from among full-time faculty at UNM. Karen Foss was the first such appointment; she will be joined by two others for 2005-2006. We hope eventually to have 5 joint appointments in place at any given time; this group will serve as the governing body for the program.

f. Visiting Professors and Researchers: Four WS faculty from around the world—the Canary Islands, Greece, Mexico, and Denmark—used the facilities of the Women Studies Program for research; two of these faculty taught in the program as well.

g. Offered the first Women Studies branch course. Feminine Sexuality was taught by PTI Rinita Mazumdar in spring 2005.

h. Offered the first Spanish-speaking course in Women Studies. Mexican Feminism was taught by Patricia Lopategui in spring 2005 and will be offered again spring 2006.

i. Director Gail Houston wrote a regular column in the Daily Lobo called “Feminist Space.”

k. Organized a day-long conference at UNM as a memorial to Gloria Anzaldúa on October 8, 2004. Between 35 and 70 participants attended each session. A book based on the conference proceedings will be submitted to the University of New Mexico Press in October 2005.

2. Plans and recommendations for the future:

a. We are working on the establishment of a permanent joint lecturer position with American Studies and Spanish & Portuguese respectively.

b. We are beginning a development initiative within the college, starting with the implementation of an alumni data base.

c. We will submit a proposal to the Freshman Learning Community in December 2006 to offer Wm St 200—Introduction to Women Studies in the FLC program.

d. We will bring two additional joint appointments to the program for the upcoming academic year.

3. Appointments to faculty/staff:

a. Teaching Assistants/Graduate Assistants: Kathryn Greysen, Kate Lehman, Patricia Perea, Fiona Sinclair

b. Part-Time Instructors: Maria Betancor, Ann Cacoullos, Angela Cooke-Jackson, Shari Evans, Doris Fields, Carol Horowitz, Dulcinea Lara, Patricia Lopategui, Rinita Mazumdar, Martina Myers, Lori Rudolph, Maya Sutton, Ann Skinner-Jones

Joint appointment: Karen Foss

4. Separation of faculty/staff:

No changes in permanent staff or faculty.

5. Publications of the division/publications of individual faculty/staff.


The Feminist Research Institute (FRI) was established in 1996 to promote scholarship on women, gender and sexuality and to create an intellectual community among feminist scholars at UNM. The director works with a board of 5-7 members. The FRI's mission during the year that I served as its director has been to reinvigorate the Institute and to create opportunities for women and feminist scholars to meet and work with others across their disciplines. My tenure began with the writing of a Cluster Proposal on Gender and Globalization in response to Provost Foster's request for proposals for strategic initiatives, as well as juggling Institute finances for the first 5 months without an official bookholder. On the positive side, AY 2004-2005 has also seen an active program of activities that provided a space for faculty and graduate students to present their own work, as well as two public forums with the general topic of "Challenges to Women in xxx." These larger forums will be continued into 2005-2006 under the direction of the FRI's new director, Anita Obermeier. The FRI also conducted a survey of campus climate issues concerning women in January 2005 and worked with the Office of the VP for Research to create a "Leading Edge" workshop on current research being conducted by and about women and gender at UNM. Finally, the FRI continued its program of awarding grants in support of faculty research and public events focusing on gender.

EXECUTIVE BOARD MEMBERS

Laura Andre Assistant Professor, Fine Arts
Glenda Balas Associate Professor, Communications & Journalism
Elaine Borrelli Student Program Director, Women in Science & Engineering

Program, College of Engineering

Gail Houston Professor of English; Director, Women's Studies
Natasha Kolchevska Director; Professor, Russian/FLL
Kate Lehman Ph.D. Student, American Studies
Alex Lubin Asst. Professor, American Studies

CHALLENGES FOR WOMEN IN POLITICS

On Wednesday, September 24, 2004, the FRI held its opening reception, which was preceded by a panel discussion with four of New Mexico's leading politicians: Lt. Governor Diane Denish, Attorney General Patricia Madrid, State Senator Dede Feldman and State Representative Danice Picraux. Prof. Virginia Scharff from the History Dept. moderated the panel. 50-60 people both from on and off-campus attended the event, which also received good coverage from the Daily Lobo and the Albuquerque media. The panelists agreed that politics is brutal but that the brutality of politics makes it difficult to recruit women to run for political offices and for women to remain there.
CHALLENGES AND OPPORTUNITIES FOR WOMEN IN HIGHER EDUCATION

This day-long conference on March 31, 2005 consisted of five panels and a keynote address by Dr. Janet Holmgren, President of Mills College in Oakland, CA. The five panels addressed both scholarship and women faculty's professional trajectories. The first panel included presentations by Deans and Associate Deans from the Colleges of Arts and Sciences, Fine Arts, Law, Education, and Nursing and was moderated by Prof. Jane Slaughter from the History Dept. Other panelists presented faculty research on gender, the challenges of academic writing, and on intercultural communication. There was also a roundtable on Equities and Inequities on the UNM Campus, at which faculty from UNM's Women's Caucus and the Economics Dept. who had conducted a preliminary survey and analyzed women's salaries across the ranks at UNM presented their findings. Among their findings were: yes there are gender inequities, more in some colleges than in others; and women continue to be underrepresented at higher academic and administrative levels. Following the conference, Provost Dasenbrock approved an expanded equity study, and the Women's resource Center is currently conducting its own, larger survey.

OTHER PUBLIC FORUMS

In the course of the year, the FRI presented a series of public lectures, brown bags and works in progress talks during the year. Alex Lubin from American Studies talked about his recent book on Palestinian and Jewish marriages in November. In February, Prof. Elizabeth Hutchison from the History Dept. talked about her work in progress on a history of Chilean domestic service. In March, Barbara Tyner, an instructor at TVI, presented a preliminary version of a paper she was to deliver at Oxford on women artists making their mark outside the academy. The year wrapped up with a presentation in April by Charlotte Krolokke, visiting professor from Denmark, on women and new technologies. Attendance at these ranged from ten to twenty.

CO-SPONSORED EVENTS

The FRI made major contributions to two gender related events on campus during 2004-2005. The first was the Technologies of Gender conference, co-sponsored by the American Studies Graduate Student Association and the FRI in March 2005, with about 70 attendees. The second was major co-sponsorship of the Oddly Observed Lecture Series in the College of Fine Arts, a series of four lectures by distinguished faculty and artists that attracted between 40 and 60 attendees during the spring of 2005.

The FRI also awarded smaller grants of $100-200 to programs in International Studies, Peace Studies, and the Departments of Spanish and Portuguese and English to co-sponsor scholarly lectures on topics concerning race, sexuality and gender.

With the idea of identifying scholars on women and gender across campus, the FRI worked with Denise Wallen in the Office of the VP for Research to put together a Leading Edge workshop in February of 2005 that was attended by about 15 faculty members as well as members of the VP's office. Women faculty from the Schools of Management, and the Colleges of Education and Arts & Sciences summarized current research and discussed possibilities for outside funding and collaboration.

GRADUATE STUDENT EVENTS

Since one of the FRI's goal is to promote research on gender and sexuality, in addition to co-sponsoring the Gender and Technology Conference, the FRI sponsored several workshops and s works-in-progress sessions for
graduate students, primarily from the departments of American Studies and History. One of the panels at the Challenges for Women in Higher Education was also devoted to graduate student issues.

AWARDS
The FRI's annual Graduate Student Paper Prize went to Birgit Schmidt-Rosemann, for her paper "'The Pleasure of Destroying it': Creating and Undoing Standards of Female Virtue in The Female Husband and Memoirs of a Woman of Pleasure." The FRI's Susan Geiger award for faculty research on an international topic went to Carmen Nocentelli, Assistant Professor of English and Comparative Literature to assist with research on her book project, Islands of Love: Europe, 'India,' and Interracial Romance, 1572-1673.

CHALLENGES
The most significant challenge for me as incoming Director of the FRI was the lack of administrative support in the first 4-5 months of my tenure. The situation improved considerably with Eva Lipton's hire in November as program coordinator for a number of interdisciplinary institutes, but since she needed to be trained in Banner there was still no accurate sense of our financial situation until the beginning of the spring semester. It was also at this time that a substantial reimbursement left over from the previous year needed to be paid, which reduced the current year's budget by $800. Concerned that there might be some other similar unpaid bills, I decided not to pursue other co-sponsorships during the spring semester, and cut back on another event that the FRI board had originally planned. Since contingencies like this can arise at any time, I think it is essential that the FRI be allowed to carry over a substantial portion of the $2000 in last year's allocation to this FY.

For the longer term, in addition to its scholarly mission, the FRI intends to continue to work with on-campus groups such as the Women's Caucus to monitor the work climate and professional status of women on campus. To that end, we will use the results of the survey conducted last winter, which polled women faculty's views of the challenges and opportunities that this work environment provides for them.