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THE UNIVERSITY OF NEW MEXICO

1999-00
ANNUAL REPORTS

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

Period of Report: July 1, 1999 to June 30, 2000

Submitted by Howard L. Smith, Dean

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

I. Significant Developments During the Academic Year

The Anderson Schools of Management
- As a result of the multi-year gift from the Ford Motor Company, completed renovation of The Schools’ Advisement and Placement Center, as well as all student organization offices.
- The Ford gift also provided for $100,000 to support faculty research, case studies and course development.
- The Schools revised the MBA curriculum to meet the changing needs of professional, advanced business education.
- The Schools updated computer laboratory facilities, with the addition of a 45-unit cluster for teaching and student work.
- The faculty and staff of The Schools furthered outreach in economic development activities by participating directly as committee members and leaders in the cluster workgroups of the Next Generation Economy Initiative.
- The faculty, staff and students of The Schools contributed to the development of the Ethics in Business Awards; particularly exciting was the fact that all nominee packages were developed by student teams from The Anderson Schools.
- The Schools continue to generate more credit hours per faculty member than any other division of the UNM community.

The Accounting Department
- Preparation and presentation of a progress report to accrediting body, the AACSBI.

The Department of Finance, International and Technology Management
- The Department continued to focus on expansion of the Management of Technology program as a strategic strength of The Schools.

The Department of Marketing, Information and Decision Sciences
- Generated 9022 credit hours, with a student enrollment of 3070.

The Department of Organizational Studies
- Coordinated the 9th UNM Universidad de Guanajuato (UG) Mexico Student Exchange.

II. Significant Plans and Recommendations for the Near Future
**The Anderson Schools of Management**

- Completion of the strategic planning process for The Schools, utilizing the input and resources of the faculty and staff alongside the Foundation Board and National Advisory Board.
- Complete revision of the mission statement of The Schools is planned.
- The Schools will continue to focus on community outreach, particularly in the area of economic development.
- The Schools will coordinate strategic planning and priority-setting efforts with the initiatives identified through the strategic planning process of The University.

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

### III. Appointments to Faculty/Staff

#### The Anderson Schools of Management

None to report.

#### The Accounting Department

- Heather Harwick joined the staff as a new department administrator.
- Michele Chwastiak was hired effective August 1999 as an Assistant Professor.
- Melissa Walters-York was hired effective August 1999 as an Assistant Professor.

#### The Department of Finance, International and Technology Management

- Jana Hranaiova, Finance Area, joined in summer 2000.

#### The Department of Marketing, Information and Decision Sciences

- Gerald Albaum joined the faculty as a visiting scholar in fall 1999.

#### The Department of Organizational Studies

- Crystal Rose was appointed to the position of Administrative Assistant, March 2000.

### IV. Separations of Faculty/Staff

#### The Anderson Schools of Management

- Jenny Lucero resigned as Administrative Assistant, April 2000.
- Peg Merrill resigned her support staff post.
- Leslie Oakes served as Associate Dean until June 30, 2000, when she returned to her teaching role in the Accounting Department.

#### The Accounting Department

- Jesse Dillard resigned as department chair effective May 31, 2000, taking a position at Central Florida University.
- Alistair Preston was on sabbatical leave for the academic year 1999-2000.

#### The Department of Finance, International and Technology Management

- Donald Simonson retired in December 1999.
- Donald Coes transferred to the Economics Department in fall 1999.

#### The Department of Marketing, Information and Decision Sciences

- Robert Rogers retired from his faculty post and joined the staff at Intel/Rio Rancho, May 2000.
- Stephen Burd was on sabbatical for fall 1999.
The Department of Organizational Studies

- Jaye Francis, Administrative Assistant, resigned as Administrative Assistant of the Department of Organizational Studies, March 2000.
- Monica North resigned from the Anderson faculty to take a position with the Albuquerque Police Department, June 2000.
- Robert Rehder retired from the Anderson faculty, June 2000.
- Yolanda Sarason resigned from the Anderson faculty to take a position at Colorado State University, June 2000.

V. Publications

The Anderson Schools of Management
All are reported in academic departments.

The Accounting Department

Dillard, Jesse F.

Bougen, Philip

Chwastiak, Michele
- "Deconstructing the Principal-Agent Model: A View from the Bottom" Critical Perspectives on Accounting, August, 1999, pp. 425-441.

Hamill, James R.
- Partnership's Ownership of Residence Does Not Deny Section 121 Exclusion. The Tax Adviser, Tax Clinic Section, June 2000, pp. 396, 398.
- Renovate Home-Sale Plans By Adding a Lease-Option, with Craig White, Practical Tax Strategies, May 2000, pp. 294-300.
- Fiscal-Year Individuals, with Maggie Zahm, The Tax Adviser, Tax Clinic Section, October 1999, pp. 690-691.
Mouck, Tom

Oakes, Leslie

Preston, Alistair M.

Togo, Dennis F.

Walters-York, Melissa

White, Craig G.
- Electronic Filing: The IRS Is Asking You for a Favor, Client/Friend (Fall): 4.

Young, Joni J.

The Department of Finance, International and Technology Management

Grant, Dwight

Kassicieh, Suleiman

Schatzberg, John D.
- “Evaluating a New Model of Software Piracy,” (with L. Schatzberg and D. Reid), Journal of Informatics Education and Research, Fall 1999 (pp. 37-51).

Vora, Gautum
See above entry; paper with Dwight Grant.
The Department of Marketing, Information and Decision Sciences

Albaum, Gerald


Bose, Ranjit


Bullers, William I, Jr.


Reid, Richard A.


Rogers, Robert D.


Schatzberg, Laurie


The Department of Organizational Studies

Champoux, Joseph


Corzine, Jan

Dry, Eddie

Gerde, Virginia

Logsdon, Jeanne
  - "Redefining the Corporation: The Performance Link," pp. 147-153. (With Donna J. Wood.)

Muller, Helen J.

Parkman, Allen

Porter, James
- "How Bell Manages Itself, New Mexico Business Journal, August/September, 1999, (With Rehder, R. & Adegon, L.)."

Rehder, Robert
- "How Bell Manages Itself, New Mexico Business Journal, August/September, 1999, (With Rehder, R. & Adegon, L.)."

Smith, Anne
- The following exercises and teaching notes were selected for publication in Helen Deresky’s International Management textbook (4th edition, 1999) or its instructors manual (Prentice Hall/Addison Wesley Longman):
  - “Myths and Realities of Globalization” and teaching note (textbook)
  - “AB Telecom Exercise” and teaching note (instructor’s manual)
VI. Outside Professional Activities of Staff Members

The Anderson Schools of Management

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

Parsons, Drew
- Completed Leadership Albuquerque program.

Shepherd, Shawn
- Regular contributing writer to New Mexico Business Journal.

The Accounting Department

Bougen, Philip
- Ad hoc reviewer, AAAJ.
- Review of Papers for Organization.

Chwastiak, Michele
- Editorial Board: Accounting Forum.
- Ad hoc reviewer: Critical Perspectives on Accounting; Accounting, Auditing and Accountability Journal; Accounting and the Public Interest.

Dillard, Jesse
- Accounting and the Public Interest (Editor, appointed 1999)
- Accounting, Auditing and Accountability Journal (Associate Editor, 1999, board member 1989-present)
- Editorial Board Member: Research in Accounting Ethics (1998-present); Behavioral Research in Accounting (1992-1993, 1996-present); Critical Perspectives on Accounting (1989-present); Accounting Forum (1996-present); Accounting and Business Society (1996-present); Advances in Accounting (1991-present).
- Board of Directors, Albuquerque Chapter, NM Society of CPAs (1998-2000)

Hamill, James R.
- Power & Communication Contractor’s Association, Mid-year meeting, 7/99, compensation planning for businesses.
- International Association for Financial Planning - Financial and Estate Planning Update, 4/00.
- New Mexico Society of CPAs: Board of Directors and CPE Director, Chair, CPE Strategic Plan Administration Task Force; CPE Selection Task Force; Speaker for Annual Tax Conference, December 12/99; Speaker for technical breakfast session.

Oakes, Leslie S.
- Committee to Review USDA Hispanic-Serving Institutions Education Grant Applications, 1999.

Preston, Alistair
- Postal ABC: What are Reasonable Expectations Postal Services Conferences Portugal (June 1999).

Togo, Dennis
- AICPA Accounting and Reporting Preparation Subcommittee to the Board of Examiners.
- Institute of Management Accountants, campus coordinator.
- Sandia Audit Intern Program Committee.
Walters-York, Melissa
- Member of the Association of Commerce & Industry, Albuquerque, NM.

White, Craig G.
- Designing and Selling a Charitable Remainder Trust as a Retirement Plan (with J. Hamill) at the New Mexico Society of CPAs’ December 1999 Technical Session.
- Cohosted a discussion with Representative Heather Wilson on R&D tax incentives for New Mexico Businesses (with S. Walsh) April 24, 2000.
- Treasurer, Easter Seals New Mexico.

Young, Joni J.
- Risk(ing) Metaphors presented as plenary paper at the Academy of Accounting Historians Conference on The Rhetoric of Accounting History, Toronto, Canada, November 1999.
- Ad hoc reviewer: Critical Perspectives on Accounting; Accounting, Auditing and Accountability Journal; AOS, Accounting Historian’s Journal, Accounting History, Accounting and the Public Interest.
- Provided proposal comments for John Wiley on FARS Casebook.

The Department of Finance, International and Technology Management
Grant, Dwight
- 1999 FMA Annual Meeting Program: reviewed 12 papers, organized and chaired one session at the annual meeting.
- The academic member of the board of the Financial Executives Institute.

Kassicich, Suleiman
- Program Chair for International Commercialization of MEMS conference to be held September 6-8, 2000 in Santa Fe.

Schatzberg, John D.

The Department of Marketing, Information and Decision Sciences
Baker, Kenneth G.
- Paper reviewer for three conferences.
Bose, Ranjit
- Summer faculty internship at Intel Corporation.

Bullers, William I, Jr.

Burd, Stephen
- Conference reviewer and session chair at AMCIS '99.
- Promotion review case for UAH.

Hozier, George C.

Ravinder, H.
- Greater Albuquerque Chamber of Commerce Quality of Life Planning Council meetings.

Reid, Richard A.
- Editorial Board of Environmental Quality Management.
- Chair of LANL Business Operations External Advisory Committee.

Rogers, Robert D.
- Reviewer for Western DSI conference.

Schatzberg, Laurie
- Associate Editor, Database.

Schultz, Carl R.

Shama, Avraham
Yourstone, Steven A.
- Manuscript reviewer for IEEE Transactions and Duxbury Press.

The Department of Organizational Studies

Champoux, Joseph

Corzine, Jan

Dry, Eddie

Gerde, Virginia

Hood, Jacqueline
- "Communication and Conflict in Organizations," invited presentation for the UNM Arts and Sciences Administrative Staff Retreat, September 1999.
- Effective Conflict Management," invited presentation for the Arts and Sciences Administrative Staff Retreat, September 1999.

Logsdon, Jeannie
• "Toward a Theory of Business Citizenship," Ruffin Lectures in Business Ethics, sponsored by the Olson Center for Applied Ethics, Darden School, University of Virginia, October 1999. (With Donna J. Wood.)
• Logsdon, J. M., and Gerde, V. W., "Qualitative Research Traditions in the Business and Society Field: Past Perspectives and Future Directions." Presentation/workshop at the International Association for Business and Society annual meeting, March 2000.

Muller, Helen J.
• Bitsie, T., & H. J. Muller, “A Pueblo Tribe’s Claim to the Sandia Mountains: A Conflict Among Diverse Organizations,” case study, North American Case Research Association 1999 annual meeting, Santa Rosa, CA, October.
• R. Rehder & H. J. Muller “Corporate Learning from Germany and Japan in Alabama and Austria, Western Academy of Management Annual Meeting 2000, Kona, Hawaii, (April).

North, Monica

Parkman, Allen

Rehder, Robert
• “Corporate Learning from Germany and Japan in Alabama and Austria," R. Rehder & H. J. Muller, Western Academy of Management Annual Meeting 2000, Kona, Hawaii, (April).

Smith, Anne

Young, John E.

VII. Outside Sponsored Research
**The Anderson Schools of Management**

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

**The Accounting Department**

White, Craig G.

Developing a Cost Model for MEMS Technologies (with S. Walsh) funded by Sandia National Laboratories.

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

Kassicieh, Suleiman; and Walsh, Steve T.

S. K. Kassicieh and S. T. Walsh "Technology Assessments for Sandia’s Intelligent Systems and Robotics Center" grant awarded for $14,000, 1999.

**The Department of Marketing, Information and Decision Sciences**

None to report.

**The Department of Organizational Studies**

Hood, Jacqueline

New Mexico State Highway and Transportation Department Research Bureau. Research Consultant, 1999-2003. Principal investigator and assistant investigator on several research projects, including staffing plan survey of 50 DOS’s, staff planning database development, benefit/cost of privatization, benefit/cost of research projects, and customer (public) needs survey. Received grant of $300,000 over 4 years.

Logsdon, Jeanne

Sloan Foundation Business Citizenship Grant 1999-2000, $15,000. (with Donna J. Wood.)
MEMORANDUM

DATE: November 22, 2000

TO: Brian L. Foster, Vice President and Provost for Academic Affairs

FROM: Ric Richardson, Associate Dean


This has been an excellent year for the School of Architecture and Planning. The School has appointed new program Directors for our professional degree programs in Architecture and Community and Regional Planning, and we are fortunate to have hired a director for our new Master of Landscape Architecture program. In June we were notified by the National Architectural Accreditation Board that the Architecture program received an excellent accreditation review with a 5 year time frame until the next regular review. In February the New Mexico Legislature voted to allocate 8.5 million dollars to the University for construction of our new facility, and in November the general obligation bond was passed by the citizen vote. Finally, we have hired three faculty members, two in architecture and one as a joint architecture and planning appointment. Attached are reports from the Architecture program, Planning program, the Institute for Environmental Education, and the Resource Center for Raza Planning.

c. Roger L. Schluntz, Dean
What follows is the Architecture Annual Report covering the period July 1, 1999 through June 30, 2000. The report below documents key developments and events in the program regarding personnel, curriculum, student life and activities, public events and outreach, and administrative reforms. The report also addresses faculty research and professional activities.

Significant Developments and Events

National Architectural Accrediting Board Visit

A team from the National Architectural Accrediting Board visited the Program in April 2000. The Team included:

Jim Anstis, West Palm Beach, FL, chair
Kin DuBois, Denver, CO
Tim Fowler, San Luis Obispo University, CA
John Carry, Washington, DC
Maureen Walter, Albuquerque, NM
Robert Campbell, Albuquerque, NM

In a report received in June 2000, the accreditation of the professional degree programs was extended for five years (the maximum period allowed). The report emphasized the many strengths of the program, and noted that there were no deficiencies in the student performance criteria.

Art in Public Places Forum

At the end of the Fall 1999 term, held a forum of artists, art critics and public art administrators on public art and public space. Mark Childs organized and raised funds for the event and Chris Wilson was moderator. More than 200 people attended.

John Gaw Meem Lecture Series

Several architects, historians, academics, and landscape architects participated in the School’s John Gaw Meem Lecture Series, as follows:

FALL 1999
Rhett Russo, Architect, New York NY, Strokes
Sunil Bald & Yolande Daniels, SUMO Architects, Ithica NY, & Ann Arbor MI, Architecture/Object
Jaap Vos, PhD, Assistant Professor, Department of Urban & Regional Planning, Florida Atlantic University, Planners, Public Participation, and Environmental Justice: Justice for All?
Jenice View, PhD, Co-Principal, View Associates, Washington DC, Role of Communities and Workers in Pollution Prevention and Mitigation

Beau Cloney, Beau Cloney Design, Charleston SC, Recent Works

Penelope Canan, PhD, Department of Sociology, University of Denver, SLAPPS (strategic Lawsuits Against Public Participation): Causes, Consequences

Jude LeBlanc & Brian Andrews, Architects, Atlanta GA, Interventions on the Third Coast

Jennifer Siegal, Principal, Office of Mobile Design, Associate Professor Woodbury University, Los Angeles CA, Relocation: Architecture in Transit

Michael Manfredi & Marion Weiss, Weiss/Manfred Architects, New York NY, Site Specific

Steve Viederman, President, Jessie Smith Noyce Foundation, New York NY, Corporate Responsibility in the Global Economy

Public Space & Public Art Panel, discussion moderated by Christopher Wilson, J.B. Jackson Professor of Cultural Landscape Studies

SPRING 2000

Antoine Predock, Architect, Albuquerque NM, Architectural Journeys

Norman Krumholtz, Professor, Cleveland State University, President American Institute of Certified Planners, Changing the Culture of Planning Towards Greater Equity

Bart Prince, Architect, Albuquerque NM, Recent Work

Mike Austin, Professor, University of Auckland, New Zealand, Post-Tourist Polynesia: Pacific Island Architecture

Emily Talen, Assistant Professor of Urban & Regional Planning, University of Illinois, Champaign-Urbana, Visualizing Fairness: Equity Maps for Planners

Michael Hughes, Visiting Assistant Professor, University of New Mexico School of Architecture and Planning, Constructed Hallucinations

Tia Berman, Assistant Professor, Tulane University, Material Topographies, Constructed Grounds

Annual Don Schlegel Lecture: David Heyman, Dean Undergraduate Programs, University of Texas, Austin, In On-Going Landscapes

Moustafa Mourad, Director, Community Planning, Enterprise Foundation, Columbia MA, Economic Development Community-Based Asset Building

Marilys Nepomechie, Architect, Miami FL, Recent Work

New Mexico Board of Examiners for Architects

The architectural registration board held one of its quarterly meetings at the School in November. The meeting included a question and answer session with students and faculty. The Board also sponsored a forum on internships in April 2000.

American Institute of Architects

The AIA Albuquerque held one of its monthly meetings at the school. The meeting, held in May, focused on the issue of internships.
AIA Awards

The American Institute of Architects awarded the following design awards to faculty and students in the Architecture Program:

**Students**
- AIA Henry Adams Medal
- AIA Certificate
- AIA Albuquerque
- AIA Santa Fe
- AIA New Mexico

**Faculty**
- Honor Award “High Bridge”
- Honor Award “Double Rainbow II”
- Merit Award “University Village....”
- Merit Award “Villa Untitled”
- Merit Award “Darden Oaks”
- Merit Award “Double Rainbow Interior”

Communications/Marketing

Landscape Architecture Magazine awarded its excellence in communications/marketing prize to the University Village Publication, produced by Brian Panasiti, Steve Schreiber and Dick Nordhaus.

Faculty

- Edith Cherry retired in Summer 2000, she is the School’s first Professor Emerita.
- Geoff Adams was appointed Visiting Assistant Professor for the period August 1999 through June 2000.
- Barbara Coleman, Lecturer, left the Architecture Program in May 1999 to pursue her painting and personal activities.
- Mike Austin (New Zealand) and Marilys Nepomechie (Florida) joined the faculty as visiting distinguished critics in Spring 2000.
- Stephen Schreiber announced, on June 30, that he had accepted the position as Director of the School of Architecture & Design at the University of South Florida.
- As the result of national searches in the spring, the Program will welcome the following new tenure track faculty in Fall 2000:
  - Mark Childs, Assistant Professor
  - Geoff Adams, Assistant Professor
  - Kuppu Iyengar, Associate Professor
- The following Visiting Professors will also join the faculty in the Fall 2000:
  - Chris Calott, Visiting Associate Professor
  - Christopher Domin, Visiting Assistant Professor
Curriculum

Curriculum Planning

The faculty has been involved in an extensive review of our graduate and undergraduate curricula. After much discussion, the faculty voted to approve significant changes to the pre-professional and professional programs, which will address deficiencies, observed by our accreditation board and will capitalize on our strengths. The new graduate curriculum will allow students to complete a fourth graduate studio instead of a project/thesis.

After review and approval by numerous School and University groups, the changes take effect in Fall 2001.

Evening and Weekend Degree Program

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

New Courses

- Auto Cad I, Steve Osborn, Summer 2000
- Constructed Hallucinations, Michael Hughes, Fall 1999
- Furniture Design, Michael Hughes, Spring 2000
- Art in Public Places, Mark Childs, Fall 1999
- Southwest Urbanism, Chris Wilson, Stefanos Polyzoides, Spring 2000
- Photography, Kirk Gittings, Spring 2000

Student Life

Architecture student groups were very active in 1999 - 2000. The program continues to have three organized groups, which are active in a broad range of areas:

- American Institute of Architecture Students (AIAS)
  The group sponsored symposia, workshops, mentorship programs, open houses and social activities (often in collaboration with the AIA).
- Society of Women in Architecture
  The Society sponsored dinners, lectures, film clips, receptions, and other activities.
- Native American Architecture Students
  The group sponsored mentorship programs, workshops, and lectures.

Student Awards

Architecture students received the following awards in 1999 - 2000:

Alphia Rho Chi

Martin Quiroga
BPLW Design Competition Award
Friends of the School for 1st year studios
Friends of the School for 2nd year studios
Friends of the School for 3rd year studios
Friends of the School for 4th year studios
Friends of the School for DPAC
Friends of the School for 500 level studios
Frontier Scholarship
Holmes and Narver Award
Letha Leitka Bazard Memorial Scholarship

Doug Patterson
David Kendall
Amber Walbridge
Rachel Hill
Eric Anderson
Jeffery Fleming
Daniel Chavez
Michael Antonio
Craig Folsom
Tanya Johnson

Faculty Research and Professional Work

Gabriella Gutierrez
Remains a principal in her firm of Morris Gutierrez Architects located in Houston. Currently, she has two architectural design projects in schematic design phase. Both are residential remodels in Albuquerque. Her submission to last year’s National Conference on the Beginning Design Student was accepted for exhibition. The proposal was about the Exhibition Wall in 200 Level and its use as a communication and pedagogical tool.

Christopher Domin
At the 53rd Annual Meeting of the Society of Architectural Historians at the Biltmore Hotel, Coral Gables, Florida, Christopher Domin presented “Paul Rudolph: Media and Medium.”

Mark Childs
Published an article on “Civic Ecosystems” a theory of urban morphogenesis. As part of his efforts to engage the general public in discourse about “good city form,” he wrote “Make Places for Ducklings” which was published in Designer/Builder. This article was funded by a Graham Foundation grant to Designer/Builder, and is part of a set of articles he has written for them.

Paul Lusk
Used the balance of his Regent’s Lectureship award of $4550 to complete the essential elements of the Greenroom/Cool-tower project, to test its performance, and to write and disseminate the results. This work is a prototype of an intentional design process to create beauty by pursuing performance.

Richard Nordhaus
During the past year, he has continued to actively pursue creative professional work with Steve Dent, on his own and through DPAC (Design and Planning Assistance Center). Nordhaus and Dent have just completed a remodel of a major public space, the Congregation B’nai Israel Sanctuary. They plan to submit the project for publication and recognition. Professor Nordhaus also provided leadership on the “Design Guidelines for Affordable Infill – Housing” project and actively participated on the production of guidelines themselves including layout and illustrating the publication.
He also published a full page article on affordable housing and the DPAC affordable housing infill project in the Albuquerque Tribune.

**Andy Pressman**

**Anne Taylor**

**Chris Wilson**
Drafted the introduction for a book on *J.B. Jackson and American Cultural Landscape*, and worked with eight of the selected authors, substantially rewriting two of their contributions. This manuscript, co-edited by Paul Groth, is currently being considered by outside readers to the University of California Press. He shopped a partial manuscript entitled *Facing Southwest: The Houses and Life of John Gaw Meem* (photographs by Robert Reck) to publishers, and secured a contract from W.W. Norton.

**Kramer Woodard**
The University of Texas at Austin School of Architecture appointed him the McDermott Lectureship. This prestigious award included a $24,000 salary and the Charles Moore House to live in during lectureship.
Community and Regional Planning
Annual Report: July 1, 1999 – June 30, 2000
Submitted by: Claudia B. Isaac, Director

What follows is the CRP Annual Report covering the period July 1, 1999 through June 30, 2000. The report below documents key developments and events in the program regarding personnel, curriculum, student life and activities, public events and outreach, and administrative reforms. The report also addresses faculty research and professional activities and funded research.

Significant Developments and Events

Barnraising

This year’s annual “CRP Barnraising” was titled “The Great Planner’s Divide: Land Tenure in Postmodern New Mexico”. Over 50 people attended, our highest participation to date.

The 1/2-day event began with a panel of land practitioners from Native American, Hispano and Anglo traditions who talked about land use and land management issues of “The Old West”. This panel was moderated by Monica Abeita, a CRP alumna, Planner in Taos County, and recent recipient of an award from the Society of American City and Regional Planning History. Moises Gonzales, a planner, land grant heir, and CRP graduate from Rio Arriba County spoke Hispano land tenure and the land grant system. Larry Rogers of the Navajo Trust Lands Office spoke about the intersection of Native and US Governmental values in resource management in Dine. Sid Goodhoe, a rancher from Capitan, New Mexico, talked about the history of the land practices of Anglo ranching, and spoke to the environmental implications of those practices.

All participants then broke into small groups to talk about land use and land tenure in “The New West” in an attempt to develop planning strategies that accommodate cultural, environmental and economic priorities. The “Tradition” discussion group looked at challenges to the current state of land tenure, specifically at the Federal Government’s role as land regulator. The group discussed the ramifications of abolishing governmental oversight on the traditional land rights of Hispanics and Native Americans. The “Migration” discussion group examined the trend of increased migration to the new west by outsiders seeking a rural lifestyle. The group discussed the consequences of this migration – gentrification, socio-economic divisions, and demand for urban services. The “Resources and Technology” discussion group discussed the impact of rapid development on the New West. The group examined the conflict between urbanization and environmental protection.

Ted Jojola, CRP Professor, then led a plenary session of the entire group, geared toward synthesizing the findings of the small groups and moving toward problem solving and common strategies. The day ended with a keynote speech by William deBuys, historian and essayist on continued challenges to consensus around land tenure in New Mexico, followed by a barbecue reception.

Professional Development Series: A Collaboration between the John Gaw Meem Lecture Series and New Mexico Chapter of the American Planning Association:

The CRP Program collaborated with the New Mexico Chapter of the American Planning Association to bring four illustrious planning practitioners and scholars to New Mexico to participate in the John Gaw Meem Lecture Series and to provide professional development workshops for students, faculty and members of the Albuquerque planning community. The general theme of the series was Equity in the Practice of Planning, and each participant gave a lecture on a Monday...
evening, followed by a 3 hours workshop the next morning. Each participant also contributed a working paper to the series Working Papers for Working Professionals published through the School's Center for Research and Development Working Papers Series. These working papers, and videotapes of the lectures and workshops, are available in the SAAP Resource Room and the City of Albuquerque Planning Department Library. Working Papers will also be available shortly on the NMAPA web site.

Participants:

Penelope Canaan, Ph.D.
Professor, Department of Sociology, University of Denver and Director, The Environment Institute in Denver.

"SLAPPs: Strategic Lawsuits Against Public Participation"

Norman Krumholtz, FAICP
President American Institute of Certified Planners and Professor, Levin College of Urban Affairs, Cleveland State University.

"Changing the Culture of Planning: Towards Greater Equity"

Emily Talin, Ph.D.
Assistant Professor of Urban and Regional Planning, University of Illinois Urbana-Champaign.

"Visualizing Fairness: Equity Maps for Planners"

Moustafa Mourad
Director of Community Planning, Enterprise Foundation, Columbia Md.

"Economic Development: Community Based Asset Development"

Visiting International Scholar

Carlos de la Parra, a natural resources planner from Colegio de la Frontera Norte in Tijuana, visited the CRP Program from April 10 through April 22, 2000. He met with students in 7 CRP classes to discuss the methodology and challenges of managing EcoParque, a research venue and ecological waste management system in Tijuana. He shared his insights on the implementation of community based planning principles in ecological planning, particularly viz. the use of social and environmental indicators as baselines for political debates about environmental planning in a presentation to the CRP community on April 18. He also met with students one on one to provide advice and insight into their class work and final professional projects.

Annual orientation event

In what is becoming a CRP tradition, new students had the opportunity in August to learn about the breadth and depth of planning directly from Albuquerque's professional community. At the August, 1999 event, municipal, regional, and community planners came prepared to discuss "How Can Planners Practice Community Based Physical Planning" with new students. The group, with strong representation by CRP alumni now working in local planning entities, focused their attention on what came to be seen as false distinctions between physical and social planning practice.. The discussion emphasized the need for integrated planning that respects community understanding about the design process, and reflects a coherent and respectful community vision.
Resource Center for Raza Planning

Though still largely student-driven, shifted from a student organization to a full-fledged Center within the School of Architecture and Planning. RCRP continues to engage in policy issues on growth and economic development in New Mexico, and promotes integration between higher education and traditional communities through the application of planning processes and techniques. During 1999-2000, RCRP partnered with the Rio Grande Community Development Corporation to research small business incubation. The Center sponsored a number of Pláticas on economic development, agricultural preservation and municipal planning.

In addition to the above programmatic efforts, RCRP students were funded by the J.B. Jackson Endowment to undertake a recruitment initiative to increase the numbers of qualified applicants to the CRP programs from New Mexico traditional communities. RCRP students made presentations in local high schools. They identified undergraduate students with interest in the program through flyers on campus, through word of mouth in social and human service agencies around the state, and by making a point of talking about CRP to anyone they thought would make good applicants. RCRP held 2 recruitment fares, where prospective students came in to ask questions of other students and professors regarding the application process, planning in general, and the rigors of the programs. They sponsored a CRP day, where prospective students became planning students for a day -- attending classes, associating with planning students, participating in projects, and talking with CRP professors. Throughout the semester, RCRP students acted as resource people to prospective applicants, making themselves available to answer questions about planning issues in New Mexico communities, the CRP Program, and the Resource Center.

ParaProfessional Training in Comprehensive Planning

In August, 1999, Professors Ted Jojola, Bill Fleming, and Adelamar Alcantara conducted a 3 day paraprofessional training in comprehensive planning in Dulce, New Mexico for the staff of the Community Development, Housing, and Natural Resources Departments of the Jicarilla Tribe. The training included training in indigenous planning theory, strategic planning methods and an introduction to resource inventories. Recipients received UNM Continuing Education Credit for the course, and produced hands-on preliminary plans for their program areas.

CRP Endowment

With initial donations from CRP Faculty members, the CRP Program instituted a "quasi-endowment" to begin to build the program's funding capacity for student support, faculty professional development, alumni outreach, and public events and symposia. Though the fund will not generate income for some time, the CRP Program will devote initial energy to building the principle through in-school and public donations. We hope to begin generating income by 2002.

Faculty:

Personnel

- Mark Childs was hired as an Assistant Professor of Architecture and Planning, with 40% participation in Planning (60% in Architecture). Prof. Childs, who served as a Visiting Professor in Architecture and Planning last year, will help build CRP strength in Urban Design and Physical Planning, and will contribute to teaching in the BAED Program.
• Christopher Callott was hired as an Adjunct Associate Professor, with 35% participation in Planning (65% in Architecture). He will contribute to professional practice and physical design teaching.

• There were no leaves, sabbaticals, or retirements among the CRP Faculty this year.

**Curriculum:**

**Curriculum Planning and Innovation**

The CRP Faculty has agreed to take on the management of the Bachelor of Arts in Environmental Design degree as a two-year pilot program. The program, until now administered by the Architecture Program, will be adjusted to emphasize the planning and landscape undergraduate emphases, and to prepare students for entry-level positions in those fields. The revised degree will also prepare students for graduate study.

In the MCRP Program, the faculty have agreed to initiate two significant changes in the CRP curriculum. Though "Land Use Controls" will still meet a core requirement, students may substitute "Community Growth and Land Use" as appropriate to their intended practice. The faculty also decided to limit the advanced studio options to "Advanced Planning Studio" and "Urban Studio". Students wishing to substitute a different studio for that requirement will now need to petition for that right.

In Spring '00, several CRP faculty members utilized a software package called WebCT to post course content and information on the web. In one course (Qualitative Research Methods), WebCT allowed a student to take the course from Ecuador without losing out on the discussion and feedback so important to a graduate seminar. In addition to facilitating communication among faculty and students, the use of WebCT allowed several CRP alumni and community members to "browse" in CRP courses over the course of the semester, with the professor's permission.

**New Course Development**

• Modeling the Environment (3 credit graduate seminar taught by William Fleming, Fall, 1999)

• Public Space and Public Art (3 credit graduate seminar taught by Mark Childs, Fall, 1999, cross listed with Architecture)

• City in History (3 credit upper division undergraduate course taught by Ned Farquhar, Spring, 2000, cross listed with History and Sociology)

• Community Economics (3 credit graduate seminar taught by Teresa Córdova, Spring, 2000)

• Southwest Urbanism (3 credit graduate seminar taught by Christopher Wilson, Spring, 2000, cross listed with Architecture and Landscape Architecture)

• Thesis/Project Completion Seminar (3 credit graduate seminar taught by Min Kantrowitz, Spring, 2000)

• Economic Development Workshop (4 credit graduate studio taught by Teresa Córdova and David Henkel, Summer, 2000)
International Perspectives on Communication and Conflict (3 credit graduate seminar co-taught by Juan Tausk (Communications and Journalism) and Ric Richardson (CRP), Summer, 2000

Community Outreach in Classroom Settings

In keeping with a long-standing tradition of client-based studios, CRP faculty and students have conducted several important studio projects within the region. 1999 – 2000 studios included:

- "Community Land Use Planning For A Traditional Agricultural Village, La Cienega" (CRP 521 Studio taught by David Henkel and Bill Fleming). The studio outcomes were (1) LESA (Land Evaluation and Site Assessment) as a tool with which the village could prioritize land uses and structure responses to proposals for changing land use, and (2) a land use map developed in cooperation with the Santa Fe County Land Use Dept. and the SF County Assessor’s office, required as a condition of the village being granted Traditional Historic Village zoning status. The status was conferred on La Cienega in June, and permits the village to formally enter into the land use review process.

- "Community History and Identity in Mountain Air" (CRP 510 Communications Studio taught by Min Kantrowitz, with Paul Lusk, Ric Richardson, Ted Jojola and Teresa Cordova). The studio produced a delightful public information brochure (in English and Spanish) and made connections with and brief final presentations to the local high School and the community health clinic.

- "University West SoLo Site Development Planning Studio" (CRP 520 Studio taught by Paul Lusk, Roger Schluntz, and Chris Callott, a collaboration between Planning, Architecture, and Landscape Architecture students). The studio worked in concert with the University (its client), the Spruce Park Neighborhood Association, and the City of Albuquerque to develop an informed strategy of design; set of guidelines for the "highest and best use" for the site’s development. The outputs were developed in keeping with the diverse interests of the university, contiguous neighborhood and the City as a whole.

- Multiple Projects (CRP 408, DPAC Studio, taught by Dick Nordhaus and Mark Childs, a collaboration between Architecture and Planning students). Team projects, each with a different client, ranged from a playground for an elementary school in South Broadway, to public art in Barelas, to proposals for emergency homeless housing in San Francisco. CRP Professors Min Kantrowitz and Ric Richardson, with CRP Student Tim Karpoff, worked in three successive afternoon-long workshops for the DPAC students. The first workshop was on Teamwork and Team Building; the second was on Project Implementation and Action Planning; and the third was on Building Presentation Skills.

- "Mountain View Community Overview: Economic Development Foundational Work for Bernalillo County Sector Plan for the Second Street Corridor" (CRP 570: Economic Development Workshop, taught by Teresa Cordova and David Henkel).

Student Life

Student Organizations

Planners in Latin America (PILA) continued to build on the success of its roundtable discussions with an October 15, 1999, PILA hosted a round table on conservation work in Latin America. Jim Tolisano from SUBIR discussed his group’s efforts to foster community based conservation in Ecuador.

The Student Chapter of the American Planning Association continued and enhanced their role in the local APA chapter. Student members played a significant role in planning the State APA
Conference in Taos in October 27 - 29, 1999. The UNM Student APA Chapter also assisted students at New Mexico State University and Doña Ana Community College to form new Student APA Chapters.

Student Awards

Monica Abeita's thesis, "Historical Community Development in North-Central New Mexico" won the 1999 John Reps Prize for Best Master's Thesis and/or Doctoral Dissertation in American City and Regional Planning History. The award was given by the Society of American City and Regional Planning History.

The following students received annual awards for excellence from the CRP Faculty:

- Frontier Scholarship In Community And Regional Planning (in recognition of academic excellence and commitment to progressive planning in his home state of New Mexico): Arturo Archuleta
- NMAPA Exemplary Practice Award (in recognition of her commitment to use their planning degree to further planning practice, and their embodiment of the principles of the CRP Program in professional life): Sarah Ijadi and KC Kress
- Outstanding Service to the CRP Program (in recognition of exemplary service to the collective governance and management of the CRP Program): Patrick Kraich and Sarita Nair
- Award for Outstanding Research/Scholarship (in recognition of exemplary academic performance, original research and contribution to peer and community planning audiences): Matt Foster
- Award for Community Building (in recognition of his enhancement of the intellectual, social, and emotional tenor of the CRP Program through service, team-building, communication and mobilizing resources for common purposes): Steve Lucero
- Award For Outstanding Service To The Wider Community (in recognition of exemplary practice that models the values of the CRP Program in service to popular and professional communities): Jennifer Glau and Angela Robbins.

Graduating Students

The following students graduated with an MCRP degree in the 1999-2000 academic year

Summer, 1999:

Robert Lambert
Todd Miller (with distinction)
Corrine O'Hara-Vaandrager
Mari Simbana
Kate Somers

Fall 1999:

Regina Chapman (with distinction)
Barbara Ford (with distinction)
Cynthia Geuss
Rachael Pitts
Kenneth Romig (with distinction)
Tony Sylvester (with distinction)

Spring 2000:

Alina Bokde
Matt Foster (with distinction)
Jennifer Glau
Eva Khoury
Kendra Montanari (with distinction)
Sata Nair (with distinction)
Lisa Nicolas (with distinction)
Kenneth Pin

Faculty Research, Professional Work (including research grants and awards received)

Teresa Córdova, Associate Professor

Awarded Hyde Chair of Excellence, Department of Community and Regional Planning, University of Nebraska, 1999


Plenary Panel presentation at Conference on Environmental Justice sponsored by the Community University Consortium for Regional Environmental Justice, Rutgers University, 1999.


"Bringing our Education Back Home", presented at La Conferencia Chicana: Journey to Aztlan , University of Wisconsin, October, 1999.

Received J.B. Jackson Endowment funding for RCRP Recruitment initiative, spring 2000.

Received University Student Service Award for Faculty, March, 2000.
Bill Fleming, Visiting Associate Professor


Received Deans Award for Teaching Excellence in Community and Regional Planning, 1999.

Received New Mexico American Planning Association Award in Education and Outreach (with Rich Schrader) for initiating and developing the New Mexico Watershed Watch Program, 1999.


David Henkel, Assistant Professor

Executive Committee Member, Association of Borderlands Scholars

Continuing Funding from USDA Fund for Rural America on "Rural Agricultural Enterprise Networks in North-Central New Mexico" (with Lynwood Brown)


"Self Help Planning in the Colonias", Small Town, Fall, 1999


Claudia Isaac, Associate Professor

"How Social Theory Informs Social Practice" presented at Fort Lewis College, April, 2000.

Received YWCA "Woman on the Move" for Education, Training and Development in March, 2000.


"Negotiated Investment Strategies as a Means of Ensuring Community Voice in Community Development" Discussant of presentation by Chuck Mathai: 'Keeping The Community in


Ted Jojola, Professor


"Urban Indians in Albuquerque, New Mexico: A Study for the Department of Family and Community Services", City of Albuquerque, August 1999.


$30,000 to produce Just Like Us: The Bataan Corregidor Experience in New Mexico.


Min Kantrowitz, Adjunct Associate Professor

"Communication with your Client", forthcoming in Andrew Pressmen (ed.), Communication with Your Client: A Decision Pyramid Approach to Design Excellence,

"Landmarks of the Mind", presented at the Western Social Science Association meeting, Texas, 1999.


Juror/ Selection Committee Member, Rudy Bruner Award for Urban Excellence, April 1999.

Paul Lusk, Associate Professor


"The Albuquerque/Bernalillo County Comprehensive Plan", present to the 1st Open Space Advisory Committee Meetings, December, 1999.

1999-2000, UNM Regent's Fellow

James (Ric) Richardson, Associate Professor


$50,000 grant from the McCune Foundation to develop a Strategic Plan with the Albuquerque Historic Neighborhoods Alliance.

Challenge Grant from the EPA (collaborating with the City of Albuquerque and Consensus Builders) on the development of Green Builder Industry in the metropolitan region.

Consultation to the US Forest Service on the public participation portion of the "Giant Sequoias Management Plan" for northern California.


Design and Implementation of "Training Program in Alternative Dispute Resolution" for the Governor's Cabinet, June 2000.


Steering Committee Member, Consortium for Research and Assessment of Community Based Collaboratives, based in the Institute for Environmental Negotiation at the University of Virginia.
October 30, 2000

To: Dean Roger Schuntz
From: Teresa Córdova, Director, Resource Center for Raza Planning
Re: Report of RCRP for period July 1, 1999 to June 30, 2000

We formed The Resource Center for Raza Planning to promote integration between higher education and our traditional communities through the application of planning processes and techniques. RCRP conceives planning as multi-disciplinary, intergenerational, directly responsive to community needs, and developed through ongoing, long-term relationships. We deal with issues such as land use, land ownership, infrastructure, transportation, water rights, water use and quality, agricultural preservation, economic development, and a multitude of other planning issues.

The Resource Center for Raza Planning has four major objectives:

1. Produce, compile, and distribute educational materials
2. Generate and nurture a pipeline of individuals interested in planning and development issues
3. Produce research and policy analysis of planning issues
4. Partner with other organizations to promote sustainable economic development strategies

I am very pleased to update you on the progress of the RCRP in the last twelve months. Our work, we believe, is a credit to the School of Architecture and Planning and to the University of New Mexico. We have provided an excellent example of community/university partnerships.

Our goals for the previous year were to: 1) print and circulate our publications; 2) increase the pool of potential planning graduate students through outreach to undergraduates and community; 3) produce research and policy analyses; 4) sponsor workshops and platicas (small group discussions); 5) firm the organizational structure and complete by-laws and organizational chart; and 6) seek additional funding. I am pleased to report that we achieved these goals and more.
1) We printed and circulated several of our documents including *Planning in the South Valley: Previous Efforts, Obstacles, and Plan Implementation Strategies; Methods, Strategies, and Implementation of Agricultural Preservation in the South Valley*; and *a Guide to Planning Information in the Albuquerque Area*. In fact, we attended a meeting in the South Valley where a visitor from the Aspen Institute was recommending to the audience that they should read one of our documents, not knowing that we were in the audience.

2) We are directly responsible for recruiting eight of the entering graduate students into Community and Regional Planning. Each of these students is bright, highly motivated, and hardworking. We are continuing to provide these students mentoring and support. We also applied and received a J.B. Jackson grant to increase our recruitment activities and the pool of entering graduate students.

3) We sponsored several workshops on community economic development. We were fortunate to have some very prestigious experts join us for these series of workshops, including a former Mayor the City of Berkeley who was also the Executive Director of the Dudley Street Neighborhood Initiative (in Boston), one of the most famous examples of community based planning. Also joining us were two individuals from the Economic Development Office while Harold Washington was the Mayor of Chicago. Participants at these workshops included graduate and undergraduate students and community members representing several organizations.

4) We finalized our organizational structure, by-laws and a statement of principles.

5) We sought additional funding for RCRP. In addition to the JB Jackson grant, we applied for and received a $400,000 grant from HUD for Hispanic Serving Institutions Assisting Communities. We received two fellowships for students from the Center for Regional Studies. We also received $10,000 that we have used to support our activities, hire a graduate student for staff, and purchase a computer.

6) In addition to reaching our goals from last year, we engaged in a economic development project that led to our writing the Economic Development language for the Southwest Area Plan of Bernalillo County. This was a major feather in our cap in that we produced high quality work in a short period of time that is being directly used in a planning document. Thus far, the reaction of County Staff and County and City Commissioners is very positive.

7) We also produced an analysis of a proposed five-lane road on Isleta Boulevard for County Public Works. We conducted a door-to-door survey to provide the data for this report. Both the Isleta Project and the SWAP project demonstrated our ability to produce sophisticated work that is a credit to ourselves and to the University.

8) We also conducted several community meetings for Mountain View Neighborhood for a possible sector plan in the 2nd Street Corridor. We provided the neighborhood
association infrastructure data on their sector; the results of a visioning process; and
demographic information on their neighborhood.

9) We have built an exciting and vibrant community of young planners who are
passionate, hardworking, intelligent, and are committed to one another.

Our goals for the coming year include continuing publications, workshops, recruitment,
and grantwriting. In addition, we will continue our work on the economic development
section of the SWAP to see it through. This will involve attending and testifying at public
hearings, helping to develop compromise language, etc. In addition, we will provide a site
assessment of a proposed learning center in the South Valley and we will assist a local
community development corporation in its building of a small business incubator. The
HSIAC grant will keep us very busy conducting community assessments and program
development.

We also seek to build capacity and skills of Center affiliates, most of whom are New
Mexico natives and to enhance the learning process here at UNM through direct
involvement in planning processes and techniques.

The Center functions out of my office in a very small space with one computer. A further
goal is for the fifteen or more students who work out of the Center to have a place where
they can more effectively conduct their work. An important goal is for the Center to have
space in the new building.

We are pleased that we are able to serve both UNM and New Mexico communities. We
appreciate the support that you have provided us.

cc. Professor Ric Richardson, Associate Dean, SAAP
INSTITUTE FOR ENVIRONMENTAL EDUCATION

ANNUAL REPORT

ANNE TAYLOR, PH.D., Hon. AIA

Fall 1999-Fall 2000

MISSION STATEMENT

The Institute for Environmental Education (IEE) is the leading developer and provider of an innovative and comprehensive model of education and related services for learning environments and design education.

The Institute for Environmental Education has three operational missions:

1. To promote design education for teachers, children and community through the use of an integrated model of teaching and learning borrowed from the architectural design studio.

2. The Institute acts as a research and development center, which addresses learning environment design and its effects as well as architectural and educational programming issues.

3. The IEE acts as a repository for information pertaining to the above areas of research and development.

GOALS AND OBJECTIVES

The IEE has three goals and objectives for the Institute which include:

1) the training of teachers in the Albuquerque and New Mexico area as well as nationally and internationally in design education

2) the development and delivery of design academies for children

3) facilitation of new programming and processes for school facility design.
The training uses a well tested curriculum (Architecture and Children) and site specific supplemental curricula to teach architecture and design to children using math, science, social studies and art in a real life format. By empowering youth to take responsible action in their communities, the Institute is educating a new kind of participant in the design process: one already informed and aware of the value of good planning and design. This program also gives youth a chance to participate in democratic decision making and to make known their ideas through competent visual and verbal communication, both in school and in their communities.

Summer classes in design education are planned to help children have a total immersion in architecture and design. Architecture students are learning how to teach and perhaps someday, the IEE will offer a non-architectural degree program to certify architects to teach in the schools.

Programs to facilitate new thinking in school facility design are being planned as well as the compilation of research on the effects of environment on learning which is beginning to emerge on a national scale. Taylor was a member of the Design Share jury to judge some of the best new school designs in the country.

STAFF OF THE INSTITUTE FOR ENVIRONMENTAL EDUCATION 1999-2000
Anne Taylor, Ph.D., Hon. AIA, Director
Swati (Tina) Patel, M. Arch., Associate Director (until March 30, 2000)
Jean Marie Krygowski, Research Associate (until March 30, 2000)
Juli Cobb, Program Director for Summer 2000 Design Academies
Lyset Solis, Work study
Lisa Thomas, Consultant Youth Build

Consultants for summer program:
Mannie Juarez
Krystine Graziano
David Kindel
Mark Kimball
Natalie Olson
Judy Marquez

Summer Design Academy Assistants:
Taylor Blueher – 11 years and former student
Steve Sagenbach 13 years and former student

Institute for Environmental Education report Fall1999-Fall2000 – Anne Taylor, Dir.
FUND RAISING
Taylor spent the first semester working with Pam Hurd-Knief making a plan for fund raising for the Institute. She set up a $10,000 gift from an anonymous donor as a seed for a larger endowment to support the Institute for Environmental Education. A data base of trained teachers, friends of Architecture and Children and potential donors is underway. Several grants have been written and some funded:

Written:
National Science Foundation – Japan exchange in New Mexico
Japan Foundation – Japan exchange in New Mexico
Barnard/Fain Foundation – for translation of Architecture and Children curriculum into Spanish
Intel – concept paper
Junior League and Albuquerque Community Foundation UNM walking tour.

Funded:
Junior League and Albq. Community Foundation – $5,000
   To publish a UNM walking tour for children
NM Legislature – Rio Grande Educational Collaborative - $125,000
APS and College of Education and others –
   Harrison Middle School Design Center $69,000
Youth Build- Design Academy for Students from School On Wheels $ 1200.
New York City Schools exchange to train teachers - $50,000

DATA BASE
Liset Solis has been working on a data base for potential funders for the IEE. The data base includes:
• Friends of Architecture and Children
• Parents of Children who have taken the Design Academies
• Corporations and larger single donors who know Taylor and the program

GRADUATE COURSES TAUGHT BY TAYLOR
Architecture and Children – Architecture students teaching in the schools
Thesis Prep – Students wrote proposals and posters explaining their research displayed in the School of Architecture and Planning
Research Methodology – Methods of research as applied to proposal writing for graduate students.
Thesis advisement
Independent Studies

3 Institute for Environmental Education report Fall1999-Fall2000 – Anne Taylor, Dir.
NACARB VISIT – Accreditation

Taylor had dinner with the examiners, they visited the Institute and viewed a display of the work we do with teachers and children. This exhibit was displayed in the upper halls of the SAAP.

RESEARCH, PUBLIC OUTREACH AND SERVICE

1 Harrison Middle School Design Center
The established design center is still functioning at Harrison Middle school.
Patel and Grygowski trained teachers from APS to teach design to children. They also trained over 300 children. During the summer the trained teachers ran programs for over 50 children. A training notebook was written by Patel adapted from the Architecture and Children curriculum.
Note: The Harrison school principal liked the design studio so much that he hired a full time art teacher to carry on the work of the studio during the year and many children throughout the school are taking design classes and loving it. The teacher is Julie Stouffer. Dr. Amy Atkins from the College of Education is co-sponsoring the design studio and will be evaluating the results of the studio.

2 School on Wheels classes – two contracts
Youth Build classes
Lisa Thomas taught two sessions of classes with 30 students each for School on Wheels. High school students loved the class so much that they begged for an additional 16 week course. We are negotiating other classes for this youth group and will be teaching at the School of Wheels in the fall of 2000.

3 Montezuma Elementary School
Taylor and architecture students Juli Cobb, Sandee Jensen, Cheryl Harris, Mannie Juarez, Atsuko Sakai continued teaching architecture and design at Montezuma school in preparation for an exchange with the Japanese Ashinokuchi Elementary school in Sendai Japan. Seventy-five fifth grade students learned architectural conventions and built models of sustainable housing in preparation for a selected few to go to Japan and to be exhibited at the Science museum in Sendai. Three fifth graders were chosen to go to Japan along with four architecture students and Dr. Taylor.

4 Japan Cultural Exchange - Architecture and Children Network
In March, three fifth grade students from Albuquerque’s Montezuma Elementary School and faculty and students from the University of New Mexico School of Architecture and Planning traveled to Japan with Dr. Anne Taylor. The American students and their counterparts from Ashinokuchi Elementary School in Sendai shared their designs for ecologically friendly houses of the future as part of a cultural exchange program involving home visits, Architecture and Children workshops, and sight seeing opportunities which included looking at the modern architecture and bridges of Tokyo. All American visitors participated in home stays, and a symposium given at the museum. (see attached newsletter for more news, photos and sponsors of the project).

5. Design Academies
Julie Cobb assisted by Lyset Solis and Mark Kimball organized two summer Design Academies. For the first time the IEE offered a Design Academy on the West side of Albuquerque at the Bosque school. Parents attended presentations for both the School of Architecture academy held in June and for the Bosque school academy in July. Students did excellent work in designing houses and bridges. (see publicity attached)

5 Rio Grande Educational Collaborative
Under the direction of Tina Patel the RGEC program continues to design the learning environment of the future for the Rio Grande High School. This project was awarded $125,000 from the legislature to continue work already begun. The RGEC will provide the Rio Grande Cluster and Post-secondary students with an opportunity to learn through experience and mentorship. Architecture students will assist cluster students to design the building of an innovative learning facility designated for a selected site. There is a separate report available from Patel at the School of Architecture and Planning which explains the project more fully.

7. New York City teaching training exchange
A $50,000 contract was awarded the IEE to train selected New York city teachers in the IEE Design Education and Architecture and Children educational process. This project is directed by Tina Patel and facilitated by Jean Marie Grygowski in New York. (Separate report available from Patel at School of Architecture and Planning).

8. University of Buffalo
Taylor gave a three day workshop to over 40 people at the School of

5 Institute for Environmental Education report Fall1999-Fall2000 – Anne Taylor, Dir.
Architecture and Planning at the University of Buffalo sponsored by the Buffalo AIA and the School.

9. **Cornell University**
Taylor gave a speech to the College of Human Ecology on school facility design and shared her vision of the future based on a lifetime of work. She followed up that speech with a paper on School Facility Planning and the Impact on the Community. (Available from Taylor at IEE).

**Conferences, Meetings attended, Speeches, Travel and Good works**

- **Exhibition of design education**
  - Art Education Gallery, College of Education - November 2000

- **IEE - Website**
  - Assembled and ready to be installed

**Sanger School District**
Taylor is working with the Sanger, CA school district to develop a new school (Quail Lake) and its curriculum based on using the environment as a learning tool and the inclusion of design education as an integrated focus of study. She will collaborate with Perkins and Will of Pasadena, CA. To design a school based on an integrated curriculum which emphasizes the Environment and Design.

**Design Share**
Taylor is a member of a national committee and jury, Design Share which is reviewing entries from architects on schools designs. Criteria for judgment of excellence include learning, community involvement and use, the process of programming, security, use of resources and flexibility.

**Keystone Learning Centers**
Taylor complete 17 volumes of preschool curriculum based on Reggio Emilio principles and trained Keystone personnel in Montgomery, Alabama.

**Publication:**
**NEA grant completed by Taylor**
- Guidelines for Alternative Learning Environments for Design Education

**Business Plan**
Taylor will work with a team from the Anderson School of Business to form a business plant for IEE. (In process) It will include
A history of IEE and its program

6 Institute for Environmental Education report Fall1999-Fall2000 – Anne Taylor, Dir.
The Mission statement – Goals and Objectives
The Team needed for success
A market summary
Opportunities
Business Concepts
An analysis of the competition
Resource requirements
Key Issues
National and international affiliates
Financial resources needed and budget

IEE – BUDGET and EXPENDITURES
Attached

Note: Due to lack of funding for Patel and Krygowski, they left the Institute in March 2000. After legislative funding for the RGEC project came in July, Patel returned to work on that project and the New York training project with Krygowski who moved to New York. These projects are still IEE projects housed at the main building of the School of Architecture and Planning.
Institute for Environmental Education  
1999-2000 Summary Budget

**INCOME**

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<td>SAAP Summer Design Academy</td>
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<td>APS, COE, PNM- For Salaries</td>
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March, 2000
Design education brought them to Japan. They experienced plenty of excitement—an earthquake, a snow storm, and lost luggage—but what they remember most is Japan's wonderful people.
**Summer Design Academy**
The Bosque School-Summer 2000

**Week One**

Session 1: Schematic Drawings
Open House and Orientation
Visual/Verbal Journals
Schematic Drawings
1. The Life Story of a Bubble
2. The Great Balloon Race
3. Toy Sketches
4. Sound Graphics
5.Slinky Diagram
Group Display /Discussion

Session 2: Architectural Conventions
Design in Nature
1. Positive Form/Negative Space
2. Visual Concepts
Elevations/Cross Section Concepts
1. Vegetables/Fruits
Group Display/Discussion

Session 3: Structural Concepts
Elevations/Section Concepts continued
Enlargements
2. Shells/Seed Pods
Entryways
1. "Be a Structure" Body Structures
Paper Strip Models
Group Display/Discussion

Session 4: Origins of Southwest Architecture
History/Materials
Spanish Colonial Design
1. Architectural Details
2. Walking/Sketching Hike-
Group Display/Discussion

Session 5: Pueblo Design Concepts-Community Design
History-Pueblo Bonito at Chaco Canyon
Slide Show
Environment & Energy Conservation
Community Design/Plaza
1. Clay-Designs Individual Homes
2. Community Needs/Design
Group Display/Discussion
THE PROGRAM

While teaching about Architecture, design, and engineering, this program largely focuses on helping children learn through visual and spatial thinking, creative problem solving, group interaction, communication skills, and making critical aesthetic judgments. The goal of the classes is to use design as a means for teaching math, science, art, and ecology. Students will learn architectural schematic drawings, 2-D design, and 3-D model building techniques in a studio learning environment through hands-on activities. They will design a structure and build a model based on their design, and learn to draw and design using a computer graphic program. Students will be guided by architectural and design professionals who are colleagues of Dr. Anne Taylor, Professor of Architecture, the program's developer.

FOR INFORMATION/REGISTRATION

Call (505) 277-5058  Cost: $250 per child (includes design kit)

Limited number of spaces are available for the Design Academy and registration is 1st come, 1st serve. Register early to reserve your child's space in the program.

One $25 discount per family when more than one child from a family enrolls in the design classes.

Location: School of Architecture & Planning University of New Mexico 2414 Central Ave SE Albuquerque, New Mexico 87131

Registration: Complete and mail with payment to The School of Architecture & Planning University of New Mexico 2414 Central Ave SE Albuquerque, New Mexico 87131 C/O Anne Taylor

NAME_______________________AGE_______GENDER________GRADE_______

ADDRESS______________________________________________________________

PHONE____________________PARENTS NAME___________________________

WORK PHONE________________PARENTS PLACE OF EMPLOYMENT___________

EMERGENCY CONTACT NAME & #___________________________________________

PARENT'S SIGNATURE____________________DATE___________________________

AGE GROUPS
1-3rd grade
4-7th grade
8-12th grade
RIO GRANDE EDUCATIONAL COLLABORATIVE & NEW YORK CITY SCHOOL DISTRICT 30 EXCHANGE

TEACHER TRAINING WORKSHOP

OCTOBER 18, 2000 - OCTOBER 20, 2000

Tina Patel
Jean Marie Krygowski
Lisa Thomas
UNIVERSITY OF NEW MEXICO

University Art Museum

Annual Report
1999-2000

Peter Walch, Director

October 31, 2000
1. Significant Developments

The following area-by-area reports document another fruitful year at the University Art Museum, and a somewhat quiet one at the Jonson Gallery (which, considering the turmoil and uncertainties of the previous year, was not altogether unwelcome). At the University Art Museum, nineteen exhibitions and fifty-one gallery talks, symposia, and other public events brought close to 41,000 visitors to our spaces; this represented a roughly 15% increase over the previous year. After the resignation, for health reasons, of Curator Tiska Blankenship in November, we cut back significantly on the exhibition schedule at the Jonson Gallery, which led in turn to a significant drop in attendance there. The new Jonson Gallery Curator, Robert O. Ware, is working rapidly to rebuild that institution’s programs and presence.

It was a banner year for building the collections. Gifts brought to the permanent collection over 400 objects, literally from A (Berenice Abbott) to Z (Piet Zwart). Private donors and our Friends of Art gave us over $200,000 in acquisition funds, with which we purchased close to 100 works. The bulk of both our purchases and gifts were concentrated in photographs. As this is being written, an exhibition called “New Faces” is going up in the Coke Gallery, documenting the astonishing variety and quality of photographic portraits which have come into the collection over the past three years. Any major museum would be delighted to mount such an exhibition drawn from its entire collection. That we are able to do so from just three years’ acquisitions testifies to the continuing generosity of our patrons, and to their recognition of the stature of our collections.

A minor crisis will soon be turned into a long-range benefit: in January, the Center for the Arts elevator which services our Main, Coke, and Lower Galleries broke down, and remained out of service until June. During these months, in addition to not being able to move by elevator heavy objects between our three levels, we lost handicapped access. There was nothing we could do in the short term. But working with the UNM Office of Equal Opportunity and the Facility Planning Department, we now have funding and a design for a wheelchair ramp to our Main Gallery. This will be built during the December-January, 2000-2001 break between semesters (and exhibitions), and will remove the embarrassing contortions which wheelchair-bound patrons have previously been subjected to in order to view our major exhibitions.

Judy Jones, Vice President for Institutional Advancement, facilitated a series of steps which at least partially alleviated our long-standing isolation from the UNM Development Office. Development Specialist Lawrence Walsh was assigned to work part-time with us on two major projects: a proposal (submitted in June) to the National Endowment for the Humanities for $400,000 towards our HVAC controls system (see the 1998-1999 Annual Report), and another (still in draft form) to the Wallace-Reader’s Digest Fund for major funding for a “virtual museum” project, in conjunction with the Maxwell Museum of Anthropology and the Technology and Education Center. In addition to his help with these specific projects, Walsh has kept us informally apprised of various Development Office initiatives (e.g., the pending publication of a Major Giving Opportunities brochure), about which we would have remained in ignorance were it not for his timely alerts. Still, we look for a more viable solution to enhancing our development efforts, and ensuring that they are properly coordinated with the UNM Development Office.
2. Plans and Recommendations

At the start of FY 2000-2001, our reporting structure was changed within the Office of the Provost. Associate Vice President David Stuart replaces Associate Provost Richard Holder as the officer to whom the University Art Museum Director reports. Simultaneously, a consortium of UNM research museum directors (representing the Maxwell Museum of Anthropology, the Museum of Southwestern Biology, and the Institute of Meteoritics Museum, in addition to the University Art Museum) commenced meetings with Associate Vice President Stuart, to address how these museums might better be represented and recognized within the University. Shared concerns about development efforts will be one topic of discussion.

Still festerling is the question of funding for the Jonson Gallery. As previous annual report documents, since 1995 the Museum and the Museum Advisory Committee have annually pleaded for sufficient UNM General Fund support to assure the basic operations of the Jonson. Annually, we have succeeded in obtaining such funding on a non-continuing basis. As this is written, Provost Brian Foster is about to convene a meeting which promises resolution (we hope, on favorable terms) of this matter. Should this be so resolved, we can then move forward with ambitious plans to attract community support for the historical restoration of the Jonson, and its transformation into an attractive center for receptions, seminars, and other such functions.

We will shortly begin another transformation, which will result in half of our Far Storage area (CFA B-126) being made into a permanent, year-round conservation laboratory. Funding will come from the Educational Foundation of America, the Stockman Family Foundation (our long-time partners in conservation), and a pledge from the Vice President for Business and Finance. We look forward to this long-anticipated extension of what has, for the last eight years, been largely a summer program.

In September, we received notification of the award of a two-year, $112,500 General Operating Support Grant from the Institute of Museum and Library Services. As with previous IMLS-GOS grants, this is both important funding and welcome peer recognition of the basic goodness of our staff and our institution. Roughly half of the funds will, per our proposal, be put toward accelerating the placing of digital images of our permanent collection on our newly-enhanced SNAP computerized collections-management system. We have obtained the enthusiastic endorsement of the Department of Art and Art History to use $30,000 of these grant monies for graduate internships at the Museum, providing that the University pledge a roughly similar amount toward graduate scholarships. The supply of incoming graduate students in the history of photography and the graphic arts has alarmingly ceased over the past two years; without such students, our wonderful collections go severely under-utilized. We hope that a combination of scholarships and internships will revitalize graduate education in this historically important area.

Finally, over the next year we hope to resume progress toward planning for a new facility. With the Deans of Library Services and of the School of Architecture and Planning, we have floated a proposal to find a new home for the Fine Arts Library (which also desperately needs expanded space). The Museum would then occupy the Fine Arts Library spaces directly above us, and connect what would then be four floors with an internal elevator. This proposal holds great promise. Since 1974, the University has intermittently recognized the need of an expanded and appropriate facility for the Museum. We will work diligently with the latest new administration to bring this to reality.
3. Staff Appointments

Mark G. Cattanach

September 27, 1999

4. Staff Separations

Tiska Blankenship

April 22, 1985- November 30, 1999
5. Achievements/Products

A. Exhibitions

University Art Museum

Upper Gallery
1999
Through Sept. 26  That Certain Look! The Minimalist Tradition in New Mexico
Curators: Jonathan Abrams and Kathleen Howe

Curator: Kathleen Howe

2000
Jan. 18—May 14  School of the U, Part 2
Curator: Peter Walch

June 6—Aug. 24  Tamarind at 40
Curator: Kathleen Howe

West
1999
Through August 1  Dancing through the Lens
Curator: Kathleen Howe

Aug. 10—Sept. 26  Doris Cross: Remembrancer
Curator: Bonnie Verardo

2000
Jan. 18—March 5  Focus on Faculty: Jackie Tileston
Curator: Peter Walch

March 21—June 4  Old (and not-so-old) Masters
Curator: Peter Walch

Van Deren Coke Gallery
1999
Through August 17  Dances: Religious Observance/Tourist Attraction
Curator: Kathleen Howe

Oct. 19—Dec. 19  Multiple Impressions: Native American Artists and the Print
Curators: Joyce Szabo and Kathleen Howe (also West)

2000
Jan. 18—March 5  A Sense of Self: Photographic Self Portraits by Anne Naggle
Curator: Kathleen Howe

March 14—May 14  Art in the Age of Aquarius
Curators: Lee Savary

June 6—Sept. 24  Dr. Freud’s Century
Curator: Peter Walch
Study Gallery
1999
July 20—Sept. 19  
*Making Book: A Spread by Dennis Farber*
  Curator: Kathleen Howe

Oct. 5—Dec. 5  
*Personal Icons—Betye Saar*
  Curator: Peter Walch

2000
Jan. 11—March 5  
*Veneer: Paintings and a Video by Michael Cook*
  Curator: Kathleen Howe

Lower Gallery
1999
Through Sept. 5  
*Visual Puns and Hard-Edge Poems: Works by Frederick Hammarsley*
  Organized by the Museum of Fine Arts, Museum of New Mexico

Sept. 21—Feb. 20  
*Five Centuries/Three Continents*
  Curator: Peter Walch

March 21—June 4  
*Sixth Annual Juried Graduate Student Exhibition*
  Curator: Michael Certo

Jonson Gallery
1999
Through July 30  
*Angela Battle*
  Curator: Tiska Blankenship

Through July 30  
*Kindred Notes: Raymond Jonson’s Artistic Development*
  *Revealed through Family Correspondence from 1911 to 1946*
  Curator: Tiska Blankenship

August 17—October 8  
*Cleavage*
  Curator: Danielle Rae Miller and Tiska Blankenship

October 19—May 12  
*Kindred Notes (see above)*

2000
March 7—May 12  
*New Era Art*

May 30—September 8  
*Jonson Gallery 50th Anniversary*
B. Print Study Room

During Fall Semester 1999 and Spring Semester 2000, the Print Study Room supported classes offered through the Departments of Art and Art History, History, English, and the General Honors College. Graduate seminars in Art History and Cultural Studies met in the Print Study Room, as did studio classes in photography, printmaking, painting, and drawing. Participants in programs offered by the Tamarind Institute and the Latin American and Iberian Studies Institute also used the Print Seminar Room. In all, faculty scheduled sixty-seven class meetings in the Print Study Room. Over 1065 individual student and faculty visits were logged during Fall 1999 and Spring 2000 semesters.

Non-UNM visitors to the Print Study Room included classes from Santa Fe Community College, an Oakland Museum of Art tour group, the Albuquerque Academy Summer Art Camp, and Albuquerque Day School. In addition, Museum collections of photographs and prints were utilized by researchers from six other museums and universities.

Beginning in May 2000 and continuing through the summer, Print Room staff performed an item level condition and location audit of all photographs in the Museum collection. The audit was completed in August 2000. Planning is underway for an audit of the print collection in summer 2001.
University Art Museum:

Anonymous
Untitled, c. 1914-18
Gelatin silver print
99.35.5

Army Signal Corps
Group of nineteen photographs, 1944-45
Gelatin silver prints
99.23.1-.19

Army Signal Corps
Aircraft Carrier, 1941-44
Gelatin silver print
99.35.6

Army Signal Corps
Twisted Beachhead Bridge, 1944
Gelatin silver print
99.35.7

Army Signal Corps
Hwei-Tung Footbridge, 1944
Gelatin silver print
99.35.8

Army Signal Corps
Officer with Binoculars, 1941-44
Gelatin silver print
99.35.9

Army Signal Corps
Twenty-six Aeroplanes, n.d.
Gelatin silver print
99.35.10

Army Signal Corps
Begrimed Sergeant, 1944
Gelatin silver print
99.35.11

Army Signal Corps
Medics Treat a Wounded Infantryman, 1944
Gelatin silver print
99.35.13

Army Signal Corps
A French Girl Wounded by German Shelling, 1944
Gelatin silver print
99.35.14

Army Signal Corps
German Atrocities, 1945
Gelatin silver print
99.35.15

Army Signal Corps
Drinking German Beer, 1945
Gelatin silver print
99.35.16

Army Signal Corps
Pfc Edward L. Brazzell, 1945
Gelatin silver print
99.35.17

Army Signal Corps
Transfer Corps Manila Harbor, n.d.
Gelatin silver print
99.35.18

Becher, Berndt and Hilla
Industrial Structure, n.d.
Photograph
2000.17.2

Berman, Zeke
Untitled (Double Cup), 1984
Gelatin silver print
2000.21

Brodeur, C. A.
Untitled, n.d.
Ink on paper
2000.3.1

Brooks, James
Untitled, 1951
Black ink on paper
2000.4.1

Bull, Thomas Sinclair
Jack Benny, 1936
Gelatin silver print
99.52.16

Chagoya, Enrique
Les Aventures Des Cannibales Des Modernistes, 1999
Color litho/woodcut/chine colle
2000.11
Davis, William Gordon
Group of 44 photographs, 1944
(for British "Housing Manual")
Gelatin silver prints
99.20.1-.44

Epstein, Jerome
Camera with a Shadow, c. 1930
Gelatin silver print
99.53.1

Epstein, Jerome
Moore Push Pins, 1930
Gelatin silver print
99.53.2

Epstein, Jerome
Bathing Suit Advertisement (2 photos), 1930
Gelatin silver print
99.53.3a-b

Epstein, Jerome
Study of Fabric, 1930
Gelatin silver print
99.53.4

Epstein, Jerome
Knickerbocker Hard Water Soap, 1930
Gelatin silver print
99.53.5

Epstein, Jerome
Jasmine Perfume, c. 1930
Gelatin silver print
99.53.6

Epstein, Jerome
Amish Boys, c. 1940
Gelatin silver print
99.54.1

Epstein, Jerome
The Waiting Room, c. 1940
Gelatin silver print
99.54.2

Epstein, Jerome
The Well – Nepal, c. 1960
Gelatin silver print
99.54.3

Epstein, Jerome
Group of 15 vintage gelatin silver prints, c. 1930
99.66.1-.15

Frith, Francis
The Rameseum of El-Kurneh-Thebes-Second View,
1857
Mammoth plate, albumen
99.23.21

Frith, Francis
Mount Serval From the Wádee Fayréán, 1857
Albumen print
99.52.7

Frith, Francis
The Masque Kartbey, 1857-58
Albumen print
99.52.8

Hanford, Warren
The Grant Foot, c. 1970
Gelatin silver print
99.35.1

Hanford, Warren
River Scene, c. 1970
Gelatin silver print
99.35.2

Hanford, Warren
Eroded Rock, c. 1970
Gelatin silver print
99.35.3

Hanford, Warren
Eroded Rock, c. 1970
Gelatin silver print
99.35.4

Hicks, Bobby
Untitled, n.d.
Enamel on paperboard
2000.3.2

Joint Army and Navy Task Force One
Group of 251 photographs of the Bikini Atoll nuclear
tests
Gelatin silver prints
2000.7.1-.251

Kassak, Lajos
MA, 1923
Color linoleum cut
2000.15
La Carte Surrealiste Premiere
Group of twenty-one postcards by surrealist artists
and one title slip, 1937
Printed in black on silver ground
99.22.1-22

Lauschmann, Jan
Brno CR, 1927
Photograph
2000.17.1

Lummis, Charles
Canon of Pine Creek, Arizona Territories, c. 1880
Cyanotype
99.35.12

Nagatani, Patrick
Untitled (Pink Men), 1997
Photo transfer and acrylic on paper
99.68

Prather, Winter
Rancho de Taos Mission, c. 1950
Gelatin silver print
99.52.17

Rubenstein, Eva
Untitled, c. 1970
Gelatin silver print
99.52.1

Rubenstein, Eva
Untitled, c. 1970
Gelatin silver print
99.52.2

Rubenstein, Eva
Untitled, c. 1970
Gelatin silver print
99.52.3

Rubenstein, Eva
Passageway thru Waterloo Station, 1969
Gelatin silver print
99.52.4

Rubenstein, Eva
Untitled, c. 1970
Gelatin silver print
99.52.5

Rubenstein, Eva
Sisters Italy, 1973
Gelatin silver print
99.52.6

Rubenstein, Eva
Untitled, c. 1970
Gelatin silver print
99.52.9

Rubenstein, Eva
Untitled, c. 1970
Gelatin silver print
99.52.10

Ross, Alán
Strawberry Creek, Berkeley California, 1968
Gelatin silver print
99.23.20

Sherman, Cindy
Untitled, 1990
Color photograph
2000.4.2

Siegel, Arthur
Untitled, 1951
Dye transfer
99.55.5

Strand, Paul
Nancy Thompson, n.d.
Gelatin silver print
2000.13

Unknown
Group of 131 photographs of aftermath
of nuclear strike on Nagasaki
Gelatin silver prints
2000.8.1-131

Varisek, Josef
Untitled, c. 1930
Gelatin silver print
99.55.1

Varisek, Josef
Untitled, c. 1930’s
Gelatin silver print
99.55.2

Varisek, Josef
Untitled, c. 1930’s
Gelatin silver print
99.55.3

Varisek, Josef
Untitled, c. 1930’s
Gelatin silver print
99.55.4
Various artists
Group of 41 lithographs, 1999
The Tamarind Archive Collection
99.61.1-.41

Ward, John
Argo Mill, Idaho Springs, CO, 1974
Gelatin silver print
99.52.18

Ward, John
Factory, Chattanooga, Tennessee, 1975
Gelatin silver print
99.52.19

Ward, John
Mount Ranier National Park, 1972
Gelatin silver print
99.52.20

Ward, John
Field and Fog, Boulder, Colorado, 1973
Gelatin silver print
99.52.21

Ward, John
Broken Window, Idaho Springs, Colorado, 1974
Gelatin silver print
99.52.22

Warren, George
Untitled (from series of photographs from Yale University), c. 1865
Albumen print
99.52.11

Warren, George
Untitled (from series of photographs from Yale University), c. 1865
Albumen print
99.52.12

Warren, George
"O. K. Marvel's" by Farm at Edgewood (from series of photographs from Yale University), c. 1865
Albumen print
99.52.13

Jonson Gallery
University Art Museum

Abbott, Berenice
*Untitled*
Group of 11 gelatin silver prints, n.d.
Gift of Eric Alterman
99.31.17-.27

Adams, Ansel
*Edward Weston*, n.d.
Gelatin silver print
Gift of Joan and Van Deren Coke
99.62.9

Alinari, Fratelli
*View of Florence*, n.d.
Albumen print
Gift of Joan and Van Deren Coke
99.62.14

Antreasian, Garo
*Attic Reflections I*, 1995
Serigraph
Gift of Burt and Jane Berman
99.60.7

Antreasian, Garo
*Attic Reflections II*, 1995
Serigraph
Gift of Burt and Jane Berman
99.60.2

Antreasian, Garo
*Attic Reflections III*, 1995
Serigraph
Gift of Burt and Jane Berman
99.60.8

Antreasian, Garo
*Attic Reflections IV*, 1995
Serigraph
Gift of Burt and Jane Berman
99.60.9

Antreasian, Garo
*Cross and Dark Form*, 1992
Charcoal on paper
Gift of Burt and Jane Berman
99.60.6

Art and Language
*Music-Language Corrected Slogans*, 1973-76
33-1/3 RPM vinyl record
Gift of Vernon Nikkel
2000.5.8

Atget, Jean-Eugene-Auguste
*Untitled*, 1895
Albumen print
Gift of Joan and Van Deren Coke
99.62.1

Atget, Jean-Eugene-Auguste
*Untitled*, 1895
Albumen print
Gift of Joan and Van Deren Coke
99.62.2

Aziz and Cucher
*Untitled*, n.d.
Color photograph
Gift of John and Mary Mulvaney
2000.19.2

Baldus, Edouard
Albumen print
Gift of Eric Alterman
99.31.5

Baldus, Edouard
*Pont du Gard*, n.d.
Albumen print
Gift of Eric Alterman
99.31.7

Baldus, Edouard
*Maison Caree*, n.d.
Albumen print
Gift of Eric Alterman
99.31.6

Baldus, Edouard
*Temple of Diane*, n.d.
Albumen print
Gift of Eric Alterman
99.31.8
Bartlett, Jennifer
*From Rhapsody*, 1987
Etching on paper, aquatint
Gift of Fay and Jonathan Abrams
99.52.2

Bersch, Auguste
*Pollin de Cactus*, c. 1852-53
Salt print
Gift of Judith Hochberg and Michael Mattis
2000.1

Blanquart-Evrard
*Pont de la Reforme*, c. 1851
Salt print
Gift of Joan and Van Deren Coke
99.62.28

Bradford [no first name]
*No. 102, The Steamer*, 1869
Gift of Joan and Van Deren Coke
99.62.7

Brandt, Bill
*Deep Shelter*, 1940
Gelatin silver print
Gift of Brenda Hochberg and David Dalgarno
99.30.1

Brogi, Lanzioni
*Genova*, c. 1880
Albumen print
Gift of Joan and Van Deren Coke
99.62.27

Buren, Daniel
*Untitled*, 1970
Screenprint on fabric with handpainting, 1970
Gift of Vernon Nikkel
2000.5.3

Carjat, Etienne
*Untitled* (various portraits of men)
Group of 5 albumen prints
Gift of James Gollin
99.3.9 - 13

Chappell, Walter
*Cape Kiwanda, Oregon*, 1963
Gelatin silver print
Gift of Brenda Hochberg and David Dalgarno
99.30.25

Chappell, Walter
*Mauna Kea, Hawaii*, 1979
Gelatin silver print
Gift of Brenda Hochberg and David Dalgarno
99.30.26

Colescott, Warrington
*Senefelder Receiving the Secrets of Lithography*, 1976
Lithograph (color intaglio)
Gift of Garo and Jeanne Antreasian
99.37.1

Cottingham, Robert
*Star*, 1985
Lithograph
Gift of Garo and Jeanne Antreasian
99.37.2

Crane, Barbara
*Coloma to Covert Stick*, 1997
Gelatin silver print
Gift of John and Mary Mulvany
99.21.4

Disderi, A. E.
*Ty Kin*, 1862
Albumen/carte de visite
Gift of Brenda Hochberg and David Dalgarno
99.30.22

Disderi, A. E.
*Comte D’Assaylly*, 1859
Albumen/carte de visite
Gift of Brenda Hochberg and David Dalgarno
99.30.23

Dunning, Jeanne
*Double Moustache*, 1992-96
Chromogenic print
Gift of John and Mary Mulvany
99.21.16

Estes, Richard
*Subway Car* (From series “Urban Landscape”), 1981
Lithograph
Gift of Fay and Jonathan Abrams
99.57.1
Estrada [no first name]
Untitled, c. 1900
Albumen print
Gift of Peter Walch
99.58.2

Estrada [no first name]
Untitled, c. 1900
Albumen print
Gift of Peter Walch
99.58.3

Estrada
Untitled, c. 1900
Albumen print
Gift of Peter Walch
99.58.4

Evans, Walker
Cuban Man with Cigar, c. 1932
Gelatin silver print
Gift of Joan and Van Deren Coke
99.62.10

Fenton, Roger
Lincoln Cathedral, n.d.
Photograph
Gift of Joan and Van Deren Coke
99.62.5

Fielding, Jed
Naples #709, 1990
Gelatin silver print
Gift of John and Mary Mulvany
99.21.12

Fitch, Steve
Hankey Tonk Near Vaughn, Eastern New Mexico,
May 21, 1991
Chromogenic print
Gift of the New Mexico Council on Photography
2000.16.1

Fitch, Steve
Bathroom in Motel, Eastern Colorado,
February 11, 1994
Chromogenic print
Gift of the New Mexico Council on Photography
2000.16.2

Foster, Gus
Nebraska Wedding, n.d.
Gelatin silver print
Gift of Joan and Van Deren Coke
99.33.2

Foster, Gus
Truchas Lake, 1986
C-print (color photograph)
Gift of Larry Bell
99.67

Frith Francis
The Hypaethral Temple, Philae, 1857
Albumen print
Gift of James Gollin
99.46

Gardner, A.
Incidence of War, March 1862
Albumen print & one title page, Manassas Junction, Virginia
Gift of Dr. Richard E. Kremer
2000.20a-b

Gilpin, Laura
Untitled, 1969
Gelatin silver print
Gift of Joan and Van Deren Coke
99.33.3

Grooms, Red
Wedding Vows, 1987
Lithograph
Gift of Virginia Bush Suttram
99.59.1

Hahn, Betty
Circumstances of Awakening Series, 1990
Group of 5 gelatin silver prints and 6 color photographs
Gift of Charles McClelland
99.18.1-.11

Hanna, Forman
Group of 18 photographs, n.d.
Gelatin silver prints
Gift of Mark Lemelman
99.41.1-.18

Hanna, Forman
Group of 19 photographs, n.d.
Gelatin silver prints
Gift of Neil Lemelman
99.40.1-.19

Hill, David Octavius & Robert Adamson
John Henning, n.d.
Salt print
Gift of Alexander Novak
2000.12.5
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<th>Title</th>
<th>Date</th>
<th>Medium</th>
<th>Gift Info</th>
<th>Accession No.</th>
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<td>Gelatin silver print</td>
<td>Anonymous gift</td>
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<td>Gelatin silver print</td>
<td>Anonymous gift</td>
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<td>Gelatin silver print</td>
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<td>Gelatin silver print</td>
<td>Anonymous gift</td>
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<td>Gelatin silver print</td>
<td>Anonymous gift</td>
<td>99.42.5</td>
</tr>
<tr>
<td>Hoffman, Heinrich</td>
<td>Untitled, c. 1935</td>
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<td>Gelatin silver print</td>
<td>Anonymous gift</td>
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<td>Klett, Mark</td>
<td>Byron Checking the Position of the Moon with His Laptop, 1997</td>
<td></td>
<td>Gelatin silver print</td>
<td>Gift of John and Mary Mulvany</td>
<td>99.21.5</td>
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<td>Klute, Jeannette</td>
<td>Damselfly, n.d.</td>
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<td>Dye transfer print</td>
<td>Gift of Brenda Hochberg and David Dalgarno</td>
<td>99.30.2</td>
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<tr>
<td>Klute, Jeannette</td>
<td>May Apple, n.d.</td>
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<td>Dye transfer print</td>
<td>Gift of Brenda Hochberg and David Dalgarno</td>
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<td>Hultberg, John</td>
<td>The Shop, 1958</td>
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<td>Oil on canvas</td>
<td>Gift of Joan and Van Deren Coke</td>
<td>99.62.38</td>
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<td>Kalina, Richard</td>
<td>Until, 1991</td>
<td></td>
<td>Graphite and watercolor on paper</td>
<td>Gift of Vernon Nikkel</td>
<td>2000.5.1</td>
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<td>Kasten, Barbara</td>
<td>Axis Mundi, 1990</td>
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<td>Chromogenic print</td>
<td>Gift of John and Mary Mulvany</td>
<td>99.21.2</td>
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<td>Kasten, Barbara</td>
<td>Untitled, n.d.</td>
<td></td>
<td>Polaroid photograph, large format</td>
<td>Gift of John and Mary Mulvany</td>
<td>2000.14</td>
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<td>Kelly, Robert</td>
<td>Summa I, 1997</td>
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<td>Lithograph</td>
<td>Gift of Burt and Jane Berman</td>
<td>99.60.11</td>
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<td>Kelly, Robert</td>
<td>Summa XLVII, 1996</td>
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<td>Monoprint</td>
<td>Gift of Burt and Jane Berman</td>
<td>99.60.10</td>
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<td>Klute, Jeannette</td>
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Klute, Jeannette
Green Grasses, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.4

Klute, Jeannette
Luna Moth, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.5

Klute, Jeannette
Frosted Tree, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.6

Klute, Jeannette
Iris and Bud, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.7

Klute, Jeannette
Larkspur, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.8

Klute, Jeannette
Yellow Iris, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.9

Klute, Jeannette
Birch Grove, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.10

Klute, Jeannette
Ferns in the Fall, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.11

Klute, Jeannette
Beech Fern, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.12

Klute, Jeannette
Pink-Specked Flower, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.13

Klute, Jeannette
Grape Leaves, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.14

Klute, Jeannette
Apple Blossom, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.15

Klute, Jeannette
Cardinal Flower, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.16

Klute, Jeannette
Yellow Iris, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.17

Klute, Jeannette
Black Eyed Susan, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.18

Klute, Jeannette
Green Grasses – Blue, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.19

Klute, Jeannette
Dark Trees – Winter Storm, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.20

Klute, Jeannette
Verriain, n.d.
Dye transfer print
Gift of Brenda Hochberg and David Dalgarno
99.30.21
Lange, Dorthea
*General View of One End of the Camp, 1939*
Gelatin silver print
Gift of Eric Alterman
99.31.14

Laurent, J.
*Espagna*, n.d.
Albumen print
Gift of Joan and Van Deren Coke
99.6.2

Laurent, J.
*Espagna Guare Civil*, n.d.
Albumen print
Gift of Joan and Van Deren Coke
99.6.3

Laurent, Juan
33 Photographs, c. 1870s
Albumen prints
Gift of Dan and Mary Solomon
99.43.1-.33

Lazorik, Wayne R. (collaboration with Ellen Garvins)
*Before the Chocolate Ones, 1981*
Gelatin silver print, hand-colored
Gift of Joel Peter Witkin
99.24

Lehnert & Landrock
*Untitled*, n.d.
Albumen print
Gift of Alex Novak
99.45

Le Secq, Henri
*Rheims*, n.d.
Salt print
Gift of Alexander Novak
2000.12.1

Lee, Russell
*Wife of Migratory Worker, 1940*
Gelatin silver print
Gift of Eric Alterman
99.31.9

Lee, Russell
*Rows of Metal Shelters, 1940*
Gelatin silver print
Gift of Eric Alterman
99.31.10

Lee, Russell
*Corner of Kitchen in House, c. 1940*
Gelatin silver print
Gift of Eric Alterman
99.31.11

Lee, Russell
*Hay Barn, 1940*
Gelatin silver print
Gift of Eric Alterman
99.31.12

Lee, Russell
*Librarian, 1940*
Gelatin silver print
Gift of Eric Alterman
99.31.13

Leventhal, David
*Untitled, n.d.*
Cibachrome print
Gift of John and Mary Mulvany
2000.19.1

MacPherson, Robert
*Santa Maria Maggiore, c. 1869*
Albumen print
Gift of Joan and Van Deren Coke
99.62.24

MacPherson, Robert
*Fountain in Rame, c. 1857*
Albumen print
Gift of Joan and Van Deren Coke
99.62.25

MacPherson, Robert
*Arch of Constantine, 1857*
Albumen print
Gift of Joan and Van Deren Coke
99.62.26

MANUAL
*Log Road, 1991*
Gelatin silver print
Gift of John and Mary Mulvany
99.21.8

Marc, Stephen (Steve Smith)
*Untitled, 1997*
Gelatin silver print
Gift of John and Mary Mulvany
99.21.3
Marc, Stephen (Steve Smith)
*Untitled*, n.d.
Gelatin silver print from digitally composed negative
Gift of John and Mary Mulvany
99.21.15

Marsh, Reginald
*On Third Avenue*, 1949
Chinese ink on paper
Gift of Peter Eller
99.56

McCullin, Donald
*Cambodia: The Day McCullin Was Hit*, 1970
Gelatin silver print
Gift of Eric Alterman
99.31.1

McCullin, Donald
*Cambodia: The Moment McCullin Was Hit*, 1970
Gelatin silver print
Gift of Eric Alterman
99.31.2

McCullin, Donald
*Untitled*, n.d.
Gelatin silver print
Gift of Eric Alterman
99.31.3

McCullin, Donald
*Untitled*, n.d.
Gelatin silver print
Gift of Eric Alterman
99.31.4

Michals, Duane
*Warren Beatty*, n.d.
Gelatin silver print
Gift of Joan and Van Deren Coke
99.62.13

Model, Lisette
*Untitled* (women in swim suits), 1976
Gelatin silver print
Gift of Joan and Van Deren Coke
99.62.8

Model, Lisette
*Untitled* (reflection in window), 1970
Gelatin silver print
Gift of Joan and Van Deren Coke
99.62.12

Morris, Robert
*Untitled*, n.d.
Drawing, ink on paper
Gift of Vernon Nikkel
2000.5.6

Morris, Robert
*Untitled*, n.d.
Drawing, ink on paper
Gift of Vernon Nikkel
2000.5.7

Moses, Forrest
*Orange/Gray Trees*, n.d.
Lithograph
Gift of Burt and Jane Berman
99.60.4

Mulvany, John
*The Chairman of the Minority Committee Meets the Chairman of the French National Bank and They Exchange Hats*
Giclee print diptych
Gift of John and Mary Mulvany
99.21.9a-b

Nagatani, Patrick
*Untitled (Orange Women)*, 1997
Photo transfer with acrylic medium
Gift of Patrick Nagatani
99.32.1

Nagatani, Patrick
*Untitled (Cigar Man)*, 1997
Photo transfer with acrylic medium
Gift of Patrick Nagatani
99.32.2

Nagatani, Patrick
*Untitled (Chromo-Therapy Series)*, 1978
Cibachrome
Gift of Joan and Van Deren Coke
99.62.6

Namingha, Dan
*Hopi Horizon VII*, 1997
Acrylic on paper
Gift of Burt and Jane Berman
99.60.1

Namingha, Dan
*West of Hopi*, n.d.
Lithograph
Gift of Burt and Jane Berman
99.60.5
Neimanas, Joyce
*Safety and Security*, 1994
Giclee print
Gift of John and Mary Mulvany
99.21.6

Nesbitt, Lowell
*Untitled 741250 (Red Rose)*, 1981
Lithograph
Gift of John and Mary Mulvany
99.21.1

Newberry, Sandra
*Pastoral #6*
Gelatin silver print, 1994
Gift of John and Mary Mulvany
99.21.14

Nicosa, Nic
*Love and Lust #1*, 1990/97
Gelatin silver print
Gift of John and Mary Mulvany
99.21.10

Northrup, Michael
*Bakes' Hand in Tulips*, 1973
Gelatin silver print
Gift of Tom Barrow
99.47

Ocampo, Manuel
*L. Ron Hubbard*, 1994
Oil and acrylic on canvas
Gift of Vernon Nikkel
2000.5.2

O'Hara, Frederick
*Prints in the Desert New Mexico*, c. 1950
Portfolio with text, prints, photographs, and drawings
Gift of F. P. "Pete" Clements
99.25

O'Hara, Frederick
*Ceremonial*, 1959
Lithograph
Gift of Garo and Jeanne Antreasian
99.37.3

O'Hara, Frederick
*Migrants*, 1959
Lithograph
Gift of Garo and Jeanne Antreasian
99.37.4

ParkeHarrison, Robert
*Exhausted Globe*, 1997
Photogravure with wax
Gift of Robert and Shana ParkeHarrison
2000.2.1

ParkeHarrison, Robert
*Consumption*, 1997
Photogravure with wax
Gift of Robert and Shana ParkeHarrison
2000.2.2

Pearson, John
*Communion #2 Reticence*, 1991
Gouache and graphite
Gift of Vernon Nikkel
2000.5.11

Pearson, John
*Untitled*, 1981
Screenprint
Gift of Vernon Nikkel
2000.5.12

Pearson, John
"...#11", n.d. [title is illegible]
Acrylic on mat board
Gift of Vernon Nikkel
2000.5.13

Petit, Gaston
*Des Songes aux Guals le Root Ritie*, 1976
Lithograph
Gift of Garo and Jeanne Antreasian
99.37.5

Poons, Larry
*Untitled*, n.d.
Graphite on graph paper
Gift of Vernon Nikkel
2000.5.10

Pratt, Charles
Group of fifty-six photographs, 1950s to 1970s
Gelatin silver prints
Gift of Julie Pratt
99.39.1-.56

Reynolds, Charles
*Saguaro Monument*, 1975
Photogravure
Gift of John and Mary Mulvany
99.21.17
Ribak, Louis
*Getting Warm*, c. 1930
Oil on canvas
Gift of Joan and Van Deren Coke
99.6.1

Ricki, L. T.
*The Great Roof*, 1980
Lithograph
Gift of Garo and Jeanne Antreasian
99.37.6

Rodriguez, Jose L.
*The Sort of Annual Memorial Softball Showdown*, 1999
Poster
Gift of Jose Rodriguez
99.28

Rogers, Thomas
*Gussy & Letty*, n.d.
Albumen print
Gift of Joan and Van Deren Coke
99.62.32

Rothstein, Arthur
*Newly Constructed FSA Migrant Camp*, 1940
Gelatin silver print
Gift of Eric Alterman
99.31.12

Rothstein, Arthur
*Newly Constructed FSA Migrant Camp*, 1940
Gelatin silver print
Gift of Eric Alterman
99.31.16

Salzmann, August
*Jerusalem Casque Trouve Dans Le Jourdain*, n.d.
Albumen print
Gift of James L. Hughes
99.26

Sander, August
*Der Dadaist (Portrait of Raoul Hausmann)*, n.d.
Gelatin silver print
Gift of James Hughes
99.29.1

Sawyer
Viewmaster slide viewer and color slides, c. 1950s
Plastic/metal
Anonymous gift
99.38.1-.20

Sawyer, Lydell
*In the Twilight*, c. 1888
Photogravure
Gift of Joan and Van Deren Coke
99.62.18

Sawyer, Lydell
*Boat Builders*, c. 1888
Photogravure
Gift of Joan and Van Deren Coke
99.62.19

Sawyer, Lydell
*The Castle Garth*, c. 1888
Photogravure
Gift of Joan and Van Deren Coke
99.62.39

Sawyer, Lydell
*Untitled*, n.d.
Essay/Portfolio about Sawyer Lydell
Gift of Joan and Van Deren Coke
99.62.40

Schneider, Gary
*Denise*, 1998
Gelatin silver print
Gift of John and Mary Mulvany
99.21.11

Scholder, Fritz
*Passion #24*, 1989
Acrylic on paper
Gift of Burt and Jane Berman
99.60.3

Shepherd and Robertson
*Ground Food and Spices*, c. 1860
Albumen print
Gift of Joan and Van Deren Coke
99.62.29

Siegel, Arthur
*Lucidograms*, 1972
Gelatin silver print
Gift of Robert Frerck
99.19.2

Siegel, Arthur
*Lucidograms*, 1976
Gelatin silver print
Gift of Robert Frerck
99.19.3
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<tr>
<th>Name</th>
<th>Title</th>
<th>Date</th>
<th>Medium</th>
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<th>Accession No.</th>
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<td>Gelatin silver print</td>
<td>Gift of Robert Frerck</td>
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<td>Skeen, W. L. H. &amp; Co.</td>
<td>Untitled, n.d.</td>
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<td>Four albumen prints</td>
<td>Gift of Joan and Van Deren Coke</td>
<td>99.6.4 -7</td>
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<td>Gelatin silver print</td>
<td>Gift of Vernon Nikkel</td>
<td>2000.5.4</td>
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<td>Sonneman, Eve</td>
<td>Pension Mere, Barcelona, 1970</td>
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<td>Gelatin silver print</td>
<td>Gift of Vernon Nikkel</td>
<td>2000.5.5</td>
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<td>Suttman, Paul</td>
<td>Letters Passing, c. 1970</td>
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<td>Bronze Sculpture</td>
<td>Gift of Virginia B. Suttman</td>
<td>99.59.2a-c</td>
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<td>Steichen, Edward</td>
<td>Steichen, Dana</td>
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<td>58 photographs and 1 photo album (gelatin silver prints and 1 platinum print)</td>
<td>Gift of Joan Hodes</td>
<td>99.63.1-.55</td>
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<td>Stevens, Thomas</td>
<td>R.M.S. Lusitania, n.d.</td>
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<td>Stevengraph</td>
<td>Gift of Peter Walch</td>
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<td>Gift of Joan and Van Deren Coke</td>
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<td>Sutcliffe, Frank W.</td>
<td>Fisherman of Whitby, c. 1880</td>
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<td>Albumen print</td>
<td>Gift of Joan and Van Deren Coke</td>
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<td>Sutcliffe, Frank W.</td>
<td>Entrance to Whitby Harbor, c. 1880</td>
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<td>Albumen print</td>
<td>Gift of Joan and Van Deren Coke</td>
<td>99.62.22</td>
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<td>Sutcliffe, Frank W.</td>
<td>Gathering Hay, c. 1880</td>
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<td>Albumen print</td>
<td>Gift of Joan and Van Deren Coke</td>
<td>99.62.23</td>
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<td>Telberg, Val</td>
<td>Kathleen in Paris, c. 1949</td>
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<td>Print</td>
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<td>Teynard, Felix</td>
<td>Edifice de L’est, Face Laterale, 1852</td>
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<td>Salt Print</td>
<td>Gift of James Hughes</td>
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<td>Unknown</td>
<td>Have Patience, c. 1876</td>
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<td>Albumen print, stereo</td>
<td>Gift of Joan and Van Deren Coke</td>
<td>99.62.15</td>
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<td>Albumen print, stereo</td>
<td>Gift of Joan and Van Deren Coke</td>
<td>99.62.16</td>
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<td>Extracting Teeth, c. 1876</td>
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<td>Albumen print, stereo</td>
<td>Gift of Joan and Van Deren Coke</td>
<td>99.62.17</td>
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Unknown
*The Turban Loom*, c. 1880
Albumen print
Gift of Joan and Van Deren Coke
99.62.20

Unknown
*North House (Ilauma)*, n.d.
Photogravure
Gift of Joan and Van Deren Coke
99.62.31

Unknown
*Untitled (India, Men)*, c. 1865
Albumen print
Gift of Joan and Van Deren Coke
99.62.33

Unknown
*Untitled (India, Women)*, c. 1865
Albumen print
Gift of Joan and Van Deren Coke
99.62.34

Unknown
*Stone Carving at Elen*, n.d.
Albumen print
Gift of Joan and Van Deren Coke
99.62.35a

Unknown
Albumen print
Gift of Joan and Van Deren Coke
99.62.35b

Unknown
Albumen print
Gift of Joan and Van Deren Coke
99.62.35c

Unknown
*Servants Preparing Chota Hazrce*, n.d.
Albumen print
Gift of Joan and Van Deren Coke
99.62.36a

Unknown
*Untitled*, n.d.
Textile from altar cloth
Gift of Robert Ellis and Caroline Lee
2000.18

Unknown
*Woodsellers*, n.d.
Albumen print
Gift of Joan and Van Deren Coke
99.62.36b

Unknown
*H.M.’s 2/24th Regt*, 1870
Albumen print
Gift of Joan and Van Deren Coke
99.62.36c

Unknown
*Untitled (peddlars)*, n.d.
Albumen print
Gift of Joan and Van Deren Coke
99.62.37

Various artists
Group of 53 miscellaneous photographs, 19th and 20th century
Various mediums
Gift of Richard Perl
99.44.1- 21, 99.51.1-13, 99.65.1-19

Various artists
19 pieces of artwork, 20th century
Various mediums
Gift of the Lannan Foundation
99.61.1-19

Various artists
21 photographs, 19th and 20th century
Various mediums
Gift of Alexander Novak
99.64.1-21

Various artists
14 works of art (paintings and drawings), 1904-1946
Various mediums
Gift of Zabriskie Gallery, Inc.
2000.10.1 -14

Walkowitz, Abraham
*Untitled*, c. 1908
3 pencil and ink drawings
Gift of Virginia Zabriskie
99.27.1-3

Web, Alex
*Puerto Rico*, 1990
Chromogenic print
Gift of John and Mary Mulvany
99.21.13
Weegee (Arthur Fellig)
*Charles Farrel with Pig/WG1288*, n.d.
Gelatin silver print
Gift of Robert Frerck
99.19.1

Weston, Edward
*Untitled*, 1940
Gelatin silver print
Gift of Joan and Van Deren Coke
99.62.4

Wilson, George Washington
*On the Dove*, n.d.
Albumen print
Gift of Joan and Van Deren Coke
99.62.30

Wilson, Helena Chappelin Wilson
*Clara*, 1997
Digital ink-jet print
Gift of John and Mary Mulvany
99.21.7

Wynfield, David Wilkes
*William Frederick Yeams*, c. 1860
Albumen print
Gift of Joan and Van Deren Coke
99.62.11

Yucikas, Robert
*Untitled*, 1973
Acrylic on canvas
Gift of Vernon Nikkel
2000.5.9

Yucikas, Robert
*New York 12-87*, 1987
Graphite and color pencil
Gift of Vernon Nikkel
2000.5.14

Yucikas, Robert
*Clovis, New Mexico 7-78*, 1978
Graphite and colored pencil on paper
Gift of Vernon Nikkel
2000.5.15

Zwart, Piet
*Shovel and Woodcut Interior*, 1929
Gelatin silver print
Gift of James Hughes
99.29.2
Jonson Gallery

Battle, Angela  
*October 13, 82, 21% Humidity, 1999*  
Gift of the artist  

Cohen, Phyllis  
*Jonson Gallery Panel, 1999*  
Gift of the artist (Accepted into archives only)

| Felix, Sushe  
*Stand of Trees, 1999*  
Gift of the artist |

| Xceron, Jean  
*No. 161, 1939*  
Gift of James Shelton |

D. Works Deaccessioned

University Art Museum  
No works deaccessioned in 1999-2000.

Jonson Gallery  
No works deaccessioned in 1999-2000.

E. Conservation

<table>
<thead>
<tr>
<th>Medium</th>
<th>Artist</th>
<th>Accession Number</th>
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<tbody>
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<td>Oil on canvas</td>
<td>Gerald Laing</td>
<td>77.214</td>
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<tr>
<td>Photographs</td>
<td>17 Various</td>
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<tr>
<td>Posters</td>
<td>Four Various</td>
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</tr>
</tbody>
</table>

Jonson Gallery  
F. Institutions to Which We Have Loaned Work

University Art Museum

Albuquerque Museum
Albuquerque, New Mexico

Brigham Young University Museum of Art
Provo, Utah

Columbus Museum of Art
Columbus, Ohio

Exhibits USA
Kansas City, Missouri (Traveling exhibition)
Tour: Southwest School of Arts and Crafts, San Antonio, Texas
      Riverside Art Museum, Riverside, California
      J. Wayne Stark University Center Gallery, College Station, Texas
      Perspective Gallery, Blacksburg, Virginia
      Plains Art Museum, Fargo, North Dakota

Georgia O'Keeffe Museum
Santa Fe, New Mexico

Harwood Museum
Taos, New Mexico

Magnifico Artspace
Albuquerque, New Mexico

Menil Collection
Houston, Texas

Museum of Contemporary Art
Chicago, Illinois

Museum of New Mexico
Santa Fe, New Mexico

Phoenix Art Museum
Phoenix, Arizona

Snite Museum, University of Notre Dame
Notre Dame, Indiana (Traveling exhibition)
Tour: Albuquerque Museum, Albuquerque, New Mexico
      The Marion Koogler McNay Art Museum, San Antonio, Texas
      The Snite Museum, Notre Dame, Indiana
      Thomas Gilcrease Museum, Tulsa, Oklahoma

The Trust for Museum Exhibitions
Washington DC (Traveling exhibition)
Tour: Mississippi Museum of Art, Jackson Mississippi
      Terra Museum of American Art, Chicago, Illinois
      Toledo Museum of Art, Toledo, Ohio
University Art Gallery, New Mexico State University
Las Cruces, New Mexico (Traveling exhibition)
Tour: University Art Gallery, New Mexico State University, Las Cruces, New Mexico
Museo de Historia Mexicana, Monterrey, Mexico

Walker Art Center
Minneapolis, Minnesota (Traveling exhibition)
Tour: Walker Art Center, Minneapolis, Minnesota
Modern Art Museum of Fort Worth, Fort Worth, Texas
M. H. de Young Memorial Museum, San Francisco, California

Jonson Gallery

Smithsonian National Museum of American History
New Mexico Museum of Fine Arts
UNM University House
UNM Fine Arts-Dean Dodson
G. Programs, Receptions, and Other Events

The total number of visitors to the University Art Museum including the Jonson Gallery was 44,005, an increase of 1,523 from FY 1998-99. Total general attendance to the main University Art Museum was 40,918 an increase of 5,209 (up 15%) from last year. The combined tours, public programs and special events attendance to the main University Art Museum was 7,812, an increase of 3,075 (up 65%) from last fiscal year. Attendance is broken up into several categories: public and private school tours, UNM class tours, community organizations tours, and finally Tuesday Talks, Museum Events, and Opening Reception attendance.

**EDUCATION & PUBLIC PROGRAMS TOTALS:**
- Private and public school tours: 1,540
- University class tours: 808
- Community organizations tours: 245
- Tuesday Talks, Museum Events, Opening Receptions: 5,219

**UNIVERSITY ART MUSEUM**

<table>
<thead>
<tr>
<th>JULY 1999</th>
<th>NUMBER ATTENDED</th>
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<tbody>
<tr>
<td>4</td>
<td>Contemporary Art Society Tour 10</td>
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<td>6</td>
<td>Manzano Daycare Tour 17</td>
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<td>7</td>
<td>Martineztown Community Center 21</td>
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<td>UNM Daycare Tour 26</td>
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<td>11</td>
<td>Frederick Hammersley Walk-through Tour 31</td>
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<tr>
<td>20</td>
<td>UNM Art History Class 33</td>
</tr>
<tr>
<td>20</td>
<td>Opening Reception (Hammersley) 171</td>
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<tr>
<td>25</td>
<td>Art Center Tours (2) 32</td>
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**AUGUST 1999**
- 5 Tamarind Class 11
- 12 UNM College Bound Tour 17
- 18 UNM Orientation Tour 15
- 24 Artists’ Forum 39
- 25 School on Wheels Tour 10
- 27 UNM Painting Class Tour 19
- 31 Tuesday Talk (Ed Ranney) 98

**SEPTEMBER 1999**
- 7 UNM Print Rm. Class 11
- 7 Tuesday Talk (Mary Lance Film on Agnes Martin) 71
- 14 Carlos Rey Elem. Tour 26
- 16 Print Class Tour 18
- 21 Tuesday Talk (Minimalism- Peter Walch) 51
- 22 UNM Drawing Class Tour 15
- 23 Magdalena H.S. Tour 15
- 28 Artists’ Forum 21
- 29 Cultural Studies Colloq. (CSC) 25

**OCTOBER 1999**
- 5 UNM Art History Class 29
- 7 Print Room Class Visit 15
- 12 Artists’ Forum 75
- 13 Hope H.S. Tour 31
- 15 Opening Reception (Excavations-Nagatani/Barnes) 517
- 19 Tuesday Talk (Nagatani) 184
- 20 UNM Photo Class 14
- 21 Jefferson M.S. Tour 25
- 21 Print Study Class 12
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<tr>
<th>Date</th>
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<tr>
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<td>27 UNM Drawing Class Tour</td>
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<td></td>
<td>27 CSC at Noon</td>
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<tr>
<td></td>
<td>28 TVI Class Tour</td>
</tr>
<tr>
<td></td>
<td>29 Albuquerque H.S. Tour</td>
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<td><strong>NOVEMBER 1999</strong></td>
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<td>2</td>
<td>Albuq. Country Day School Tour</td>
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<td>3</td>
<td>CSC at Noon</td>
</tr>
<tr>
<td>4</td>
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<tr>
<td>8</td>
<td>Emmi Whitehorse Reception (Multiple Impressions)</td>
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<td>Artists' Forum</td>
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<td>CSC at Noon</td>
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<tr>
<td>10</td>
<td>UNM Photo Class Visit</td>
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<tr>
<td>11</td>
<td>UNM Photo Class (Barrow) Visit</td>
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<td>UNM Photo Class (Barrow) Visit</td>
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<td>16</td>
<td>Tuesday Talk (Excavations- Richard Barnes)</td>
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<td>Annunciation School Tour</td>
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<td>McKinley M.S. Tours (3)</td>
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<td>30</td>
<td>Joan Myers Booksigning/ Talk</td>
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<td><strong>DECEMBER 1999</strong></td>
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<td>1</td>
<td>Princeton Club Mtg.</td>
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<td>Betye Saar Talk</td>
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<td><strong>JANUARY 2000</strong></td>
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<tr>
<td>18</td>
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<td>19</td>
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<tr>
<td>19</td>
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<td>19</td>
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<td>21</td>
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<td>25</td>
<td>Opening Reception/ Tuesday Talk (Anne Noggle)</td>
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<td>UNM Painting Class (Cook) Visit</td>
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<td>Rio Grande H.S. Tour</td>
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<td>CSC at Noon</td>
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<td>CSC at Noon</td>
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<tr>
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<td>14</td>
<td>Opening Reception (Age of Aquarius)</td>
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<td>15</td>
<td>Rio Rancho H.S. Tour</td>
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<td>UNM Photo Class Visit</td>
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### APRIL 2000

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<td>5</td>
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<td>Gallup M.S. Tours (3)</td>
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<td>Belen Elem. Tour</td>
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<td>Print Room Class</td>
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<td>Socorro Elem. Tours (2)</td>
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<td>Special Ed. Class Tour</td>
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<td>School of the U. pt2 Panel Discussion</td>
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<td>UNM Art History 101 Visit</td>
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<td>La Luz Elem. Tour</td>
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<td>“HAIR” Panel Discussion</td>
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<td>25</td>
<td>UNM Photo Class Visit</td>
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### MAY 2000

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<td>3</td>
<td>FOA Dinner</td>
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<td>4</td>
<td>Lowell Elem. Tour</td>
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<td>UNM Dance Class Visit</td>
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<td>Senior Citizen Tour</td>
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<td>Print Tour</td>
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<td>La Mesa Elem. Tours (2)</td>
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<td>Artists' Forum</td>
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<td>Annunciation School Tours (2)</td>
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<td>La Mesa Elem. Tours (3)</td>
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<td>Donor's Reception</td>
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<td>UNM Art History Class (Batchen)</td>
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<td>16</td>
<td>Moriarty H.S. Tour</td>
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<td>16</td>
<td>Kennedy M.S. Tour</td>
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<td>Alamosa M.S. Tours (2)</td>
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<td>Manzanita Group Tour</td>
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### JUNE 2000

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<td>Kindercare Tour</td>
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<td>Chavez Elem. Tour</td>
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<td>Parks and Rec. Tour</td>
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<td>Rio Grande H.S. Tour</td>
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<td>Wells Fargo Reception</td>
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<td>Kids Summer Art Program Tours (3)</td>
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Programs and Education Attendance Summaries

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<td>Community Organizations tours</td>
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<td>Tuesday Talks, Museum Events, Opening Receptions</td>
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<td>Total Attendance</td>
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<tr>
<td>JULY 1999</td>
<td>Historic Preservation Alliance meeting</td>
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<td>AUGUST 1999</td>
<td>Talk (Cleavage)</td>
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<td>SEPTEMBER 1999</td>
<td>Gallery Talk (Marcelle Karp)</td>
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<td>Panel Discussion (Breast Feeding)</td>
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<td>UNM English class Visit</td>
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<td>APS Class Tour</td>
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<td>OCTOBER 1999</td>
<td>Gallery Talk (Marilyn Yalom)</td>
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<td>UNM Secondary Education class visit</td>
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<td>NOVEMBER 1999</td>
<td>Tuesday Talk (Tiska Blankenship)</td>
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<td>DECEMBER 1999</td>
<td>Tuesday Talk (Historic Architectural Preservation)</td>
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<td>JANUARY 2000</td>
<td>Tuesday Talk (Kirby Gookin)</td>
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<td>MARCH 2000</td>
<td>Tuesday Talk (Robert Walters)</td>
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<td>APRIL 2000</td>
<td>Tuesday Talk (Elizabeth Hutchinson)</td>
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<td>MAY 2000</td>
<td>Tuesday Talk (Screening of Colores program, Raymond Jonson)</td>
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<td>JUNE 2000</td>
<td>Opening Reception (50th Anniversary Exhibition)</td>
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H. Publications

University Art Museum

Catalogs:

*A Sense of Self: Photographic Self Portraits by Anne Noggle*
Essay by Kathleen Howe, poems by Anne Noggle, introduction by Peter Walch

*The Sixth Annual Juried Graduate Student Exhibition*
Essays by student art historians, preface by Jim Jacob

Gallery Guides, other:

*That Certain Look! The Minimalist Tradition in New Mexico.*

*Veneer: Paintings and a Video by Michael Cook*
Essays by Kathleen Howe and Michael Cook. CD by Michael Cook
8 panels, 1 b/w illustration. January 2000.

Jonson Gallery
I. Museum Shop

The museum shop made a $58.81 inventory correction at the end of the year, compared to the $4,638.32 correction last year. The Booklog accounting software reports, the store ledgers, and the FRS all dovetailed nicely. Store ledgers for expenses were $1.58 under the FRS reports. The income ledgers were $18.35 short for the year, partially attributed to the store’s Monthly Financial Report, which rounds to the dollar.

Our profit margin was up from last year. For fiscal year 1998-1999, we ran a $10,076 deficit; the largest expense was payroll due to the four month absence of a manager and a $2469.05 museum acquisition expense. The museum acquisition charge is not a direct store expense; without it the store ran a $7606.00 deficit.

For FY 1999-2000, the store ran a $3178.18 deficit. Of this, $9500.00 was a museum acquisition expense. Without that charge, the store was $6321.84 in the black, up from last year. Sales of the new Mata Ortiz book helped immensely. Overall we sold $8220.58 worth of the two Mata Ortiz books combined.

In addition to these sales, relying more on work-study employees and less on student employees, keeping inventory low, and working toward a higher inventory turnover rate helped the store become more profitable. Booklog has helped also, by tracking sales and identifying deadwood, and also identifying real sales costs.

The FRS reports yearly income as $30,522.16. The store ledger reports it as $30,503.62. The discrepancy can be attributed to two things: a bank deposit error resulting in a shortage of $349.46, to be corrected in FY 2000-2001. The second source of discrepancy is that the Booklog software records pending sales as goods sold. At year-end, we had three outstanding payments for Mata Ortiz books, to be accounted for in FY 2000-2001.
J. Friends of Art

Activities:
- Sponsored two APS student artist pony panels
- Held Spring 2000 lecture series (3 lectures by Peter Walch), "Old (and Not So Old) Masters"
- Held Annual Meeting and Dinner at the University Art Museum, May 3, 2000

Donation to University Art Museum:
- Enrique Chagoya, Les Aventures Des Cannibales Des Modernistes, 1999

Awards Given:
- Art History: Kelly Donahue-Wallace, Political Prints in Mexico
- Art Studio: Sarah Spengler, Site Remains, 1999
- Best Friend: Frauke and Keith Roth, Peter Eller

Board 1999-2000:
- Louise St. John, President
- Cindy Lematta and Peter Eller, Vice Presidents
- Malu Cooper, Treasurer
- Jane Bradley
- Mary Gilstrap
- Ellin Hewes
- Ina Krieble
- Susan Lentz
- Wes Pulkka
- Frauke Roth
- Patricia Savignac
- Luis Neri Zagal
6. Outside Sponsored Research and Collections Development

**University Art Museum**

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<td>Amount</td>
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<td>Peter Walch</td>
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**Jonson Gallery**

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<tr>
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7. Professional Activities

Tyler Anderson
16th Century Transition from Pre-Columbian to Spanish Colonial Art in Mexico, Spring 2000

Linda Bahm
Member, Museum Cooperative Council of Albuquerque
Member, New Mexico Association of Museums
Member, UNM Research Administrators Network
UNM Representative, Harwood Museum Advisory Board

Professional meetings and classes attended:
- Mountain Plains/New Mexico Museums Associations Joint Annual Meeting, Santa Fe, New Mexico
  October 13-16, 1999
- UNM Corporate Time Software Training, July 23, 1999
- UNM Civil Rights Training, August 12, 1999
- Alaska Native Music and Culture (audit), Spring 2000
- UNM Financial/Retirement Planning Workshop, March 6, 13, 20, and 27, 2000
- UNM Seven Habits of Highly Effective People, March 10, 17, 24, 2000
- UNM Mulberry Class, March 30, 2000
- UNM Projects and Project Management, May 4, 2000

Kelvin Beliele
Member, English Graduate Student Association
Member, Graduate and Professional Student Association

Professional meetings and classes attended:
- Elementary Latin, July 6-July 31, 1999
- UNM Understanding the FRS Reports, August 3, 1999
- UNM Corporate Time, August 5, 1999
- Intermediate Latin, August 23, 1999-December 10, 1999
- Introduction to Professional Study (English Literature), August 23, 1999-December 10, 1999
- Readings in Latin, January 18-May 5, 2000
- UNM Mulberry, March 30, 2000
- UNM Civil Rights at Work At UNM, April 13, 2000

Mark Cattanach
Member, New Mexico Association of Museums
Member, Mountain Plains Museum Association

Professional meetings and classes attended:
- Mountain Plains/New Mexico Museums Associations Joint Annual Meeting, Santa Fe, New Mexico
  October 13-16, 1999
- UNM Financial/Retirement Planning Workshop, May 2000
- UNM Mulberry Class, June 6, 2000
- UNM Introduction to PC's, January 2000
- Beginning Microsoft Windows, January-February 2000
- Beginning Microsoft Word for Office '97, February 2000
- Intermediate Word for Office '97, March 2000
- Beginning Microsoft Access '97, June 2000
- Willoughby Associates, Ltd. SNAP! Database, May 4, 2000
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:
Lecture to the Contemporary Art Society on the Annual Juried Graduate Student Exhibition, UAM
Moderator, Artists' Forum Program, UAM
Director, Volunteer Docent Program, UAM
Juror, New Era Art exhibition, Magnifico Art Space
Lecture on Collaboration in the Arts for Media Arts Department, UNM
Chief Curator, Albuquerque Contemporary Art Center (formerly ARC Gallery), Downtown Albuquerque
Curator, statewide Film and Video Show, ARC Gallery, [AC]²
Curator, Annual Juried Graduate Student Exhibition, University Art Museum, UNM

Kathryn A. Guscott

Professional meetings and classes attended:
Photographic Collections Management Workshop, The Society of American Archivists, Santa Fe, NM, February 4-5, 2000
History of Graphics I, Fall 1999
Nineteenth Century Photography, Fall 1999
Twentieth Century Photography, Spring 2000
Willoughby Associates, Ltd. SNAP! Database, May 4, 2000
History of Graphic Arts, Spring 2000

Teaching:
"The Proper Handling and Framing of Artwork," Non-silver Photography, April 2000
In-service workshop, Art Handling, Harwood Art Museum, Taos NM, May 2000

Kathleen Stewart Howe
Co-chair, Cultural Studies Committee, University of New Mexico
Member, Print Council of America
Member, American Association of Museums
Member, College Art Association
Member, Historians of Nineteenth-Century Art
Member, Society for Photographic Education

Professional meetings and classes attended:
Print Council Annual Meeting, Los Angeles, May 2000
Media Literacy Symposium, Taos, New Mexico, April 2000
Willoughby Associates, Ltd. SNAP! Database, May 4, 2000

Teaching:
Art History 419/519 History of Nineteenth-Century Photography, Fall Semester 1999, UNM Dept. of Art and Art History
Supervised independent study courses for one undergraduate (Fall Semester, 1999) and one graduate student (Summer Semester, 2000) through UNM Dept. of Art and Art History
Served on three MA Thesis committees and one PhD Dissertation committee

Professional activities:
Coordinator for Cultural Studies Colloquium Series
Juror, Vision 2000, a national photographic competition held by the Santa Fe Center for Visual Arts, February 2000
Advisor to Magnifico Jury "Why Albuquerque?" March 2000
Portfolio reviewer for College of Santa Fe, Monothan, January 2000
Cindy Leyba
Professional meetings and classes attended:
  Purchasing & Accounts Payable: Bookholder Training,
  Willoughby Associates, Ltd. SNAP! Database, May 4, 2000

Lee Savary
  UAM Y2K Coordinator
Professional Meetings and Classes Attended:
  Electronics Photography
  Exhibition Designer and Manager, La Luz: Contemporary Latino Art in the United States
  Photoshop Workshop, Jan 26, 2000

Bonnie K. Verardo
  Member, Public Art Program, City of Albuquerque, FUNd project
  Member, New Mexico Association of Museums
Exhibiting Artist:
Professional activities:
  Nina Bean Memorial Charity Art Exhibition/Sale, Fine Arts Gallery, State Fair, Albuquerque,
  May 19-20, 2000
  Photographic Collections Management Workshop, The Society of American Archivists, Santa Fe, NM.
  February 4-5, 2000
  Acting Registrar, National Hispanic Cultural Center of New Mexico. Visual Arts Department, independent contractor (total of 30-40 hours per month). November 1, 1999-present
  Willoughby Associates, Ltd. SNAP! Database Training Session, May 4, 2000
Appendices

A. Personnel: University Art Museum and Jonson Gallery
B. Committees: University Art Museum and Jonson Gallery
Staff:

Tyler R. Anderson, Office Assistant
Linda Bahrn, Associate Director
Kelvin Beliele, Administrative Assistant
Tiska Blankenship, Curator, Jonson Gallery
Mark Cattanach, Collection Manager
Michael Certo, Curator of Education and Public Programs
Kathryn A. Guscott, Preparator
David M. Gutierrez, Museum Shop Manager
Kathleen S. Howe, Print/Photo Curator
Cindy L. Leyba, Curatorial Assistant, Jonson Gallery
Lee Savary, Exhibitions Curator
Bonnie K. Verardo, Curator I
Peter S. Walch, Director

Work Study, Student, and Temporary Employees:

Linda K. Brown
Lonnette Butler
Joanne Carrubba
Nanibah Chacon
Kimberly Cleveland
Scott B. Davis
Heather Feeney
Connie J. Fulwyler
Carol Gilge
Jason B. Jones
Jenna Hinton
Snejina Iankova
Amy Kennedy
Jeff Leidner
Jeffrey Lillie
Sara Marion
Carol McCusker
Shannon N. Pritchard
Daniel Roybal
Cody Saxton
Naavah Schneider
Portia Sharp
Cynthia Shoemaker
Rachel Sussillo

January 8, 1999
December 9, 1985
April 19, 1999
April 22, 1985-November 30, 1999
September 27, 1999
April 5, 1999
July 3, 1995
September 15, 1998
July 11, 1994
September 29, 1998
August 3, 1992
November 1, 1995
July 1, 1985
October 20, 1998
June 5, 2000
June 5, 2000
March 8, 1999
August 20, 1999
July 7, 1998
August 23, 1999
June 16, 1997-May 19, 2000
September 2, 1997
August 28, 1998-December 17, 1999
June 1, 1999
July 19, 1999-July 23, 1999
January 30, 1999-December 17, 1999
June 14, 1999-August 20, 1999
February 3, 2000-May 19, 2000
August 16, 1999
March 3, 1997-September 24, 1999
June 1, 1999-December 17, 1999
August 23, 1999-December 2, 1999
February 8, 2000
March 13, 2000-May 19, 2000
May 22, 2000-July 11, 2000
August 2, 1999-September 20, 1999
January 18, 2000-February 16, 2000
B.

University Art Museum
Advisory Committee
1999-2000

Clinton Adams, Professor Emeritus, Art and Art History, Chair
Peter Walch, Director, University Art Museums, Secretary
Thomas A. Dodson, Dean, College of Fine Arts
Roger L. Schuntz, Dean, School of Architecture and Planning
Flora Clancy, Chair, Art and Art History
Thomas F. Barrow, Professor, Art and Art History
Van Deren Coke, Professor Emeritus, Art and Art History
Joyce Szabo, Professor, Art and Art History
Nancy Uscher, Acting Associate Provost, Academic Affairs
Susan Mullins, University Auditor
Louise St. John, President, Friends of Art
Sheilah Garcia, Community Representative

Jonson Gallery
Sub-Committee on Jonson Collections

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

Ex-Officio Members

Peter Walch, Director, University Art Museum

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

Jonson Gallery Group

Penny Rembe
Gail Doyel
Martha Day

Volunteers: Jonson Gallery

Tiska Blankenship
Marcelle Hackbardt
Bill Kennedy
David Matulka
Danielle Miller
Scott Nacke

Adjunct Curators: University Art Museum

Clinton Adams
Thomas F. Barrow
David Craven
Christopher Mead
O. J. Rothrock
COLLEGE OF ARTS AND SCIENCES

ANNUAL REPORT

July 1, 1999 - June 30, 2000

FRITZ ALLEN, INTERIM DEAN
## COLLEGE OF ARTS AND SCIENCES

Annual Report, July 1, 1999 - June 30, 2000

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I. OVERVIEW

The 1999-00 academic year in the College of Arts and Sciences saw slight decreases both in the head count of students enrolled and in student credit hours recorded, consistent with the trend of the past three years.

The ranks of the tenure-stream faculty in the College remained essentially unchanged as eighteen new tenure-track faculty were hired and fifteen resigned or retired. Funds were budgeted for the College in the Spring of 2000 to provide an average salary increase of 3.5% for faculty returning in 2000-01. Although all funds available to the College for 2000-01 exceed funds available in 1999-00, this increase is insufficient to support several aspects of the College’s operations which remain seriously underfunded.

II. ADMINISTRATION

The College’s administration in 1999-2000 changed compared to 1998-99. Michael R. Fischer, Dean, appointed Vera Norwood, Laura Crossey and Kenneth Frandsen as Associate Deans. Associate Deans of the College accepted individual responsibilities similar to those identified in annual reports covering the previous three years.

Associate Dean Laura Crossey assumed responsibility for the College’s student advisement effort and for validation of curriculum changes and graduation requirements. She continued to serve as the College office’s liaison with the College’s Undergraduate Education Committee and with the College’s Graduate Education Committee, and provide oversight of the various scholarly publications that the College supports. During 1999-00, she assumed responsibility for coordinating college-wide outcomes assessment.

Associate Dean Kenneth Frandsen continued to provide assistance and information concerning Affirmative Action and Equal Opportunity policies and data sources, liaison with
the Equal Opportunity and Faculty Contracts offices, and oversight of search and screening efforts in conjunction with the appointment of regular and temporary part-time faculty in the departments of the College and in the African-American Studies and Women Studies Programs. Also, he served as Interim Chair, Speech and Hearing Sciences Department.

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

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

A number of important changes impacted the College of Arts and Sciences in the 1999-2000 academic year. Among these the most important and far reaching is the departure of Dean Michael Fischer at the end of the academic year. Dean Fischer is now the Academic Vice President at Trinity University in San Antonio, Texas. This has resulted in the appointment of an Interim Dean to manage the College until a permanent replacement can be found. Fritz Allen, former chair of the Chemistry department has accepted the Interim appointment.

This year the college has new chairs in almost one third of the departments. We have been offering workshops to the new chairs on aspects of hiring faculty, dealing with tenure and promotion issues and student grievance and discipline procedures. These sessions have been
well attended and are helping to integrate the new chairs into the cadre of seasoned departmental administrators.

In 1999-00, the College of Arts and Sciences continued its emphasis on two major initiatives: improving undergraduate education and strengthening our contributions to K-12 education. In addition the College began an effort to plan for its future. To improve undergraduate education, strengthen our K-12 outreach and support the College planning program, we

* Have made a 50% expansion of the programs of the Albuquerque Teacher's Institute
* Continued a new Excellence in Undergraduate Education fund to support innovative teaching, curricular development, outcomes assessment, and other educational contributions
* Continued a new freshman seminar program featuring small classes taught by eminent senior instructors on central issues in particular disciplines, such as exploring the mysteries of the ancient world in anthropology
* Offered a strong seminar series to high school faculty on Chivalry and the Arthurian Romance through the Medieval Studies Institute
* Instituted a comprehensive planning effort within the College

Our participation in the public schools starts with individual faculty members working with K-12 students and sharing their expertise: setting up mathematics contests, staging chemistry shows, judging science fairs, discussing their scholarly interests with students of all ages. Our special college facilities—among them, the Museum of Southwestern Biology, the Maxwell Museum of Anthropology, the Geology Museum, the Physics and Astronomy campus observatory, the Charlie Morrisey Research Hall—regularly host visits from school children and other community groups. The Geology Museum, for example, is free, open to the public, and
includes exhibits on New Mexico’s rocks, minerals, fossils, and geology. Department faculty, staff, and graduate students give guided tours and talks to classes.

In addition, numerous Arts and Sciences courses are required of education majors. These courses include our Natural Sciences Program, a three-semester sequence of courses in the physical sciences, life sciences, and environmental science especially conceived for prospective elementary and middle school teachers. Students in these courses learn science by doing it in experiments and projects that can in turn be taught to school children.

The Albuquerque Teachers’ Institute is one of four national sites designed to improve secondary education and features seminars taught by Arts and Sciences faculty on topics chosen by APS teachers. The teachers targeted by the institute work in the six APS high schools with the highest dropout rate, along with their feeder middle schools. In addition to providing continuing professional development for teachers, the seminars focus on developing new curricular strategies for teachers to take back their classrooms. This year we have expanded this dynamic program with a 50% increase in seminar activity.

In a similar way to the Albuquerque Teachers Institute, the Medieval Studies program has been offering a series of six all-day seminars to the high school teaching community. These programs feature well known visiting scholars and UNM faculty presenting lectures on interesting topics from the middle ages. The lectures are followed up with teaching units and materials that make it easy to incorporate the day’s materials into the classroom.

Dean Fischer appointed a committee to help in defining a plan for the optimum operation of the College in an environment with no growth resources. This group helped to define the values of the College and the aspects of departmental activity that should be rewarded. We
continue to ask the question of how to apply those ideas to assessing how the various elements of the College contribute to the College mission.

IV. AFFIRMATIVE ACTION

The College continued its efforts to increase the cultural and gender diversity among its faculty during the 1999-00 AY. Consistent with Regents’ policy concerning diversification of search committee membership, several of the members of search committees were from ethnic groups currently underrepresented in the faculty and many of the search committee members were female.

Appointments resulting from conventional searches, conducted during AY 1999-00, added eighteen new tenure track faculty to the College of Arts and Sciences ranks for AY 2000-01. Of those appointed, nine are female, three are Hispanic, and two are Asian American. Of the fifteen separating tenure track faculty, none are female and three are members of protected groups.

During AY 1999-00, the College continued efforts to ensure equity within the faculty salary structure for members of underrepresented groups and to provide support to those faculty for the purpose of career development at the individual level. These efforts to nurture and develop faculty already at UNM will continue during AY 2000-01.

V. RESEARCH AND SCHOLARLY ACTIVITY

The scholarly and creative achievements of Arts and Sciences faculty that resulted in published works during 1999 are thoroughly documented in the annual volume of Faculty Publications and Creative Works issued by the Office of the Associate Provost for Research.
The level of activity both in grant expenditures and new grant awards increased significantly in AY 1999-00 compared to AY 1998-99 as detailed in Table 10.

VI. TEACHING

Summary data on various aspects of the College’s teaching efforts are presented in Tables 5, 6, 7, 8 and 9. Although classrooms with a better profile of capacities continue to be a requisite for improved efficiency of instructional delivery, the College’s numerical productivity has declined only slightly, especially with respect to enrollments in courses offered during evening and weekend hours. This decline is particularly notable in view of only a slight decline in the total FTE budgeted faculty for AY 1999-00 compared to AY 1998-99, as detailed in Table 4. However, our analysis indicates that, in the context of student demand, the College instructional efforts are seriously understaffed, especially in the category, graduate teaching assistants.

VII. SPECIAL PROJECTS AND FUNCTIONS

Advisement and Record Center

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

The Center continued operation under modified hours (as in AY98-99): opening from 8:30 am until 4:30 pm Monday through Friday including lunch. Time from 8-8:30 am and
4:30-5 pm is utilized for processing, caseworking and phone contacts. In addition to seeing students on a walk-in basis, each advisor is responsible for a student caseload of 753. Advisors also assist with new admittees and transfer students on Saturdays and after hours. The Advisement Center offers appointments with individual advisors before 10 AM and after 3 PM. All Arts and Sciences athletes are required to make an appointment with an advisor in Arts and Sciences and report to athletic advisement to confirm that the appointment was kept.

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

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

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

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

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

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

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

Gallup
Santa Fe Community College
TVI-Albuquerque
TVI-Montoya
Los Alamos
Valencia
Taos
The advisement staff this year consisted of:

Laura Crossey, Associate Dean
Julie Fields, Receptionist
Julie Bustamante, Advisement Co-ordinator
Monique Denzler, Advisement Co-ordinator
Leonor Lucero, Advisor
Mary Lou Wilkerson, Advisor
Susanna Sprague, Advisor
Jan Wallentine, Advisor
Randa Gamal, Advisor

**College of Arts and Sciences Curriculum**

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

**College of Arts and Sciences Graduate Committee**

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

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

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

College of Arts and Sciences Undergraduate Committee

Charge - The A&S Undergraduate Committee is responsible for maintaining and enhancing the quality of undergraduate education in the College. This includes activities related to curriculum change impacting the College, participating as necessary in periodic reviews of instructional programs, reviewing academic advisement procedures as necessary, and considering changes in administrative or academic regulations which affect undergraduate programs.
Membership - Each of the 20 academic departments in the College designates one faculty representative (voting faculty as defined in the Faculty Handbook) to the A&S Undergraduate Committee (see Table 2). The A&S Undergraduate Committee meets in conjunction with representatives from interdisciplinary degree-granting programs and staff academic advisors within the College. Visitors to the meetings are welcome, and may be called upon to speak to the group as necessary. The Subcommittee on Curriculum provides a brief report at each meeting.

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

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

*College of Arts and Sciences Curriculum Sub-committee*

The Curriculum Sub-committee composed of Charlie Steen (Chair), Steve Huestis, Cliff Dahm, Brad Hall, Ed Fuge, approved 100 Forms A, 14 Forms B, and 6 Forms C. The Committee also approved one Form D to establish a Master of Science in Optical Science and Engineering.

*College Grant Initiatives*

*New Mexico Collaborative for Excellence in Teacher Preparation*

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

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

**UNM/APS Teachers' Institute**

The University of New Mexico was awarded an implementation grant for the Albuquerque Teachers' Institute ($380,000 over three years from the DeWitt Wallace-Reader's Digest Fund). During the report period an additional $200,000 was raised from private foundations and $45,000 from the Federal Eisenhower Program through the Commission of Higher Education. The institute is being modelled after the highly successful Yale-New Haven Teachers' Institute in New Haven, Connecticut. In the Albuquerque Teachers' Institute, College of Arts and Sciences faculty create seminars of interest to public school teachers. To date, 73 Arts and Sciences teachers have taken seminars led by nine Arts and Sciences faculty and one from Architecture and Planning. During the seminars, the teachers are colleagues, rather than students, and are paid for their participation. The objectives of the seminars are continuing education in key content areas for teachers and the development of new curriculum units to be used in the public schools and shared with other teachers. Arts and Sciences is assisting with formulating a self-sustaining financial support plan for the Institute through development and legislative efforts.
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Pursue Program

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

Dean’s List - College of Arts and Sciences Honor Roll

The criteria for inclusion on the Dean’s List are a semester GPA of 3.75 or higher while enrolled for 12 or more credit hours with letter grades, and a cumulative GPA for UNM coursework of at least 3.25. In Fall 1999, 402 students achieved this honor; in Spring 2000 the number of students was 429. Students who met the criteria for inclusion on the Dean’s List received a letter of appreciation and congratulations signed by Dean Fischer.
Summer Session

The 2000 Summer session allocation to the College was slightly less than that of 1999, as detailed in Table 12. Our support of unique summer programs - intensive language institutes, study abroad programs and field schools - continued.

Travel and Special College Funds

The College disbursed about $21,060.09 to faculty in the College for travel expenses to supplement the support provided by departments. It also distributed $11,872.49 to individual faculty to defray the costs of reprints of their scholarly work. In addition, the College provided $3,399.50 to departments to support honoraria for guest speakers. A summary of these distributions appears in Tables 13 and 14.

Research Semester

The A&S Research Semester Program permits faculty selected on a competitive basis to be relieved of formal teaching responsibilities for one semester in order to pursue research activities. Faculty proposals are evaluated according to the applicant's prior research record, merits of the proposed research, and (in case of senior faculty awards) the proposed project's benefit for graduate students. The program was modified to provide one senior and two junior awards each semester, rather than two senior and one junior award. The modification represented the Dean's commitment to providing more research resources for junior faculty as they near their tenure decision date. This year senior awards went to Lawrence Strauss (Anthropology) in Fall 1999 and Krzysztof Galicki (Mathematics and Statistics) in Spring 2000. The junior award winners were Joseph Powell (Anthropology) and Aparna Huzurbazar
(Mathematics and Statistics) in Fall 1999 and Lonna Atkeson (Political Science) and Deborah Jenson (Foreign Languages and Literatures) in Spring 2000.

**Development Efforts**

In 1999-2000, the College of Arts and Sciences received gifts totaling $1,842,005 in 1,636 transactions, confirming that an annual base of support of over $1,000,000 is reasonable for the College. Responses to the solicitation included in the Spring 2000 issue of *Inside Arts and Sciences* totaled $4,298.00. In any given year the total will vary as a result of planned gifts.

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

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

Council meetings included a luncheon with Dr. Maggie Werner-Washburne, who discussed her Genomic research and what this research could mean in terms of economic development for the state.
VIII. DEPARTMENTAL REPORTS

Detailed reports on activities in the twenty departments comprising the College of Arts and Sciences are forwarded along with this College report.
<table>
<thead>
<tr>
<th>Subject</th>
<th>Chairperson</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Studies</td>
<td>Gabriel Melendez</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Marta Weigle</td>
</tr>
<tr>
<td>Biology</td>
<td>Kathryn Vogel</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Fritz Allen</td>
</tr>
<tr>
<td>Communication/Journalism</td>
<td>Karen Foss</td>
</tr>
<tr>
<td>Earth &amp; Planetary Sciences</td>
<td>Les McFadden</td>
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<tr>
<td>Economics</td>
<td>David Brookshire</td>
</tr>
<tr>
<td>English</td>
<td>Scott Sanders</td>
</tr>
<tr>
<td>Foreign Lang &amp; Literature</td>
<td>Walter Putnam</td>
</tr>
<tr>
<td>Geography</td>
<td>Paul Matthews</td>
</tr>
<tr>
<td>History</td>
<td>Richard Robbins</td>
</tr>
<tr>
<td>Linguistics</td>
<td>Garland Bills</td>
</tr>
<tr>
<td>Mathematics &amp; Statistics</td>
<td>Ronald Schrader</td>
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<td>Philosophy</td>
<td>Fred Schueler</td>
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<tr>
<td>Physics &amp; Astronomy</td>
<td>John McIver</td>
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<tr>
<td>Political Science</td>
<td>Neil Mitchell</td>
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<tr>
<td>Psychology</td>
<td>Michael Dougher</td>
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<tr>
<td>Sociology</td>
<td>Richard Coughlin</td>
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<tr>
<td>Spanish &amp; Portuguese</td>
<td>John Lipski</td>
</tr>
<tr>
<td>Speech &amp; Hearing Sciences</td>
<td>Ken Frandsen (Interim Chair)</td>
</tr>
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</table>
INTERDEPARTMENTAL PROGRAMS

ASIAN STUDIES (minor, major)
  Ted Sturm

COMPARATIVE LITERATURE (minor, major)
  Diana Robin

ECONOMICS-PHILOSOPHY (major)
  Russell Goodman

EUROPEAN STUDIES (minor, major)
  Carolyn Woodward

ITALIAN STUDIES (minor)
  Rachele Duke

MEDIEVAL STUDIES (minor)
  Helen Damico

PEACE STUDIES (minor)
  Ted Sturm

QUATERNARY STUDIES (minor)
  Les McFadden

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

BIOCHEMISTRY (major)
  Beulah Woodfin

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

ENGLISH-PHILOSOPHY (major)
  Barbara Hannan

LATIN AMERICAN STUDIES (Ph.D.)
  Linda Hall

RELIGIOUS STUDIES (minor, major)
  Andrew Burgess/Louis Hieb

SCIENCE, TECHNOLOGY & SOCIETY (minor)
  Ron Reichel

WOMEN STUDIES (minor)
  Shane Phelan

SOCIAL WELFARE (minor)
  Richard Coughlin

AFRICAN-AMERICAN STUDIES (minor, major)
  Shiame Okunor
TABLE 2

STANDING & SPECIAL COMMITTEES
COLLEGE OF ARTS AND SCIENCES, 1999-2000

A&S Graduate Committee

Tom Niemczyk, Chemistry, (Chair)
Beth Bailey, American Studies
Patricia Crown, Anthropology
Cliff Dahm, Biology
Brad Hall, Communication & Journalism
Maya Elrick, Earth & Planetary Sciences
Kishore Gawande, Economics
Gail Houston, English
Natasha Kolchevska, Foreign Lang & Lit
Brad Cullen, Geography
Patricia Risso, History
Garland Bills, Linguistics
Alejandro Aceves, Mathematics & Statistics
Sergio Tenenbaum, Philosophy
John Matthews, Physics & Astronomy
Joseph Stewart, Political Science
Dick Harris, Psychology
Richard Wood, Sociology
Anthony Cardenas, Spanish & Portuguese
Bopanna Ballachanda, Speech & Hearing Sciences

A&S Undergraduate Committee

Ruth Salvaggio, American Studies
Les Field, Anthropology
Gordon Johnson, Biology
Mark Ondrias, Chemistry
Mike McDevitt, Communication & Journalism
Steve Huestis, Earth & Planetary Sciences
Phil Ganderton, Economics
Mary Powers, English
Warren Smith, Foreign Lang & Lit
Jerry Williams, Geography
Charlie Steen, History
Melissa Axelrod, Linguistics
Vageli Coutsias, Mathematics & Statistics
John Taber, Philosophy
Daniel Finley, Physics & Astronomy
Ellen Grigsby, Political Science
Gordon Hodge, Psychology
Jane Hood, Sociology
Tey Diana Rebolledo, Spanish & Portuguese
Linda Bivins, Speech & Hearing Sciences

A&S Junior Faculty Promotion and Tenure Committee

John Geissman, E&PS (Chair)
Alejandro Aceves, Mathematics and Statistics
Alok Bohara, Economics
Melissa Bokovoy, History
Lorraine Deck, Chemistry
Bob Fiala, Sociology
John Gluck, Psychology
Mary Ann Nelson, Biology
Susan Rivera, Spanish and Portuguese
Richard Schaefer, Communication and Journalism
Sally Seidel, Physics and Astronomy
John Taber, Philosophy

A&S Senior Faculty Promotion and Tenure Committee

John Panitz, Physics & Astronomy (Chair)
Patricia Crown, Anthropology
David Farber, History
Steve Gangestad, Psychology
Barry Gaines, English
Frank Gilfeather, Mathematics and Statistics
David Ligon, Biology
Tey Diana Rebolledo, Spanish and Portuguese
Diana Robin, Foreign Languages and Literatures
Ruth Salvaggio, American Studies
Jan Schuetz, Communication and Journalism
Bert Useem, Sociology
TABLE 3

Changes in status of tenure-stream faculty in the College of Arts and Sciences: Decisions reached in AY 1998-99 to take effect in AY 1999-00.

**Promotions to Full Professor**

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<tbody>
<tr>
<td>Hill, Kim</td>
<td>Anthropology</td>
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<td>Lamadrid, Enrique</td>
<td>Spanish &amp; Portuguese</td>
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<tr>
<td>Selverstone, Jane</td>
<td>Earth &amp; Planetary Sciences</td>
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<td>Slaughter, Jane</td>
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<td>Smith, Gary</td>
<td>Earth &amp; Planetary Sciences</td>
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<td>Yazawa, Mel</td>
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**Promotions to Associate Professor and Award of Tenure**

<table>
<thead>
<tr>
<th>Name</th>
<th>Appointment Type</th>
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<tr>
<td>Axelrod, Melissa</td>
<td>P/T</td>
<td>Linguistics</td>
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<tr>
<td>Berrens, Robert</td>
<td>P/T</td>
<td>Economics</td>
</tr>
<tr>
<td>Bieber, Judy</td>
<td>P/T</td>
<td>History</td>
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<tr>
<td>Chermak, Janie</td>
<td>P/T</td>
<td>Economics</td>
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<td>Field, Les</td>
<td>P/T</td>
<td>Anthropology</td>
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<td>Lopez, Kimberle</td>
<td>P/T</td>
<td>Spanish &amp; Portuguese</td>
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<tr>
<td>Moy, Timothy</td>
<td>P/T</td>
<td>History</td>
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<td>Paine, Charles</td>
<td>P/T</td>
<td>English</td>
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<tr>
<td>Patterson, Janet</td>
<td>P/T</td>
<td>Speech &amp; Hearing Sciences</td>
</tr>
<tr>
<td>Warner, Sharon</td>
<td>P/T</td>
<td>English</td>
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<tr>
<td>Wilcox, Phyllis</td>
<td>P/T</td>
<td>Linguistics</td>
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**Positive Third-Year Reviews**

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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</thead>
<tbody>
<tr>
<td>Brearly, Adrian</td>
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<td>Evans, Deborah</td>
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<tr>
<td>Fawcett, Peter</td>
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<tr>
<td>Hutchison, Elizabeth</td>
<td>History</td>
</tr>
<tr>
<td>Li, Bai-Lian (Larry)</td>
<td>Biology</td>
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<tr>
<td>Oetzel, John</td>
<td>Communication &amp; Journalism</td>
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<tr>
<td>Partin, Randall</td>
<td>Political Science</td>
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<tr>
<td>Schroeter, Katrin</td>
<td>Foreign Languages &amp; Literatures</td>
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<tr>
<td>Sharp, Zachary</td>
<td>Earth &amp; Planetary Sciences</td>
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</table>
Positive Third-Year Reviews (Continued)

Shigekuni, Julie
Tang, Akaysha
English
Psychology

1999-00 New Appointments

Ball, Durwood
Bishop, Stephen
Hanson, Timothy
Kandath, Krishna
McKnight, Kathryn
Meyer, Grant
Putkaradze, Vachtang
Ramirez, Catherine
Reyes, Barbara
Romano, Susan
Romero, Bazan
Roy, Mousumi
Schaffer, Barbara
Tesche, Carolyn
Thomson, Ian
Tierney, David
Torres-Cacoullos, Rena
Watt, Richard
Wohlert, Amy
Wolf, Blair
History
Foreign Lang & Lit
Mathematics & Statistics
Communication & Journalism
Spanish & Portuguese
Earth & Planetary Sciences
Mathematics & Statistics
English
History
English
American Studies
Earth & Planetary Sciences
Linguistics
Psychology
Philosophy
Chemistry
Spanish & Portuguese
Chemistry
Speech & Hearing Sciences
Biology

Resignations/Retirements (effective 1999-00)

Eterline, Andrew
Finn, Patrick
Fischer, Michael
Gallagher, Patrick
Harris, Richard
Johnson, Gordon
Kern, Robert
Kudo, Bert
Lafree, Gary
Lipski, John
McPherson, David
Owens, Louis
Political Science
Speech & Hearing Sciences
English
English
Psychology
Biology
History
Earth & Planetary Sciences
Sociology
Spanish & Portuguese
English
English
TABLE 3 (continued)

Resignations/Retirements (continued)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<tbody>
<tr>
<td>Papadopolous, E.P.</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Treat, James</td>
<td>American Studies</td>
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<tr>
<td>Zimmer, William</td>
<td>Mathematics &amp; Statistics</td>
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</tbody>
</table>
### TABLE 4

**FTE BUDGETED FACULTY, 1999-00**

<table>
<thead>
<tr>
<th>Department</th>
<th>Regular Faculty</th>
<th>Residual Instruction</th>
<th>GAs/TAs</th>
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</thead>
<tbody>
<tr>
<td>American Studies</td>
<td>6.00</td>
<td>0.11</td>
<td>3.00</td>
</tr>
<tr>
<td>Anthropology</td>
<td>22.30</td>
<td>0.11</td>
<td>7.25</td>
</tr>
<tr>
<td>Biology</td>
<td>30.59</td>
<td>0.11</td>
<td>21.00</td>
</tr>
<tr>
<td>Chemistry</td>
<td>20.22</td>
<td>1.70</td>
<td>16.00</td>
</tr>
<tr>
<td>Communication/Journalism</td>
<td>14.67</td>
<td>1.67</td>
<td>3.50</td>
</tr>
<tr>
<td>Earth &amp; Planetary Sciences</td>
<td>16.50</td>
<td>0.11</td>
<td>6.50</td>
</tr>
<tr>
<td>Economics</td>
<td>14.92</td>
<td>0.09</td>
<td>6.25</td>
</tr>
<tr>
<td>English</td>
<td>33.83</td>
<td>3.13</td>
<td>29.50</td>
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<td>For Lang &amp; Lit</td>
<td>11.50</td>
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<tr>
<td>Geography</td>
<td>5.83</td>
<td>0.09</td>
<td>1.50</td>
</tr>
<tr>
<td>History</td>
<td>21.92</td>
<td>0.09</td>
<td>11.00</td>
</tr>
<tr>
<td>Linguistics</td>
<td>10.90</td>
<td>0.09</td>
<td>2.00</td>
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<tr>
<td>Mathematics &amp; Statistics</td>
<td>32.65</td>
<td>1.79</td>
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<td>Philosophy</td>
<td>10.00</td>
<td>0.09</td>
<td>3.50</td>
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<td>Physics &amp; Astronomy</td>
<td>27.67</td>
<td>0.22</td>
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<td>Political Science</td>
<td>18.50</td>
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<td>Psychology</td>
<td>22.00</td>
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<td>12.25</td>
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<td>16.72</td>
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<tr>
<td>Spanish &amp; Portuguese</td>
<td>13.50</td>
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<td>18.00</td>
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<td>Speech/Hearing Sci</td>
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<td>0.09</td>
<td>1.00</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>355.19</strong></td>
<td><strong>10.00</strong></td>
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Data Source: College of Arts and Sciences Instructional Budget, 1999-00
<table>
<thead>
<tr>
<th>Year</th>
<th>Semester I</th>
<th>% Inc. Over</th>
<th>Semester II</th>
<th>% Inc. Over</th>
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<tr>
<td></td>
<td></td>
<td>Previous Year</td>
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<td>Previous Year</td>
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<td>1990-91</td>
<td>4,252</td>
<td>6.7</td>
<td>4,393</td>
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<td>1991-92</td>
<td>4,434</td>
<td>4.2</td>
<td>4,598</td>
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<td>1992-93</td>
<td>4,720</td>
<td>6.4</td>
<td>4,813</td>
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<td>1993-94</td>
<td>5,048</td>
<td>6.9</td>
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<td>1994-95</td>
<td>4,564</td>
<td>-9.5</td>
<td>4,643</td>
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<td>1995-96</td>
<td>4,195</td>
<td>-8.08</td>
<td>4,166</td>
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<td>1996-97</td>
<td>4,056</td>
<td>-3.31</td>
<td>4,181</td>
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<td>1997-98</td>
<td>4,129</td>
<td>1.79</td>
<td>4,132</td>
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<td>1998-99</td>
<td>4,112</td>
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<td>1999-00</td>
<td>4,019</td>
<td>-2.26</td>
<td>3,957</td>
<td>-6.18</td>
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</tbody>
</table>

Data Source: Arts and Sciences Registered Students Listing - 21 day report
### TABLE 6

**DEGREES AWARDED**  
**COLLEGE OF ARTS AND SCIENCES**

| Year | Bachelor's Degrees | | | | Advanced Degrees | | | |
|------|-------------------|-----|-----|---|----------------|---|----|
|      | No. | % Inc. | Over Prev. Yr. | Master's (a) | No. | % Inc. | Doctor's | No. | % Inc. | Total | No. | % |
|      | Degree | | | No. | % Inc. | | No. | % Inc. | | | | |
| 1991 | 837 | 9.7 | | 159 | 2.6 | | 73 | 15.9 | | 232 | 6.4 |
| 1992 | 856 | 2.3 | | 226 | 42.1 | | 74 | 1.4 | | 300 | 29.3 |
| 1993 | 905 | 5.7 | | 205 | -9.3 | | 75 | 1.4 | | 280 | -6.7 |
| 1994 | 1020 | 12.7 | | 236 | 15.1 | | 82 | 9.3 | | 318 | 13.6 |
| 1995 | 1133 | 11.1 | | 229 | -2.5 | | 85 | 3.7 | | 314 | -1.3 |
| 1996 | 1005 | -11.2 | | 275 | 20.1 | | 96 | 10.6 | | 371 | 18.2 |
| 1997 | 1193 | 18.7 | | 224 | -18.5 | | 72 | -25.0 | | 296 | -20.2 |
| 1998 | 1065 | -10.7 | | 222 | -0.9 | | 84 | 16.7 | | 306 | 3.4 |
| 1999 | 1076 | 1.0 | | 193 | -13.1 | | 96 | 14.3 | | 289 | -5.8 |
| 2000 | 1055 | -2.4 | | 206 | 6.7 | | 88 | -8.3 | | 294 | 1.7 |

10 Year Change  218  26.0  47  29.6  25  39.7  72  33.0

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

Data Sources: Bachelors taken from A&S final graduation lists. Advanced degrees taken from Graduate Studies final graduation lists.
### TABLE 7

**DEGREES AWARDED BY DEPARTMENT***

<table>
<thead>
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<th></th>
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<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Am St</td>
<td>21</td>
<td>11</td>
<td>7</td>
<td>4</td>
<td>0</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>7</td>
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<td>52</td>
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<td>13</td>
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<td>6</td>
<td>10</td>
<td>9</td>
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<td>2</td>
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<td>196</td>
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<td>7</td>
<td>13</td>
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<td>Chem</td>
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<td>23</td>
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<td>5</td>
<td>9</td>
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<tr>
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28
1
Includes both Spanish and Romance Language Ph.D.s.

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

* Includes summer, fall and spring graduates.

Data Sources: Bachelors from A&S final graduation lists. Advanced degrees from Graduate Studies final graduation lists.
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**Number of Students Enrolled in Arts and Sciences**

- Semester I, 1999-00: 4019
- Semester II, 1999-00: 3957
TABLE 9

DEGREES GRANTED WITH HONORS*

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Initiated into Phi Beta Kappa: 101
Initiated into Phi Kappa Phi: 62

*Requirements completed Summer 1999; Semester I, 1999-00; Semester II, 1999-00
TABLE 10
NEW RESEARCH AND TRAINING GRANTS, 1999-00
(tenure track and research faculty)

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<th>Dollars</th>
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* LodeStar $12 million - one time allocation.
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**SUMMER SESSION DATA, 1999 AND 2000**

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<td><strong>TOTAL</strong></td>
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<td><strong>100.00</strong></td>
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<tr>
<td>Department</td>
<td>General/Departmental Allocations</td>
<td>Special Request Allocations</td>
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<tr>
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<tr>
<td>American Studies</td>
<td>$3,195.00</td>
<td>$1,277.00</td>
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<td>Anthropology</td>
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<td>Biology</td>
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<td>Chemistry</td>
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<td>Communication &amp; Journalism</td>
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<tr>
<td>Earth &amp; Planetary Sci</td>
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<tr>
<td>Economics</td>
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<td>132.00</td>
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<tr>
<td>English</td>
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<td>3,172.00</td>
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<tr>
<td>Foreign Lang &amp; Lit</td>
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<td>1,997.07</td>
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<tr>
<td>Geography</td>
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<td>History</td>
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<tr>
<td>Linguistics</td>
<td>5,325.00</td>
<td>1,269.00</td>
</tr>
<tr>
<td>Mathematics &amp; Statistics</td>
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<td>800.00</td>
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<tr>
<td>Philosophy</td>
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<td>1,749.00</td>
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<tr>
<td>Physics &amp; Astronomy</td>
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<td>1,228.00</td>
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<td>Political Science</td>
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<td>400.00</td>
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<td>Psychology</td>
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<tr>
<td>Sociology</td>
<td>9,585.00</td>
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<tr>
<td>Spanish &amp; Portuguese</td>
<td>7,455.00</td>
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<td>Speech &amp; Hearing Sciences</td>
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<td>554.00</td>
</tr>
<tr>
<td>Women Studies</td>
<td>1,750.00</td>
<td>0</td>
</tr>
</tbody>
</table>

TOTAL                              | $190,540.00                      | $21,060.09                 |
The faculty in American Studies continues to operate as a committee-of-the-whole in setting policy for its undergraduate and graduate program. Professor A. Gabriel Meléndez's appointment as Interim Chair (1998-1999) was made permanent by the unanimous vote of the faculty and with the approval of Michael Fischer, the Dean of Arts and Sciences. During the 1999-2000 year Professor Beth Bailey served as Graduate Director and Professor Ruth Salvaggio served as Undergraduate Director.

I. Significant Developments

Of consequence with respect to personnel in the department, Professor Eric Porter, a specialist in African-American critical studies, completed the first full year of his appointment in American Studies. Bazán Romero, hired under the Minority Doctoral Student Program, finished requirements for his dissertation in the PhD program at Bowling Green State University and, thus, met the pre-requisite for being reassigned from Lecturer II to a tenure-track position in American Studies. Romero will assume the rank of Assistant Professor I in the fall of 2000. This past year American Studies launched a Media Technology Initiative to meet a critical need for media assisted instruction in its graduate and undergraduate curriculum. Organized by Professor Bailey, this effort met with initial success. Multimedia, video, computer and sound amplification equipment was purchased and installed in Mitchell Hall 120, a room designated as the American Studies media room. Unfortunately, much of the equipment was lost to theft within weeks of its installation.

A. Faculty Contributions

During the period covered by this review, the faculty in American Studies maintained a high level of professional activity at the national and international level. The reputation of American Studies as a first-rate graduate and undergraduate program rests primarily on the
strengths and contributions of its faculty. Summaries of the major accomplishments of the faculty follow:

Professor Beth Bailey’s principal teaching assignment continues to be in Popular Culture. In the fall of 1999 she offered one of American Studies most popular undergraduate courses, “Television and American Culture.” In the spring of 2000 she taught Am. St. 545 “Popular Culture, Theory and Method.” This year Professor Bailey organized a new media initiative for American Studies which included supervision of a media lab and technical support for GAs and TAs. As the department’s Graduate Director she was responsible for the supervision of our student instructors.


In June, 1999 Professor Bailey delivered a series of 6 international talks at a like number of Japanese institutions, including the University of Tokyo. Also in 1999, Prof. Bailey was an invited presenter for a pre-convention workshop of the American Studies Association titled, “American Studies and the New Media,” at which time she described her use of multimedia teaching approaches for other educators.

Professor Bailey is active in professional organizations in History and American Studies. She is on the advisory committee for the Japanese Association of American Studies Project and serves on the Board of Editors for the *Pacific Historical Review* and *American Studies*. This year Professor Bailey served on several university-wide committees. In the late spring the department received word that Professor Bailey was being named a 1999-2000 Regents’ Lecturer in Arts and Sciences. Professor Bailey co-chaired the Cultural Studies Program and is a board member on the University Press Committee and for the Feminist Research Institute. She is also a representative to the University Senate from the College of Arts and Sciences.
Professor A. Gabriel Meléndez’s on-going teaching and research areas continue to be in Cultural Autobiography/Biography, Chicano/Latino Film Studies, Hispanic Southwest and Border Culture. He is co-editing *The Multicultural Southwest: A Contemporary Reader*, with Patricia Moore, Patrick Pynes and M. Jane Young, an anthology of readings being piloted in Am. St. 186, “Introduction to Southwest Studies.” Professor Meléndez and his co-editors negotiated a contract with the University of Arizona to publish *The Multicultural Southwest*.

Professor Meléndez chairs (3) dissertation committees, co-chairs a third doctoral committee and is a committee member on 5 other dissertation committees. In the fall of 1999, he offered a graduate seminar, Am. St. 550.001, “The Politics of Cultural Identity in Southwest.” In the spring of 2000 he offered Am. St. 508 “Cultural Autobiography.”

Professor Meléndez had two chapter-length articles accepted for publication in scholarly publications. In addition, he has two other book projects in progress. One, a compilation, translation and annotation of a 1911 biography of Colorado State Senator, Casimiro Barela, is being prepared for publication by the *Recovering the U.S. Literary Heritage Project* at the University of Houston, the other is a collection of popular political poetry in New Mexico he is co-editing with Philip Gonzales in the Sociology Department.

This year Professor Meléndez served on several university-wide committees including the Provost’s Committee on Southwest Studies, the Provost’s Committee on Hispanic Professional Hiring and he chaired the Curriculum Sub-Committee of the Office of Graduate Studies’ Senate Graduate Committee. He was re-appointed in 1999 to the faculty of the Bread Loaf School of English (Middlebury College) and taught at Bread Loaf’s New Mexico campus in the summer. In the spring of 2000 he was invited to join the editorial board of *The Recovering the U.S. Literary Heritage Project* at the University of Houston.

Professor Vera Norwood’s duties over the 1999-2000 academic year have been split between her appointment in American Studies and her post as Associate Dean in the
College of Arts and Sciences. She taught Am. St. 324/524 in the summer and Am. St. 285 in the fall. In the spring of 2000, Professor Norwood taught Am. St. 485, the capstone course for majors and minors in our program. Professor Norwood placed a chapter-length article, “Constructing Gender in Nature: Bird Society Through the Eyes of Florence Merriam Bailey and John Burroughs,” in Human Nature, an anthology forthcoming from the University of New Mexico Press. She has been solicited to provide a chapter and a forward for two forthcoming book projects. This past year she organized two sessions for the annual meeting of the European American Association for American Studies and she was invited to lecture on gender and nature at Northern Arizona University in December. She was co-principal investigator on a Southwest Regional Humanities Center proposal that went forth to the NEH from UNM in the summer of 1999. Professor Norwood continues to be active in all aspects of the graduate and undergraduate curriculum. She is also a key member of the Arts and Science faculty and assists in major initiatives and programs for the College.

In his first year at UNM, Professor Eric Porter began the work of building African-American intellectual and cultural history, black cultural studies and popular music studies into the American Studies curriculum at the graduate and undergraduate level. Two of the four courses he offered this past year (“Racial Formation,” 553 and “Politics of Popular Music,” 540) qualify as graduate seminars and have helped the department to meet a continuing need for seminars in the program. Professor Porter also developed and taught “Jazz in American Culture,” 343/543 and “African American Cultural Studies,” 357/557. Student interest in all Professor Porter’s offerings is high as reflected in solid enrollment numbers across the board. Professor Porter is scheduled to co-teach the proseminar for entering graduate students in the fall of 2000.

Professor Porter’s article, “‘Dizzy Atmosphere’: The Challenge of Bebop,” appeared in the winter issue of American Music, a peer-reviewed journal known in the field of American popular culture and music studies. This year Professor Porter has given three
scholarly presentations at regional and national meetings in his field, including a paper he
presented at the annual meeting of the American Studies Association in Quebec in October,
1999. Professor Porter’s two additional presentations this year were given in support of
the Cultural Studies Colloquium Series and the English Department’s “Age of Aquarius
Series,” two well-advertised lecture series on the UNM campus. Professor Porter
continues to make progress on his monograph, “Out of the Blue”: African American
Musicians and the Idea of Jazz, which is under review at the University of California
Press. During the past academic year he has also prepared a second article for publication
in a scholarly journal. Professor Porter extended the reach of his research by branching out
into a new area of scholarship. He is in the preliminary stages of research for a second
book on the subject of black popular science for which he received a RAC grant in October.

Professor Bazán Romero held the position of Lecturer II during the 1999-2000
academic year. In addition to completing his doctoral studies at Bowling Green State
University in the Program in America Culture, Professor Romero collaborated with Dr.
Professor Romero organized the Francisco “Kiko” Martinez Lecture for the University of
New Mexico Law School and a lecture by José Angel Gutiérrez for the Center for
Regional Studies Colloquia Series. Professor Romero served on the Graduate Fellowship
Committee for the Office of Graduate Studies.

Professor Ruth Salvaggio continues to teach and research in the area of Gender and
Cultural Studies. Professor Salvaggio was on sabbatical in the spring of 1999. Upon
returning to the classroom in the fall she offered “Language and Representation,” a
graduate seminar and Am. St. 310/510 “The Essay and Culture.” In the spring she taught a
graduate seminar “Gender and Aesthetics.” Professor Salvaggio chairs (7) PhD
dissertation committees and co-chairs (2) in American Studies.

Professor Salvaggio’s latest book, The Sounds of Feminist Theory, was published
by the State University of New York Press in 1999. She has several research essays under
review at appropriate scholarly publications. She continues her work on a series of new essays for a collection she has tentatively titled *Desert Gardens: On Beauty, Culture and Gender*.

Professor Salvaggio served as the department’s Undergraduate Advisor for the 1999-2000 year and will become Graduate Director in the fall. In addition, this past year she has served on tenure and promotion committees for General Honors and the Media Arts. She is a vital member of the Arts and Sciences faculty and contributes broadly to the mission and goals of American Studies and the University.

Professor James Treat co-taught American Studies 500, the pro-seminar in “American Culture Studies,” along with Beth Bailey in the fall of 1999. In addition, he offered Am. St. 514, “Religion in American Life” and Am. St. 353/564 “Native American Essayists.”

At the invitation of noted scholar, Vine Deloria, Professor Treat wrote the introduction to an edited volume of essays by Deloria. Treat’s introduction, “An American Critique of Religion,” appeared in *For This Land: Writings on Religion in American* published by Vine Deloria in 1999. In the fall of 1999, Professor Treat was invited to deliver a series of lectures in Taiwan. The series included talks to the Taiwan Institute of Theology and Culture, the Yu-Shan Theological College and Seminary and the Association of Christian Institutes for Social Concern in Asia.

Professor M. Jane Young is Regents’ Lecturer in American Studies. Her on-going teaching and research areas continue to be Gender Studies, Ethnoastronomy, American Foodways and Rituals/Festivals in the Southwest. In the fall of 1999, Prof. Young offered a graduate seminar, Am. St. 515.001 “Theories and Methods in Folklore,” and Am. St. 333/533.001 “Gender and Tradition.” In the spring of 2000 she offered “American Folklore and Folklife, an undergraduate course and Am. St. 600.001 “Research Methods”.

Professor Young continues to chair a large number of dissertations, fifteen alone in American Studies, and she is a member on 8 more dissertation committees.
Professor Young had three chapter-length articles accepted or soon-to-be-published in scholarly publications. She is co-editing *Songs From the Sky: Indigenous Astronomical and Cosmological Traditions of the World*, which is slated for publication at the University of Maryland's Center for Archaeoastronomy in 2000. She is also researching three additional book projects and is co-editing *The Multicultural Southwest: A Contemporary Reader* with A. Gabriel Meléndez, Patrick Pynes and Patricia Moore. In October, Professor Young delivered a talk at the Annual Meeting of the American Folklore Society entitled, "‘Puro Ollas’: Anglo-American Influence on the Potters of Mata Ortiz, Northern Mexico." Professor Young was active this year as a consultant to an NEH/NSF funded project to create a portable planetarium show about Native American Sky Traditions and has been a consulting editor to *Archaeoastronomy*, the journal of the Center for Archaeoastronomy and to the University of Illinois Press.

**B. Strength of the Curriculum**

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

<table>
<thead>
<tr>
<th></th>
<th>Fall, 1999</th>
<th>Spring, 2000</th>
<th>Summer, 2000</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Undergraduate courses offered:</td>
<td>26</td>
<td>24</td>
<td>4</td>
<td>54</td>
</tr>
<tr>
<td>Graduate courses offered</td>
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<td>10</td>
<td>0</td>
<td>22</td>
</tr>
<tr>
<td>Individual Problems*</td>
<td>14</td>
<td>22</td>
<td>11</td>
<td>47</td>
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<tr>
<td>Number of Students:</td>
<td>623</td>
<td>596</td>
<td>86</td>
<td>1,305</td>
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<tr>
<td>Student Credit Hours:</td>
<td>1,974</td>
<td>1,886</td>
<td>261</td>
<td>4,121</td>
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American Studies continues to enhance the visibility of its regular course offerings through cross-listing and other inter-departmental scheduling arrangements with other academic units on campus. In the 1999-2000 academic year American Studies maintained

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*Includes Undergraduate Problems, Individual Graduate Problems, Theses and Dissertation Hours.*
cooperative course scheduling arrangements with African-American Studies, Chicano Studies, Engineering, English, Music, Native American Studies, Political Science and Women Studies.

In the spring of 2000, the Office of the Registrar reported that American Studies had 43 officially declared undergraduate majors†. The number of graduate students in the program stood at 64. In May, American Studies graduated the following six doctoral students from the program: Kristan Cockerill, “Words and Deeds Assessing Print Media Language Influences on Public Perceptions and Water Management;” Sarah Kotchian, “Converting to Spiritual Profits: CEO Faith and Corporate Environmentalism Performance;” Cara Mariana, “Abortion Narratives: Mapping the Terrain of a Collective Story;” Patrick Pynes, “Erosion, Extraction, Reciprocity: An Ethno/Environmental History of the Navajo Nation’s Ponderosa Pine Forests;” and Yolanda Retter, “On the Side of the Angeles: Lesbian Activism in Los Angeles, 1970-1999.” In addition, four American Studies students completed their degree requirements for the Master’s and ten students graduated with the BA in American Studies.

American Studies continues to see growth in the number of undergraduate majors and minors, and, importantly, in an era of declining numbers of students seeking graduate admission, American Studies continues to attract a sizable pool of qualified applicants for the MA and PhD degrees. This year the department received 58 applications from students seeking admission to our graduate degree program. After rigorous examination 15 students were admitted to graduate study.

II. Significant Plans and Recommendations for the Future

The foremost and critical need in American Studies in the 2000-2001 academic year is to restore faculty size to 8 FTE. With the approval of the Dean of Arts and Sciences, the department will carry out a national search for a tenure-track faculty member to fill the appointment left vacant by Professor James Treat. We will seek to appoint a candidate with

† Source: Office of the Registrar Report for February 22, 2000. Minors are not included in the total above.
a specialty in Native American Studies as well as a wide-ranging interdisciplinary interests in comparative cultural studies at the Associate or Assistant level.

As a consequence of the Treat vacancy, American Studies worked with the chair of English, Scott Sanders during the summer of 2000 to conduct a “limited competitive search” for a Visiting Scholar in English and American Studies to teach the undergraduate and graduate courses left unstaffed with the departure of James Treat in American Studies and Louis Owens in English. This effort led to the appointment of Professor James Ruppert. A noted Native American scholar on leave from the University of Alaska at Fairbanks, Professor Ruppert will hold an appointment as Visiting Associate Professor in English and American Studies for the 2000-2001 academic year.

In the upcoming year American Studies will spend considerable energy addressing the problem of declining graduate admissions which is already full-blown in other graduate programs on campus. American Studies plans to increase its efforts to increase student applications to graduate study. Our efforts in this regard will be especially concerned with attracting and recruiting students who have been traditionally underrepresented in graduate study in Arts and Sciences. In the spring semester the department will also begin to plan and prepare for a review of its graduate program. This review is scheduled to be completed in the spring of 2002.

III. Appointments, Departures, etc.

James Treat (PhD), resigned from faculty, effective May 31, 2000
Bazán Romero (PhD), reassigned to Assistant Professor I, effective August 1, 2000
James Ruppert (PhD), appointed Visiting Associate Professor in English and American Studies, effective August 1, 2000.
The major development of the 1999-2000 academic year was the award of a $500,000 National Endowment for the Humanities Challenge Grant to establish and endow the Alfonso Ortiz Center for Intercultural Studies, a joint venture of the Department of Anthropology and the Maxwell Museum of Anthropology. Although the grant was $250,000 less than the $750,000 originally requested, the sum was the highest awarded nationally to the nine universities and institutions of higher education as challenges. It requires a match of $1.5 million to be raised between January 1, 2000, and January 1, 2003.

On March 3, 2000, there was an AnthroMax planning session and celebratory reception to assess progress since the January 1999 strategic planning and to generate ideas for the Ortiz Center. Like the January sessions, this one was facilitated by consultants Kate Hildebrand and Ric Richardson. Also in attendance was Lawrence Walsh, newly hired UNM Foundation development specialist whose duties included participation in Ortiz Center fund raising.
Until a director was hired, direction of the Ortiz Center was in the hands of a committee composed of Professors Marta Weigle, Mari Lyn Salvador and Garth Bawden, Walsh, UNM Foundation major gifts officer Leslie Elgood, and College of Arts and Sciences Constituency Development Officer Eric Sedillos. In April 2000 they interviewed Dr. Beverly R. Singer (Department of American Studies doctorate, University of New Mexico, 1996) for the position of director. After completing her Native American programs work at the American Museum of Natural History and teaching at the Parsons School of Design, New School, in New York City, Singer began work as Director of the Ortiz Center on May 31, 2000.

Hiring matters remain of grave concern. Because there were to be no new positions, no hiring request was submitted for 1999-2000. After the NEH Challenge Grant award, a special request for the Native American position approved on May 7, 1999, was submitted to Dean Fischer. The hiring plan submitted to the Dean for 2000-01 requested three positions: (1) Two positions of equal importance: an assistant or associate level Native American anthropologist in any (sub)field and an associate level biological anthropologist; and (2) a cultural resource management anthropologist, likely an archaeologist.

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

The *Graduate Committee* headed by Graduate Director Patricia Crown devoted considerable time to nominating candidates for extra-departmental awards, primarily through OGS, and selecting recipients for departmental awards. As part of committee/department concern for graduate student professionalization, Professor Crown inaugurated a valuable course entitled “Teaching Anthropology,” intended “to introduce Anthropology graduate students to three aspects of teaching: organizing a course, technology, and pedagogy.” Significant committee time was also devoted to guidelines, policies, and procedures for assigning the all-too-inadequate monies for graduate/teaching/research assistantships. The second outcomes assessment was completed at the end of Professor Crown’s commendable two-year term.

The *Undergraduate Committee* headed by Undergraduate Director Les Field continued to focus on the introductory department and subfield courses, especially Anth 101. Professor Robert Leonard pioneered the first UNM Internet class, Anth 101, and Professor Kim Hill used computer technology in his 101 class in Fall 1999. Most successful was the issue-oriented 101 first taught in Spring 2000 by Professor Field. It was organized around food and hunger, and several undergraduate students curated small exhibits on related topics for display in Maxwell Museum of Anthropology. The committee
developed a rotation for the department honors course. Outcomes assessment was once again completed. When he returns from his sabbatical in 2000-01, Professor Field will resume his notable work as Undergraduate Director.

The Instructional Resources Committee, ably chaired by Professor Robert Leonard, continued to coordinate, oversee, and plan all matters related to the instructional use of computers, media (audio-visual, CD-ROM, renewable and permanent laboratory supplies, etc.), and space. Among its notable accomplishments was the establishment of a multimedia station in Anthropology Patio 106, now available to faculty and students working on Internet instruction and other research and teaching projects.

The Advisory Council, the Department’s administrative committee, continued to consider personnel, policy, budget, and procedural matters. Refinements to the department’s merit/productivity point system and new criteria for tenure and promotion, post-tenure review, and promotion-in-research-title were considered and adopted by the faculty in Spring 2000. The Department Chair, in consultation with the Advisory Council and other senior faculty, finalized handbooks for annual reviews, mid-probationary reviews, tenure and promotion reviews, post-tenure reviews, and promotion-in-research-title reviews.

From the beginning of her tenure, new Department Administrator Susan Pinter has admirably succeeded in revamping department administration and refurbishing space throughout the facilities, notably in the main office and the Annex. She and the Chair worked throughout the Fall and early Spring semesters on new procedures and a new publisher for the Journal of Anthropological Research, which is now fully under the Department’s aegis rather than the College office’s.

At noon on May 13, 2000, the Department of Anthropology convened its second annual convocation in Anthropology 163 with the subsequent reception held in Maxwell Museum of Anthropology. Thanks to tremendous work on the part of the staff and good faculty support, this was again a successful and memorable occasion.

The 2000 Summer Field School in Archaeological Research was headed by Associate Professor Ann Ramenofsky and headquartered at the James Young Ranch, UNM’s research property between Bandelier National Monument and the Pueblo of Cochiti. Its excavation site was at San Marcos Pueblo on the western edge of the Galisteo Basin and purportedly the largest pueblo in the Southwest. The 33rd Annual Bioarchaeological Field School, the fifth under the aegis of UNM, was led by Professor Jane Buikstra at the Center for American Archeology, Kampsveile, Illinois, in the lower Illinois River Valley.
Assistant Professor Les Field received a Gunter Starkey Teaching Award for excellence from the College of Arts and Sciences. Two graduate students received university awards: an Office of Graduate Studies Graduate Dean’s Dissertation Fellowship to Bobbi Hohmann and a Regents’ Endowed Fellowship to Joseph Kinsella.

Significant Plans and Recommendations for the Near Future

The Department remains focused on hiring needs, especially an Alfonso Ortiz Native American position; better diversity among faculty and students; the integration and articulation of the four subfields; the development of undergraduate instruction, especially at the introductory level; facilitating laboratory instruction; and the summer field schools. Strong support for the Ortiz Center will continue.

Appointments

• Faculty

Assistant Professor Osbjorn Magnus Pearson, a biological anthropologist with a State University of New York, Stony Brook Ph.D., joined the faculty in August 1999.

• Staff

Susan Pinter was hired as Department Administrator on July 19, 1999.


Separations

• Faculty

None.

• Staff

None.
Sabbatical and Other Leaves

Associate Professors Ana Magdalena Hurtado and Carole Nagengast were on sabbatical leave for the 1999-2000 academic year. Assistant Professor Suzanne Oakdale was on maternity leave during the Fall 1999 semester. Assistant Professor Joseph Powell was on medical leave from the latter part of the Fall 1999 through the Spring 2000 semesters. Professor Robert Santley was on sabbatical leave during the Spring 2000 semester. Professor Hillard Kaplan was on leave without pay during the Spring 2000 semester.

Publications

There were neither Department nor staff publications during this time, but the faculty continued its good productivity. In the 1999 reporting period, eighteen different tenure-stream faculty members (among the twenty-five of twenty-eight returning biographical supplements) produced two books, one edited volume, one videodocumentary, and forty-five book chapters/journal articles.

The 1999 books, edited volumes, and videodocumentary follow:


Lawrence G. Straus, J. M. Léotard, and M. Otte, *L’Abri du Pape*, Université de Liège, Belgium


Sylvia Rodríguez, writer and senior producer, "‘This Town is Not for Sale!’: The 1994 Santa Fe Mayoral Election," 55-minute videodocumentary produced by KNME-TV as part of the Colores series

Outside Professional Activities

During the 1999 reporting period, among the twenty-five (of twenty-eight) reporting tenure-stream faculty members, fourteen gave one or more meeting papers and/or posters, two participated in one or more international symposia, and eight gave one or more invited lectures. Professor Jane B. Lancaster organized a symposium on “Life
History Theory, Parental Investment, and Child Development” for the Society for Cross-Cultural Research and one on “Evolutionary and Cross-Cultural Perspectives on Male Parental Investment” for the Society for Research in Child Development. Associate Professor Sylvia Rodríguez organized and served as discussant at two sessions, “Reconceptualizing Ethnic Relations in the Southwest” and “Tourism and Emerging Geographies of Identity,” for the American Ethnological Society. Professor Mari Lyn Salvador chaired the program for the Council of Museum Anthropology at the American Anthropological Association. Professor Lawrence Straus organized and chaired a symposium on “Out of Africa in the Pleistocene” at the XV INQUA (International Union for Quaternary Research) Congress in Durban, South Africa. No staff members were professionally active outside the University.

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

Bawden: Vice President for Programs, G. L. Bruno (Charitable) Foundation, Fresno, California

Buikstra: Member, Board of Directors, Ethics Committee, Committee to Review Application Standards, American Board of Forensic Anthropologists; member, Reorganization Committee, Paleopathology Association; President of Board of Directors and Acting Executive Director, Center for American Archeology; member, Laboratory Committee of the Managing Committee, Wiener Laboratory of the American School of Classical Studies, Athens; member, chair of Human Sciences Committee and member of Integrated Review Committee, United States Museum of Natural History

Crown: Selection Committee for the Excellence in Ceramic Research Award, Society for American Archaeology; chair-elect, Archaeology Division, American Anthropological Association; member, Archaeology Panel, National Endowment for the Humanities

Dinwoodie: Member, Nominating Committee, Society for Linguistic Anthropology

Field: Consultant for Esselen Nation of Costanoan Indians

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

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

Kaplan: Consultant for Ministry of Education, Western Cape Province, South Africa; panelist, Scientific Review Committee, National Institute on Aging; panelist, Scientific Review Committee, National Institute on Child Health and Human Development

Lamphere: President, American Anthropological Association

Lancaster: Board of Directors, Society for the Study of Social Biology; member, Board of Directors, Publications Committee, Human Behavior and Evolution Society

-6-
Ramenofsky: Member, Cultural Properties Review Board, Office of Cultural Affairs, State of New Mexico

Rodríguez: Consultant, Taos Valley Acequia Association; member, Advisory Board, “A Qualitative Study of the Influence of Religious and Cultural Traditions of Hispanic Communities in Northern New Mexico and Southern Colorado on Decisions about Medical Genetics Services and Related Ethical Concerns,” Regis University

Salvador: Vice President, Council on Museum Anthropology

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

**Outside Sponsored Research**

Total active awards for Anthropology, 1999-2000 (14): $676,309

Buikstra, Jane, and Gordon Rakita, National Science Foundation: Doctoral Dissertation Improvement, “Social Complexity, Organization, and Mortuary Ritual A, the Prehispanic Site of Paquime, Chihuahua, Mexico,” $8,022

Crown, Patricia, National Endowment for the Humanities: “Becoming a Potter: Situated Learning in the Prehistoric American Southwest,” $130,000

Crown, Patricia, and Marit Munson, National Science Foundation: Doctoral Dissertation Improvement, “Prehistoric Imagery and Ethnicity on the Pajarito Plateau, New Mexico,” $11,998


Kaplan, Hillard, National Institute on Aging: “Evolutionary Approaches to the Biodemography of Aging,” $174,343
Lamphere, Louise, and Tresa Thomas, Soros Foundation: Doctoral Dissertation Improvement, “The Impacts of Drugs and Militarization on Bisbee, Arizona,” $22,500

Leonard, Robert, New Mexico Cultural Affairs Office: “Paleoenvironmental and Remote Sensing of Galeana, Chihuahua, Mexico,” $40,000

Powell, Joseph, and Anne Weaver, Leakey (L.S.B.) Foundation: Doctoral Dissertation Improvement, “Cerebellar Volume in Pleistocene and Modern Humans,” $10,000

Ramenofsky, Ann, Valley Improvement Association: “Comanche Springs Archaeological Project,” $21,400

Rapaport, Lisa, National Institute of Mental Health: “Development of Golden Lion Tamarin Foraging Behavior,” $331,029

Stone, Anne, National Science Foundation: “The Evolutionary History of the Genus Pan: A Molecular Investigation Using the Y Chromosome,” $15,242

Straus, Lawrence, National Science Foundation: “Tardiglacial Human Adaptations in the Cantabrian Cordillera, Spain,” $100,284

Straus, Lawrence, National Science Foundation: “Tardiglacial Human Adaptations in the Cantabrian Cordillera, Spain,” $10,500

Attachments

• Public Lectures

*Journal of Anthropological Research* Distinguished Lecture Series:

William Douglass (University of Nevada at Reno), “In Search of Juan de Oñate: Confessions of a Crypto Essentialist,” November 11, 1999


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

Michael Gurven, “From Subsistence to Sociality: The Role of Food Sharing among Hunter-Gatherers,” November 22, 1999
Ruth E. Kennedy Memorial Lecture (Doctoral student):


New Mexico Folklore Scholar in Anthropology Lecture (Graduate student):


• Conferences

Third Annual Graduate Student Symposium, sponsored by the Anthropology Graduate Student Union, UNM Student Union Building, March 3-4, 2000:

Keynote Address: Raymond Hames, “Sibling Set Characteristics and Fertility among a Traditional Society”


Posters: Robert Walker, Charles Egeland, Bettina Behrens

• Bachelor of Arts Degrees Conferred

Forty-three B.A. degrees were awarded in 1999-00. (Those graduating with honors are indicated by an asterisk.)


• Bachelor of Science Degrees Conferred

Twenty-five B.S. degrees were awarded in 1999-00. (Those graduating with honors are indicated by an asterisk.)

Hoskie, Dave Justice, Erin Knox, George Krueger, Stephanie Lopez, Lisa Markworth, Dorothy Moore, Jo Mounger, Wendy Myers, Eric Nocerino, Debra Reschke, Damion Terrell, *Jessica Thompson, Lindsay Zanno

**Master of Arts Degrees Conferred**

Sixteen M.A. degrees were awarded in 1999-00.


**Master of Science Degrees Conferred**

One M.S. degree (with distinction) was awarded in 1999-00.

*Tanya M. Mueller

**Doctor of Philosophy Degrees Conferred**

Six Ph.D. degrees were awarded in 1999-00. (The one graduating with distinction is indicated by an asterisk.)

Aaron M. Allen, “Making Whiteness: Contested White Hegemony in Late Twentieth-Century Madison, Wisconsin” (Sylvia Rodríguez, Chair)

Thomas F. Carter, “Playing Hardball: Constructions of Cuban Identity” (Karl Schwerin, Chair)


Wesley A. Niewoehner, “The Functional Anatomy of Late Pleistocene and Recent Human Carpometacarpal and Metacarpophalangeal Articulations” (Joseph Powell and Erik Trinkaus, Co-Chairs)

*Ariane Oberling Pinson, “Foraging in Uncertain Times: The Effects of Risk on Subsistence Behavior during the Pleistocene-Holocene Transition in the Oregon Basin” (Ann Ramenofsky, Chair)

Vincent H. Stefan, “Cranio­metric Variation and Biological Affinity of the Prehistoric Rapanui (Easter Islanders): Their Origin, Evolution, and Place in Polynesian Prehistory” (Joseph Powell, Chair)
Letters of Academic Title

Affiliated Faculty

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

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

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

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

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

David E. Stuart, Part-time Professor of Anthropology; Associate Provost for Academic Affairs

Adjunct Faculty

Adjunct Professors: Ines Arenas de Hurtado, Erik Trinkaus

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


Adjunct Research Associate: Lisa W. Huckell
In calendar year 1999 JAR received and reviewed 60 manuscripts, (and 42 in 2000 just through June).

We have a total of 1,213 subscribers,

Subscribers are in all 50 states, Washington DC, Puerto Rico, Guam, plus 42 foreign countries, (mostly libraries).


Volume 56, no 1 and no. 2 are already published for 2000, with no. 3 being prepared for printer in summer. No. 4 is currently being filled. We are ahead of schedule, despite complete change in composition, printing, and distribution arrangements, now handled outside Albuquerque.

Editorial Board Members

Jane E. Buikstra, Louise Lamphere, Carole Nagengast, Robert Santley

Associate Editors:

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

Book Review Editors:

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

Copy Editor: Patricia L. Nietfeld

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Business Manager: Margaret Colclough
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Outsourcing of composition, printing, binding, and distribution is saving the Journal of Anthropological Research c. 40% vis a vis UNM Printing Services.

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

The Journal of Anthropological Research is the oldest (and one of very few) remaining University-published serial journals of anthropology in the USA. It is independent, not owned by a for-profit company nor by a professional society, and is one of very few journals in the world that published in all areas of anthropology. It has one of the largest circulation bases of any anthropological journal not owned by a professional society.

Subscription rates remain unchanged for 2000.

The budget from Arts and Science for 1999-2000 was $53,739.00, we have collected, $56,493.11 and have returned, $2,754.11 to A&S, reprints, $6,227.86, single-issues, $992.75, subscriptions, $49,272.50.

Lawrence G. Straus, Editor
MAXWELL MUSEUM OF ANTHROPOLOGY

ANNUAL REPORT
[July 1st 1999-June 30th 2000]

Garth Bawden
Director
A. GENERAL

In terms of major initiatives the past year has experienced one of its most active years in recent times. On the most important infra-structural level, we completed the re-definition and consolidation of the museum’s overall administrative structure, a process vital for effective operation and growth in the specific museum departments and programs. A number of initiatives that will have long-term effect on the ability of the museum to fulfill its mission of education and public service accompanied this vital consolidation at the center. First, the decade-long series of contributions of Dr. Frank Hibben to the Maxwell (already including many important research collection and archives, a moderate research endowment, and the gift of his home for future museum educational activities) moved a stage further with his gift of funds to build a new archaeological storage and research center adjacent to the existing museum. Second, late in 1999 the Maxwell Museum of Anthropology, in partnership with its sister department of Anthropology, was awarded a major NEH Challenge Grant to create a center for applied anthropology and research, the Alfonso Ortiz Center for Intercultural Studies. This center will stimulate the development of partnerships between community cultural specialists and university professionals to create practical applications for anthropology in the greater community, an initiative that has been recognized by the American Anthropology Association as a top priority for anthropology in this century. Third, the organizational restructure and programmatic revitalization of the newly acquired Office of Contract Archaeology (merged with the Maxwell Museum in February 1999) continued with growing success. The department has made great strides towards the twin goals set forth by the Dean of the College of Arts and Sciences at the outset of the new arrangement - financial viability and improved educational quality. Fourth, the re-organization of the Maxwell’s Laboratory of Human Osteology, necessitated by the illness of its Curator, Joseph Powell, resulted in greater integration of the program with the mission of its partner the State Office of the Medical Investigator (OMI), an infusion of financial support from OMI, and expansion of forensic and educational activity. Finally, the long period of reorganization of the Museum Store was largely completed, resulting in a higher degree of managerial efficiency and financial health than has been the case for many years. The following sections describe these moves in somewhat greater detail and summarize the rest of the museum’s progress during the past year.

B. HIBBEN CENTER

In mid 1999 Dr. Frank Hibben, Professor Emeritus and founding Director of the Maxwell Museum of Anthropology, pledged a sum of $3-4,000,000 to construct a center for the storage of the Maxwell Museum’s archaeological storage and for the teaching of archaeology to UNM anthropology students. Following approval by the Regents an architect - Patrick McClernon (Albuquerque) - was selected in late 1999 and architectural planning commenced. At this juncture the design phase is complete and construction drawings are being developed. The actual construction phase is scheduled to begin this coming winter. The center will hold all storage, archival, and photographic facilities required for an archaeological facility together with teaching laboratories, graduate student space, and a large auditorium for class teaching and public programs. It will be connected to the existing museum by a sub-surface passageway. In addition, the Hibben Trust, the agency created to manage the benefactor’s planned endowment
bequest, will have its executive office in the new building. The Center will transform our ability
to care for our extensive and growing archaeological collections and to make them accessible for
research and teaching.

C. THE ORTIZ CENTER FOR INTERCULTURAL STUDY

The Maxwell Museum of Anthropology and Department of Anthropology jointly
submitted a Challenge Grant proposal for three million dollars to the National Endowment for
the Humanities in early 1999. This grant was awarded in late 1999. The funds generated from
this grant will provide for creation of an innovative center for anthropological research and its
related programs. The Center is the first of its kind in the United States. Named after Dr.
Alfonso Ortiz, long-term member of the UNM anthropology faculty and native of San Juan
Pueblo, the center will provide support for professional UNM museum and department
anthropologists to develop partnerships with community cultural leaders. Resulting programs
will be based either at UNM or in local centers around the world as appropriate. These
partnerships will generate valuable information on cultural and social issues and point the way to
community/university programs that will be of practical benefit to the wider community. The
Ortiz Center has the unprecedented potential to be an international leader in applied
anthropology, responding to the growing social issues of the 21st century and exhortations of
national professional anthropological organizations for greater social participation between the
academy and its public constituency.

D. OFFICE OF CONTRACT ARCHAEOLOGY

The efforts, commenced in early 1999, to integrate the UNM Office of Contract
Archaeology into the structure and educational mission of the Maxwell Museum of
Anthropology, continued through the year with significant success. In addition to expanding
employment and training opportunities for UNM students, we have developed two major
initiatives with long-term implications in the educational area. First, the Museum created a
partnership with the Albuquerque Academy to conduct an archaeological field excavation at a
Bernalillo archaic residential site as part of the Academy’s summer curriculum. Over 20 middle
and high school students took this course which was supervised by the OCA director and
anthropology senior graduate student, David Kilby, and used OCA and museum laboratory
facilities and teaching galleries. In addition planning is now under way in concert with the
Department of Anthropology to create an internship in Public Archaeology to train an
appropriate graduate student in the practice and legal aspects of the sub-discipline. Thus there
have been significant moves to integrate OCA more fully into both public and university
educational missions of UNM.

On the organizational and business levels the OCA administrative and financial
organizational structure is now fully integrated with the central Maxwell Museum
administration. The museum accountant oversees financial procedures while the Museum
Director oversees the overall development of the department. The impending retirement of the
OCA director has brought Dr. Richard Chapman to the head of the department with
accompanying major improvement in leadership and programmatic efficiency. The result of
these moves has been steady improvement in the department's ability to gain grants, heightened staff morale, and greatly improved administrative efficiency.

E. LABORATORY OF HUMAN OSTEOMETRY

In December Dr. Joseph Powell, Curator of Biological Anthropology, was forced to take indefinite leave of absence from his museum duties because of the need to treat a brain tumor. Deliberations between the Museum Director, the Chair of the Department of Anthropology and the Dean of the College of Arts and Sciences, resulted in the museum obtaining permission to hire a temporary (one year renewable) full-time Research Assistant Professor to assume the directorship of the museum’s Laboratory of Human Osteology and to direct the Forensic Anthropology program, operated in conjunction with the state Office of the Medical Investigator (OMI). During the time between Dr. Powell leaving and the successful hire of a laboratory director in June 2000 the Museum Director assumed direct management responsibilities for the department. During this time he conducted conversations with Dr. Ross Zumwalt, Director of the OMI with the intention of strengthening the collaborative forensic program. This positive process resulted in the OMI contributing to the cost of the program, supporting the cost of sending forensic anthropology students to professional meetings, and including them in the formal case reviews and teaching sessions of the OMI in the UNM Medical School. In return the new laboratory director is committed to train OMI forensic fellows and to expand the laboratory’s case recovery and identification coverage. In June 2000 Dr. Debra Komar a forensic anthropologist with field experience in Bosnia and Kosovo arrived at UNM to take over the laboratory directorship. She will also occasionally teach, furthering the close collaboration the teaching department that marks the history of this museum division. In general the potential of the museum’s Laboratory of Human Osteology to instruct UNM students in classroom and applied forensic anthropology had been significantly increased by these moves.

F. MAXWELL MUSEUM STORE

The 4-year period of reorganization of the museum store was essentially completed during the past year. The final phase of re-structure included the elimination of all regular staff positions in the store together with the major salary pressures that they represented. The chief museum administrative officer, Ms. Peggy Esquibel, and the Museum Accountant, Ms. Judith Davis have assumed managerial and financial duties, helped by a group of part-time student employees. Largely due to the efforts of these two administrative officers the museum store’s inventory content and control procedures and its financial controls have been completely changed to ensure a positive financial income while at the same time bringing the department into greater compliance with its public educational mission. The current year will show the benefits of this long and challenging process of restructure.

G. OTHER DEVELOPMENTS

1. Hires: The Maxwell has had singular success in making three excellent senior personnel hires during the past year. In June Dr. Beverly Singer, a social anthropologist with PhD degree from UNM, considerable experience working in New York City at the American Museum of Natural
History and the National Museum of the American Indian, arrived to direct the Ortiz Center of Intercultural Study. She is an internationally acknowledged specialist in ethnographic video and public museum education. In July Dr. Michael Lewis, an archaeologist with over 2 decades of field and museum experience assumed his position as archaeological curator. He has conducted extensive field research in the Arctic and Southwest and is eminently qualified to manage the Maxwell's collections during a period of planning preparatory to their move to the new Hibben Center. Finally, also in July, Dr. Debra Komar, began her tenure as Research Assistant Professor in charge of the Maxwell's Laboratory of Human Osteology and its Forensic Anthropology program. She holds the PhD degree from the University of Toronto and, prior to coming to UNM, has worked in the former Yugoslavia on war victim identification as well as on medico-legal cases in Canada. While the latter two scholars did not officially take on their duties until the beginning of the 2000-2001 year, their hires were completed well before the end of the reporting year, thus they are included in this section. In aggregate these three individuals will further enhance the Maxwell Museum's reputation as a leader in museum anthropological research and education.

2. Collections Organization and Data Base: We are in the process of creating a new computer database for the museum’s collections. This project, partially funded by the US Army Corps of Engineers and the Maxwell Museum Association, will replace our ARGUS program with a more effective, more cost efficient system that is more easily maintained at UNM. The work is especially important given the upcoming transfer of the archaeology collections to the new Hibben Center and the need to have a complete inventory catalogue to use in this move. In addition Mr. Alan Shalette, head of the Maxwell’s Clark Field Library, working with Dr. Lewis, Curator of Archaeology is preparing an inventory of the paper archives preparatory to the impending move. These curatorial projects should be completed in the current year.

3. While the regular gallery display program continues, one exhibit deserves special mention. This is the exhibit of traditional New Mexican woodcarving Cuando Hablan los Santos, which has been traveling for several years. The exhibit was transported to Madrid, Spain early this year where it will be displayed at the Museo de America. Museum staff worked with the office of the US Ambassador to Spain, Eduardo Romero, to conclude the agreement that sent the collection to Spain where it will at the same time enhance the reputation of the Maxwell and inform the Spanish public of the achievements of New Mexican traditional hispanic artists.

H. CHIEF FUTURE PLANS

1. Complete plans for building the Hibben Center and commence construction. This involves completion of the database project, creating a complete inventory of all collections to be moved, assessing and allowing for impact on the existing building and establishing a staging area for the affected collections in the existing space.

2. Plan and conduct major fund-raising for the matching portion of the NEH Grant that is supporting the Ortiz Center. This will be achieved in conjunction with an outside consultant and the UNM Foundation. Also prioritize and develop the initial programs.
3. Complete Office of Contract Archaeology restructure in collaboration with the College of Arts and Sciences and Human Resources. Continue to develop the educational and financial health of the department. Explore the possibility of expanding the pilot summer school program next year to other public and/or private schools.

4. Create a high quality web site to replace the existing site.

5. Develop an internal program to support the generation of grant proposals by museum personnel.

I. INSTRUCTION AND SPONSORED RESEARCH

Instruction

1. Anthropology 324. South American Archaeology (Bawden).


3. Anthropology 482/582. Geoarchaeology (Huckell).


5. Anthropology 101. Introduction to Anthropology (Salvador and Field).

6. Anthropology 436. Expressive Culture (Salvador).

7. Museum personnel are cumulatively Chairing 12 Dissertation Committees and acting as committee members on 25 others.

Sponsored Research and Education

Archaeology

1. Geo-archaeological investigation and field research at the Rio Ranch Folsom Site. Funding from the National Geographic Society 1999-2000: $12,000 (Huckell)


5. The Ilo Project. Ongoing multi-institution archaeological project in southern Peru funded by Southern Peru Copper Corporation and Programa Contisuyu. Funds - $460,000 to date (Bawden).


**Office of Contract Archaeology**

1. PATHNET Fibre Optic Line. Burns and McDonnell: $69,000.

2. Camel Tracks Survey. New Mexico National Guard: $202,000.


4. NM Route 44 Analysis/Reporting. Museum of New Mexico: $56,000.

5. New Mexico Route 22 Analysis/Reporting Museum of New Mexico: $50,000

6. New Mexico Route 117 Analysis/Reporting. Museum of New Mexico: $12,000

7. Isleta Irrigation Drain Study. USACE: $8,000

8. La Cienega Dam. USACE: $66,000.

9. FEMA Survey, Los Alamos Fire. USACE: $10,000.

10. Remediation of Site Damage at Laguna. US West: $20,000.

11. Emergency Data Recovery, Trinidad Lake. USACE: $4,000.

12. FEMA Monitoring, Los Alamos Fire. USACE: $3,000.

13. Supplemental FEMA Monitoring. USACE: $9,000.

14. Abiquiu Campground Expansion. USACE: $9,000

15. US Route 550 Supplemental Reporting. NM State Highway and Transportation Dept: $10,000.


18. US Route 380 Analysis/Reporting. NM State Highway and Transportation Dept: $88,000.

19. NM Route 165 Right-of-Way Survey. Blue Earth Ecological: $10,000.

20. Trinidad Lake Excavation/Analysis. USACE: $75,000.

Ethnology
1. Two archival Grants to Prepare the John Collier Ethnological Photo Collections for transfer to the Maxwell Museum. Wenner Gren Foundation 1999-2001: $25,000 (Collier, Bawden)


Human Osteology
1. Biological Variation in Early Human Remains from South America. Fundacao de Amparo a Perquisa do Estado de Sao Paulo, Brazil 1999-2000: $4,000 (Powell)

Other Sponsored Programs
1. National Endowment for the Humanities Challenge Grant to Establish the Alfonso Ortiz Center for Intercultural Study in Maxwell Museum of Anthropology and Department of Anthropology 1999-2002: $750,000 (Bawden and Weigle)


3. Education Division APS K-12 Classroom Teaching Program. APS and Maxwell Museum Association 2000: $5,000 (Cyman).

Public Educational Programs

Exhibits

2. Fiction Writers of New Mexico (Zimmerman Library). September 1999


6. Cuando Hablan los Santos (Museo de America, Madrid, Spain). June 2000

Public Education
1. Over 350 classes in the Albuquerque Public School System.

2. Elderhostel teaching program in Maxwell Galleries.

3. Archaeology Fair organized by the New Mexico Office of Cultural Affairs. Albuquerque.

Public Programs


3. New Ethnic Luncheon Program.


J. PERSONNEL APPOINTMENTS AND SEPARATIONS

Appointments
Carol Anne Brannon: Administrative Assistant II. 7.31.1999
Michael Lewis: Curator III. (7.17.2000)
Debra Komar: Research Assistant Professor (8.01.2000)

Separations
Patricia Berry: Sales Representative 08.13.1999
Brenda Dorr: Curator III 08.16.1999
Amy Jameson: Store Manager 12.10.1999
Joseph Powell (leave): Curator of Human Osteology 11.01.1999
Marian Rodee: Curator III 06.01.2000
K. PERSONNEL PROFESSIONAL ACTIVITIES AND PUBLICATIONS

Individual

G. Bawden (Director and Professor)


4. Co-Director of the Ortiz Center for Intercultural Studies, University of New Mexico. October 1999.

5. Vice-President for Research Programs. The Bruno Charitable Foundation, Fresno California

J. M. Campbell (Research Professor)
1. Telecom Teacher for Point Barrow College, Alaska. Developed an innovative distance teaching college course on Arctic Anthropology, Spring 1999.

A. Carson (Research Assistant in Human Osteology)


R. Chapman (Acting Director, Office of Contract Archaeology & Research Associate Professor)
1. Prehistoric and Historic Use of Fort Stanton: The Sierra Blanca Airport Archaeological project. Office of Contract Archaeology, UNM.


3. Archaeological Survey of a Materials Storage Area in Cuba, New Mexico. Office of Contract Archaeology, UNM.
T. Cyman (Education Curator)
1. Attended American Association Museum Education Meetings, Bozeman, Montana.

2. Participant in Interpretive Planning Session hosted by the National Park Service to explore educational programs relating to the Petroglyph National Monument.

W. Doleman (Senior Archaeologist, Office of Contract Archaeology)
1. Treasurer, New Mexico Archaeological Council (2-year term).


J. Elyea (Senior Archaeologist, Office of Contract Archaeology)
1. Black Mountain: A Class III Inventory of the NMARNG Training and Rifle Range area, Luna County, New Mexico. Office of Contract Archaeology, UNM.

2. Good Roswell Hunting: A Class III Inventory of the NMARNG WETS Area, Chaves County, New Mexico. Office of Contract Archaeology, UNM.

P. Esquibel (Museum Administrator)

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

2. Good Roswell Hunting: A Class III Inventory of the NMARNG WETS Area, Chaves County, New Mexico. Office of Contract Archaeology, UNM.

P.D.Harrison (Research Professor)
1. The Lords of Tikal: Rulers of an Ancient Maya City. Book Published by Thames and Hudson, London.

2. Executive Director of the Ahua Foundation, Albuquerque (Private Foundation for the Support of Maya Archaeology).

B. Huckell (Senior Research Coordinator and Research Associate Professor)
1. Promoted to Research Associate Professor, December 1999.

   The Boatyard Site
   Introduction to the Sycamore Creek Section.
   The Sliver Site
   The Middle-of-the-Road Site
   Secondary and Tertiary Sites in the Sycamore Creek Section
   Introduction to the Slate Creek Section
   Secondary Sites in the Slate Creek Section


**K. Liden (Public Program Coordinator)**
1. Board Member of the Heritage Council (City-sponsored group charged with developing programs celebrating Albuquerque multicultural heritage).

2. Board Member of Scandinavian Club of Albuquerque.

**W. Potter (Osteological Assistant)**
1. *Evidence of Degenerative Disc Disease in Meroitic Nubians from Semna, South Sudan.* Poster presented at the 69th Annual Meeting of the American Association of Physical Anthropologists.

**J. Powell (Curator of Biological Anthropology and Assistant Professor).**
1. Consultant for the Department of the Interior on the examination and analysis of the Kennewick Skeleton.


**M. Rhoads (Osteological Assistant)**

**M. L. Salvador (Chief Curator and Professor)**
1. Curator of exhibit *Cuando Hablan los Santos,* Museo de America, Madrid, Spain.

2. Vice-President, Museum Anthropology Section, American Anthropological Association.

**J. Schutt (Senior Archaeologist, Office of Contract Archaeology)**
1. *Cultural Resources Inventory of Placitas Open Space: From the Northern Boundary to the MAPCO Pipeline.* Report submitted to the Archaeological Historical Research Institute.


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2. Vice-President, Museum Anthropology Section, American Anthropological Association.

J. Schutt (Senior Archaeologist, Office of Contract Archaeology)
1. Cultural Resources Inventory of Placitas Open Space: From the Northern Boundary to the MAPCO Pipeline. Report submitted to the Archaeological Historical Research Institute.


V. Steffan (Research Assistant in Human Osteology)
Office of Contract Archaeology Published Reports

1. K.Brown

2. J.B.Vierra, J.R.Chapman and J Piper

3. J. Elyea and P.Gerow

4. P. Gerow and J. Elyea

5. T.NcEnany

6. J. Elyea

7. W.Doleman

8. T.NcEnany and R. Chapman

9. J.Schutt

10. T.NcEnany
ANNUAL REPORT
of the
DEPARTMENT of BIOLOGY

FY 1999–00
Annual Report
by:

Kathryn G. Vogel, Chair
Department of Biology
The University of New Mexico
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I. Graduation Survey, Retention Survey

J. All Course Offerings, Biology, FY 1999-00

K. Departmental Seminar Series

L. Graduate Students and Faculty Advisors, Biology, FY 1999-00

M. Basement Remodel Proposal

N. Nihth Annual Research Day Program (in dept. copy only)

O. Departmental Graduation Program, May 2000 (in dept. copy only)

P. Department Photo and BSNM Newsletter (in dept. copy only)
STUDENTS

Undergraduate Program

The undergraduate program in the Department of Biology remains attractive to UNM students. In the 1999–00 academic year, the department generated 21,882 student credit hours, of which about 94% were in undergraduate courses. As shown on Table 1, the total student credit hours (SCH) in Biology has been remarkably steady for twenty years. Table 2 points out that these hours are spread quite equally between fall and spring semesters. The total number of undergraduate SCH in the College of Arts and Sciences in Fall 1999 was 135,657. Biology contributed 7.4% of these SCH.

The number of students who declared a major in Biology grew substantially a few years ago and is now holding steady (see Table 3). In Fall 1999, there were 1,120 undergraduate students who declared a major in Biology. The number of students graduating with bachelor’s degrees in Biology continues high (Table 4), having risen more than 2.5-fold in the last 20 years. During the 1999/2000 academic year, there were 254 B.S. and B.A. degrees awarded. In an attempt to predict future enrollment pressures, we are following the number of students taking the core courses required of all majors (Table 5). There were 415 students enrolled in Genetics (Biol. 221) during the 99/00 year. The number of students in this fourth course of our core curriculum should be a good indicator of the number of students planning to complete a major in biology over the next 2–4 years. This figure suggests that strong demand for upper-division courses will continue over the next several years.

Our academic assessment module consists of an exam given to students at the end of Biol. 221. It consists of 34 questions that test a broad range of content from all four of the core courses. In 1999–2000, this test was taken by 257 students. The average score was 19.5, with range from 9–31 (maximum possible = 34). This is the fourth year that this same exam has been administered. The average score rose significantly during the previous three years; this year was exactly the same as the year before. A more complete analysis of the testing this year has not been carried out yet.

Table 5 shows the number of students enrolled in the four core courses that each Biology major is required to complete. We urge students to take Biol. 121 and 122 in the first year and Biol. 219 and 221 the second year. For the current reporting period, 1,646 students were enrolled in the first two courses of our core series: 1,075 in Biol. 121 and 571 in Biol. 122. During the same period, 866 students were enrolled in the third and fourth courses of the series: 451 in 219 (Cell Biology) and 415 in 221 (Genetics). Over the last three years, there has been growth in the number of students taking the first two courses. However, the pattern showing that only about half of the students in the first course go on to the second course is long standing. We believe this reflects at least
two things. First, a number of students take Biol. 121 as their first college biology class in order to proceed to other programs on campus—particularly in Allied Health areas. These students are not interested in taking the next course of the series. Second, a large number of students do poorly in the first course and do not continue in the biology (or the university) curriculum. This latter hypothesis was confirmed in a study performed by advisors in the department, which is summarize below and further described in Appendix I.

Biology Department Statistics

Table 1: Total Student Credit Hours (SCH)

<table>
<thead>
<tr>
<th>YEAR</th>
<th>SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979-80</td>
<td>20,596</td>
</tr>
<tr>
<td>1989-90</td>
<td>17,527</td>
</tr>
<tr>
<td>1991-92</td>
<td>20,944</td>
</tr>
<tr>
<td>1993-94</td>
<td>22,135</td>
</tr>
<tr>
<td>1995-96</td>
<td>23,360</td>
</tr>
<tr>
<td>1997-98</td>
<td>21,627</td>
</tr>
<tr>
<td>1999-00</td>
<td>21,882</td>
</tr>
</tbody>
</table>

Table 2: Student Credit Hours by Semester And Undergraduate (UG) Vs. Graduate Student (G)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UG</td>
<td>G</td>
</tr>
<tr>
<td>Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer 98</td>
<td>594</td>
<td>97</td>
</tr>
<tr>
<td>Fall 98</td>
<td>10,026</td>
<td>783</td>
</tr>
<tr>
<td>Spring 99</td>
<td>9,007</td>
<td>809</td>
</tr>
<tr>
<td></td>
<td>19,627</td>
<td>1,689</td>
</tr>
<tr>
<td></td>
<td>92.17%</td>
<td>7.97%</td>
</tr>
</tbody>
</table>
Table 3: Number of Students With a Declared Major in Biology

<table>
<thead>
<tr>
<th></th>
<th>Fall 1998</th>
<th>Fall 1999</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A&amp;S</td>
<td>815</td>
<td>805</td>
</tr>
<tr>
<td>University College</td>
<td>266</td>
<td>304</td>
</tr>
<tr>
<td>Second Major</td>
<td>21</td>
<td>11</td>
</tr>
<tr>
<td>Graduate:</td>
<td>106</td>
<td>100</td>
</tr>
<tr>
<td>Total:</td>
<td>1,208</td>
<td>1,220</td>
</tr>
</tbody>
</table>

Table 4: Degrees Awarded in Biology (unofficial count obtained at May graduation)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>B.S.</td>
<td>88</td>
<td>156</td>
<td>220</td>
<td>230</td>
</tr>
<tr>
<td>B.A.</td>
<td>—</td>
<td>17</td>
<td>19</td>
<td>24</td>
</tr>
<tr>
<td>M.S.</td>
<td>n.d.</td>
<td>10</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>n.d.</td>
<td>17</td>
<td>17</td>
<td>8</td>
</tr>
</tbody>
</table>

Table 5: Number of Students Registered in Undergraduate Core Courses For Biology Majors

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>121 &amp; 122</td>
<td>1,428</td>
<td>1,520</td>
<td>1,646</td>
</tr>
<tr>
<td>219 &amp; 221</td>
<td>855</td>
<td>799</td>
<td>866</td>
</tr>
</tbody>
</table>
Insights into the Retention and Persistence of Science Majors: An Example from the Biology Department at UNM. Presented by Carol Brandt, Amy Marion and Vickie Peck, in February 2000 at the New Mexico Higher Education Persistence/Retention Conference in Las Cruces.

Methods:

Of 744 students who took Biol. 121 in Fall 1997, a total of 621 completed the course. In this study the investigators randomly chose 30 students who received each grade in the course (A, B, C, D, F, W). They then looked at the student records of all 180 students as of Fall 1999, paying particular attention to H.S. record, ACT scores, and subsequent UNM academic record.

Results:

- Students who receive a D or F in Biol. 121 are failing all their classes at UNM, and do not persist. Most are on academic suspension.
- Students who had a H.S. GPA < 2.9 have a lower chance of passing Biol. 121. Is this H.S. grade inflation?! Note: UNM currently accepts students with a GPA of 2.25.
- Students who had taken only one lab science in H.S. had a lower chance of succeeding at Biol. 121. This suggests a lack of academic preparedness.
- Students who had not taken Math 121 (college algebra) or its equivalent have a lower chance of success of Biol. 121. Again, this refers to academic preparedness.

Analysis: An interesting observation from the departmental enrollment and graduation figures is that the number of SCH in Biology has held quite steady during a period when the number of declared majors and degrees awarded in Biology has more than doubled. Although it is very hard to separate cause and effect, I believe this change is consistent with the gradual transition of our department from one that was training large numbers of students for careers in the health sciences to one that is focused on educating career biologists. Correlated with this change is our need for more space, as faculty who were primarily teachers retire and faculty with strong involvement in research are hired. Evidence of this change also emerged from the survey of 175 students near graduation (Appendix I). More than 30% of these students had already participated in a Biology research project that was not part of their classroom experience and another 15% said they planned to participate in such a project during the next year. Finding the time and resources to allow nearly 50% of our students to participate in research while they are undergraduates is a huge undertaking for the faculty. The resources for this undertaking come almost entirely from outside the university (such as through funding for the REU and Neurospora Genome projects from the National Science Foundation and the MBRS program funded by NIH).

Graduate Program

According to Fall 1999 enrollment data, there were 100 graduate students in the Dept. of Biology. The names of 96 students active during 99/00 are listed in Appendix L. Graduate student credit hours accounted for only 6.1% of the total SCH for the year. During the year, nine students
completed M.S. degrees and eight Ph.D. degrees were awarded. A list of students completing
degrees and the title of their thesis or dissertation is shown in Appendix C.

More and more, graduate studies is becoming the area of strength for the Dept. of Biology. One
of the most tangible ways this can be expressed is in the report from the Chairman of the Graduate
Student Selection Committee, Ric Charnov. He reports that there were about 90 applicants this
year. About ¾ of the people who received offers accepted and came to UNM. Most important, we
attracted nearly every applicant who had been rated as “excellent” and received an offer, whereas no
candidate rated as “marginal” received an offer. In total, 24 new graduate students were accepted
into the program to begin in August 2000. One reason for this very large group is the start of a
$1.2 million NSF-funded program called IGERT: Freshwater graduate studies link fundamental
science with applications through integration of ecology, hydrology and geochemistry in regions
with contrasting climates. This program involves faculty from Depts. of Earth and Planetary
Sciences as well as Biology and will be carried out as a joint program with the University of Al­
abama. Cliff Dahm is leader of the UNM subcontract.

FACULTY

During the Fall semester, we had 31 tenure-track faculty in the department; five of these people
were on sabbatical. In the Spring semester, we had 32 tenure-track faculty, with three people still on
sabbatical leave and two others absent for other reasons. One Lecturer was hired in the Spring,
bringing the number of lecturers to three. Lists of faculty, visiting assistant professors and part-time
instructors for each semester are in Appendix A. In addition, eight faculty in other UNM units have
joint appointments in Biology, approximately 75 individuals have appointments as adjunct faculty
(not on UNM payroll), and there are 35 individuals with appointments as Research Assistant,
Associate or Full Professor. There are 11 emeritus faculty members. The data in this annual report
is based primarily on activities of the tenure-track faculty.

Hired in Fall 1999:

• David Faguy, Assistant Professor

Hired in Spring 2000:

• William Pockman, Assistant Professor

Recruited in 1999–2000:

• Steven Poe—will begin Fall 2002;
• Blair Wolf—will begin Fall 2000;

Mid-Probationary Review:

• Bai-Lian (Larry) Li

On Leave During 1999–2000:

• James Brown—sabbatical Fall ’99;
• Astrid Kodric-Brown—sabbatical Fall ’99;
• Sam Loker—sabbatical ’99-00;
• Diane Marshall—sabbatical ’99-00;
• Bruce Milne—sabbatical ’99-00;
• Fritz Taylor—on medical leave, Spring ’00;
• Terry Yates—on leave to NSF, Washington, D.C., Spring ’00;

Retired During 1999-00:
• Gordon Johnson, Professor

Deceased:
• Marvin “Bud” Riedesel, Professor Emeritus, July 16, 2000

Scholarly Publications:

Three books with 1999 publication dates were authored by Biology faculty. These include The Bats of the United States by Harvey, Scott Altenbach and Best; The Evolution of Avian Breeding Systems by David Ligon; and Ecology: Concepts and Applications, by Manuel Molles. In addition, a book titled Scaling in Biology was edited by Jim Brown and West. A book titled A Natural History of Rape: Biological Bases of Sexual Coercion, by Randy Thornhill and Palmer, was published in Spring 2000; it received large amounts of publicity and media attention during the spring, mostly focused on the misperception that Thornhill was saying rape is acceptable because it has a biological basis in natural selection.

As reported in the 1999 biographical data, faculty members published 75 refereed articles in 1999 for an average of 2.5 publications per reporting faculty member (75/30). In fact, the 75 articles were published by only 22 individuals. The remarkable productivity of some individuals deserves special mention: James Brown and Randy Thornhill both published nine articles, Donald duszynski published eight articles, and Rob Miller seven. The articles were published in such prestigious journals as Ecology, Nature, and Proceeding of the National Academy of Sciences. In addition, 24 review articles authored by members of the faculty were published in 1999.

Sponsored Research:

The Dept. of Biology is totally involved in research, most of which is supported by national funding agencies. During fiscal year 1999, the awards to Biology totaled more than $8.2 million. These projects range from very large, collaborative endeavors (such as the Packard Foundation award, IGERT, the LTER, the LTER Network Office, and the NIH Hantavirus program) to individual efforts under the direction of one faculty member. The list appears in the Contract & Grant Awards Report, FY 99, and will not be repeated in this document.

One additional bit of data: during FY 1999, awards to the Dept. of Biology made up 23% of the total award dollars brought to the College of Arts and Sciences.
Professor Manuel C. Molles, Jr. Named to Potter Chair:

An endowment was established to honor Prof. Loren Potter at the time of his retirement in 1986. Potter was Chairman of the Dept. of Biology from 1958–1972. The funds for this endowment were generated primarily by selling two parcels of donated land, and thus it is known as the Ross–Brown Endowment. By terms of the endowment, the principle is allowed to grow (it now stands at $237,000) while a certain amount is put into a spending account each year to be used by the recipient. The recipient is to be a faculty member in the Dept. of Biology who works in the area of Plant Ecology as it is broadly defined. Diane Marshall was holder of this endowment from 1991–1997. After a process to nominate and select the next recipient, Manuel Molles was named to this chair in 1999.

A ceremony to make this award to Molles was held in a filled Room 100 on October 28, 1999. At this time, Dr. Loren Potter was the special guest speaker, telling “Stories from the Potter Years.” The ceremony concluded with Molles telling a story about how he began to incorporate trees into his riparian biologist’s view of the world while falling into a river (you had to be there . . . ). The event concluded with a reception in the greenhouse.

MUSEUM OF SOUTHWESTERN BIOLOGY

The remodeling process to convert the Old Bookstore into the new Museum of Southwestern Biology really did start this year! Although it is now years behind the schedule that was initially put forward, and significantly over budget, the building is taking shape and excitement is growing. All curators and collections managers are focused on the impending move of the collections, which is now projected for early 2001. Only Phase I of the project can be completed at this time. This means the collections will move before the necessary office space and working areas for people are completed. In order to acquire funds to complete some offices, it was necessary to agree that organizations displaced by the impending remodel of the Student Union Building would be allowed to occupy the Museum for two years.

Funds for completion of the Museum and remodeling of vacated space in the Biology building are not yet secured. In the absence of a private donor, we are now trying to get funds from the state legislature. During this year, the departmental Space Committee has generated a plan to remodel about 20,500 square feet in the basement of the building (Appendix M). This plan was endorsed by the A&S Science Chairs, who agreed to withdraw support from the never-funded plan to build a Science and Technology Building and put their support behind completion of the Museum, remodel of Biology, and remodel of Chemistry and Earth and Planetary Sciences. This plan has been endorsed by the Dean of A&S and is expected to have a high position on the list of Major Capital Projects to be presented to the legislature in 2001. The total cost of both projects for Biology is projected to be $7 million.
There are 80 professional and technical support staff members in the Dept. of Biology. Eleven are supported by departmental funds; the rest are supported by grants. The staff in our Main Office have been working under difficult and crowded conditions for many years. It could not be tolerated. A plan was carefully drawn and approved that would have incorporated the small conference room into the Main Office area; however, the remodel section of Physical Plant killed this plan by insisting that it must be done by a licensed contractor (at high cost), but could not be done until the ceiling clean-out was finished (at some undetermined date in the future—see Buildings below). Therefore, an alternative plan was developed and initiated. In August 2000, the entire accounting group (Theresa, Lupe, Renee, Melissa and Peter) moved from the Main Office to a series of three rooms located below ground level, under Room 100. In order for this to happen, two Visiting Assistant Professor had to vacate one office and Nancy Davis, Systems Administrator, moved the servers and herself to the Main Office area. A third office was created by clearing out a storage area. The result is good and the rest of us stuck in the Main Office without any windows are jealous!

Castetter Hall. The main Biology building continues to show its age and construction weaknesses. The biggest repair this year was the project to remove and replace all of the cold and hot water pipes in the western (“new”) wing of the building. This was necessary because of continuing leaks that would simply sprout at a new location once repaired. This task was complicated by the discovery of surprisingly high levels of lead in mixing boxes and in dust above the plenum. The decision was made to remove all ceiling tiles in areas where plumbing existed. Because of the potential hazard, this removal had to be done by contractors in haz/mat suits on a room-by-room basis after sealing the room with plastic. For months there were no ceiling tiles in this part of the building. We quickly discovered how much soundproofing is provided by such tiles—closing the door no longer afforded the possibility of a private conversation! The plumbers then went through to install new piping, and then again to remove the old pipes. Finally, the new ceiling tiles were installed. All in all, it made for a difficult and noisy Fall semester in the offices, labs and classrooms.

In addition to the plumbing project, Fall 1999 was complicated by efforts to install a back-up generator of sufficient power to provide alternative electricity to the entire building. This project had been conceived as a Y2K requirement, but for many reasons it was not possible to complete the project before the turn of the millenium. As the new wiring was installed and tested, the building suffered numerous power outages ranging from seconds to hours. There was a period when the Chairman and Departmental Administrator both kept flashlights on their desks (having discovered that it is very dark in windowless offices without electricity). One of the biggest issues with all of the power outages was the computers and -70°F freezers. Because it can be damaging for these freezers to go off and come back on within a few seconds, we would always try to unplug the freezer before a scheduled power outage and be on hand to power it back up when power was back on. It was a team-building effort that we would have gladly done without. In fact, the new millennium came to Albuquerque without any of the disruptions that were foreseen. The building was quiet, the hospitals were quiet, the power continued, and everyone returned safely in January 2000.
Annex. Heating and cooling remained problems in the Annex. The heating unit exploded in the summer and was not replaced until the coldest days of winter. In summer 2000, the new swamp cooler was so inadequate that temperatures of 95°F were recorded in the organic lab.

Marron Hall. Most graduate students and many research faculty and emeritus faculty have office space in Marron Hall. This venerable old building has many faults, but it plays a very important role in housing our growing department. Best of all for its residents—the offices have windows!

During the Spring, space on the west end of both floors of Marron Hall was remodeled as the new home of the New Mexico Natural Heritage Program. The move of this group from its South campus location to Main campus is expected to increase interactions with the department as well as opportunities for students to work with NMNHP projects. The relationship between NMNHP and the Dept. of Biology remains somewhat loose. Although NMNHP is located at UNM and it runs its contracts through the Biology department, its core funding comes directly from the state legislature.

Kathryn G. Vogel
Chair
September 12, 2000
APPENDICES

FY 1999–00
ANNUAL REPORT
DEPARTMENT OF BIOLOGY
APPENDIX A

FACULTY LIST,
FALL 1999–2000
Faculty list - Fall 1999

Scott Altenbach
Larry Barton
James Brown (sabb)
Eric Charnov
Richard Cripps
Cliff Dahm
Donald Duszynski
David Faguy
James Gosz
Gordon Johnson
Astrid Kodric-Brown (sabb)
Larry Li
David Ligon
Sam Loker (sabb)
Tim Lowrey
Diane Marshall (sabb)
Bruce Milne (sabb)
Rob Miller
Manuel Molles
Don Natvig
Mary Anne Nelson
Howard Snell
Steve Stricker
Fritz Taylor
Randy Thornhill

Eric Toolson
Tom Turner
Kathryn Vogel
Andreas Wagner
Maggie Werner-Washburne
Terry Yates

Instructors
Sandy Ligon
Lyle Berger (on leave)

Visiting Assistant Professor
Amy Marion (121)
Vicky Peck (121)
Ken Sylvester (428, 429)

Part-time Instructors
Lee Couch (239)
Jim Swan (237, 238)
Patty Wilbur (122)
Faculty list - Spring 2000

Scott Altenbach
Larry Barton
James Brown
Eric Charnov
Richard Cripps
Cliff Dahm
Donald Duszynski
David Faguy
James Gosz
Gordon Johnson
Astrid Kodric-Brown
Larry Li
David Ligon
Sam Loker (sabb)
Tim Lowrey
Diane Marshall (sabb)
Bruce Milne (sabb)
Rob Miller
Manuel Molles
Don Natvig
Mary Anne Nelson
Will Pockman
Howard Snell
Steve Strickler
Fritz Taylor (on leave)

Randy Thornhill
Eric Toolson
Tom Turner
Kathryn Vogel
Andreas Wagner
Maggie Werner-Washburne
Terry Yates (on leave)

Instructor/Lecturer
Lyle Berger
Bruce Hofkin
Sandy Ligon

Visiting Assistant Professor
Vicky Peck (219, 425)
Ken Sylvester (221, 449)

Part-time Instructors
Lee Couch (239)
Bill Kuipers (136)
David Lightfoot (475)
Kelly Sullivan (360)
Jim Swan (237, 238)
Patty Wilbur (123)
APPENDIX B

HONOR’S PROGRAM
During the 1999–2000 academic year, there were approximately twenty undergraduate Biology majors working on honors projects. The majority of these students worked with faculty or adjunct faculty mentors in the Biology Department, however, several students worked in the laboratories of faculty in the School of Medicine as well. One of the requirements for honors in the Biology Program is a public presentation, in oral or poster format, of the work performed while an Honors student.

Thirteen students were awarded honors at graduation during the past year and many of these students presented their work at the Biology Department's 2000 Annual Research Day. Some students presented their work at regional and national conferences, including the Annual Meeting of the American Association for the Advancement of Science.

**Summa Cum Laude**

Spring 2000:

**NIKKI L. JERNIGAN**

Thesis title: “Onset and Reversal of Hypoxia-Induced Vasoconstrictor Hyporeactivity Correlates with Heme Oxygenase Expression.” Thesis Advisor: Dr. B. Walker

**Magna Cum Laude**

Spring 2000:

**MARK W. HORNER**


**CHRISTOPHER M. KERWIN**


**CHARITY T. MELGAARD**


Summer 2000:

**DOMINIQUE ALÓ**

Thesis title: “Patterns of Evolution of the Orangebelly Darter (Etheostoma radiosum).” Thesis Advisor: Dr. T. Turner

**NIELS KLITGORD**

Thesis title: “The Function and Regulation of Mef2 During Adult Drosophila Myogenesis.” Thesis Advisor: Dr. R. Cripps
Spring 2000:

YVONNE M. BISHOP

LEANN A. CHAVEZ

CRISTAL R. ORTIZ

HEATHER L. SIMPSON

Fall 1999:

LETTITA LANSING

ELEANOR LISA LAVADIE
Thesis title: “Pseudo Vitamin D-Deficiency Rickets Expression of Wild-type Pig Cytochrome P450C1 and Mutant PDDR Clones in COS-7 Cells.” Thesis Advisor: Dr. J. Omdahl

CHRISTY A. TARLETON
APPENDIX C

MASTERS &
Ph.D. DEGREES,
FALL 1999–
SUMMER 2000
<table>
<thead>
<tr>
<th>Degree</th>
<th>Thesis/Dissertation</th>
<th>Major Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 1999</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barnes, William</td>
<td>Cottonwood Performance and the Role of Stream Flow in the Riparian Forests of the Middle Rio Grande.</td>
<td>Dahm, C/Molles, M.</td>
</tr>
<tr>
<td>Earp, Andrea</td>
<td>The Role of abiotic factors in regulating nitrogen fixation by microbiotic crust from the Sevilleta Long Term Ecological Research site, New Mexico.</td>
<td>Johnson, G.</td>
</tr>
<tr>
<td>Grogan, Sterling</td>
<td>MS Plan II</td>
<td>Milne, B.</td>
</tr>
<tr>
<td>Skartvedt, Pete</td>
<td>Response of Woody Riparian Vegetation to the Release of Grazing Pressure in the Upper Mimbre Watershed, Southwestern New Mexico.</td>
<td>Molles, M.</td>
</tr>
<tr>
<td>Ph.D.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crawford, Matthew</td>
<td>Characterization of a Complex that Forms in Stationary-Phase Saccharomyces cerevisiae Containing the Regulatory Subunit of the cAMP-Dependent Protein Kinase.</td>
<td>Werner-Washburne, M</td>
</tr>
<tr>
<td>Salazar-Bravo, Jorge Antonio</td>
<td>Systemics and Biogeography of the Rodent Genus <em>Calomys</em> inferred from Mitochondrial DNA Sequence Data.</td>
<td>Yates, T.</td>
</tr>
<tr>
<td>Degree</td>
<td>Thesis/Dissertation</td>
<td>Major Professor</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Taylor, Robert</td>
<td>Population, Community, and Biogeographic Ecology of Avian Species.</td>
<td>Brown, J.</td>
</tr>
<tr>
<td><strong>Spring 2000</strong></td>
<td><strong>PhD</strong></td>
<td></td>
</tr>
<tr>
<td>Brown, Gary Stephen</td>
<td>Chemical Oxidation of Polycyclic Aromatic Hydrocarbons.</td>
<td>Barton, L.</td>
</tr>
<tr>
<td><strong>Summer 2000</strong></td>
<td><strong>MS I</strong></td>
<td></td>
</tr>
<tr>
<td>Errett-Golden, Allison</td>
<td>Characterization of a <em>Saccharomyces Cerevisiae</em> Stationary-Phase Mutant, bcy 1-100: Implications for cAMP Dependent Protein Kinase Function.</td>
<td>Werner-Washburne, M.</td>
</tr>
<tr>
<td>Garcia, Joslyn Melanie</td>
<td>Prehistoric and Historic Ecosystem Management of the Sevilleta Wildlife Refuge.</td>
<td>Gosz, J.</td>
</tr>
<tr>
<td><strong>Ph.D</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dolan, Patricia L.</td>
<td>From Genome to Proteome: High-Through Put Analysis of Expressed Genes in <em>Neurispora Crassa</em>.</td>
<td>Nelson, M.</td>
</tr>
<tr>
<td>Fellows, Christine Susan</td>
<td>Ecosystem Metabolism and Nitrate Retention in Headwater Streams: Influence of the Hyporheic Zone.</td>
<td>Dahm, C.</td>
</tr>
<tr>
<td>Perry, Travis William</td>
<td>Community Ecology of the Neotropical Canopy Fruit Bat Guild, Specifically Morphological Character Displacement and Macroecology of New World Bats.</td>
<td>Yates, T.</td>
</tr>
</tbody>
</table>
Drilling and Crushing Frequencies in Turritella in the Gulf of California: Effects of Morphology and Location.
APPENDIX D

ANNUAL REPORTS:
MUSEUM OF SOUTHWESTERN BIOLOGY
& U.S. GEOLOGICAL SURVEY
MUSEUM OF SOUTHWESTERN BIOLOGY
DEPARTMENT OF BIOLOGY
FISCAL YEAR 1999-2000
DIVISION OF AMPHIBIANS AND REPTILES

1. DIVISION HIGHLIGHTS

The number of specimens of amphibians and reptiles is now nearly 62,000. A backlog of previously unprocessed or accessioned specimens was prepared and catalogued with assistance of a work-study student and two volunteers over the course of the year.

Computerization of specimen records continued, the electronic database now having over 37,500 records of complete specimen information. In addition, species names for all specimens have been computerized, thus enabling quicker access and listing of particular species in the collection.

The complete listing of species in the collection is now accessible for querying through the California Academy of Sciences Herpetology Combined Museum Collections Index (http://research.calacademy.org/herpetology/Comb_Herp_Index.html), which lists holdings of over 20 institutions. A divisional web page (http://www.unm.edu/~msbherp/) now provides a complete description of the division, including email addresses for division personnel, background information, and collection use guidelines and receives heavy use mainly from educational institutions.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Info Requests</th>
<th>Publications citing MSB specimens</th>
</tr>
</thead>
<tbody>
<tr>
<td>590</td>
<td>10</td>
<td>9</td>
<td>4</td>
<td>109</td>
<td>3</td>
</tr>
</tbody>
</table>

Internet-accessible information:

<table>
<thead>
<tr>
<th>Unique visitors to website</th>
<th>Total visits to website</th>
<th>Average visits per day</th>
<th>Dominant visiting domain</th>
<th>Number of countries represented</th>
</tr>
</thead>
<tbody>
<tr>
<td>253</td>
<td>1188</td>
<td>6.6</td>
<td>Educational .EDU (80%)</td>
<td>7</td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTIONS

BIOL 386 General Vertebrate Zoology / Lab

Total students enrolled (both semesters): 82

4. COLLECTION MANAGEMENT

Division staff catalogued nearly 500 specimens into the collection and processed 24 accessions. Much of the backlog from previous years was organized and efforts are now concentrated on processing accessions from the past months and correctly arranging different stages for processing and cataloguing. Complete data from approximately 37,500 specimens are now in the computer database (BIOTA), while, genus and species names have been entered for ALL specimens, thus enabling
quicker responses to queries. Efforts will continue, focusing on entering information into the database about the localities of each specimen.

A purchase of nearly 1,000 small skeleton boxes has allowed for the proper storage of the division’s osteological collections, while continuing to standardize jar sizes and seal methods in the wet collection. Nearly 70% of the main collection’s 6300 jars have been checked for leaks and their alcohol levels have been restored. In preparation for the move of the museum, cabinets were relabeled, correctly reflecting the contents of each cabinet at the genus level.

With the addition of a Windows-based computer, the database is being backed up periodically on two different platforms and two people can now do computer entry at the same time. Extended computer access has also allowed the division to improve its Internet communications, on which it relies heavily. Most communications are handled via e-mail and by creating personalized web pages when returning queries. This method has received good comments from outside researchers. The completion of the listing of all specimens by genus and species allowed for the division to become part of a Herpetology Combined Museum Collections Index (http://research.calacademy.org/herpetology/Comb_Herp_Index.html), hosted by the California Academy of Sciences. This important index is a growing medium for querying herpetological collections nationwide and the division expects a higher demand for information on its collections.

5. AWARDS, GRANTS, AND CONTRACTS

Faculty:


Participatory Ecological Monitoring of the Galápagos Archipelago: A Role for Tourism and Management Vessels. Howard L. Snell, Roz Cameron and Robert Bensted-Smith. CONADROS. $25,000. April 1, 2000; April 1, 2001; $25,000.


Monitoreo Ecológico en las islas Galápagos. Howard L. Snell, Alan Tye, Rodrigo Bustamante. Fundación Natura. $425,000. April 1, 1999; April 1, 2003; $108,000.

Ecological Monitoring for the Galapagos Archipelago: A Productive Program for the Conservation of Biological Diversity. Howard L. Snell, Charlotte Causton. UNESCO. $92,000. June 1, 1999; June 1, 2000; $92,000.


Renovation of the UNM Bookstore for MSB (I don't have exact title available – Tim Lowrey, Terry Yates, Bob Parmenter, or Sharon will have it). Terry Yates, Howard L. Snell, Robert Parmenter. National Science Foundation. $975,000. 1997; 2001; $975,000.


6. PUBLICATIONS

B. Publications by museum staff, students and associates.

Newsletters: None

Books: None

Reports:


Journal Articles:


Web-based:


B. Publications and reports based on museum specimens by researchers excluding Museum staff, students and Associates.


7. ACTIVITIES IN LEARNED SOCIETIES

D. Invited or plenary talks.


E. Contributed talks or posters. None
F. Attendance at professional meetings.

Marco Altamirano traveled to Uruguay to present 2 papers at the International Congress of Latin American Herpetology.

Marco Altamirano spent 1999 in the Galapagos Islands as a research fellow of FUNDACYT, the Ecuadorian equivalent of the US NSF.

J. Tomasz Giermakowski attended a national meeting on environmental uses of GIS systems in Utah.

F. Service as editor or on editorial board of a journal.


8. OTHER PROFESSIONAL ACTIVITIES.

D. Seminar or colloquium presentations.


E. Presentations in a scholarly capacity at hearings, workshops, legislative committees, etc. None
F. Presentation to general audience in a scholarly capacity. None
D. Service in a scholarly capacity as a member of a local, state, regional or national committee, panel.
Snell, H.L. Member of New Mexico Department of Game and Fish Non-Game Review Panel.

F. Journal referee. List journals and number of papers refereed by each division member in alphabetical order. None.

9. SERVICE.

A. Symposia, workshops, conferences, etc. sponsored, organized, held etc.

Snell H. L. y W. Llerena. 2000. Curso teórico-práctico de ArcView para el Personal de ciencias de la ECChD y PNG. 3-7 enero.


11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.
11. DONATIONS AND GIFTS RECEIVED.

12. CURRENT STAFF. List faculty, staff, students and volunteers

Faculty and Staff
Howard L Snell, Curator and Professor
William G Degenhardt, Curator Emeritus
J Tom Giermakowski, Graduate Curatorial Assistant
Leland Pierce, Staff

Graduate students
Marco Altamirano
J Tom Giermakowski
R Brand Phillips
Anne Schultz
Don Sias

Undergraduate student workers
Ruban Elmaoued (work-study employee)

Volunteer student employees
Melissa Edgar
Gilbert Quintana

13. MUSEUM ASSOCIATES

Curatorial Associates
Charles W Painter
Norman J Scott
James N Stuart

Research Associates
Roger Conant
Lee A Fitzgerald
Thomas H Fritts
1. DIVISION HIGHLIGHTS.

The focus of this year's museum activity was to prepare for the move to the new museum. Cataloging specimens continued through 1999. Organization of the collection has been the highest priority. The library of books has been catalogued and databased. This year we continued giving tours of the museum for public and private schools as well as talks about the museum in the schools, but this has been discontinued until the collection is properly organized.

2. TABLE OF COLLECTION USE. Fill in the blanks with the correct statistics. Collection growth should be the number of cataloged specimens added to the division. Loans (outgoing) should include the number of loans and the number of lots or specimens separated by a " / ".

Loans (incoming) same format as for Loans (outgoing). # of Visitors should include the number of researchers and general public separated by a " / ".

<table>
<thead>
<tr>
<th>Collection Growth</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th># Visitors</th>
<th># Data Requests</th>
<th>Publications*</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>0</td>
<td>0</td>
<td>6+/19</td>
<td>N/A</td>
<td>2</td>
</tr>
</tbody>
</table>

N/A -- due to lack of regular staff, records are estimates; number of data requests are numerous, but uncatalogued.

Number of visitors has not been recorded consistently.

3. COURSES USING THE COLLECTIONS.

BIOL 402/502 Insect Taxonomy and Systematics. Dick Fagerlund and Bruce Noll. Loan of specimens to students for training and presentations.

BIOL 402/502 Bosque Ecological Monitoring Program Interns. Cliff Crawford and Mary Stuever. Loan of specimens to students for training and presentations.

4. COLLECTION MANAGEMENT.

The Museum TAs continued incorporating specimens into BIOTA, a relational electronic database. To date, over 1,700 records have been created. In addition, TA's expanded the collection into new drawers, labeled specimens within series, updated synonyms and incorporated recent acquisitions into the collection. Books have been catalogued and entered into a database. Preparation for the move has included securing specimens and organizing the collection.

5. AWARDS, GRANTS, AND CONTRACTS.
GRANTS SUBMITTED, FACULTY

GRANTS RECEIVED AND IN FORCE FROM PREVIOUS YEARS


Bosque Ecological Monitoring Program. C.S. Crawford, M. Stuever. National Science Foundation, $35,000


Habitat requirements of Bell’s Vireo. J. M. Parody, NM Department of Game and Fish, Share with Wildlife 1997-1998, $9,000; $3,000 approved for 1999-2000

CONTRACTS

6. PUBLICATIONS.

A. Publications by Museum staff, students and Associates.

BOOKS


JOURNAL ARTICLES


ARTICLES IN EDITED VOLUME

B. Publications and reports based on museum specimens by researchers excluding Museum staff, students and Associates.

7. ACTIVITIES IN LEARNED SOCIETIES.
A. Invited or plenary talks.

B. Contributed talks or posters.

C. Attendance at professional meetings.

M. C. Molles. NABS, June 2000.

D. Service as editor or on editorial board of a journal.

E. Service as officer of professional society or organization.

Manuel Molles, Trustee for The Nature Conservancy of New Mexico
Manuel Molles, Volunteer Training, Rio Grande Nature Center

8. OTHER PROFESSIONAL ACTIVITIES. List alphabetically under each category.

A. Seminar or colloquium presentations.

B. Presentations in a scholarly capacity at hearings, workshops, legislative committees, etc.
Richard Fagerlund, 6 hantavirus training seminars at UNM main and Valencia campuses.

C. Presentation to general audience in a scholarly capacity.

Dick Fagerlund – arthropod lecture at Rio Grande Nature Center for Summer Wings Festival and El Paso Natural Gas

Dick Fagerlund – weekly bug column in the Albuquerque Tribune on Tuesdays

Dick Fagerlund – segments on KKOB AM (770) – talking about pests and answering arthropod questions from the public.

Dick Fagerlund – radio show on "bugs" from March 18, 1999 to July 22, 1999.

Dick Fagerlund – KRQE channel 13 monthly TV spot

Dick Fagerlund – syndicated "bug column" appearing in over 65 papers throughout the U.S. and Canada.

D. Service in a scholarly capacity as a member of a local, state, regional or national committee, panel etc.

Manuel Molles, National Center for Ecological Analysis and Synthesis Working Group Member, Scientific Evidence Project, 1999-2001, University of California, Santa Barbara.

Manuel Molles, Invited by the National Science Foundation to attend workshop and write white paper for NSF on "Frontiers in Ecology". December 1999.

E. Journal referee.

Manuel Molles – Oecologia, 1 paper

9. SERVICE.

A. Symposia, workshops, conferences, etc. sponsored, organized, held etc.

B. Public Service.

Volunteer Training, Rio Grande Nature Center

Kim Eichhorst – Visits to Albuquerque public schools to talk about insects and biodiversity.

Dick Fagerlund – Maintenance of web page on basic arthropods of New Mexico information, pest control, beneficial aspects to insects, etc. and addition of species lists

Dick Fagerlund – talks to child care groups, Medical groups, and custodians at UNM about bugs and hantavirus

Dick Fagerlund – conducted training seminars for the City of Albuquerque, City of Santa Fe, State of New Mexico (at the governor's request), the Albuquerque School District, the Rio Rancho School District, Kirtland AFB and several seminars for the pest control industry.

10. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

Manuel Molles: Named to Potter Chair of Plant Ecology.
Manuel Molles: awarded sabbatical support by Ministry of Education, Spain.

11. DONATIONS AND GIFTS RECEIVED.

Dick Fagerlund, List of beetles in New Mexico

Sevilleta LTER and Bosque del Apache, more arthropod specimens from ongoing research
12. CURRENT STAFF. List faculty, staff, students and volunteers.

Manuel Molles, Ph.D., Professor, Curator. Riparian ecology
Cliff Crawford, Ph.D., Emeritus Professor, Emeritus Curator. Riparian ecology, desert ecology
David Lightfoot, Ph.D., Research Associate, Associate Curator. Arthropod ecology, grasshopper systematics, desert ecology
Robert Parmenter, Ph.D., Program Director Sevilleta LTER, Associate Curator. Desert ecology
Kim Eichhorst, Ph.D., student. Museum Teaching Assistant Summer 1999- Fall 2000. Riparian ecology

13. MUSEUM ASSOCIATES.

Sandra Brantley, Post-doctoral Associate. Arthropod communities
Richard Fagerlund, UNM staff, Environmental Services. NM arthropods, particularly beetle taxonomy.
1. DIVISION HIGHLIGHTS.

The Division of Biological Materials' focus this fiscal year has been on (1) sample reorganization within the array of freezers, (2) re-labeling all sample vials with scanner labels, and (3) complete computerization of all NK data.

To date, we have finished programming our new Access database, and entered 60,000+ NK records into the new database.

Ongoing projects include the CDC/Hantavirus research program in the Southwest and a new Hantavirus project in Chile, the Long Term Ecological Research Program at the Sevilleta, and the NIH project to study rodent/virus interactions in a closed natural ecosystem.

2. TABLE OF COLLECTION USE.

<table>
<thead>
<tr>
<th>Collection Growth</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th># Visitors</th>
<th># Data Requests</th>
<th># of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>~10,000 samples</td>
<td>53/9,446</td>
<td>47/9,834</td>
<td>2,896/25</td>
<td>62</td>
<td>13</td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTIONS. List the courses including; course number, approximate number of students enrolled, type of use (specimens, facilities, staff participation, etc.).

- Biology 402 fall Special Topics: 1 students, specimens, facility, staff participation
- Biology 502 fall Systematics: 15 students, specimens, facility, staff participation
- Biology 523 fall Systematics: 9 students, specimens, facility, and staff participation
- Biology 551 fall Graduate Research -Problems: 2 students, specimens, facility, and staff participation
- Biology 599 fall Master's Thesis: 3 students, specimens, facility, and staff participation
- Biology 651 fall Advanced Field Biology: 2 students, facility
- Biology 699 fall Dissertation: 3 students, specimens, facility, and staff participation

4. COLLECTION MANAGEMENT.

Our new Access database has been developed and we are now entering all NK number data, from NK number 1 to 105,800 into this database.
To date we have added ~40,000 records to our new database, and re-labeled over 60,000 vials.

5. AWARDS, GRANTS, AND CONTRACTS.

Faculty

**Terry L. Yates - PI:**

*A Genetic Resource for the 21st Century: Computerization of the Division of Biological Materials, MSB.*

NSF

1 July 1999-December 31st 2000

$89,000

Long Term Ecological Research: *The Sevilleta LTER, Cycle II*

NSF

October 1994- September 2000

$3,800,000.00

**Hantavirus Infections: Ecology, Immunity and Treatment**

NIAID/NIH

September 1 1996- August 31, 2000

$1,569,666

*Longitudinal Studies of Hantavirus in SW US Rodent Populations*

Indian Health Service

September 1996- May 2000

$599,661

*Longitudinal Studies of Hantavirus in SW US Rodent Populations*

CDC

September 30 1996- August 31, 2000

$1,039,886

**Relocation/Consolidation of the Research and Training Facility of the Department of Biology**

NSF

March 1997- May 31 2000

$313,200

*Ecology of Hantavirus Enzootics: Immune Interventions*

NIAID

August 1997- July 2002

$1,569,666

**ICIDR**

*Hantavirus Ecology and Disease in Chile*

NIH/NIAID
Portable flow-through Amperometric Immunosensor Device for Fast Field Immunoanalysis of Rodent Virus
NSF
January 1998-December 2001
$240,000

Response of SW Montane Mammal Communities to Global Climate Change
US Fish/Wildlife Service
September 1998-September 2000
$264,000

Knowledge Networking of Biodiversity Information
KDI/KN
NSF
September 1 1998- August 31 2001
$2,731,876

Inspection and Decontamination of File Boxes Potentially Infected with Hantavirus.
Department of the Interior.
December 10th 1998-December 10th 2000
229,789

Biology of Infectious Diseases and Inflammation.
Public Health Services
September 1st 1998-September 1st 2003
466,042

6. PUBLICATIONS.

A. Publications by Museum staff, students and Associates.

Journal articles:


Reports:


Books:


B. Publications and reports based on museum specimens by researchers excluding Museum staff, students and Associates.

7. ACTIVITIES IN LEARNED SOCIETIES. List alphabetically (by division member) under each category.

A. Invited or plenary talks.

Parmenter: Hantavirus meeting for Chilean Collaboration March 4th-March 16th, 2000
Temuco Chile
*Data management.*

Yates: Hantavirus meeting for Chilean Collaboration March 4th-March 16th, 2000
Temuco Chile
*Predicting Hantavirus outbreaks.*

B. Contributed talks or posters.

Talks:
*Division Of Biological Materials, at the Museum of Southwestern Biology.*


Yates: American Tropical Medicine and Hygiene Annual Conference

C. Attendance at professional meetings.

Parmenter: American Tropical Medicine and Hygiene Annual Conference

Parmenter: ICIDER Hantavirus meeting for Chilean Collaboration March 4th-March 16th, 2000 Santiago Chile. Data management

Parmenter: Association of Systematics Collections Meeting May 13th-May 15th 2000
Baltimore Maryland
On the Board of Genetic Resources: Management, Ethics and Use.

Parmenter: 80th American Society of Mammalogists Annual Meeting Durham, New Hampshire

Yates: American Tropical Medicine and Hygiene Annual Conference


Yates: Association of Systematics Collections Meeting May 13th-May 15th 2000
Baltimore Maryland


D. Service as editor or on editorial board of a journal.

Yates:
Managing Editor, Publications of the Museum of Southwestern Biology.
Review Editor, American Society of Mammalogists, Journal of Mammalogy
E. Service as officer of professional society or organization.

Terry Yates:

Board of Directors: The America Society of Mammalogists, 1999-present.
The Society of Systematic biology, 1999-present.
The Association of Systematic Collections
The Peromyscus Stock Center
The Southwestern Association of Naturalists
Chairman of the Board of Trustees for the American Society of Mammalogists
Member of the board of trustees for the SWAN
Chairman of the board of trustees for the pooled income fund of ASM

Cheryl Parmenter:
Safety Officer
Member of the UNM Campus Biosafety Committee

8. OTHER PROFESSIONAL ACTIVITIES. List alphabetically under each category.

A. Seminar or colloquium presentations.

Yates: Colorado State University, May 2000, Bio-complexity and Zoonotic Disease

Yates: University of Nebraska-Lincoln. The Ecology of Outbreaks: The Central Role of Research Collections and Systematics.

B. Presentations in a scholarly capacity at hearings, workshops, legislative committees, etc.

Yates: Biology Department Board of Directors and Council. Albuquerque, NM. The Value of Basic Research to the Educational Enterprise.

C. Presentation to general audience in a scholarly capacity.

D. Service in a scholarly capacity as a member of a local, state, regional or national committee, panel etc.

Yates: American Society of Mammalogists Committee
Systematic Biology Committee
Sub-committee- Weapons of Mass Destruction

E. Journal referee. List journals and number of papers refereed by each division member in alphabetical order.
9. SERVICE.

A. Symposia, workshops, conferences, etc. sponsored, organized, held etc.

B. Public Service

Visitors:
CDC-Data Manager
Chileans Collaborators
Photographers-Albuquerque Magazine September 17, 1999

10. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC. List alphabetically under each division member.

Yates:
Chair, Board of Trustees, American Society of Mammalogists
Elected Trustee, Southwestern Association of Naturalists.
Chair, Main Campus Animal Care and Use Committee, UNM

11. DONATIONS AND GIFTS RECEIVED. List source and type (e.g., specimens, money, equipment, books, etc.)

12. CURRENT STAFF. List faculty, staff, students and volunteers.

Terry L. Yates, Curator, Division of Biological Materials
Cheryl Parmenter, Interim Collection Manager, Division of Biological Materials,
Hantavirus Data Manager
Safety Officer (Room 159)
Gabor Racz, Scott Burt and Andreas Garcia- Ph.D. Graduate student-RA
Mary Jane Gosz- Curatorial Assistant
Maria Rubio- Divisional Work-study
Christy Garcia- Student Assistant

Phd. Students:
Andreas Garcia
Gabor Racz
Jorge Salazar-Bravo
M. Scott Burt
13. MUSEUM ASSOCIATES.

Research Associates:

- J. Scott Altenbach | UNM Department of Biology
- Sydney Anderson | American Museum of Natural History, New York
- Robert J. Baker | The Museum, Texas Tech University, Lubbock, TX
- Mike Bogan | National Biological Survey
- Troy L. Best | Department of Biology, Auburn University
- Joseph A. Cook | Natural History Museum, University of Alaska, Fairbanks
- Jerry Dragoo | UNM Department of Biology
- Bill Gannon | UNM Department of Biology
- Scott L. Gardner | Dept. Nematology, Curator, University Nebraska.
- Sarah B. George | Director, Utah State Museum.
- Gary L. Graham | Bat Conservation International
- David J. Hafner | New Mexico Museum Nat. History
- Bruce J. Hayward | Department of Biology, Western New Mexico University
- Edward J. Heske | Illinois Biological Survey
- R. Dewitt Ivey | Retired. Active in Botany, mammals
- Clyde Jones | The Museum Texas Tech University
- Dwight W. Moore | Emporia State University
- Cindy Ramotnik | National Biological Survey
- Robert Parmenter | Department Biology, LTER coordinator
- James L. Patton | Museum of Vertebrate Zoology, University of California
- Richard A. Smartt | New Mexico Museum of Natural History.
BIRDS

1. DIVISION HIGHLIGHTS

The value of the collection was once again proven as it provided material for another new technique that provided an approximation of the latitude (or altitude) at which a bird nested. It appears that the stable isotopes of hydrogen (H2/H1) occur in a gradient with latitude, and they are incorporated into the growing feathers. Thus museum specimens retain the latitudinal signature for those birds that molt prior to migration, and for immature birds!

Dr Eleonora Trotter is in the processes of preparing a teaching collection for the Sevilleta LTER field station.

Our series of known aged Whooping Cranes now consists of 12 birds ranging in age from one day to 2 1/5 years.

2. TABLE OF COLLECTIONS USE

<table>
<thead>
<tr>
<th>Collections Growth</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Info</th>
<th>Publicat.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>615</td>
<td>20</td>
<td>6</td>
<td>27</td>
<td>15</td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTION

110 Biology for Non-majors
379 Conservation Biology
386 General Vertebrate Zoology
455 Ethology
486 Ornithology

4. COLLECTIONS MANAGEMENT

We are current with cataloging and computerization of the collection. A major push was made to work on our backlog of uncleaned skeletons, and the freezer is 75% empty!

5. AWARDS AND GRANTS

Graduate Students:

Julie Hagelin
PhD. "Sexual selection, plumage ornamentation and behaviour of Gambel's and Scaled Quail"
Spring 1999. J.D. Ligon advisor.

Timothy H. Parker
Inheritance of parental condition separated from differential maternal investment in Red Junglefowl. American Ornithologists' Union, Research Award. $1,900
Inheritance of parental condition separated from differential maternal investment in the Red Junglefowl. Sigma Xi, Alexander Bache Fund (??) $700

Robert W. Dickernam
Received one of six awards given by the Neotropical Ornithological Congress and conservationists and ornithologists of Mexico for his contributions to Mexican ornithology (October 1999).

Received a "Museum Appreciation Award" from the University of Alaska Museum (June 2000).

J. D. Ligon.
Inheritance of paternal condition separated from differential maternal investment in Red Junglefowl. Dissertation Research (for Timothy H. Parker) National Science Foundation IBN-0073995. $6,750

6. PUBLICATIONS


7. ACTIVITIES IN LEARNED SOCIETIES

Dickerman, R.W. attended the annual meeting of the American Ornithologists' Union in Ithaca, New York (August 1999), and the VI Neotropical Ornithological Congress in Monterrey, Mexico (October 1999).
Hagelin, Julie, and J.D. Ligon presented a paper at the annual meeting of the American Ornithologist's Union in Ithaca, New York (August 1999).

8. OTHER PROFESSIONAL ACTIVITIES

Papers refereed:

Dickerman, R.W. Ornithologia Neotropical (1)

Ligon, J. D. Behavioral Ecology and Sociobiology 1; Behavioral Ecology 1; Wilson Bull. 1; and Biological Conservation 1.

Other:

Dickerman, R.W.
Participated with personnel from the University of Alaska Museum in collecting birds On Kodiak Island (May), and in the Queen Charlotte Islands (British Columbia), June, 1999. Recent unreported previous trips were to Attu, September 1997, and August/September 1998.

Ligon, J. D.
Peer Review Panel for NM Dept. Game and Fish: Report on recommendation to list the Lesser Prairie Chicken a State endangered species.

Talk: UNM Valencia Campus: "Sexual selection and mating systems in birds."

Workshop: Santa Fe school teachers, "Teaching about birds/natural history to kids."

9. DONATIONS AND GIFTS RECEIVED

10. CURRENT STAFF

   Dr. J. David Ligon, Curator of Ornithology
   Ms. Jennifer A. Hill, Graduate Student, Curatorial Ass.
   Mr. Timothy H. Parher, Graduate Student,

   Ms. Lee Harley, Work Study
   Mr. Richard Immell, Work Study

11. MUSEUM ASSOCIATES

   Dr. Robert W. Dickerman, Curatorial Associate and Co-Curator
   Dr. John P. Hubbard, Curatorial Associate
   Dr. Eleomora H. Trotter, Research Associate
   Mr. Richard S. Crossin, Research Associate
1. DIVISION HIGHLIGHTS.

The MSB Division of Fishes currently has 45,134 catalogued lots of fishes, a total of 2,248,516 specimens. Adult fishes, eggs and larvae were acquired from the ongoing projects of Thomas F. Turner, Curator and Steven P. Platania, Associate Curator. Turner’s projects include: comparative study of the life history and demographics on the ratio of genetic effective population size to census size in Rio Grande fishes, the Procheilodus complex of the Venezuelan Los Llanos, a stable isotope study (with Melanie Edwards) of Rio Grande fish communities using museum collections, hybridization study (with Megan McPhee) of the Rio Grande sucker, Pantosteus plebeius, and studies (with Dominique Alo) on the Etheostoma (darter) complex.

Platania’s projects include: Hybognathus amarus or the Rio Grande silvery minnow population monitoring, a habitat study of the Chama River fishes which included large collections of fish tissues for the Environmental Protection Agency monitoring program (vouchers held by the MSB), population monitoring and drift studies of Ptychocheilus lucius (Colorado pike minnow) and Xyrauchen texanus (razorback sucker) of the San Juan River.

A National Science Foundation Biological Research Collections grant of $172,000 was awarded in March 2000 to Thomas F. Turner, PI and Steven P. Platania and Alexandra M. Snyder, Co-Pis. This grant will be used to reorganize, improve and relocate the collection of fishes. The NSF also provided funds for three summer REU students, one Curatorial Assistant position and a half-time project/program manager position dedicated to moving the collection.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth</th>
<th>Outgoing Transactions (Loans, gifts, transfers)</th>
<th>Incoming Transactions (Loans, gifts, transfers)</th>
<th>Researchers visiting the collection</th>
<th>Requests for information &amp; collection data</th>
<th>Publications citing MSB Division of Fishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Gifts, Exchanges, Expeditions)</td>
<td>12 transactions 603 specimens</td>
<td>3 transactions 118 specimens</td>
<td>12</td>
<td>32</td>
<td>4</td>
</tr>
</tbody>
</table>

* Numbers based on cataloged specimens only. Current Backlog: 1245 lots 47,321 specimens

3. COURSES USING THE COLLECTIONS.

BIOL 386. General Vertebrate Zoology. Fall 1999 and Spring 2000 T.F. Turner, Assistant Professor. Total of 80 students. Collection Manager assisted in labs on fishes by helping TA select appropriate teaching collection examples and explaining basic fish phylogeny.

4. COLLECTION MANAGEMENT. The Division of Fishes “processed” 126,200 specimens of New Mexico fishes this year. “Processing” means that the specimens were collected in the field, fixed in formalin and transferred through a series of ethanol concentrations, sorted and identified to species in the lab, recorded in the electronic
catalogue/database, labeled and shelved in the fish collection room. One seine haul or collection of fishes, taken from the field to the collection room, takes an average of 4 staff persons to process and an investment of $5.00 in supplies (jars, lids, chemicals, field equipment, field vehicle) per collection. Based on last year's work (2,209 lots or 126,200 specimens) it cost approximately $11,045 to provide supplies and equipment to process these specimens.

Three undergraduate students were employed as part of the NSF Research Experiences for Undergraduate Students program, awarded to the Division in March 2000. These students were instrumental in preparing the collection for relocation to the new facility in December. The following tasks were accomplished: organizing, cleaning, realcoholing and boxing up 9,000 screw top jars of specimens; reorganizing, cleaning, realcoholing and replacing all gaskets on jars for approximately 27,000 lots of fishes (lots of fish eggs and larvae or 9,000 more lots were already curated); tagging, labeling and reorganizing all tank specimens (oversized specimens of fishes stored in old crocks) into new tanks for relocation to new facility; relabeling and realcoholing the collection of fishes in the MSB Teaching Collection (approximately 200 jars); assisted in field work by collecting fishes for two studies in population monitoring of threatened species of fishes (Rio Grande and San Juan River).

5. AWARDS, GRANTS, AND CONTRACTS.
Thomas F. Turner, Curator of Fishes
Pending National Science Foundation. A comparative study of life history and demographic effects on the ratio of genetic effective population size to census size in Rio Grande fishes. $375,182


2000 National Science Foundation. Biological Research Collections: Improvements to the Museum of Southwestern Biology (MSB) Fish Collection, Phase I: Relocation and Reorganization: REU supplement. $10,000


1999 National Geographic Society. Genetic studies of highly migratory fishes of the llanos in Venezuela. K. Winemiller PI/PD, T. Turner (one of five Co-PIs) $16,000

1999 New Mexico Dept. Game and Fish. Temporal genetic variation and the effective population size of the silvery minnow, $7,000.

Steven P. Platania, Assoc. Curator and Alexandra M. Snyder, Collection Manager
1992/01 U.S. Bureau of Reclamation Cooperative agreement for San Juan River recovery implementation program seven year research plan (No.2-FC-40-12140) $798,238
1999/01  New Mexico Department of Game and Fish. *Pecos pupfish life history study* $80,000

2000/02  National Science Foundation. *Biological Research Collections: improvements to the Museum of Southwestern Biology (MSB) Fish Collection, Phase I: Relocation and Reorganization.* T.F. Turner, PI/PD $162,077

6. PUBLICATIONS.

A. Publications by Museum staff, students and associates.


Propst, David L. 1999. Threatened and endangered Fishes of New Mexico. Technical Report No. 1, New Mexico Department of Game and Fish, Santa Fe NM 84pp. Illustrated by


B. Publications and reports based on museum specimens by researchers excluding Museum staff, students and associates.


7. ACTIVITIES IN LEARNED SOCIETIES.

A. Invited or plenary talks

Thomas F. Turner, Curator
March 2000 at the University of Oregon, Eugene Life history, demography, and the genetic effective population size in fishes.

May 2000 at Ohio University, Athens Is there a simple relationship of life history, demography, and genetic diversity in fishes?

B. Contributed talks or posters.

80th Annual Meeting of the American Society of Ichthyologists and Herpetologists (ASIH) 14 to 21 June 2000 Universidad Autonoma de Baja California Sur, La Paz B.C.S. Mexico


9th Annual UNM Department of Biology Research Day, Albuquerque New Mexico 7 April 2000

Alo, D. and T.F. Turner, Patterns of evolution in the orangebelly darter, Etheostoma radiosum.
C. Attendance at professional meetings.

80th Annual Meeting of the American Society of Ichthyologists and Herpetologists (ASIH) 14 to 21 June 2000 Universidad Autonoma de Baja California Sur, La Paz B.C.S. Mexico

Alexandra M. Snyder
Thomas F. Turner

D. Service as editor or on editorial board of a journal. NONE

E. Service as officer of professional society or organization.
Alexandra M. Snyder Chair for Subcommittee on Curatorial Supplies and Practices, American Society of Ichthyologists and Herpetologists (ASIH)

8. OTHER PROFESSIONAL ACTIVITIES.

A. Seminar or colloquium presentations. NONE

B. Presentations in a scholarly capacity at hearings, workshops, legislative committees, etc.
Robert K. Dudley and Steven P. Platania
U.S. Army Corps of Engineers: status report Rio Grande silvery minnow
U.S. Bureau of Reclamation: status report Colorado pike minnow and razorback sucker
U.S. Fish and Wildlife Service: status Rio Grande silvery minnow and Pecos pupfish

C. Presentation to general audience in a scholarly capacity. NONE

D. Service in a scholarly capacity as a member of a local, state, regional or national committee, panel etc.

Thomas F. Turner

Reviewer. National Science Foundation, Systematics Program 2 proposals

E. Journal referee. List journals and number of papers refereed by each division member in alphabetical order.

Steven P. Platania 3 papers
Copeia, Journal of the American Society of Ichthyologists and Herpetologists

Thomas F. Turner 13 papers
Copeia, Journal of the American Society of Ichthyologists and Herpetologists 5 papers
Journal of Heredity 2 papers
Marine Ecology Progress Series 2 papers
Canadian Journal of Fisheries and Aquatic Sciences 3 papers
9. SERVICE.

A. Symposia, workshops, conferences, etc. sponsored, organized, held etc.
NONE

B. Public Service.

Steven P. Platania
Inquires regarding New Mexico fish species distributions and life history

Alexandra M. Snyder
Data manager for American Society of Ichthyologists and Herpetologists database on Supplies and Practices; responsible for all inquiries regarding curatorial practices and supplies for collections of fishes, amphibians and reptiles (12 questions, average of 30 minutes each); inquiries regarding animal identification, care and behavior (31 questions, average 20 minutes each); provided photocopies of relevant articles on fishes for APS teachers and 50 ½ liter jars and gaskets (gratis) for the New Mexico Museum of Natural History. Estimated cost for supplies and photocopies: $100.00

10. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.
NONE

11. DONATIONS AND GIFTS RECEIVED. (lots/specimens)
ACC2000-IV:19 New Mexico Department of Game and Fish Pantosteus discobolus yarrowi (3/46)
ACC2000-VI:27 G. Schiffmiller, Department of Environment NM Santa Fe River fishes (4/12)

12. FY98/99 MSB Division of Fishes Staff

Thomas F. Turner, Curator of Fishes
Steven P. Platania, Associate Curator of Fishes
Alexandra M. Snyder, 0.50 FTE Collection Manager, San Juan River Research Assistant, and Program Manager for NSF grant
Sara J. Gottlieb, Data Manager for San Juan River Research and MSB Division of Fishes
Robert K. Dudley, Biostatistics and Project Leader
W. Howard Brandenburg, Taxonomic Services and Museum Assistant
Michael A. Farrington, Field Crew Leader (Pecos pupfish study) and Taxonomic Services
Don E. Gibson, Field Crew Leader (San Juan River drift study) and Museum Assistant
Joshua R. Walters, Field Crew member for all projects and Museum Assistant
Conner McBride, San Juan River Field Crew member
Roman Romero, San Juan River Field Crew member
Joash Schumpelt, Undergraduate Curatorial Assistant
Kari L. Torres, REU Curatorial Assistant
Brian Tonhika, REU Curatorial Assistant
Justin Martin, REU Curatorial Assistant

T.F. Turner Students:
Melanie Edwards, Graduate Student PhD
Dominique Alo, Graduate Student, MS
Megan McPhee, Graduate Student, PhD
13. MUSEUM ASSOCIATES.

Brooks M. Burr, Professor of Zoology, Southern Illinois University, Carbondale
Astrid Kodric-Brown, Professor of Biology, University of New Mexico, Albuquerque
David L. Propst, Ph.D. Endangered Species Program, New Mexico Department of Game and Fish, Santa Fe
1. DIVISION HIGHLIGHTS

The vascular plant holdings of the herbarium now exceed 97,300 specimens. Funding from the Native Plant Society of New Mexico was used to hire a student for continuing database computerization. Efforts are concentrating on data-basing and nomenclatural updates. There are now more than 43,800 specimens cataloged in FileMaker Pro 4.0 (~45%).

Herbarium faculty and staff are continuing work on a Checklist of the Flora of the Sevilleta National Wildlife Refuge. Collecting, identification and processing continue on this project.

Herbarium staff, students, and museum associates are pleased to be major contributors in the New Mexico Rare Plant Technical Council's web site New Mexico Rare Plants. New Mexico Rare Plants (http://nmrrareplants.unm.edu) is an online publication that provides land managers and botanists in the state with current and accurate information about rare plants. Approximately 70% of reports have made final editing and the remaining 30% should be completed by the end of summer.

The NMRP web site has made major gains this year in producing more than 600 web pages, which include species descriptions, photos, illustrations and distribution maps for 190 rare plant taxa. Most of the photographs have been scanned and linked to the reports. About 30% of the distribution maps have been created and linked to the reports. The herbarium houses the server and herbarium staff and students oversee web site creation and administration. In addition, herbarium staff have created and maintain the web site for the Native Plant Society of New Mexico (http://npsnm.unm.edu).

TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors (researcher/public)</th>
<th>Info Requests</th>
<th>Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,700</td>
<td>25/740</td>
<td>12/439</td>
<td>259/105</td>
<td>~175</td>
<td>11</td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTIONS

BIOL 463L Flora of New Mexico (~48 students) specimens, facilities and staff participation
BIOL 360L General Botany/Lab (~30 students) specimens from teaching collection are used
BIOL 461 Introduction to Tropical Biology (~18 students) facilities, staff participation

4. COLLECTION MANAGEMENT

Herbarium staff processed more than 1700 specimens into the collection. Specimen processing now concentrates on accessions from the 1999 and 2000 calendar year. A small grant from the Native Plant Society of New Mexico aided efforts to computerize the collection. Work continues in data processing and more than 6,200 records were entered during the past fiscal year. Data from approximately 43,800 specimens are now in the computer database, approximately 45% of the holdings. Several large plant families along with 25 smaller families have been entered in the database.
As data-basing proceeds, efforts continue on updating the nomenclature as specimens are entered. To insure the long-term preservation of the collections, we continue to replace worn and acidic genus folders in the collection. Worn gaskets were replaced with archival quality silicon sponge stripping in 10 herbarium cabinets.

A significant donation from the LTER program included three long-arm Nikon dissecting scopes and 29 herbarium cabinets.

The entire LTER herbarium collection (~800 specimens) came to UNM to be processed and cataloged in the UNM database then subsequently returned in labeled acid-free folders. This is an ongoing project to ensure that herbarium specimens collected by Sevilleta students and staff meet adequate standards of collections care and preservation.

A web version of Collection Managers Online (CMO), an international directory of museum personnel was created and is maintained by Herbarium staff. The CMO contains the names, addresses, and linked e-mails and URLs for more than 300 collection managers.

5. AWARDS, GRANTS, AND CONTRACTS. List grants applied for and received. Include PI(s), grant title, agency, duration, and award amount. List alphabetically by PI. Please categorize under the following headings: Students, Staff, Faculty, Post-docs, Associates

Students:

Staff:

Mygatt, J.E.
Computerization of the University of New Mexico Herbarium. J. Mygatt, PI. Native Plant Society of New Mexico, February 2000. $1000.

Employee and Organizational Development. Requested funds to attend the Society for the Preservation of Natural History Collections annual meeting in Halifax, Nova Scotia for July 2000. $300.

Faculty:

Lowrey, T.K.

Relocation and Compactorization of the Museum of Southwestern Biology T.K. Lowrey, PI. National Science Foundation August 1, 1997-present. $313,000.


6. PUBLICATIONS

A. Publications by museum staff, students and associates.
Newsletters:


Books:

Reports:

Journal Articles:


Web Publications:

Mygatt, J.E.
New Mexico Rare Plants web site (http://nmrareplants.unm.edu)

Native Plant Society of New Mexico web site (http://npsnm.unm.edu)

Collection Managers Online (CMO). International e-mail directory of more than 350 collection managers throughout the world, available on the UNM Herbarium homepage (http://www.unm.edu/~museum/herb/cmo.htm)

UNM Herbarium web site (http://www.unm.edu/~museum/herb/herb.htm)

Museum of Southwestern Biology home page (http://www.unm.edu/~museum)
B. Publications and reports based on museum specimens by researchers excluding museum staff, students and associates.


7. ACTIVITIES IN LEARNED SOCIETIES

A. Invited or plenary talks.
B. Contributed talks or posters.
C. Attendance at professional meetings.

Carter, Jack L.
Lowrey, Timothy K.
Mygatt, Jane
Sivinski, Robert C., President
Tonne, Phil

D. Service as editor or on editorial board of a journal.

E. Service as officer of professional society or organization.

**Mygatt, J.E.**
Web editor. New Mexico Rare Plants. Authored 9 rare plant reports for the NMRPTC.
Web editor. Native Plant Society of New Mexico.

**Lowrey, Timothy K.**
President-Elect, International Organization of Plant Biosystematists.

**Sivinski, R.C.**
Vice-President of the Native Plant Society of NM
Chair of the New Mexico Rare Plant Technical Council: Organized the annual meeting of the NM Rare Plant Technical Council, March 2000; Authored 40 rare plant reports for the NMRPTC.
8. OTHER PROFESSIONAL ACTIVITIES.

A. Seminar or colloquium presentations.
B. Presentations in a scholarly capacity at hearings, workshops, legislative committees, etc.
C. Presentation to general audience in a scholarly capacity.
D. Service in a scholarly capacity as a member of a local, state, regional or national committee, panel.

_The New Mexico Rare Plant Technical Council_

Lowrey, Timothy K.

Mygatt, Jane

E. Journal referee. List journals and number of papers refereed by each division member in alphabetical order.

9. SERVICE.

A. Symposia, workshops, conferences, etc. sponsored, organized, held etc.
B. Public Service.

**Lowrey, Timothy K.**
Department Committees: Salary, Staff Advisory, Greenhouse, Associate Chair of Biology, Director, Museum of Southwestern Biology

Departmental committees: Space, Staff Advisory, Greenhouse, Faculty Search Committee: Ichthyologist/Curator of Fishes, Faculty Search Committee: Systematist/Phylogeneticist, Museum Administration Committee

University committees: Academic Freedom and Tenure, Investigative sub-committee, Vice-President for Research Committee on Libraries

**Mygatt, Jane**
Web editor of Collection Managers Online (CMO) an international directory for collection managers of natural history collections.
Web editor of the Native Plant Society of New Mexico
Web editor New Mexico Rare Plants web sites.
Departmental Committees: Greenhouse

10. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

11. DONATIONS AND GIFTS RECEIVED.

1999.02 B. Sivinski 4 specimens
1999.12 J. Carter gift 54 specimens
1999.15 J. Hubbard gift 13 specimens
1999.16 NMC gift 13 specimens
1999.17 T.K. Lowrey gift 10 specimens
1999.18 NNHP D. Roth gift 1 specimen
1999.20 J.M. Stewart gift 2 specimens
1999.21 LTER existing herbarium
1999.22 I. Bezpalko gift 1 specimen
1999.23 DeWitt Ivey gift 229 specimens
1999.24 P. Barlow-Irick gift 1 isotype specimen
1999.25 MSB P. Polechla gift 25 specimens
1999.26 C. Keller gift 1 specimen
1999.27 TRC N. Kastning 150 specimens
1999.28 LTER new accessions
1999.29 T.K. Lowrey/C. Quinn gift 2 specimens
1999.30 Morton Arboretum gift 3 specimens
2000.01 P. Tonne & B. Sivinski gift 5 specimens
2000.02 UTEP gift 1 specimen
2000.03 Louis Berger Inc. D. Kennemore gift 57 specimens
2000.04 ISTC S. O'Kane gift 1 isotype
2000.05 NMNHP Y. Chauvin gift 20 specimens
2000.06 J. Ladyman gift 35 specimens
2000.07 B. Sivinski gift 10 specimens
2000.08 B. Hevron gift 4 specimens
2000.09 NMNHP S. Wood gift 300 specimens

12. CURRENT STAFF. List faculty, staff, students and volunteers

**Faculty and Staff**
Timothy K. Lowrey, Curator and MSB Director
Jane Mygatt, Collection manager

**Graduate students**
Patricia Barlow-Irick
Laura Boykin
Christopher Frazier
Paula Hall (graduate herbarium assistant)

**Student employees**
Jennifer Agosta (work-study employee)

13. MUSEUM ASSOCIATES

**Curatorial Associates**
David L. Bleakly, M.S. Botanical Consultant, NM floristics.
William Dunmire, M.S. Author, Ethnobotany of the Southwest.
Robert DeWitt Ivey, M.S. APS (retired): Botanical Author, NM floristics.
Robert C. Sivinski, M.S. Botanist, Forestry & Resources Conservation Division.

**Research Associates**
Jack L. Carter, Ph.D. Professor Emeritus of Biology, The Colorado College
Daniel J. Crawford, Ph.D. Professor of Plant Biology, Ohio State University
William Hevron, M.S. Botanical Consultant. NM floristics
Denis M. Kearns, Ph.D. Plant ecologist, consultant
Charles Keller, Ph.D. Director, Institute of Astrophysics, Los Alamos Scientific Labs
Paul Knight, M.S. Marron and Associates. NM floristics, T&E species
Juanita Ladyman, Ph.D. Botanical Consultant
Louise Lewis, Ph.D., Department of Biology, UCONN
Paul O. Lewis, Ph.D., Department of Biology, UCONN.
Esteban Muldavin, Ph.D. Ecologist, New Mexico Natural Heritage Program
Christopher Quinn, Ph.D. University of New South Wales
Phil Tonne, M.S. Botanical Consultant. NM floristics
Alan Tye, Ph.D. Charles Darwin Research Station
I. DIVISION HIGHLIGHTS.

The Curator, Dr. Terry Yates, took an assignment as Division Chief at the National Science Foundation, in Washington, D.C., that is hoped will last only until March 2001. After this term is completed, it is hoped that Dr. Yates will return to the Division.

We have also endured a cramped and declining collection facility long enough! After numerous “move-in” dates, it seems that 10 December will be moving day where we will be moving the over 300 packed museum cases over to the new museum facility. The division is moving the entire collection (dry and wet) and occupying office space for the collection managers. A new library room will house the Kirkland collection as well as the numerous journals and books already owned by the division. Preparation, storage, chemical, and other areas of the division will be completed during Phase II of the renovation.

We received approximately 3000 volumes of books and journal from the estate of Gordon Kirkland. Gordie, a curator at Shippensburgh University in Pennsylvania, was a long-time friend of many in the division and we were saddened by his death to cancer this year. The library of material that he donated will be prominent in the new building space.

The division spent much of the time this year planning - mostly waiting - for the move to occur. Despite this thumb-twirling, we managed to catalog 4100 specimens, published 23 papers, submit 24 grants for ca. $4 million ($3.8 million for Yates, about $300,000 for the rest of us) and teach classes and train/mentor students. As in past years, the projects driving this activity included the Hantavirus research (and other, related emerging viruses projects to Mongolia, Bolivia, and Panama -see below), the Long-term Ecological Research Project at the Sevilleta (Mike Friggens managed two 4 person field crews), and the New Mexico Bat Project. Several major grants were awarded (see Grants and Awards below), and the number of grant-funded staff increased. The web site was re-vamped and moved to a new server (http://talpa.unm.edu/).

Several grants sponsored student activity in the division including the NASA funded mentorship program (four students) and McNeil Program that assisted three minority undergraduates. All these students strived to present their studies at a scientific meeting and to publish their work in a peer-reviewed journal.

Current and planned research within the Division:

As curator and directing the progress of the division, Dr. Yates' research program is multi-disciplinary in nature but has been focused primarily on systematics, emerging diseases, and biological diversity. Much of his most recent work has been centered within questions involving the mammalian diversity, in particular centered on systematics and ecology of South American rodents and in emerging viruses globally. As a co-PI with the LTER project, his research group on the Sevilleta is focusing on climate and productivity driven controls on mammalian populations and the degree to which fluctuations in population density affect levels of infection by Hantavirus. Additional support for the latter research has been awarded to his
program by the CDC, NIH, and NSF. A separate grant from the National Biological Service to examine the effects of climate change on small mammal populations on mountain tops has continued this year and has allowed the addition of an altitudinal component to this research. Other projects include bat surveys (using echolocation detectors), fur-bearer study, and a revised *Mammals of New Mexico* book.

The Mongolia trip: Sponsored by the NSF, this trip had several goals but the main objective of setting the stage for developing a Long Term Ecological system in the country. Mongolia, because it central location at the very heart of mainland Asia would be a very welcomed addition to the ILTER (International Long Term Ecological Research sites) initiative. The trip (June – July 1999) was in collaboration with the National University of Mongolia (NUM) at Ulaan Baatar where two senior scientist acted as our direct national counterparts: Dr. Sumiya Ganzorig and M.Sc. Nyumsureg Batsaikhan. Our main objective was to establish a set of rodent monitoring webs (modeled after our own at the Sevilleta and the Longitudinal Studies of hantavirus). Our counterparts choose a National Park just north of Ulaan Baatar, near to a Field Station that belongs to NUM’s for the establishment of the first set of webs. At least 30 undergraduate and 2 graduate students from NUM participated of this activity. After this task was accomplished, several other localities in the country were visited and surveyed for small mammals. This was accomplished so alternative and potential sites were identified with the idea of developing a large scale set of ILTER sites.

The trip to Panama (Dec 99-Jan00) was in response to a HPS (Hantaviral Pulmonary Syndrome) outbreak that killed three people and threatened several thousand more. The UNM team, was part of a larger contingent of the CDC – Atlanta and left in charge of rodent trapping both around case-houses and natural habitats. Specimens were brought to New Mexico and cleaned, identified and cataloged. Our studies show that two different rodent groups carry two different sets of hantavirus but only of them is a human pathogen.

The Bolivia field trip (May – June 00) was an activity whose objective was to finely determine the distribution ranges of the two species of *Calomys* that have been involved in the harborage and transmission of Bolivian haemorraghic Fever. Some 500 specimens were collected along the road that connects the capital cities of Beni and Santa Cruz departments in Bolivia. Genetic data shows that the Beni species is different from the one in Santa Cruz and the limits are to be better understood with the data we collected in this trip.

2. TABLE OF COLLECTION USE.

<table>
<thead>
<tr>
<th>Collection Growth</th>
<th>Accessions</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th># Visitors</th>
<th># Data Requests</th>
<th># of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>4102</td>
<td>51</td>
<td>31/612</td>
<td>5/215</td>
<td>143/702</td>
<td>800</td>
<td>23</td>
</tr>
</tbody>
</table>

The collection grew less this year than last (4102 cataloged specimens versus 5350 in 1998-1999) and the number of incoming loans was very much less. This sort of reduction in activity is due to our preparation for the move. Staff have been spending much more time cleaning holdup specimens and installing cataloged material than actually cataloging or requesting loans of material here for examination. However, the number of visitors and data requests increased. Visitors ranged from the usual researcher examining a specific group or
species of mammal (*Neotoma* cranial variation) to archaeofaunal analyses, to science classes and other educational groups.

3. **UNM COURSES USING THE COLLECTIONS.** List the courses including; course number, approximate number of students enrolled, type of use (specimens, facilities, staff participation, etc.).

   - Biology 121: Principles of biology
   - Biology 122: Principles of biology
   - Biology 386: General vertebrate zoology
   - Biology 402/502: Adv Vertebrate Biology
   - Biology 489: Mammalogy
   - Biology 554: Advanced Mammalogy
   - Art 412: Museum management
   - Anthro 449: Paleontology

   The following courses used the collection extensively as part of their course work:
   - Biology 489: Mammalogy - 21 students (2000; 8 are graduate students)
   - Biology 502: Advanced vertebrate biology - 20 students
   - Biology 502: Topics in Chromosomal Evolution - 6 students
   - Biology 651: Advanced Field Biology - 3 students
   - Biology 512: Population Biology - 14 students
   - Biology 554: Mammalian Ecology and Behavior - 14 students

4. **COLLECTION MANAGEMENT.**

   The Division manages its 130,000 specimen records using Microsoft® Access©. After a major re-write of the database management system the Access© program has now set the stage to expand to web site posting or network information transfers between divisions of the MSB or among mammal collections at other institutions. We have participated in a proposal to link 18 mammal collections (MaNIS) which has been re-submitted for funding this month. We also benefit from being a participant in the KDI initiative that will allow distributed queries to be sent to participant collaborators for cross-cutting ecological questions.

   Interesting accessions included wolves from the captive-release program on the AZ-NM border. The division is the depository for all wolf mortalities. One such accession was an animal that had been shot, another was apparently hit-by-care. We have noted to the USFWS that we mortalities occur it is imperative that they provide us with the specimen as quickly as possible and with all possible data. In the past we have received specimens in poor to rotten condition that make them useful only for a skeleton; foregoing all genetic and ecological data. They have responded to our needs.

   We continue to accept material from the Rio Grande Zoo and NM Department of Game and Fish. With the NMDGF, Dr. Greg Schmitt has been collecting foxes and mountain lions as part of an on-going management study. Aside from generating specimens, Greg is also working with Dr. Jerry Dragoo in examining genetic relationships. Dr. Paul Polechla’s fur-bearer study generated some interesting diversity of specimens from northern New Mexico. Dr. Bill Gannon’s
five years of surveying bats in New Mexico closed with some new county records among the
vouchers. Specimens generated from the mammalogy class (Fall 1998) have been cataloged and
installed. We also accepted a final accession of mounted heads and other wildlife exhibits from
Gloria Longley. We hope to use some of this bulky material around the new collection space.

In response to a request by WLG, the USFWS awarded $5600 to provide new cases to the
division to better house wolf specimens. We are trying to hold off on accepting these cases until
we move to the new building. We did receive 10 new Delta Designs cases (white, with drawers)
as part of a supplement we wrote to the LTER grant. Another 5 cases were delivered in
September 1999.

5. AWARDS, GRANTS, AND CONTRACTS. List grants applied for and received. Include
PI(s), grant title, agency, duration, and award amount. List alphabetically by PI. Please
categorize under the following headings: Students, Faculty, Post-docs, Associates.

Faculty:

**Terry L. Yates - PI:**

*Improvement of the Museum of Southwestern Biology’s Biological Materials Collections: A

Relocation and compactorization of the Museum of Southwestern Biology. Co-PI. National

*The Sevilleta LTER, Cycle II* NSF October 1994 - September 2000 $580,000

*Hantavirus Infections: Ecology, Immunity and Treatment* NIAID/NIH September 1 1996-
August 31, 2000 $281,977

*Longitudinal Studies of Hantavirus in SW US Rodent Populations* Indian Health Service
September 1996 - May 1999

$101,800

*Longitudinal Studies of Hantavirus in SW US Rodent Populations* CDC September 30 1996-
August 31, 1999

$191,500

*Relocation/Consolidation of the Research and Training Facility of the Department of Biology*
NSF

March 1997- May 31 1999 $960,000


$176,365

*Hantavirus Ecology and Disease in Chile* NIH/NIAID June 1 1999-May 31 2004 $621,840

*ICIDR Portable flow-through Amperometric Immunosensor Device for Fast Field
Immunoaanalysis of Rodent Virus*, NSF January 1998-December 2001 $167,500
Response of SW Mammal Communities to Global Climate Change  US Fish/Wildlife Service September 1998- September 2000 $50,000

Knowledge Networking of Biodiversity Information  KDI/KN NSF September 1 1998- August 31 2001 $660,000

Post-Docs:
Jerry W. Dragoo:
Examine the genetics and speciation questions with foxes (Genus Vulpes) in New Mexico. Cost-share project with the US Fish and Wildlife Service and the New Mexico Department of Fish and Game. 1997-1999. $20,000


New Mexico Game and Fish ($20000) to study population genetics of swift and kit foxes in New Mexico, using Microsatellite DNA analysis, 1998.

Luis A. Ruedas
National Geographic Society and Lubee Foundation: Mammal surveys of Sulawesi - $40,000

Jorge Salazar Bravo
Awards; elected student member of the Board of Directors (1999-2001)
Grants awarded (OGS, 1,000 to study specimens at Field Museum)

Students:
M. Scott Burt: Graduate research allocations (GRAC) and travel grant, department of Biology, UNM, 1998, $400 Morphological and genetic variation in the subspecies of Thomomys bottae in New Mexico, Student research allocations (SRAC), UNM 1998, $650

GRAC funding, $350.00; SRAC funding, $500.00; VPGRF award, $150.00

New Mexico Department of Game and Fish, Share with Wildlife, Morphological and genetic variation in the subspecies of Thomomys bottae, $4800, 1 June 1999 - 2000

Gabor Racz - Funded research to Hungary, summer 1999 and 2000

Staff:
William L. Gannon:


Awarded 1999. Wolf (Canis lupus baileyi) specimen management and housing. U. S. Fish and Wildlife Service, $10,000


Paul Polechla:

GRANTS PENDING
Pending (Gannon). 2000. Population dynamics, movements and relatedness of Townsend’s Big-eared Bat (Corynorhinus townsendii) seasonally inhabiting the Idaho National Engineering and Environmental Laboratory (INEEL) and nearby public lands. $27,400 US Forest Service and National Energy Labs

PUBLICATIONS. Categorize under the following headings: Books, Journal articles, Reports. List the entries alphabetically by author with the relevant museum personnel in bold if a multi-authored publication. NOTE: Publications listed below are only those that used specimens from the collection to prepare the paper. This listing does not represent the total number of papers published by division staff.

In Press:


**Journals:**


Technical Reports


7. ACTIVITIES IN LEARNED SOCIETIES.
A. Invited or plenary talks.


J. Dragoo. Microsatellite Variation in Swift/Kit foxes in New Mexico. Presented at the Southwestern Association of Naturalists Annual Meeting in Monterrey Mexico on 22 April 1999 by Kelby D. Willoughby.


D. Service as editor or on editorial board of a journal.
Bogan: Managing Editor, Publications of the Museum of Southwestern Biology
Gannon: Editorial Committee - Series Editor, Publications of the Museum of Southwestern Biology

E. Activities — service as officer of professional organization

**Burt:**
Member of Web committee, ASM
Organizing Committee, Southwestern Naturalists, April 1998

**Gannon:**
Chair, Systematic Collections Committee (American Soc. of Mammalogists), 1996 - present
Board Member, At-Large, Society for the Preservation of Natural History Collections, 2000 - present
member, Systematic Collections Committee (American Soc. of Mammalogists), 1992 - 1998
member, International Regulations Committee (Amer Soc. of Mammalogists), 1996 - present
member, Informatics Committee, (American Soc of Mammalogists), 1988 - present
Member, Main Campus Animal Care and Use Committee, UNM, 1990 - present
Organizing Committee, Southwestern Naturalists, April 1998

**Ruedas:**
International Relations Committee, American Society of Mammalogists
Committee for the Conservation of Land Mammals, American Society of Mammalogists
Program Committee, American Society of Mammalogists
*Ad hoc* Web subcommittee of the Information Retrieval Committee (ASM)
Organizing Committee (Co-chairman), Joint American Society of Mammalogists — European
Mammal Society — Spanish Society of Mammalogy Meeting; June 1998, Santiago de
Compostela, Spain.
Organizing Committee, Southwestern Naturalists, April 1998

**Salazar-Bravo:**
Board of Directors, ASM
Board of Directors, Soc. para el estudio de Ecologia en Bolivia.
International Relations Comm., Am. Soc. Mamm.
Systematic Collection Comm., ASM
Organizing Comm. SWAN 1998
Member, Argentine Soc. of Mammalogy
Member, Brazilian Soc. Mammalogy
Assoc. Editor, Ecologia en Bolivia

**Yates:**
Trustee, Southwestern Association of Naturalists, 1992 - present.
Trustee, American Society of Mammalogists, 1996 - present.
Research Assistant, Department of Wildlife and Fisheries Sciences, Texas A & M University, January 1973-May 1975.
Global Environmental Facility - World Bank - Biodiversity Subcommittee.
Latin American Biodiversity Committee - Smithsonian Institution.
Bio Task Force on Environmental Biology, The NSF.
Research Needs Committee - Ecological Society of America.
International Relations Committee, Chair, ASM.
Coordinating Committee for Latin American Exchanges Land use Committee
International Policy Committee
Grants Committee Latin American Institute
Academic Freedom and Tenure Committee
Council on the Americas
Main Campus Animal Care and Use Committee, Chair
Organizing Committee, Southwestern Naturalists, April 1998

8. OTHER PROFESSIONAL ACTIVITIES. List alphabetically under each category.
A. Seminar or colloquium presentations.

B. Presentations in a scholarly capacity at hearings, workshops, legislative committees, etc.

C. Presentation to general audience in a scholarly capacity.

D. Service in a scholarly capacity as a member of a local, state, regional or national committee, panel etc.

E. Journal referee. List journals and number of papers refereed by each division member in alphabetical order.

Gannon:
Journal of Mammalogy
Bat Research News
Southwestern Naturalist
Acta Chiropterologica

Ruedas:
Fieldiana (Zoology), New Series
Journal of Mammalogy
Proceedings of the Biological Society of Washington
Salazar-Bravo:
Acta Chiropterologica
Journal of Biogeography
Journal of Mammalogy
Occ. Papers of the Oklahoma Mus of nat. History
Ecologia en Bolivia
Mastozoologia Neotropical
9. SERVICE.

A. Symposia, workshops, conferences, etc. sponsored, organized, held etc


Gannon - Workshop on the operation of the Anabat bat detector system (with Chris Corben and Mike O’Farrell), Portal, AZ, May 2000


B. Public Service.


Judge, Regional Science Fair, 1988- present

Lecturer, Biology in a Nutshell, Rio Grande Zoo, talk to docents in training, June 2000

Yates


Elected Trustee, Southwestern Association of Naturalists.


Chair, Main Campus Animal Care and Use Committee, UNM

Chair, Department of Biology, University of New Mexico - 1 Aug 1995- 31 July 1999.

10. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC. List alphabetically under each division member.

11. DONATIONS AND GIFTS RECEIVED. List source and type (e.g., specimens, money, equipment, books, etc.)

700 rodent specimens from Dr. Troy Best, Auburn University;

300 head mounts from Gloria Longley, Albuquerque, NM

3000 books donated by the estate of Dr. Gordon Kirkland

12. CURRENT STAFF. List faculty, staff, students and volunteers.

Terry L. Yates Students:

Current graduate students:
Burt, M. Scott (for Ph.D.)
Cheng, Yi-ju (for Masters)
Dunnum, Jon (for Masters)
Friggins, Michael T. (for Masters)
Garcia, Andres (for Ph. D.)
Perry, Travis W. (for Ph.D.)
Racz, Gabor R. (for Ph.D.)
Suzan, Gerardo (for Ph. D.)
Tinnin, Dave S. (for Masters)
Thibault, Katherine (for Ph. D.)

Current Postdoctoral Associates:
Dragoo, Jerry W.
Ruedas, Luis A.
Salazar Bravo, Jorge

13. MUSEUM ASSOCIATES AND STAFF.

Curatorial Staff, Division of Mammals

Professional Staff
Terry L. Yates Curator - 1978 - present
Mike Bogan (Curator of Vertebrates, USGS) -
James S. Findley - Curator Emeritus
William L. Gannon - Collections Mgr, 1986 - present
Cindy Ramotnik-(Collection Manager, USGS)

Additional Staff (1999)
Leif Bang - WS-mammals
Anne Brown -(RGZ volunteer)
Aubony Burns - WS, bat project
Scott Burt, (Graduate Assistant Curator, Mammals)
Polly Campbell - GC Grant -
Peggy Case -(RGZ volunteer)
Roni (Yi-ju) Chen (MS student, Yates)
Jerry W. Dragoo (Res Asst Professor; Mephitologist, Genetics),
Jon Dunnnum, (Hanta Crew Chief) -
Brian Frank (Hanta Crew)
Mike Friggens -, (LTER field Coordinator)
Andrés Garcia, (Ph.D. student, Yates)
Andrea Gunderson - (WS, mammalogy),
Erin Jackson -(WS - mammalogy)
Erin McGwinn - WS, mammalogy
Marcia Piñeda (WS - mammalogy)
Carrie Pippin - (USGS)
Cheryl Parmenter (HV Data / intrmCM Biol Mat)
Paul Polechla -(Ph. D.; Hanta Crew),
Gábor Rácz -(PhD student - mammalogy, Yates)
JC Richardson - (Secretary, USGS),
Jerry Dragoo’s Postscript: “The popular media has picked up my research on skunks. I have been featured in local newspapers, radio stations, and television around the country and Canada. I have been featured nationally on NPR, ABC's webpage (twice - once a poll was taken to determine if I was Mad or Rad; 80% voted Rad!), People Weekly, Outside Magazine (twice), Discover Magazine, and Current Science (a science journal for children). Internationally, I have been featured in Nature Canada and have appeared on the television program Scientia in Brazil.” Everyone’s 15 mins of fame..
1. DIVISION HIGHLIGHTS.

Activities of the Arid Lands Field Station of the Midcontinent Ecological Science Center, Museum of Southwestern Biology, continued in three general areas: field studies, museum collections management, and reporting. Field studies included roosting habits of the big free-tailed bat in southeastern Utah (Bogan), mammals of the Henry Mountains, Utah (Bogan and Mollhagen), and continued baseline surveys for bats at Chaco Canyon and El Malpais national parks in New Mexico (Valdez). There was a significant increase in activities related to New Mexico’s two endemic lungless salamanders as a result of fires during early summer 2000. Ramotnik assisted in design and implementation of post-fire studies of the Jemez Mountain salamander, implemented a similar post-fire program on Sacramento Mountain salamander, and assessed populations of the Sacramento Mountain salamander in areas of the Scott Able burn in the Lincoln National Forest. In the area of Collections Management, Ramotnik continued to provide assistance and oversight of specimen preparation in Mammals and, with Pippin’s assistance, helped eliminate the backlog of USGS specimens awaiting cleaning and numbering and completing computerized specimen data entry for all USGS collections. Ramotnik also spent considerable time training and assisting work-study students and volunteers in improving their skills in skeletal processing, numbering, and maintenance of the beetle colony. Report writing included publication of 7 original articles in books and journals, completion of two final reports on Mexican long-tongued bats and salamanders and two annual reports on bat studies. Three websites were updated and maintained. Several staff attended scientific meetings and some made presentations on their work.

2. TABLE OF COLLECTION USE.

<table>
<thead>
<tr>
<th>Collection Growth</th>
<th>Loans outgoing</th>
<th>Loans incoming</th>
<th>Visitors</th>
<th># of Data Request</th>
<th># of Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>165 catalogued*</td>
<td>5/16</td>
<td>7/47</td>
<td>see MSB</td>
<td>22</td>
<td>7</td>
</tr>
</tbody>
</table>

* plus 25/380 accessioned

3. COURSES USING THE COLLECTIONS.

- Conservation Biology 25 students staff participation/lecture

4. COLLECTION MANAGEMENT.

- Continued to eliminate backlog in skeletal cleaning and numbering in USGS collections;
- current with specimen data entry for USGS collections;
• Collection Manager trained work-study students and volunteers (N = 11) in Divisions of Mammals and Birds in skeletal processing and numbering, maintenance of dermestid beetle colony; integrated pest management procedures, and replacement of case gaskets;
• managed the two dermestid bugging facilities (indoor and outdoor);
• continued work with university colleagues in development of guidelines and written protocols for procedures in the mammal collections;

5. AWARDS, GRANTS, AND CONTRACTS.

Faculty and Staff:

Baseline inventory of mammals and birds at Crescent Lake and North Platte national wildlife refuges. Michael A. Bogan Principal Investigators. Fish and Wildlife Service, Region 6, Denver. 100K, FY99-03.

Baseline inventory of amphibians, reptiles, and mammals at Aztec Ruins National Monument. Michael A. Bogan, Principal Investigator. Reimbursable agreement, National Park Service, $14K, FY00-02.

Baseline inventory of bats at Yucca House National Monument. Michael A. Bogan, Principal Investigator. Reimbursable agreement, National Park Service, $5K, FY00-01.


Impacts of global climate change on Chihuahuan Desert vegetation. Laura Huenneke, Principal Investigator, New Mexico State University. USGS Global Climate Change Program, $450K, FY92-99.

Predicted response of southwestern montane mammal communities to global climate change. Terry L. Yates, Principal Investigator, University of New Mexico. USGS Global Climate Change Program, $263K, FY94-00.


Curatorial upgrade of the U.S. Geological Survey biological collections at the University of New Mexico. Cindy A. Ranotnik, Principal Investigator. USGS, Midcontinent Ecological Science Center, Internal competition for redirected funds. $75K, FY98-02.

Post-doctoral Affiliates:

Predicted response of southwestern montane mammal communities to global climate change, Jennifer Frey, Postdoctoral Affiliate, University of New Mexico. USGS Global Climate Change Program, $263K, FY94-99.

6. PUBLICATIONS.

A. Publications by Museum staff, students and associates.

Book Chapters:


Journals:


Reports:


Websites:

Bogan, M. A. The potential effects of global change on bats. Electronic presentation in: Impact of climate change and land use in the southwestern United States, a workshop with comments, U. S. Global Change Research Program (http://geochange.er.usgs.gov/sw/)


B. Publications and reports based on museum specimens by researchers excluding Museum staff, students and associates.


7. ACTIVITIES IN LEARNED SOCIETIES.

A. Invited or plenary talks.

B. Contributed talks or posters.

Bogan: Southwestern Association of Naturalists Annual Meeting, Denton, TX. “Status of the Arizona water shrew in the White Mountains of Arizona.”

Cryan and Bogan: Southwestern Association of Naturalists Annual Meeting, Denton, TX. “Recurrence of the Mexican long-tongued bat at historical sites in Arizona and New Mexico.”

C. Attendance at professional meetings.

Bogan: Southwestern Association of Naturalist, Denton, TX.

Cryan: North American Bat Research Symposium, Madison, WI.

Ramotnik: Society for the Preservation of Natural History Collections, Halifax, N.S.

Valdez: North American Bat Research Symposium, Madison, WI.

D. Service as editor or on editorial board of a journal.

Bogan: Editorial Board, Occasional Publications and Special Publications, Museum of Southwestern Biology, University of New Mexico.

Ramotnik: Associate Editor, Collection Forum (Society for the Preservation of Natural History Collections).

E. Service as officer of professional society or organization.

Bogan: Colorado Bat Society: Regional representative; American Society of Mammalogists: Scientific Collections Committee.

Ramotnik: Society for the Preservation of Natural History Collections (SPNHC): Conservation Committee (Chair, Resources Subcommittee); Membership Committee; Publication Committee; Long-Range Planning Sessional Committee; SPNHC Council; and Member-at-Large.

8. OTHER PROFESSIONAL ACTIVITIES.

A. Seminar or colloquium presentations.
   Bogan: Research in the US Geological Survey. UNM Conservation Biology Class.

B. Presentations in a scholarly capacity at hearings and workshops. N/A

C. Presentation to general audience in a scholarly capacity. N/A

D. Service as a member of a local, state, regional or national committee, panel etc.
   Bogan: Member, New Mexico Black-tailed prairie dog management team.
   Bogan: Member, USDA-DOI pollinator team.

E. Journal referee.
   Bogan: Great Basin Nat. (3); Southwestern Nat. (3); Journal of Mammalogy (3)
   Ramotnik: Collection Forum (2).

9. SERVICE.

A. Symposia, workshops, conferences, etc. sponsored, organized, held etc. N/A

B. Public Service. N/A
10. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC. N/A

11. DONATIONS AND GIFTS RECEIVED.

- Colorado State University: mammal specimens
- U.S. Forest Service: mammal and bird specimens
- National Park Service: mammal and bird specimens
- New Mexico Department of Game & Fish: mammal specimens

12. CURRENT STAFF (99-00).

- Michael A. Bogan – Project Leader
- Paul M. Cryan – Wildlife Biologist
- Shauna Haymond – Wildlife Biologist
- Carrie Pippin – Museum Technician
- Cindy A. Ramotnik – Collections Manager
- J.C. Richardson – Office Manager
- Ernest W. Valdez – Wildlife Biologist

13. MUSEUM ASSOCIATES.

- Robert B. Finley, Ph.D., Boulder, CO.
APPENDIX E

ANNUAL REPORT:
MOLECULAR BIOLOGY FACILITY
The Molecular Biology Facility (MBF) at the UNM Department of Biology provides three principal areas of support. First, it is a common equipment facility for faculty and students who routinely use the tools of molecular biology in their research. Second, it is a support facility for faculty and students who do not have laboratory space of their own suitable for conducting research that uses the techniques of molecular biology. Third, the MBF provides support for several classes with teaching equipment, student training, and outreach to non-UNM organizations. All three roles are equally important and interdependent. The MBF is also utilized by faculty and students for both research and training from other College of Arts &Sciences Departments including Anthropology and Earth & Planetary Sciences and by investigators from the School of Medicine. Based on the data contained in this report, the MBF is arguably among the most heavily utilized units within the Biology Department outside of the main office.

Research highlights for the 1999-2000 fiscal year include:

- Based on data from the Office of Research Services, there are currently 26 active grants which utilize or depend on the MBF at UNM, totaling more than 5.45 million dollars.

- Based on a search of the SciSearch database maintained at the Los Alamos National Laboratory, there were 14 peer reviewed manuscripts published between July 1, 1999 and June 30, 2000 which reported research which was generated using the MBF.

The MBF's role in education and training in the Department and the community also continues to grow. Four courses taught within Biology (Biol. 220, 439, 446, and 478), one course taught in Anthropology (450/550) 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.
MOLECULAR BIOLOGY FACILITY AT THE UNM DEPARTMENT OF BIOLOGY

STAFF
Director: Robert D. Miller
Research Scientist/Manager: George H. Rosenberg

Teaching Assistants:
Kate Miska (Fall 1999, half time, Summer 2000)
Kathleen Kelly (Spring 2000)

Other:
Wade Wilson (Research Technician)
Janice Salazar (Work Study, Summer 2000)
Mark Horner (Work Study, Spring 2000)
Angela Costenza (Research Assistant Fall 1999)
August Goodman (Research Assistant, Fall 1999)

MAJOR EQUIPMENT ACQUISITIONS
Macintosh G4 Computer (purchased by funds from University Equipment Bond Fund)
iMAC Computer (purchased by funds from University Equipment Bond Fund)
Dell Precision 410 Workstation (purchased by funds from University Equipment Bond Fund)
HP 4500N Color Printer (purchased by funds from University Equipment Bond Fund)

USERS:
Faculty (21):
Barton, Cripps, Dahm, Duszynski, Faguy, Hofkin, Johnson, Kodric-Brown, Ligon, Loker,
Lowrey, R. Miller, Natvig, Nelson, Stone (Anthropology), Thornhill, Turner, Vogel, Wagner,
Werner-Washburne, Yates.

Adjunct or Part-time Faculty (6):
Coen Adema, Wendy Fuge, Gary Miller, Vickie Peck, Ana Perez, Peter Stacey

Postdoctoral Fellows (8)
Jerry Dragoo, Greg Saenz, Anne Hall, Ana Perez, Anna Colina, Michelle Baker, Siming Zhang,
Jess Morgan.
Graduate Students (26):
Dianna Northup, Claire Carpenter, Ken Barber, Pascale Leonard, Randy DeJong, Jerusha Reynolds, Laura Boykin, Kate Miska, Sergio Flores, Amy Powell, Bill Dvorachek, Suzanne Shoup, Harriet Plater, Hyojeong Kim, Kelly Howe, Pat Dolan, Dominique Alo, Megan McPhee, Gavin Conant, Allison Errett-Gold, Jorge Salazar-Bravo, Xiaomin Zhao, Kathleen Kelly, Christina Fridrick, Melissa Franklin, Cory Fincher.

Undergraduates (32)
Marco Molina, Mula Akbar, Phill Baker, Stryder Meadows, Megan Armstrong, Angela Costanzo, Mark Horner, Jose Weber, Brauer Tramwell, Christine Lovato, Cory Hillyer, Dief Martinez, Katie Grushalla, Nazario Young-Trujillo, Nick Brainhardt, Charles Keller, Joanna Bernacik, April Wright, Rachel Lundgren, Robert McCleese, Paula Lucero, Polly Campbell, Michael Perrine, Carolyn Hastings, Kelly Chavez, Erin Gonzales, Paul Romo, Gabriel Quinones, Jamie Reif, Julie Knight, Daniell Mignaco, Marta Strzyzski.

Visiting Scientists Using the Facility (3)
Jim Gayle (UNM School of Medicine, Dept. of Cell Biology and Physiology)
Mary E. Shaw (NM Highlands University)
Scott Synder, (University of Wisconsin, Oshkosh)

Research Staff (7)
Richard Plunkett, Tyanna Lovato, Sean Place, Lynn Hertel, Jenny Brown, Nick Barnhardt, Jenny Brown.

INSTRUCTION AND TRAINING
Formal Courses which used the MBF
Biol 220, Cell Biology Problems
Biol 446/546, Molecular Methods (Natvig and Cripps)
Biol 428, Human Heredity (Ken Sylvester)
Biol 478, Plant Physiology (Gordon Johnson)
Anthro 450 (550), Molecular Anthropology (Ann Stone)

Visitors:
1. Victor Peres-Luna, Post-doc, Chemical Engineering UNM
2. Jennifer Jacobs, Ph.D. student in Nuclear Engineering UNM, working with Dr. Faguy and is a Sandia Intern with Sandia scientist Bob Turman
3. Kim Luu, undergraduate from Puget Sound University, working as a summer intern with Sandia scientist Richard Griffths and Jennifer Jacobs
4. Dr. Mary E. Shaw, Sandra Diaz DeLeon, Levi Maes, and Jules Rir-sima-ah NM Highlands University.

Public Outreach
• Demonstration for Highland High School, Teacher Oni Leach and 18 students, at MBF on 4/25/00.
• M. Horner and G. Rosenberg visited Highland High School, arranged by Oni Leach, 5/9/00.
Other Training Programs

- NASA PURSUE Program (Gordon Johnson)
- NGP at UNM (Mary Anne Nelson)

SPONSORED PROJECTS WHICH USE THE MBF

Principal Investigator(s): Adema, Coenraad
Title: REU Supplement: Function and Diversity of Molluscan FREPs
Sponsor: National Science Foundation
Amount: $4,063
Project Period: 3/21/00-7/31/01

Principal Investigator(s): Adema, Coenraad
Title: Function and Diversity of Molluscan FREPs
Sponsor: National Science Foundation
Amount: $215,161
Project Period: 8/1/99-7/31/01

Principal Investigator(s): Cripps, Richard
Title: Genetic Analysis of Muscle Remodeling in Drosophila Melanogaster
Sponsor: Muscular Dystrophy Association
Amount: $110,084
Project Period: 1/1/99-12/31/00

Principal Investigator(s): Cripps, Richard
Kelly, Kathleen
Title: Regulation and Function of the Act 57B Gene in Drosophila
Sponsor: American Heart Association
Amount: $36,000
Project Period: 7/1/00-6/30/02
Principal Investigator(s): Cripps, Richard
Title: Molecular Genetic Analysis of Myogenesis in Drosophila
Sponsor: American Heart Association
Amount: $60,000
Project Period: 7/1/99-6/30/01

Principal Investigator(s): Duszynski, Donald
Title: The Coccidia of the World
Sponsor: National Science Foundation
Amount: $690,738
Project Period: 8/1/95-8/31/00

Principal Investigator(s): Loker, Eric
Title: Evolution of Schistosoma mansoni and its Snail Hosts
Sponsor: National Institute of Allergy & Infectious Disease
Amount: $488,969
Project Period: 4/1/99-3/31/01

Principal Investigator(s): Loker, Eric
Title: Evolution of Schistosoma mansoni and its snail hosts
Sponsor: National Institute of Allergy & Infectious Disease
Amount: $244,600
Project Period: 2/15/00-1/31/01

Principal Investigator(s): Miller, Robert
Title: REU Supplement: Immunoglobulin Genetics in Non-eutherian Mammals
Sponsor: National Science Foundation
Amount: $5,000
Project Period: 5/19/00-4/30/01

Principal Investigator(s): Miller, Robert
Title: Immunoglobulin Genetics in Non-eutherian Mammals
Sponsor: National Science Foundation
Amount: $110,000
Project Period: 5/1/00-4/30/01
Principal Investigator(s): Miller, Robert
Title: Research Opportunity Award (ROA) Supplement
Sponsor: National Science Foundation
Amount: $15,647
Project Period: 10/1/96-9/30/00

Principal Investigator(s): Miller, Robert
Title: REU Supplement to CAREER Award.
Sponsor: National Science Foundation
Amount: $5,000
Project Period: 12/31/97-9/30/00

Principal Investigator(s): Miller, Robert
Title: Immunological Development in a Marsupial -- Faculty Early Career Development (CAREER) Program
Sponsor: National Science Foundation
Amount: $322,585
Project Period: 10/1/96-9/30/00

Principal Investigator(s): Natvig, Donald
Title: Reproductive Genetics of Neurospora tetrasperma
Sponsor: National Science Foundation
Amount: $183,838
Project Period: 6/1/97-11/30/00

Principal Investigator(s): Natvig, Donald
Title: REU Supplement: Reproductive Genetics of Neurospora tetrasperma
Sponsor: National Science Foundation
Amount: $5,000
Project Period: 8/27/99-5/31/00

Principal Investigator(s): Nelson, Mary Anne
Title: REU Supplement: Neurospora Genome Project at UNM: Expressed Sequence Analyses
Sponsor: National Science Foundation
Amount: $24,600
Project Period: 2/1/99-1/30/01
Principal Investigator(s): Nelson, Mary Anne
Title: REU support: Developmental Regulation of Signal Transduction: Bcy1p in Stationary-Phase Yeast
Sponsor: National Science Foundation
Amount: $8,750
Project Period: 6/1/98-8/31/00

Principal Investigator(s): Nelson, Mary Anne
Title: The Neurospora Genome Project at UNM: Expressed Sequence Analyses
Sponsor: National Science Foundation
Amount: $338,124
Project Period: 2/1/99-1/31/01

Principal Investigator(s): Nelson, Mary Anne
Title: Developmental Regulation of Signal Transduction: Bcy1p in Stationary-Phase Yeast
Sponsor: National Science Foundation
Amount: $260,786
Project Period: 9/1/96-2/28/01

Principal Investigator(s): Thornhill, Randy Gangestad, Steven (Psychology)
Title: The Scent of Symmetry
Sponsor: Olfactory Research Fund, Ltd.
Amount: $42,808
Project Period: 5/1/98-10/30/00

Principal Investigator(s): Werner-Washburne, Margaret
Title: Study of Gene Expression in Non-Developing Yeast Cells
Sponsor: Sandia National Laboratories
Amount: $13,000
Project Period: 5/3/00-9/30/00

Principal Investigator(s): Werner-Washburne, Margaret
Title: The Role of Snz and Sno Proteins in the Yeast Saccharomyces cerevisiae
Sponsor: National Science Foundation
Amount: $110,000
Project Period: 9/1/98-8/31/01

Principal Investigator(s): Vogel, Kathryn
Title: Proteoglycan Structure, Metabolism and Role in Tendon
Sponsor: National Inst. of Arthrit./Musculoskel./Skin Dis.
Amount: $741,127
Project Period: 1/1/95-12/31/00

Principal Investigator(s): Yates, Terry, Koster, Frederick (Medicine)
Title: Hantavirus Infections: Ecology, Immunity and Treatment
Sponsor: National Institute of Allergy & Infectious Disease
Amount: $1,399,643
Project Period: 8/15/96-7/31/00

Principal Investigator(s): Yates, Terry
Title: Hantavirus Infections - Ecology, Immunity and Treatment
Sponsor: National Institute of Allergy & Infectious Disease
Amount: $93,419
Project Period: 8/1/99-7/31/00

Principal Investigator(s): Stone, Anne
Title: The Evolutionary History of the Genus Pan: A Molecular Investigation Using the Y Chromosome
Sponsor: National Science Foundation
Amount: $15,242
Project Period: 3/15/99-8/31/00

PEER REVIEWED JOURNAL PUBLICATIONS WHICH UTILIZED THE FACILITY
1. Adema CM, Hertel LA, Loker ES. 1999 Evidence from two planorbid snails of a complex and dedicated response to digenean (echinostome) infection. PARASITOLOGY 119:395-404


3. Belov K, Harrison GA, Miller RD, Cooper DW. 1999 Isolation and sequence of a cDNA coding for the heavy chain constant region of IgG from the Australian brushtail possum, Trichosurus vulpecula. MOLECULAR IMMUNOLOGY 36: 535-541


5. Belov K, Harrison GA, Rosenberg GH, Miller RD, Cooper DW. 1999 Isolation and comparison of the IgM heavy chain constant regions from Australian (Trichosurus vulpecula) and American (Monodelphis domestica) marsupials. DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY 23:649-656


11. Hnida JA, Duszynski DW. 1999 Taxonomy and systematics of some Eimeria species of murid rodents as determined by the ITS1 region of the ribosomal gene complex. PARASITOLOGY 119:349-357


13. Miska KB, Miller RD. 1999 Marsupial Mhc class I: classical sequences from the opossum, Monodelphis domestica. IMMUNOGENETICS 50:89-93

14. Snyder SD, Loker ES. 2000 Evolutionary relationships among the schistosomatidae (Platyhelminthes: Digenea) and an Asian origin for Schistosoma. JOURNAL OF PARASITOLOGY 86:283-288
APPENDIX F

FACULTY SCHOLARLY & PROFESSIONAL ACTIVITIES, CY 1999
I. TEACHING.

A. Graduate Education.

1. Masters degrees awarded.

BROWN, J.H.
Summer: Kevin M. Rich (non-thesis)

DAHM, C.N.

Fall: WILLIAM S. BARNES, "Senescence in the Bosque: Cottonwood Performance and the Role of Stream Flow in the Riparian Forests of the Middle Rio Grande." (Co-advised with Manuel Molles.)

PETER H. SKARTVEDT, "Response of Woody Riparian Vegetation to the Removal of Livestock in the Upper Mimbres Watershed, Southwestern New Mexico." (Co-advised with Manuel Molles.)

DUSZYNSKI, D.W.


LOKER, E.S.

Spring: KIRSTEN MEYER, "Characterization of Expressed Sequence Tags (ESTs) from the Colonial Tunicate, Botryllus schlosseri."

LOWREY, T.K.

Spring: PHILLIP TONNE, "Morphometric Analysis of Taxonomic Boundaries Between Erigeron pulcherrimus and E. bistiensis."

MILNE, B.T.

Fall: Sterling Grogan, M.S. II (non-thesis).

MOLLES, M.C., JR.

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SNELL, H.L.

Spring: Jennifer Brown, M.S. II (non-thesis).

2. Doctors degrees awarded.

BROWN, J.H.

Fall: ROBERT V. TAYLOR, “Population, Community and Biogeographic Ecology of Avian Species.”

Spring: DOV E. SAX, “Native and Exotic Species Distributions: Implications for General Models of Diversity, From Community to Biogeographic Scales.”

KODRIC-BROWN, A.


LI, B.-L.

Summer: STEFANIE HÁR, “Spatio-temporal Heterogeneity and Scales of Forest Ecosystem Processes.” Co-Chair with O. Fränzle, Kiel, Germany.

LIGON, J.D.

Spring: JULIE HAGELIN, “Sexual Selection, Plumage Ornamentation and Behavior of Gambel’s and Scaled Quail.”

LOKER, E.S.


MOLLES, M.C., JR.


NATVIG, D.O.


SNELL, H.L.

Spring: Mark Jordan, “Phenotypic Plasticity in the Reproduction of Galápagos Lava Lizards (Microlophus deamoni).”
WERNER-WASHBURN, M.
Spring: MATTHEW CRAWFORD, "Characterization of a Complex That Forms in Stationary-phase Saccharomyces cerevisiae Containing the Regulatory Subunit of the cAMP-dependent Protein Kinase."

YATES, T.L.
Fall: Jorge Salazar-Bravo, "Systematics and Biogeography of the Genus Calomys: Inference from MtDNA."

3. Bona fide graduate courses and number of students enrolled. Indicate new courses (for you) with an asterisk.

BARTON, L.L.
Spring: Biol. 460, Microbial Physiology, 34 students
Fall: Biol. 502, ST/Bioremediation, 2 students

BROWN, J.H.
Spring: Biol. 515F, Field Research in Biology, 8 students
Biol. 502, ST/Ecological Complexity Seminar, 12 students

CHARNOV, E.L.
Spring: Biol. 402/502, ST/Evolutionary Ecology, approx. 24 students
Fall: Biol. 502, ST/Population & Behavioral Ecology, approx. 14 students

CRIPPS, R.M.
Fall: *Biol. 402/502, ST/Gene Expression, 3 students
*Biol. 446/546, Laboratory Methods in Molecular Biology, 8 students
*Biol. 501, New Graduate Student Orientation, about 25 students
*Biol. 551, Graduate Problems, 1 student

DAHM, C.N.
Spring: Biol. 495, Limnology, 4 graduate students of 12 students
Biol. 496L, Limnology Lab, 1 graduate student of 3 students
*Biol. 402/502, ST/Geomicrobiology, 6 graduate students of 12 students
Fall: Biol. 451, Microbial Ecology, 3 graduate students of 9 students
Biol. 514, Ecosystem Studies, 22 graduate students

DUSZYNSKI, D.W.
Spring: Biol. 599, Masters Thesis, 1 student
Biol. 699, Dissertation, 1 student
Fall: Biol. 551, Problems, 1 student
Biol. 599, Masters Thesis, 1 student
Biol. 699, Dissertation, 1 student
GOSZ, J.R.
Spring: Biol. 551, Problems, 2 students
Fall: Biol. 514, Ecosystems Studies, 22 students

KODRICK-BROWN, A.
Spring: Biol. 515E, Research in Field Biology, 12 students.

LI, B.-L.
Summer: Biol. 551-013, Problems, 2 students
Fall: Biol. 500-001, New Graduate Student Seminar (with R. Cripps), 19 students
* Biol. 502-018, ST/Ecological Complexity, 12 students

LIGON, J.D.
Fall: Biol. 502, ST/Avian Social Systems, 5 students

LOKER, E.S.
Spring: Biol. 502, ST/Parasites and Hosts, 2 students

LOWREY, T.K.
Spring: Biol. 563, Advanced Plant Taxonomy, 6 students
Fall: Biol. 402/502, ST/Systematics, 12 students

MARSHALL, D.L.
Spring: Biol. 567, Evolutionary Plant Ecology, 7 students
Spring: Biol. 576, Landscape Ecology, 7 students.
(In anticipation of my sabbatical, I taught this course two springs in a row.)

MILNE, B.T.
Biol. 502, ST/Ecological Complexity Seminar, 9 students
(Although J. Brown is the instructor of record, I am co-PI on the Complexity RTG from
NSF. I attend all the class sessions and am completely involved with the course.)

MOLLES, M.C., JR.
Spring: Biol. 507, Bosque Biology, 5 students
Fall: Biol. 507, Bosque Biology, 6 students

NATVIG, D.O.
Fall: Biol. 546, Laboratory Methods in Molecular Biology, 8 students
Biol. 502, ST/Topics in Fungal Molecular Biology, 6 students

NELSON, M.A.
Fall: Biol. 402/502, ST/Fungal Molecular Biology, 7 students
STRICKER, S.A.
Spring: Biol. 547, Advanced Techniques in Light Microscopy, 6 students

THORNHILL, R.
Spring: Biol. 502, Applied Darwinism, 15 students

TURNER, T.F.
Spring: *Biol. 502, ST/Stable Isotopes in Ecology Seminar, 8 students
Fall: *Biol. 502, ST/Ecology Seminar, 7 students

WAGNER, A.
Spring: *Biol. 437/537, Evolutionary Genetics, 22 students

YATES, T.L.
Spring: Biology 502, ST/Advanced Topics in Systematics and Ecology, 5 students.
Biology 551, Problems, 1 student
Biology 699, Dissertation, 2 students
Fall: Biology 502, ST/In Systematics, 6 graduate students. (First three ICES question scores 5.8, 5.6, 5.5.)
Biology 551, Problems, 6 students
Biology 599, Thesis, 1 student
Biology 651, Advanced Field Biology, 2 students
Biology 699, Dissertation, 2 students

4. Your service on graduate student committees, not as chair, in semester oral exam was given.

BROWN, J.H.
Moshe Kiflawi

DAHM, C.N.
Summer: Andrea Earp (Gordon Johnson, advisor)
Fall: Howard Passell, Ph.D. Comprehensive Exam, November 22 (Larry Li, co-advisor)

KODRIC-BROWN, A.
Spring: Jennifer Hill

LI, B.-L.
Summer: Kimberly H. Decker, degree awarded (Chair: D. Duszynski).

LOKER, E.S.
Spring: William Dvorachek, Ph.D. defense, April 8; I served as a late replacement on his committee and read his dissertation and participated in the final defense.
Kate Miska, Ph.D. exam, May 3

LOWREY, T.K.
Spring: Robert Taylor, Dov Sax, Brian Enquist.

MARSHALL, D.L.
Spring: Josh Leffler, dissertation defense
Mark Jordan, dissertation defense
Kim Eichhorst, thesis defense
Johnny Snyder, dissertation defense, Math Department

MILLER, R.D.
Spring: Hyojeong Kim (M.A. Nelson), Oral Exam for Ph.D. candidacy

MOLLES, M.C., JR.
Spring: Jennifer Parody, Comprehensive Exam
Claire Carpenter, Master's Exam

NATVIG, D.O.
Spring: Matthew Crawford, Ph.D. defense
Fall: Amy Ditto, comprehensive exam

NELSON, M.A.
Spring: William Dvorachek, Ph.D. defense
Fall: Amy Powell, Comprehensive exam

STRICKER, S.A.
Kate Miska

THORNHILL, R.
Alita Cousins, Ph.D. Candidate, UNM Psychology Dept.

TOOLSON, E.C.
Spring: Mark Jordan

VOGEL, K.G.
Fall: Ihab Abdel-Hamid, Ph.D. exam, Dept. of Chemical and Nuclear Engineering, UNM

WERNER-WASHBURN, M.
Patricia Dolan, comprehensive exams
Hyojeong Kim
YATES, T.L.
Amy Ditto, Oral exam, Biology
Susan Stratton, Ph.D. Defense, Anthropology
Jason Bottom, Oral exam, Pathology

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. student: paper in press.
PAUL CRYAN, Ph.D. student: paper in press.

BARTON, L.L.
GARY BROWN, doctoral student, received one of three awards given at Sandia National Laboratories to pursue graduate studies at UNM. The award paid for tuition plus half of his salary as release time.

BROWN, J.H.

ALLEN HURLBERT: Awarded an NSF Graduate Research Fellowship, which fully supports him for three years.

MORGAN ERNEST: Awarded a 1999 University of New Mexico Regents' Fellow and a 1999 Ecological Society of America Travel Award.

CRIPPS, R.M.
KATHLEEN KELLY: Grove Research Scholar. "Regulation and Function of the Actin57B Gene in Drosophila," predoctoral research fellowship, submitted to American Heart Association, Desert/Mountain Affiliate, pending approval. K. Kelly, PI, R. Cripps, sponsor; $18,000 per year for two years.

DAHM, C.N.
MICHELLE BAKER: participant in the DIALOG II workshop in Barbados, Bahamas. This workshop brings together 15 top, recent (last three years) Ph.D. students in freshwater sciences with 15 top, recent Ph.D. students in oceanography. She also accepted a tenure-track faculty position in the fall of 1999 in the Department of Biology at Utah State University.
DUSZYNSKI, D.W.

INGRID ASMUNDSSON:
> Foreign Travel: Guatemala, May–July 1999, to collect parasites from amphibians and reptiles on an NSF-sponsored Survey & Inventory grant to Dr. Jon Campbell, University of Texas–Arlington.
> Funding: GRAC Travel Grant, $100; SRAC Travel Grant, $240.

KIM DECKER:
Job: Science faculty member and mid-school Soccer and Track Coach, Sandia Preparatory School, Albuquerque.

MEGAN RYAN:
Job: Teaching Assistantship, 1999–2000, Biology, UNM.

XIAOMIN ZHAO:
Funding: GRAC: $250; SRAC: $400; RPT: $800; Grove Research Scholarship: $800

LIGON, J.D.

JULIE HAGELIN, employed by University of Connecticut as Visiting Assistant Professor.


LOWREY, T.K.

LAURA BOYKIN:
> Karling Graduate Student Research Award, Botanical Society of America.
> Poster presented, International Botanical Congress, St. Louis MO, August.

JERUSHA REYNOLDS:
Poster presented, International Botanical Congress, St. Louis MO, August.

MILNE, B.T.

ETHAN DECKER:
> Oral presentation at the Annual Meeting of the International Association for Landscape Ecology.
> UNM GRAC funding
> President, Biology Graduate Student Association

DREW KERKHOFF:
> Oral presentation at the Annual Meeting of the International Association of Landscape Ecology, Snowmass CO, August.
> UNM GRAC funding
JEN PARODY:
Oral presentation at the Annual Meeting of the International Association of Landscape Ecology, Snowmass CO, August.

DREW ALLEN:
Oral presentation at the Annual Meeting of the International Association of Landscape Ecology, Snowmass CO, August.

NELSON, M.A.
KELLY HOWE, graduate student, awarded a Grove Research Scholarship.

SNELL, H.L.
MARK JORDAN:
➢ Received a postdoctoral appointment in Great Britain.
➢ Traveled to Great Britain and gave three invited seminars.
➢ Traveled to San Francisco to present a paper at an International American Association for the Advancement of Science (AAAS) Symposium on the Galápagos Islands.

STEPHEN EARSOM:
➢ Employed by the U.S. Fish and Wildlife Service in Puerto Rico to design and implement an ecological monitoring program for U.S. Wildlife Refuges in the Caribbean region.
➢ Traveled to San Francisco to present a paper at an International AAAS Symposium on the Galápagos Islands.

MARCO ALTAMIRANO:
➢ Traveled to Uruguay to present two papers at the International Congress of Latin American Herpetology.
➢ Spent 1999 in the Galápagos Islands as a research fellow of FUNDACYT, the Ecuadorian equivalent of the U.S. NSF.

J. TOMAS GRIERMAKOWSKI:
Attended a national meeting on environmental uses of GIS systems in Utah.

NOTE: As part of a collaborative agreement between the Department of Biology and the Charles Darwin Research Station, I am assigned to spend two-thirds of the academic year at the CDRS in the Galápagos. Therefore, much of my professional activity involves students and staff of that institution who aren’t directly related to UNM. Since this is a UNM sanctioned reassignment, I will report those activities here. To distinguish them from the direct UNM activities that I do during the remaining one-third of the academic year, they will be prefaced with "**".

** Sandra Landazuri and Patricia Polo traveled from Galápagos to San Francisco to participate in an International AAAS Symposium on the Galápagos Islands.
**Hernan Vargas traveled to Mexico to present three papers at an International Conference on Ornithology, and traveled to Lima, Peru to present two papers on the biological effects of the 1997–98 El Niño Event in the Galápagos Islands.

** Cruz Marquez traveled to Uruguay to present two papers at the International Congress of Latin American Herpetology.

** Maria Loudres Torres and Xavier Salazar spent 1999 in the Galápagos as a research fellow of FUNDACYT, the Ecuadorian equivalent of the U.S. NSF.

** Sandra Landazuri spent 1999 in the Galápagos as a research fellow of IOGTOA (International Organization of Galápagos Tour Operators Association).

** Wacho Llerena travelled to Quito, Ecuador, for a week-long training course in ArView GIS software.

TURNER, T.F.

MEGAN V. MCPHEE:

- Grant awarded: "Comparative Dynamics Between the Native Rio Grande Sucker and the Introduced White Sucker"; M.V. McPhee, PI; New Mexico Dept. of Game and Fish; $2,700, start July 1, 2000—June 30, 2001.
- Fellowship proposal to the EPA STAR program, 1–3 years of funding possible.

WERNER-WASHBURN E, M.

PAMELA PADILLA and MATTHEW CRAWFORD, Sigma Xi membership

YATES, T.L.

SWAN Meetings, Monterey, Mexico, six of my students attended and gave papers.

National Mammal Meetings, two student papers given without my name.

Travel to Mongolia, five students attended five weeks of training and assistance establishing an LTER network for Mongolia.

B. Undergraduate Education. *Bona fide* undergraduate courses taught each semester and number of students enrolled. Indicate new course (for you) with an asterisk.

ALTEBNACH, J.S.

Spring: Biol. 386L, General Vertebrate Zoology, 38 students (please notice ICES scores).

Fall: No teaching because of double load (Biol. 121, Principles of Biology, and 435, Animal Physiology) in Fall 1998.

BARTON, L.L.

Spring: Biol. 351/352, General Microbiology, 86 students
Fall:  
BROWN, J.H.  
Spring:  
Biol. 351/352, General Microbiology, 72 students  
Biol. 402, ST/Bioremediation, 5 students  

CRIPPS, R.M.  
Spring:  
Biol. 494, Biogeography, 37 students  

DAHM, C.N.  
Fall:  
Biol. 451, Microbial Ecology, 6 undergraduate students of 9 students  
Spring:  
Biol. 495, Limnology, 8 undergraduate students of 12 students  
Biol. 496L, Limnology Lab, 2 undergraduate students of 3 students  

DUSZYNSKI, D.W.  
Spring:  
Biol. 402, ST/Tropical Ecology, 1 student  
Biol. 461L, Tropical Biology, 12 students  
Fall:  
*Biol. 371L, Invertebrate Biology, 20 students  

GOSZ, J.R.  
Spring:  
Biol. 403, Ecosystem Ecology, 27 students  

KODRIC-BROWN, A.  
Spring:  
Biol. 455, Animal Behavior/Ethology, 32 students.  
Biol. 499, Undergraduate Problems, 1 student, 3 credit hours.  
Biol. 499, Undergraduate Problems, 1 student, 1 credit hour.  

LI, B.-L.  
Spring:  
*Biol. 122-001 & -002, Principles of Biology (with Eric Toolson), ~ 370 students  
Fall:  
*Biol. 310, Principles of Ecology, 30 students  

LIGON, J.D.  
Spring:  
Biol. 379, Conservation Biology, 45 students  
Fall:  
Biol. 379, Conservation Biology, 46 students
<table>
<thead>
<tr>
<th>Name</th>
<th>Spring</th>
<th>Fall</th>
</tr>
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<tbody>
<tr>
<td>LOKER, E.S.</td>
<td>Biol. 382L, Introductory Parasitology, 11 students</td>
<td></td>
</tr>
<tr>
<td>LOREY, T.K.</td>
<td>Biol. 461, Tropical Biology, 15 students</td>
<td>Biol. 463, Flora of New Mexico, 30 Students</td>
</tr>
<tr>
<td>MARSHALL, D.L.</td>
<td>Biol. 467, Evolutionary Plant Ecology, 4 students (6.0 on ICES “Rate the Instructor”)</td>
<td></td>
</tr>
<tr>
<td>MILLER, R.D.</td>
<td>*Biol. 450, General Virology, 55 students</td>
<td>Biol. 402/502, ST/Immunogenetics, 3 students</td>
</tr>
<tr>
<td></td>
<td>Biol. 456, Immunology, 92 students</td>
<td>Biol. 402/502, ST/Immunogenetics, 4 students</td>
</tr>
<tr>
<td>MOLLES, M.C., JR.</td>
<td>Biol. 407, Bosque Biology, 15 students</td>
<td>Biol. 407, Bosque Biology, 14 students</td>
</tr>
<tr>
<td>NATVIG, D.O.</td>
<td>Biol. 446, Laboratory Methods in Molecular Biology, 6 students</td>
<td></td>
</tr>
<tr>
<td>NELSON, M.A.</td>
<td>Biol. 221, Introductory Genetics, two sections with 70 and 85 students, respectively (I taught half of each section)</td>
<td>Biol. 402/502, ST/Fungal Molecular Biology, 7 students</td>
</tr>
<tr>
<td>SNELL, H.L.</td>
<td>Biol. 488L, Herpetology, 13 students</td>
<td>Biol. 386L, General Vertebrate Zoology, 30 Students</td>
</tr>
<tr>
<td>STRICKER, S.A.</td>
<td>Biol. 416L, Histology, 35 students</td>
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</tr>
<tr>
<td>TAYLOR, F.</td>
<td>Biol. 136, Human Anatomy &amp; Physiology for Non-majors, 35 students</td>
<td>Biol. 136, Human Anatomy &amp; Physiology for Non-majors, 17 students</td>
</tr>
<tr>
<td>THORNHILL, R.</td>
<td>Biol. 402, Applied Darwinism, 5 students</td>
<td>Biol. 365, Evolution of Human Sexuality, 100 students</td>
</tr>
</tbody>
</table>
TOOLSON, E.C.
Spring: Biology 122, Principles of Biology, 420 students
Fall: *Biology 402, ST/Ecology Seminar, 6 students

TURNER, T.F.
Spring: *Biology 487L, Ichthyology, 11 students
Fall: *Biology 386, General Vertebrate Zoology, 35 students enrolled

VOGEL, K.G.
Spring: Biol. 456, Immunology (3), 50 students
Biol. 402, ST/Proteoglycans (1), 4 students
Fall: Biol. 219, Principles of Cell Biology (3), two sections, 240 students, co-taught with M. Werner-Washburne
Biol. 400, James Shannon, Lisa Lavadie, Letitia Lansing, Chris Kerwin

WAGNER, A.
Spring: *Biol. 437/537, Evolutionary Genetics, 22 students
Fall: *Biol. 221, Introductory Genetics, co-taught with M.A. Nelson, 170 students

WERNER-WASHBURN, M.
Fall: Biol. 219, Introductory Cell Biology, approx. 240 students

YATES, T.L.
Spring: Biol. 402, ST/Advanced Topics in Systematics and Ecology, 3 student
Fall: Biol. 402, ST/In Systematics, 1 student

C. Teaching Awards.

BROWN, J.H.
UNM Annual Research Lecturer, 1999.

DAHM, C.N.
Received an outstanding mentor award from the NASA PURSUE program for mentoring of undergraduate students David Gilroy, Kathy Dotson and Rachel Schelble.

DUSZYNKI, D.W.
Great ICES evaluations in Biol. 371L (Invertebrate Biology)!
College of A&S Excellence in Undergraduate Education award for Biol. 461L (Tropical Biology), $2,000.

MARSHALL, D.L.
Spring: Rated 6.0 on ICES “Rate the Instructor,” Biol. 467, Evolutionary Plant Ecology, 4 students.

SNELL, H.L.
The ICES evaluation process no longer automatically recognizes recipients of scores above a specific level as outstanding. However, my scores for the Spring Herpetology class were above the level that was previously recognized.

TURNER, T.F.
Teaching Allocations Award for purchasing Catalog of Fish Slides for Biol. 487L (Ichthyology) and Biol. 386 (General Vertebrate Zoology).

D. Curriculum Development/Production of Teaching Materials.

BARTON, L.L.
Developed, established and used three new laboratory experiments in the Biol. 352, Microbiology, teaching lab.

DAHM, C.N.
Developed curriculum for the new Geomicrobiology class taught for the first time in Spring 1999. This course will be one of the required courses in the new NSF IGERT-supported interinstitutional and interdisciplinary Ph.D. program. The class will be taught again with distance learning links to the University of Alabama in Fall 2001.

LOKER, E.S.
Fall: Working on notes for development of new course, The Biology of Infectious Diseases.

MILNE, B.T.
Completely rewrote the lecture notes for my Biol. 576 course (Landscape Ecology) and reorganized the laboratory part of the course. Used Simms Park on the east side of Albuquerque as an outdoor laboratory. This involved more than 30 hours of field work with the students and about 60 hours of computer programming (by me) to implement a geographic information system, global positioning system support, and biophysical models for the site and parts of New Mexico.

Applied for funds through the department to bring global positioning system technology into the classroom.

STRICKER, S.A.
New laboratory material for Biol. 547 (Advanced Techniques in Light Microscopy) and Biol. 416 (Histology).
TURNER, T.F.
Development of Web Page for Biol. 487L (Ichthyology)
Development of Web Page for Biol. 386L (General Vertebrate Zoology)
Purchase of Catalog of Fish Slides funded by Teaching Allocation Award (UNM)

TOOLSON, E.C.
Developed several computer simulations of classic organ-systems physiology lab exercises.
Established a web page for Biology 435, Animal Physiology

WAGNER, A.
Biol. 437/537, Evolutionary Genetics

E. Museum Curator, Advisor, Assistant Chair, EM Director, etc.

ALTENBACH, J.S.
Fall: Department Associate Chair

BARTON, L.L.
Supervisor of Media Preparation for Microbiology
Supervisor of Bacterial Culture System for Teaching

DUSZYNISKI, D.W.
Secretary-Treasurer, Biological Society of New Mexico
Spring: Pre-veterinary Medicine Advisor

LIGON, J.D.
Curator, Bird Division, Museum of Southwestern Biology

LOWREY, T.K.
Director, Museum of Southwestern Biology
Curator, Division of Herbarium, Museum of Southwestern Biology

MILLER, R.D.
Director, Molecular Biology Facility

MOLLES, M.C., JR.
Spring: Department Associate Chair
Curator, Division of Arthropods, Museum of Southwestern Biology
SNELL, H.L.
Curator, Herpetology Division, Museum of Southwestern Biology
Program Leader of Vertebrate Restoration Ecology and Ecological Monitoring at the Charles Darwin Research Station, Galápagos Islands, Ecuador

STRICKER, S.A.
Director, Electron Microscopy Facility
Director, Confocal Microscopy Facility

TURNER, T.F.
Curator, Fishes Division, Museum of Southwestern Biology

VOGEL, K.G.
Fall: Chair, Department of Biology

YATES, T.L.
Curator, Division of Mammals, Museum of Southwestern Biology
Curator, Division of Biological Materials, Museum of Southwestern Biology
Chair, Biology Department, January–July
Special Assistant, Government Relations Associate Provost Research/Dean A&S

F. Other Teaching Activities.

AL TENBACH, J.S.
Guest Lecture in Biology 379, Conservation Biology, for Dr. David Ligon

CRIPPS, R.M.
Summer: Supervisor for one Honors Student
Honors committee, James Shannon
Honors committee, Crystal Ortiz

DAHM, C.N.
Supervised a NASA SHARP program high school student, Ms. J'Mill Smith, to do research on the detritivore communities of the Rio Grande bosque. This summer program is a NASA program to expose high school students from underrepresented groups to science research.

Supervised Maceo Carillo Martinet during the Summer of 1999 with support from the NSF REU program. Maceo is an undergraduate majoring in Natural Sciences at Cornell University.

Supervising Charity Melgaard as she completes her senior honors thesis in biology at the University of New Mexico.
DUSZYNSKI, D.W.

March: Took our Tropical Biology class (Biol. 461L) to Possum Point and Wee Wee Caye field stations, Belize, Central America, 11 days, 22 students and faculty from UNM and Albuquerque TVI.

LI, B.-L.

Advisor:
- Martha L. Ennis (Co-Chair with J. Gosz)
- Mike Fuller (Chair, 1998-99, now with A. Wagner)
- Stefanie Hári (Co-Chair with O. Fränzle, Kiel, Germany)
- Howard Passell (Co-Chair with C. Dahm)
- Xuefei Wang (Chair)
- Igor Nazarov (Dept. Math. & Stat.) (Chair)

Member of the committees:
- Andrew P. Allen (Chair: B. Milne)
- Ford Ballantyne (Chair: J. Brown)
- Ethan Decker (Chair: B. Milne)
- Andrew J. Kerkhoff (Chair: B. Milne)
- Kimberly H. Decker (Chair: D. Duszynski)
- William LaRue (Chair: R. Thornhill)

LOKER, E.S.

Spring: Directed Senior Honors Thesis for Danny Molina and Angela Costanzo
Directed Biol. 499, Undergraduate Problems, course for Angela Costanzo
Directed Biol. 551, Problems, for Randy DeJong and Kirsten Meyer
Biol. 699, Dissertation, for Ken Barber, Pascale Leonard and Kelli Sapp

Fall: Biol. 551, Problems, for Randy DeJong
Biol. 699, Dissertation, for Ken Barber and Pascale Leonard

MARSHALL, D.L.

Advisor, one honors thesis

MILLER, R.D.

Biol. 699, Dissertation, 2 students

NATVIG, D.O.

Biol. 551, 599 and 699 students supervised:
Fall: Judith Galbraith, Biol. 551 (2 cr)
Amy Powell, Biol. 551 (3 cr)

Spring: Amy Ditto, Biol. 551 (3 cr)
Judith Galbraith, Biol. 551 (2 cr)
Suzanne Shoup, Biol. 551 (2 cr)
William Dvorachek, Biol. 699 (12 cr)
Biol. 400 and 499 students supervised:

Spring: Jose Weber, Biol. 499 (3 cr).

Mentored two undergraduate students, Diego Martinez and Jose Weber, in the Minorities in Biomedical Research Support (MBRS) Program.

MILNE, B.T.

Guest lectures in the classrooms at other universities:
- Colorado State University, Fractal Geometry and Ecological Complexity, October
- University of Colorado, CIRES: Stability Theory in Ecology

NELSON, M.A.

Summer: Biol. 551, Problems, 1 student
Fall: Biol. 400, Senior Honors Thesis, 3 students
      Biol. 551, Problems, 2 students
      Biol. 699, Dissertation, 3 students

SNELL, H.L.

Week-long field trip to Sonora, Mexico as part of my Herpetology class.

Produced and presented a week-long course in ArcView (GIS software) at the Charles Darwin Research Station, Galápagos Islands, Ecuador.

STRICKER, S.A.

June–July: Zoology 536B, Comparative Invertebrate Embryology, University of Washington, 11 students
Spring: Biol. 499, Undergraduate Problems, 4 students
Fall: Biol. 499, Undergraduate Problems, 3 students

TURNER, T.F.

Supervised Graduate research of two Ph.D. students (Megan McPhee and Melanie Edwards).

Served on graduate committees of six Ph.D. students.

Supervised senior honors thesis research (Dominique Alo).

Reader for two Senior Honors Theses.

Submitted NASA Pursue grant for undergraduate participation in research.

Served on organizational committee for NSF–IGERT award.
VOGEL, K.G.

Honors' theses completed:
Spring: James Shannon (co-mentor with Richard Larson, Dept. of Pathology)
Fall: Lisa Lavadie (co-mentor with Jack Omdahl, Dept. of Biochemistry)
Letitia Lansing (co-mentor with Jack Omdahl, Dept. of Biochemistry)

YATES, T.L.

Taught special course on ecological epidemiology, Johns Hopkins University Graduate Class; special trial to explore the possibility of a joint program in this area where students from UNM can take classes at Hopkins and theirs here for credit (graduate students only).

II. PUBLICATIONS.

A. Books Authored.

ALtenbach, J.S.

Ligon, J.D.

Molles, M.C., Jr.

B. Books Edited.

Brown, J.H.

C. Chapters in Books or Major Synthetic Reviews.

Altenbach, J.S.

BROWN, J.H.


CRIPPS, R.M.

DUSZYNSKI, D.W.

GOSZ, J.R.


LI, B.-L.

**Ligon, J.D.**


**Loker, E.S.**


**Marshall, D.L.**


**Miller, R.D.**


**Milne, B.T.**


**Nelson, M.A.**


SNELL, H.L.


THORNHILL, R.


VOGEL, K.G.


YATES, T.L.


D. Articles in Refereed Journals.

BARTON, L.L.


BROWN, J.H.


CHARNOV, E.L.


CRIPPS, R.M.


DAHM, C.N.


DUSZYNSKI, D.W.


GOSZ, J.R.


KODRIC-BROWN, A.


LIGON, J.D.


LOKER, E.S.


LOWREY, T.K.


MILLER, R.D.


MILNE, B.T.


MOLLES, M.C., JR.


NATVIG, D.O.


NELSON, M.A.


STRICKER, S.A.


THORNHILL, R.


**TURNER, T.F.**


**VOGEL, K.G.**


**WAGNER, A.**


YATES, T.L.


Two not reported from last year:


E. Book Reviews.

GOSZ, J.R.


THORNHILL, R.


F. Articles in Non-scholarly Journals.

ALTENBACH, J.S.

MILNE, B.T.

SNELL, H.L.


WERNER-WASHBURN, M.

YATES, T.L.

G. Quasi-public Reports for Internal/External Circulation.

AL TENBACH, J.S.


Altenbach, J.S. 1999. A report on the Bat Use and Bat Use Potential of the Abandoned Mines in the Spar group Mine Reclamation Project. Submitted to the NM Abandoned Mine Lands Bureau, NMEMNRD.


BARTON, L.L.

DAHM, C.N.


DUSZYNSKI, D.W.
Prepared and edited The Program and Abstracts booklet (175 pp.) for the 1999 Joint Meeting of the American Society of Parasitologists (ASP) and the Society of Nematologists (SON), held July 6-10, 1999, Monterey CA. Mailed by Allen Press to approximately 1,850 members of both societies.

Wrote and edited the camera-ready copy of the Call For Papers booklet announcing the 2000 Joint Meeting of the ASP and the Society of Protozoologists (SOP), scheduled to be held June 24-28, 2000, San Juan PR. Mailed by Allen Press to approximately 1,650 members of both societies.

LIGON, J.D.
Report on recommendation to N.M. Department of Game and Fish to list the Lesser Prairie Chicken as Endangered, as my responsibility as the member of a peer review panel from UNM. Originally appointed by President Peck.

LOWREY, T.K.
Rare plant status report. Zaluzania grayi. New Mexico Rare Plant Technical Council report.

NELSON, M.A.

SNELL, H.L.


WERNER–WASHBURNE, M.


YATES, T.L.

Yates et al. 1999. Longitudinal studies of hantavirus in rodent populations in the American Southwest. Two biannual reports, May and December. CDC.

H. Abstracts (Refereed or Invited).

BARTON, L.L.


DAHM, C.N.


LI, B.-L.

NATVIG, D.O.


NELSON, M.A.


MILNE, B.T.


VOGEL, K.G.


YATES, T.L.


The following were all invited, but no abstracts were published except for publicity. Yates, T.L. 1999. Invited lectures at University of Nebraska; Catholic University, Santiago, Chile; Department of the Interior (two talks) national safety lectures; UNM presidential Kitchen Cabinet; Federal Occupational health talk sponsored by FBI; and the National Science Foundation.

1. Abstracts (Contributed) (including Research Day abstracts of your students).

CRIPPS, R.M.


Cripps, R.M. and E.N. Olson. Functions of twist and Mef2 in adult Drosophila myogenesis. EMBO Workshop on Molecular Genetics of Muscle Development and Neuromuscular Diseases, Kloster Irsee, Germany, September 26–October 1.
DAHM, C.N.


DUSZYNSKI, D.W.

Asmundsson, I.M., J.A. Campbell and D.W. Duszynski. A new coccidian from the Mexican caecilian Dendrophis mexicanus (Amphibia: Gymnophiona) from Volcán Tajumulco, Department of San Marcos, Guatemala. 32nd Annual Meeting, Southwestern Association of Parasitologists (SWAP), Lake Texoma OK, April 15-17.


Asmundsson, I.M., J.A. Campbell and D.W. Duszynski. Eimeria (Apicomplexa: Eimeriidae) de culebras a la familia Colubridae de Guatemala, con descripciones de 4 nuevas especies y un nuevo registro de huésped para Eimeria ondinae Carini, 1939. XIVth Congreso, Federacion Latinoamericana de Parasitologia, Acapulco, Mexico, October 14-16.


**LOKER, E.S.**

Leonard, P.M., D.C. Quintana, C.M. Adema and E.S. Loker. 1999. Characterization of a parasite-responsive Protein Family from the Snail Host of *Schistosoma mansoni* Featuring a Unique Combination of Fibrinogen and Ig V-type domains. Presented at the 48th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington DC, November 28–December 2.


Loker, E.S. and C.J. Bayne. Molecular studies of the molluscan response to digenean infection. Presented at the FASEB summer research conference on “Phylogenetic Perspectives on the Vertebrate Immune Response”, Copper Mountain CO, July 11-16.


LOWREY, T.K.

MILLER, R.D.


MILNE, B.T.
Decker, E. Abstract for oral presentation at Annual Research Day, Department of Biology, UNM, April.

Parody, J., and E. Decker. Abstract for poster presentation at Annual Research Day, Department of Biology, UNM, April.
Oral presentation at the Annual Meeting of the International Association of Landscape Ecology, Snowmass CO, August:

> Decker, E.
> Kerkhoff, D.
> Parody, J.
> Allen, A.
> Restrepo, C. (Post-doc)

NATVIG, D.O.


NELSON, M.A.


TURNER, T.F.

Turner, T.F, L.R. Richardson and J.R. Gold. 1999. Genetic effective population size is much lower than census size in red drum from the northern Gulf of Mexico. American Society of
ICHTHYOLGETICS AND HERPETOLOGISTS 79TH ANNUAL MEETING, PENNSYLVANIA STATE UNIVERSITY, STATE COLLEGE PA, JUNE 24-30.

WERNER-WASHBURN, M.

Errett, A. Signal transduction in quiescent Saccharomyces cerevisiae Cells. Eighth Annual Research Day, Department of Biology, UNM, April.

J. Other.

DUSZYNSKI, D.W.
Traveled to San Juan, Puerto Rico to site-visit the facilities at the San Juan Hilton and to work with staff to prepare for the 2000 Joint Meeting of the ASP and the SOP, October.

Research Affiliate, The Harold W. Manter Laboratory of Parasitology, University of Nebraska, Lincoln NE.

SNELL, H.L.
Two television specials:

- Aired on the Animal Planet in September 1999 and featured the restoration ecology work of Heidi and Howard Snell over the last 20 years for Galápagos Land Iguanas.

- Scientific Frontiers; aired in the fall and featured the Charles Darwin Research Station’s efforts to preserve biological diversity.

STRICKER, S.A.
Pictures published in following books:


WERNER-WASHBURN, M.

M. Werner-Washburne (writer/coordinator and representatives from nine federal agencies). Federal Investment in Microbial Genomics, to be published by the National Science and Technology Council, 2000.

YATES, T.L.
Public items including television specials from PBS, BBC, two Canadian networks, Japan National Television, Men’s Journal, Stern Magazine, National Geographic, all three national news networks plus CNN, and lots of newspapers. UNM cited in all.
III. RESEARCH PROJECTS OR OTHER CREATIVE WORK IN PROGRESS OR COMPLETED DURING PERIOD.

A. Grants and Contracts, Extramural and Intramural.

1. Submitted to all agencies in 1999.

BARTON, L.L.


“Interactive Visualization of Microbial Specimens”; L.L. Barton, PI; U.S. Army Research Office; $186,000, June 1, 2000–December 31, 2001.

“Mechanisms of Bacterial Reduction of Arsenate, Molybdate, and Uranyl Ions”; L.L. Barton, PI; NSF; $149,000, September 1, 1999–August 31, 2002.

BROWN, J.H.


Cripps, R.M.

“Genetic Regulation of Muscle Fiber Diversity”; R.M. Cripps, PI; National Institutes of Health; $1,322,000 over five years, direct and indirect costs, July 2000–June 2005.

“Genetic Analysis of Heart Muscle Remodeling”; R.M. Cripps, PI; Arnold and Mabel Beckman Foundation, Beckman Young Investigator Award; approximately $200,000 over three years, direct costs only, July 2000–June 2003.

“Molecular Genetic Analysis of Heart Muscle Remodeling”; R.M. Cripps, PI; Searle Scholars Program; $180,000 over three years, direct and indirect costs only, July 2000–June 2003.

DAHM, C.N.

“CRB: Flooding Regime and Restoration of Riparian Ecosystem Integrity”; M.C. Molles, Jr., C.N. Dahm and C.S. Crawford, co-PIs; National Science Foundation; $492,049, September 1, 1999–August 31, 2002.

DUSZYNSKI, D.W.

“Diversity and Prevalence of Lumur Parasites in Madagascar Rain Forests;” P.C. Wright, PI, SUNY, Stony Brook NY (I will be a paid consultant); NSF–Physical Anthropology; $159,766, resubmitted April 1999, pending.
"The Coccidia (Eimeriidae) of the World—II;" D.W. Duszynski, PI; NSF—Systematic Biology (DEB-9977951); $760,975, September 1, 2000—August 31, 2005; not funded.

"Plastid-like DNAs and Their Phylogenetic Relationship Within the Protist Phylum Apicomplexa"; D.W. Duszynski, PI; RAC Large Grant proposal; $7,500; not funded.

"Plastid-like DNAs in the Apicomplexa"; D.W. Duszynski, Xiaomin Zhao, co-PI; NSF—Dissertation Improvement Grant (DEB-0002068); $10,000, April 1, 1999—March 31, 2001; not funded.

"UNM Tropical Biology: A Hemispheric Initiative"; D.W. Duszynski, PI; UNM College of Arts & Sciences Excellence in Undergraduate Education; $2,000, March 2000; funded.

KODRIC-BROWN, A.
Research Experience for Undergraduates stipend (for one student), A. Kodric-Brown, PI; NSF; Summer 1999.

LI, B.-L.
"1999–00 SURP: Developing Ecological Indicators of Sustainable Land Use for Arid and Semi-Arid Environments"; B.-L. Li, PI; DOE/Sandia National Laboratories; $35,000, 100%, October 1, 1999—September 30, 2000.

"Developing a Non-equilibrium Thermodynamic Model and Landscape Indicators for Assessing the San Pedro River Basin Vegetation Changes"; B.-L. Li, PI; EPA Landscape Ecology Branch (Las Vegas); $25,000, 100%, October 15, 1999—September 30, 2000.

"Biotic and Abiotic Factors Affecting the Spatio-Temporal Dynamics of Spatially Structured Aquatic Ecosystems"; B.-L. Li and Alexander B. Medvinsky, Co-PIs; U.S. Civilian Research and Development Foundation; $59,200, 100%, May 1, 2000–April 30, 2001.

" Developing Space-Time Multifractal-based Nonequilibrium Thermodynamic Ecological Indicators to Assess Landscape Change and Sustainability"; B.-L. Li, PI; National Science Foundation; $316,530, 33%, October 1, 1999—September 30, 2002.

LIGON, J.D.
"Inheritance of Paternal Condition and the Effects of Differential Maternal Investment in the Red Junglefowl"; J.D. Ligon, PI; NSF Dissertation Improvement Grant for Timothy Parker; $6,850, June 1, 2000–May 31, 2002, Year 1: $3,975, Year 2: $2,875.

LOKER, E.S.
"Biology of Trematode–Snail Associations"; E.S. Loker, PI; NIH; $1,032,435 direct costs; December 1, 1999–November 30, 2004, Year 1: $210,690, Year 2: $193,513, Year 3: $201,252, Year 4: $209,304, Year 5: $217,676.
MARSHALL, D.L.

REU supplement to “Can Non-random Mating Result in Evolutionary Change: A Selection Experiment Using Wild Radish as a Model System, Phase II”; D.L. Marshall, PI; National Science Foundation; $10,000, June 1, 1999–August 31, 2001.

ROA supplement to “Can Non-random Mating Result in Evolutionary Change: A Selection Experiment Using Wild Radish as a Model System, Phase II”; D.L. Marshall, PI; National Science Foundation; $18,000, June 1, 1999–August 31, 2001.


MILLER, R.D.


MILNE, B.T.

“Self-organization of Semi-arid Landscapes: Tests of Optimality Principles”; B.T. Milne, C. Restrepo, D.A. Bader and W. Pockman, co-PIs; NSF; $674,911, 2000–2002, (funded with January 2000 start date). (The program officer said that “this proposal rose to the top of the pile” and “generated a lot of excitement at NSF.”)

“Collaborative Research: Scaling and Allometry in River Networks: Coupling Rainfall, Topography, and Vegetation with Hydrological Extremes”; V.K. Gupta, W. F. Krajewski and B.T. Milne, co-PIs; NASA; $124,946, 2000–2002, submitted November, in review. (Note: the amount is the amount of my budget that I requested to come through UNM.)

“Dissertation Improvement Grant: Effects of Ecological Factors on Global Patterns of Urbanization”; B.T. Milne and E. Decker, co-PIs; NSF; $6,426, duration 17 months, requested start date of January 1, 2000, submitted November.

“Dissertation Improvement Grant: Constraints and Drivers of Piñon-Juniper Woodland Dynamics”; B.T. Milne and D. Kerkhoff, co-PIs; NSF; $9,054, duration 17 months, requested start date of January 1, 2000, submitted November.

MOLLES, M.C., JR.

“Flooding Regime and Restoration of Riparian Ecosystem Integrity”; M.C. Molles, Jr., C.N. Dahm, H.M. Valett, C.S. Crawford and P.V. Unnikrishna, co-PIs; NSF Ecosystems; $492,000, 1999–2002.
NATVIG, D.O.

"Medical Mycology: Phylogenetic Species and Recombination"; J. Taylor, PI, D.O. Narvig Co-PI; NIH; $511,463 (Narvig portion only), September 1, 1999–August 31, 2004, $102,000/yr.

"Reproductive Genetics of Neuraupa terrestrina"; D.O. Narvig, PI; NSF; $388,851, May 1, 2000–April 30, 2004, $96,000/yr.


NELSON, M.A.

"STC: National Science and Technology Center for Fungal Genomics"; M.A. Nelson, co-PI and Co-Director (other PIs: J. Arnold, University of Georgia; R. Aramayo, Texas A&M University; M. Cushion, University of Cincinnati; J. Dunlap, Dartmouth Medical School; D.O. Narvig, The University of New Mexico); National Science Foundation; total requested for all five universities: $20,000,001, from January 1, 1999–December 31, 2003; total requested for the University of New Mexico, $3,284,760: Year 1: $656,952, Year 2: $656,952, Year 3: $656,952, Year 4: $656,952, Year 5: $656,952 (direct plus indirect costs). Preproposal submitted February 12, 1998; selected to submit full proposal; full proposal submitted September 3, 1998; selected as finalist; site visit February 16-17, 1999; grant was not funded.

"A Microbial Observatory for Long-Term Research in Desert Ecosystems: Linking Microbial Composition and Function at the Sevilleta LTER and GMNRS"; J.R. Gosz, PI, R.R. Parmenter, M.A. Nelson and B.-L. Li, co-Pis; National Science Foundation; $586,242, September 1, 1999–August 31, 2004 (direct plus indirect costs). This grant was not funded.

"A Microarray Scanner for Functional Genomics"; S. Ruby, PI, Gabriel Lopez, M.A. Nelson, S. Ness and J. Nickoloff, co-Pis; National Science Foundation; $130,602, July 1, 2000–June 30, 2001 (all direct costs; instrumentation proposal). This grant is pending.

SNELL, H.L.

NOTE: As part of a collaborative agreement between the Department of Biology and the Charles Darwin Research Station (CDRS), I am assigned to spend two-thirds of the academic year at the CDRS in the Galápagos. Therefore, much of my professional activity involves students and staff of that institution who aren't directly related to UNM. Since this is a UNM sanctioned reassignment, I will report those activities here. To distinguish them from the direct UNM activities that I do during the remaining one-third of the academic year, they will be prefaced with "**".

**"Control and Eradication of Invasive Species: A Necessary Condition for Conserving Endemic Biodiversity of Galapagos World Heritage Site"; H.L. Snell, R. Bensted-Smith, A. Tye and J. Hernandez, co-Pis; United Nations Foundation via UNESCO World Heritage Center; $3,000,000, March 1, 2000–March 1 2004, $750,000.
** "Control Total de Especies Introducidas en Las Islas Galápagos"; M. Patry, H.L. Snell, R. Bensted-Smith, A. Tye, J. Hernandez, E. Cruz and E. Espinoza, co-PIs; Global Environmental Fund (GEF); $18,000,000, September 2000–September 2006, $3,000,000.

** "Participatory Ecological Monitoring of the Galápagos Archipelago: A Role for Tourism and Management Vessels"; H.L. Snell, R. Cameron and R. Bensted-Smith, co-PIs; CONADROS; $25,000, April 1, 2000–April 1, 2001, $25,000.


** "Reconstructing the Historical Rio Grande Ecosystem: A Stable Isotope Study of Fish Communities Using Museum Specimens"; T.E. Turner, PI; UNM Large Research Allocations Award; $6,090, May 1, 1999–September 31, 1999.
VOGEL, K.G.

MARC Undergraduate Student Training in Academic Research; N. Ahmed, PI, K.G. Vogel, Program Director; National Institutes of Health; total costs for five years $1,450,704.

WAGNER, A.


“Design Principles and Robustness of Large Metabolic Networks”; A. Wagner, PI; Arnold and Mabel Beckman Foundation, Young Investigator Award; total direct cost: $200,000, annual direct cost: $66,666, no IDC; 2000-2003, pending.

“Genome-Wide Identification of Eukaryotic Promoters at Which Transcription Factors Bind Cooperatively”; A. Wagner, PI; NSF, Computational Biology Activities; $310,846, 1999–2002, not funded (rated “fund if funds available”).

WERNER-WASHBURNE, M.

“A Modified Two-hybrid System for Detection of Molecular Interactions, Including Those That Are Transient and/or That Occur in Non-dividing Cells”; M. Werner-Washburne, PI; Merck Research Foundation; $300,000, May 2000, $150,000/yr.

YATES, T.L.

“Hantavirus Ecology and Disease in Chile”; G. Mertz, T.L. Yates and B. Hjelle, Co-PIs; NIH; $3,200,000 plus $450,000 Folgerity plus-up, June 1, 1999–May 31, 2004, ~$750,000/year.


2. Awarded with 1999 initial start date.

AL TENBACH, J.S.

“Evaluation of Bat Habitat in Abandoned Mines in New Mexico”; J.S. Altenbach, PI; New Mexico Energy, Minerals and Natural Resources Division; $14,000; July 1, 1999–June 30, 2000.

BROWN, J.H.

CRIPPS, R.M.

"Genetic Control of Muscle Development in Drosophila"; R.M. Cripps, PI; American Heart Association Desert/Mountain Affiliate, Beginning Grant-in-Aid; $60,000 over two years, direct costs only, July 1999–June 2001.


DAHM, C.N.


"Collaborative Research: NO3-N Retention in Headwater Streams: Influences of Riparian Vegetation, Metabolism, and Subsurface Processes"; C.N Dahm, PI; National Science Foundation; $220,000, March 1, 1999–February 28, 2002.

"CRB: Flooding Regime and Restoration of Riparian Ecosystem Integrity"; M.C. Molles, Jr., C.N. Dahm and C.S. Crawford, co-PIs; National Science Foundation; $492,049, September 1, 1999–August 31, 2002.


DUSZYNSKI, D.W.


GOSZ, J.R.

"Research Experiences for Undergraduates Site Program with the Sevilleta LTER: Ecosystem Productivity, Biodiversity, and Systematics"; J.R. Gosz and R.R. Parmenter, co-PIs; NSF; $120,000, May 1, 1999.

KODRIC–BROWN, A.

Research Experience for Undergraduates stipend (for one student), A. Kodric–Brown, PI; NSF; Summer 1999.

LI, B.-L.

“Developing a Non-equilibrium Thermodynamic Model and Landscape Indicators for Assessing the San Pedro River Basin Vegetation Changes”; B.-L. Li, PI; EPA Landscape Ecology Branch (Las Vegas); $25,000, 100%, October 15, 1999–September 30, 2000.

LOKER, E.S.

“Biology of Trematode–Snail Associations”; E.S. Loker, PI; NIH; $1,032,435 direct costs, December 1, 1999–November 30, 2004, Year 1: $210,690, Year 2: $193,513, Year 3: $201,252, Year 4: $209,304, Year 5: $217,676.


LOWREY, T.K.

Research Experiences for Undergraduates-Sevilleta. Ecosystems Productivity, Biodiversity and Systematics”; T.K. Lowrey, Co-PI; National Science Foundation; $120,000, May 1, 1999–August 1, 2002.

MARSHALL, D.L.

REU supplement to “Can Non-random Mating Result in Evolutionary Change: A Selection Experiment Using Wild Radish as a Model System, Phase II”; D.L. Marshall, PI; National Science Foundation; $10,000, June 1, 1999–August 31, 2001.

ROA supplement to “Can Non-random Mating Result in Evolutionary Change: A Selection Experiment Using Wild Radish as a Model System, Phase II”; D.L. Marshall, PI; National Science Foundation; $18,000, June 1, 1999–August 31, 2001.


MOLLES, M.C., JR.

“Flooding Regime and Restoration of Riparian Ecosystem Integrity”; M.C. Molles, Jr., C.N. Dahm, H.M. Valett, C.S. Crawford and P.V. Unnikrishna, co-PIs; $492,000, NSF Ecosystems; 1999–2002.


“University of New Mexico/University of Alabama Integrative Graduate Education and Research Training (IGERT): Freshwater Graduate Studies Link Fundamental Science with Applications through Integration of Ecology, Hydrology, and Geochemistry in Regions with Contrasting Climates”; one of eight Biology Dept. faculty mentors; NSF; $2.8 million, 1999–2004.
NELSON, M.A.

"The Neurospora Genome Project at UNM: Expressed Sequence Analyses"; M.A. Nelson, PI; National Science Foundation; $557,798, February 1, 1999–January 31, 2002, Year 1: $176,938, Year 2: $185,786, Year 3: $195,073 (direct plus indirect costs). This grant was funded in full.

SNELL, H.L.

"Conservation of Galápagos Birds"; H. Vargas, R. Bensted-Smith, H.L. Snell, co-PIs; Galapagos Conservation Trust; $180,000, November 1999–November 2002, $60,000.

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** "Ecología de Restauración para la Diversidad Biológica en Galápagos: Recuperación de los Reptiles Endémicos"; H.L. Snell and C. Marquez, co-PIs; FUNDACYT (Ecuador's NSF); $100,000, January 1, 1999–January 1, 2001, $50,000.

** "Monitoreo Ecológico en las islas Galápagos"; H.L. Snell, A. Tye and R. Bustamante, co-PIs; Fundación Natura; $425,000, April 1, 1999–April 1, 2003, $108,000.

** "Ecological Monitoring for the Galápagos Archipielago: A Productive Program for the Conservation of Biological Diversity"; H.L. Snell and C. Causton, co-PIs; UNESCO; $92,000, June 1, 1999–June 1, 2000, $92,000.

** "Para Pegada Conservation Project"; H.L. Snell and H. Vargas, co-PIs; Worthington Foundation; $17,000, January 1, 1999–January 1, 2001, $17,000.

** "Villamil Tortoise Centre—Construction of a Laboratory"; H.L. Snell, PI; British Chelonia Group and the Galapagos Conservation Trust; $24,000, January 1, 1999–June 30, 2001, $24,000.


TURNER, T.F.

“Reconstructing the Historical Rio Grande Ecosystem: A Stable Isotope Study of Fish Communities Using Museum Specimens”; T.E. Turner, PI; UNM Large Research Allocations Award; $6,090, May 1, 1999–September 31, 1999.


WERNER-WASHBURN, M.
“Microarray Analysis of Expression During Exit from Stationary Phase in Yeast”; M. Werner–Washburne, PI; Sandia National Laboratories; $25,000, 1999.

YATES, T.L.
“Hantavirus Ecology and Disease in Chile”; G. Mertz, T.L. Yates and B. Hjelle, Co-PIs; NIH; $3,200,000 plus $450,0000 Fogerty plus-up, June 1, 1999–May 31, 2004, $750,000/year.


3. In force from previous years.

ALtenbach, J.S.

Barton, L.L.


“Mechanisms of Metal Transformation by Bacteria”; L.L. Barton is one of 15 co-PIs; NIH; $2,000,000, yearly rate to L.L. Barton = $17,500, February 1, 1996–January 31, 2001.
BROWN, J.H.


DAHM, C.N.

"IGERT: Freshwater Graduate Studies Link Fundamental Science with Applications Through Integration of Ecology, Hydrology and Geochemistry in Regions with Contrasting Climates"; A.K. Ward, A.C. Benke, C.N. Dahm, W.B. Lyons, and R.G. Wetzel, co-Pis; National Science Foundation; $2,699,289, January 1, 1999–December 31, 2003. I am the leader of the subcontract for $1,242,500 to the University of New Mexico.

"Collaborative Research: NO3-N Retention in Headwater Streams: Influences of Riparian Vegetation, Metabolism, and Subsurface Processes"; C.N Dahm, PI; National Science Foundation; $220,000, March 1, 1999–February 28, 2002.

"CRB: Flooding Regime and Restoration of Riparian Ecosystem Integrity"; M.C. Molles, Jr., C.N. Dahm and C.S. Crawford, co-Pis; National Science Foundation; $492,049, September 1, 1999–August 31, 2002.


DUSZYNSKI, D.W.


"Sevilleta LTER II: Biome-level constraints on population, community and ecosystem responses to climatic fluctuation," Parasite subproject; B. Milne, PI, and 10 co-Pis; NSF BSR-9411976; $3,700,000, October 1, 1994–September 30, 2000.

GOSZ, J.R.

“Sevilleta LTER II: Biome-level Constraints on Population, Community, and Ecosystem Responses to Climate Fluctuations”; J.R. Gosz et al., co-PIs; NSF; $540,000.

“Replacement and Consolidation of Research and Research Training Facilities of the Department of Biology; University of New Mexico”; T.L. Yates et al., co-PIs; NSF; $960,000.

KODRIC-BROWN, A.


“Forces Driving Rapid Introgression Between a Rare Pupfish (Cyprinodon pecosensis) and its Close Congener (C. variegatus)”; A. Kodric-Brown, PI; Environmental Protection Agency (award to Jon Rosenfield); $19,000, August 1998–August 2001, $6,343.

LI, B.-L.

“1998–99 SURP: Developing Ecological Indicators of Sustainable Land Use for Arid and Semi-Arid Environments”; B.-L. Li, PI; Sandia National Laboratories; $34,990, October 1, 1998–September 30, 1999, 100%.

“REU Site Program with the Sevilleta LTER: Ecosystem Productivity, Biodiversity, and Systematics”; R.R. Parmenter, J.R. Gosz, T.K. Lowrey, B.-L. Li and D.C. Lightfoot, Co-PIs; National Science Foundation; $120,000, May 1, 1999–April 30, 2002, 33%.

“Sevilleta LTER II”; J.R. Gosz, PI, B.-L. Li, Co-PI; NSF; $3,780,000, October 15, 1994–October 14, 2000, 16%.

LOKER, E.S.

“Biology of Trematode–Snail Associations”; E.S. Loker, PI; NIH, Year 5 only, $681,765 direct costs only; December 1, 1994–November 30, 1999; Year 1: $137,986, Year 2: $128,055, Year 3: $133,176, Year 4: $138,504, Year 5: $144,044.

LOWREY, T.K.


“Relocation and Compactorization of the Museum of Southwestern Biology”; T.K. Lowrey, PI; National Science Foundation; $313,000, August 1, 1997–present.

“New Mexico 130 Rare Plant Mitigation Project, Otero Co.”; T.K. Lowrey, PI; N.M. State Highway and Transportation Department; $19,900, July 1, 1998–June 30, 2000.
MARSHALL, D.L.


MILLER, R.D.

"CAREER Award: Immunological Development in a Marsupial"; R.D. Miller, PI; NSF; $322,000, October 1, 1996–September 30, 2000.


MILNE, B.T.


"Multi-scaled Ecological Assessment Methods: Prototype Development Within the Interior Columbia Basin"; B.T. Milne; EPA subaward; $120,000, 1997–99, $40,000/year.


MOLLES, M.C., JR.


NATVIG, D.O.

"Reproductive Genetics of Neurospora tetrasperma"; D.O. Natvig, PI; National Science Foundation; $158,701, June 1, 1997–May 31, 2000.


NELSON, M.A.

SNELL, H.L.


NOTE: As part of a collaborative agreement between the Department of Biology and the Charles Darwin Research Station (CDRS), I am assigned to spend two-thirds of the academic year at the CDRS in the Galápagos. Therefore, much of my professional activity involves students and staff of that institution who aren't directly related to UNM. Since this is a UNM sanctioned reassignment, I will report those activities here. To distinguish them from the direct UNM activities that I do during the remaining one-third of the academic year, they will be prefaced with "**".

** "Protección de Biodiversidad en el Volcán Alcedo (Isla Isabela), y en la Isla Santiago, Galápagos"; M. Patry, H.L. Snell, A. Tyee and R. Bensted-Smith, co-PIs; Fondo PL-480 (USAID); $200,000, January 1, 1998–January 1, 2001, $63,000.

** "Control of Introduced Predators in Galápagos"; H.L. Snell and R. Bensted-Smith, co-PIs; Frankfurt Zoological Society; $165,000, January 1, 1998–January 1, 2001, $55,000.


** "Pinzon de Manglar"; H. Vargas and H. Snell, co-PIs; Swiss Friends of Galápagos; $60,000, January 1, 1998–January 1, 2001, $20,000.

** "Ecological Restoration of Santiago Island"; M. Patry, H.L. Snell and A. Type, co-PIs; Special Expeditions Galápagos Fund; $70,000, January 1, 1998–January 1, 2001.

STRICKER, S.A.

"Roles of Serotonin and Calcium During Oocyte Maturation in Nemertean Worms"; S.A. Stricker, PI; Research Allocation Committee, UNM; $2,900, October 1998.

THORNHILL, R.

"The Scent of Symmetry"; R. Thornhill and S.W. Gangestad, PIs; Olfactory Research Fund; $46,000; July 1997–December 31, 1999, $23,000/yr.

TURNER, T.F.

VOGEL, K.G.
Howard Hughes Undergraduate Curriculum Education Initiative; K.G. Vogel, Program Director; Howard Hughes Medical Institute; total costs $1,107,350, July 1, 1992–August 31, 1999.


WAGNER, A.

“A Founding Program in Evolutionary Dynamics”; Erica Jen, PI, A. Wagner, co-PI (through the Santa Fe Institute); Keck Foundation; $1,500,000, 1999–2002.

WERNER-WASHBURNE, M.
“The Role of SNZ and SNO Proteins in the Yeast Saccharomyces cerevisiae”; M. Werner-Washburne, PI; NSF; total $110,000 (direct & indirect costs), September 1, 1998–August 31, 2000.

“Developmental Regulation of Signal Transduction: Bcy1p in Stationary-phase Yeast”; M. Werner-Washburne, PI; National Science Foundation; $240,000 plus supplements, September 1996–August 2000.

YATES, T.L.


"Response of Southwestern Mammal Communities to Global Climate Change"; T.L. Yates, PI; U.S. Fish and Wildlife Service; $267,000, September 1995–September 2000.

B. Other.

ALтенbАcH, J.S.
Ongoing research on bats and abandoned mines.

cripps, r.m.
Supervision of two full-time laboratory technicians and one work-study.

Duszynski, D.W.


Natvig, D.O.
Much of my Spring semester was devoted to our failed effort to establish an NSF Science and Technology Center for Fungal Geneomics. This involved numerous teleconferences, hundreds of
hours of preparation, and two visits to the University of Georgia for a site visit rehearsal and an actual site visit.

WERNER-WASHBURN, M.

Patents, Federal Report for OSTP/NSTC:


IV. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES.

A. Invited or Plenary Talks at Professional Meetings, Workshops, Etc.

BARTON, L.L.


BROWN, J.H.

Presented a paper to the Board of Directors, Annual Meeting of the American Society of Mammalogists, Seattle WA, June 19-24.

DAHM, C.N.


GOSZ, J.R.


International Biodiversity Observing Year (IBOY), NCEAS, "ILER and GTOS Concepts for IBOY," Santa Barbara CA, April 8.

Southwest Region AAAS Annual Meeting, AAAS, "LTER and Applications for Conservation Biology, Santa Fe NM, April 12.

Conference on Environmental Health, RAMBO, "RAMBO, LTER and Biodiversity Observing Networks," Sevillena Field Station, Soccorro NM, April 19.


Central and Eastern Europe Regional LTER Meeting, Hungarian Academy of Sciences, "ILTER and Central and Eastern Europe Networks," Budapest, Hungary, June 22.


Drylands Biodiversity Workshop, Mitrani Center for Ecology, Ben Gurion University, "Biodiversity and NPP at Global Scales," Sede Beqer, Israel, July 1.


LI, B.-L.


LOKER, E.S.


MILNE, B.T.
MOLLES, M.C., JR.
National Center for Ecological Analysis and Synthesis, “Evidential Constraints at Large Scales: Lessons from Studies along the Middle Rio Grande in New Mexico,” University of California, Santa Barbara CA, February.

NATVIG, D.O.
Nativig, D.O. and M.A. Nelson. “The Neurospora genome project at the University of New Mexico.” Invited talk at the annual meeting of the Association of Biomedical Resource Facilities (ABRF), Durham NC, March.


NELSON, M.A.


SNELL, H.L.


THORNHILL, R.

TOOLSON, E.C.

Invited presentation to the Annual Meeting of the Entomological Society of America, symposium title: "Recent Developments in Insect Thermobiology," Atlanta GA, December, declined invitation for health reasons.

WAGNER, A.

"Evolved Mutational Robustness in Genetic Networks of Yeast," The European Media Laboratory, Heidelberg, Germany, August.

WERNER–WASHBURN, M.

YATES, T.L.


The following were all invited, but no abstracts were published except for publicity. Yates, T.L. 1999. Invited lectures at University of Nebraska; Catholic University, Santiago, Chile; Department of the Interior (two talks) national safety lectures; UNM presidential Kitchen Cabinet; Federal Occupational health talk sponsored by FBI; and the National Science Foundation.

B. Contributed Talks at Professional Meetings, Workshops, Etc.

ALTENBACH, J.S.

BARTON, L.L.


BROWN, J.H.

Working Groups of National Center for Ecological Analysis and Synthesis:

- Evidence, February 27-March 2.
- Body size, July 11-14.
- Body size, November 11-15.

CRIPPS, R.M.


DAHM, C.N.


DUSZYNSKI, D.W.


GOSZ, J.R.


International Biodiversity Observing Year (IBOY), NCEAS, "ILTER and GTOS Concepts for IBOY," Santa Barbara CA, April 8.

Southwest Region AAAS Annual Meeting, AAAS, "LTER and Applications for Conservation Biology, Santa Fe NM, April 12.

Conference on Environmental Health, RAMBO, "RAMBO, LTER and Biodiversity Observing Networks," Sevilleta Field Station, Socorro NM, April 19.


Central and Eastern Europe Regional LTER Meeting, Hungarian Academy of Sciences, “ILTER and Central and Eastern Europe Networks,” Budapest, Hungary, June 22.

Central and Eastern Europe Regional LTER Meeting, Hungarian Academy of Sciences, “NPP, Biodiversity, Demonstrations Projects for ILTER,” Budapest, Hungary, June 24.


Drylands Biodiversity Workshop, Mitrani Center for Ecology, Ben Gurion University, “Biodiversity and NPP at Global Scales,” Sede Bequer, Israel, July 1.


Li, B.-L.

Li, B.-L. "A Non-equilibrium Thermodynamic Analysis of Tree–Grass Patch Dynamics in a Subtropical Savanna Parkland, Texas, USA." Fifth World Congress IALE, Snowmass Village CO, July 29–August 3.

Li, B.-L. "Multifractal and Wavelet Analysis of Vegetation Transect Data in Sevilleta LTER Site." The 84th Annual ESA Meeting, Spokane WA, August 8-12.


LIGON, J.D.

Hagelin, J. and J.D. Ligon, paper presented at Annual Meeting of the American Ornithologists' Union, Cornell University, Ithaca NY, August.

LOKER, E.S.

48th Annual Meeting of the American Society of Tropical Medicine and Hygiene, P.M. Leonard, D.C. Quintana, C.M. Adema and E.S. Loker, "Characterization of a Parasite-responsive Protein Family from the Snail Host of Schistosoma mansoni Featuring a Unique Combination of Fibrinogen and Ig V-type Domains," Washington DC, November 28–December 2.

74th Annual Meeting of the American Society of Parasitologists, P.M. Leonard, D.C. Quintana, C.M. Adema and E.S. Loker, "Characterization of a Parasite-responsive Protein Family from Biomphalaria glabrata, Featuring a Unique Combination of Fibrinogen and Ig V-type Domains," Monterey CA, July 6-9.


LOWREY, T.K.

MARSHALL, D.L.


MILNE, B.T.

TURNER, T.F.

C. Attendance at Professional Meetings, Workshops, Etc.

ALTENBACH, J.S.
Mining History Association Meetings, Ouray CO, June 3-6.

BARTON, L.L.


The 99th General Meeting of American Society for Microbiology, Chicago IL, May 30-June 3.

BROWN, J.H.

CRIPPS, R.M.

EMBO Workshop on Molecular Genetics of Muscle Development and Neuromuscular Diseases, Kloster Irsee, Germany, September 26-October 1, 1999.
DAHM, C.N.
Sevilleta Research Symposium, Sevilleta Field Station, Socorro NM, January 12-14.


American Society of Limnology and Oceanography Annual Meeting, Santa Fe NM, February 2-4.

Lotic Intersite Nitrogen Experiment (LINX) Synthesis Workshop, University of Illinois, Urbana IL, February 12-14.

Middle Rio Grande Evapotranspiration Workshop, Los Alamos National Laboratory, Los Alamos NM, February 16-17.

IGERT Principal Investigators Workshop, National Science Foundation, Arlington VA, May 13-14.

IRC-EB National Science Foundation Panel, National Science Foundation, Arlington VA, May 26-28.

Ecological Society of America Annual Meeting, Spokane WA, August 8-11.

Special Committee on Problems in the Environment (SCOPE), Corvallis OR, August 28-September 1.

United States/European Union Biotechnology Workshop, National Science Foundation, Arlington VA, September 14-16.


Duszynski, D.W.
32nd Annual Meeting, Southwestern Association of Parasitologists (SWAP), Lake Texoma OK, April 15-17.

19th Scandinavian Symposium of the Scandinavian Society of Parasitology, Reykjavik, Iceland, May 6-11.

Joint meeting of the American Society of Parasitologists (74th Annual Meeting) and the Society of Nematologists (38th Annual Meeting), Monterey CA, July 6-9.

Albuquerque TVI Arts & Sciences Advisory Committee Meeting, December.

Gosz, J.R.

AAAS Southwest Annual Meeting, Santa Fe NM, April.

Central and Eastern European Regional LTER Meeting, Budapest, Hungary, June.

Drylands Biodiversity Workshop, Sed Beqer, Israel, June–July.


Ecological Society of America, Spokane WA, August.

ILTER/South African Workshop on Long Term Research, Skukuza, South Africa, August.

Central and Eastern European Global Observing System Meeting, Budapest, Hungary, September.

Central and Eastern Europe ILTER Regional Workshop, Budapest, Hungary, September.

See also IV.A. above.

KODRIC–BROWN, A.

LI, B.-L.

Fifth World Congress IALE, Snowmass Village CO, July 29–August 3.

The 84th Annual ESA Meeting, Spokane WA, August 8-12.

LIGON, J.D.
Annual Meeting of the American Ornithologists' Union, Cornell University, Ithaca NY, August.

LOKER, E.S.
74th Annual Meeting of the American Society of Parasitologists, Monterey CA, July 6-9.

The FASEB summer research conference on “Phylogenetic Perspectives on the Vertebrate Immune Response,” Copper Mountain CO, July 11-16.

The Seventh International Symposium on Schistosomiasis, Rio de Janiero, Brazil, December 5-9.
LOWREY, T.K.
XVI International Botanical Congress, St. Louis MO, August.

MARSHALL, D.L.
Guild of Rocky Mountain Population Biologists, Boulder CO, September.


MILNE, B.T.
Annual Meeting of the International Association of Landscape Ecology, Snowmass CO, August.

Ecological Society of America, Spokane WA, August.

MOLLES, M.C., JR.
Annual Meeting of the Ecological Society of America, Spokane WA, August.

NATVIG, D.O.
20th Fungal Genetics Conference, Asilomar CA, March.

Annual Meeting of the Association of Biomedical Resource Facilities (ABRF), Durham NC, March.

MBRS Program Directors Meeting, Chantilly VA, June

Ninth International Congress of Bacteriology and Applied Microbiology of the International Union of Microbiological Societies, Sydney, Australia, August.

NELSON, M.A.

Strategic Planning Session to Consider the Development of a Regional Center for Functional Genomics, Albuquerque NM, May 10.


SNELL, H.L.
American Association for the Advancement of Science, Pacific Division, 80th Annual Meeting, San Francisco CA, June.
Annual Meeting of the Charles Darwin Foundation, Quito, Ecuador, July.

THORNHILL, R.
Human Behavior and Evolution Society annual meeting, Salt Lake City UT, June.

TURNER, T.F.
American Society of Ichthyologists and Herpetologists 79th Annual Meeting, Pennsylvania State University, State College PA, June 24-30.

VOGEL, K.G.
Orthopaedic Research Society Annual Meeting, Anaheim CA, February.
Session Chairman, Molecular Biology of Cartilage Development, Lake Tahoe CA, June.

WAGNER, A.
Conference of the International Society for Mathematical Biology, Amsterdam, The Netherlands, July.
The European Media Laboratory, Heidelberg, Germany, August.

WERNER-WASHBURNE, M.
Microbial Genomes Meeting, Chantilly VA, February.
National Academy of Sciences meeting on Intellectual Property, February.
Non-mammalian Models Workshop, National Institutes of Health, Bethesda MD, March.
Zeta Phi Beta symposium on the Human Genome Program, New Orleans LA, April 16.
American Society for Microbiology, Chicago IL, May.

YATES, T.L.
American Society of Tropical Medicine and Hygiene Annual Meeting, Washington DC, December.
Ecological Society of America Annual Meeting, Walla Walla WA, August.

D. Service as Editor of Scholarly Journal.

DAHM, C.N.
MILLER, R.D.
Guest Editor, Special issue of Developmental and Comparative Immunology

WAGNER, A.

Molecular Evolution and Development (a subsidiary of The Journal of Experimental Zoology, 1999–present.

E. Service on Editorial Board of Scholarly Journal.

BARTON, L.L.
Member of Editorial Board for the international journal BioMetals.

BROWN, J.H.
Ecological Society of America (Chaired Publications Visions Committee)

GOSZ, J.R.
Biogeochemistry

LI, B.-I.

MILNE, B.T.
Subject editor, Conservation Ecology, 1996–

Editorial Board, Landscape Ecology, 1998–

NELSON, M.A.
Associate Editor, Fungal Genetics and Biology, since 1998.

Editorial Board, Functional & Integrative Genomics, since 1999 (first issue January 2000).

SNELL, H.L.
Noticias de Galápagos

STRICKER, S.A.
Acta Zoologica

VOGEL, K.G.
Member of Editorial Board:
> Journal of Orthopaedic Research
YATES, T.L.
Managing editor, Museum of Southwestern Biology publication series.

F. Service as Officer of Professional Organization (indicate whether Elected or Appointed).

BARTON, L.L.
Secretary of International Biometals Society (appointed).
Member on Steering Committee for International Society for Iron Nutrition and Interaction in Plants (appointed).

CHARNOV, E.L.

DAHM, C.N.
Chair of the Science and Policy Committee for the North American Benthological Society (appointed).

DUSZYNSKI, D.W.
Archivist, Annual Coccidiosis Conference. Appointed.
Archivist, Southwestern Association of Parasitologists. Appointed.
Research Affiliate, The Harold W. Manter Laboratory of Parasitology, University of Nebraska State Museum, Lincoln NE. Elected.
Albuquerque TVI, Arts & Sciences Advisory Committee. Appointed.

GOSZ, J.R.
Board of Governors, Ecological Society of America, Elected.
Chairman, U.S. LTER Coordinating Committee, Elected.
Chairman, International LTER Network Committee, Elected.
Chairman, Global Terrestrial Observing Systems Science Steering Committee, Appointed.
Advisory Board, Directorate for Social, Behavioral and Economics, NSE.
Advisory Board, Division of International Programs, NSF.

LI, B.-L.
Statistical Ecology Program Committee of International Association for Ecology (INTECOL), Member, 1997–2002.

LOKER, E.S.
Co-Chair of the Local Organizing Committee for the 2001 Meeting of the American Society of Parasitologists in Albuquerque NM.

LOWREY, T.K.

Member, Publicity Committee, American Society of Plant Systematists, 1999–2000 (appointed).

NELSON, M.A.
New Mexico Computational Biology Committee, member, 1994–present (appointed).

Neurospora Policy Committee, 1997 (four-year term) (elected).

VOGEL, K.G.

Member, Board of Directors, Orthopaedic Research Society.

YATES, T.L.
Board of Directors (or equivalent):
> American Society of Mammalogists (elected);
> Society of Systematic Biology (elected);
> Southwestern Association of Naturalists (elected);
> Peromyscus Stock Center (appointed);
> Association of Systematic Collections (elected).

Chairman, Board of Trustees, American Society of Mammalogists (ASM).

Member Board of Trustees, Southwestern Association of Naturalist.

Chair, Animal Care and Use Committee, ASM.

Member International Relations Committee, ASM.

Member, Executive committee, section on Ecology, NASULGC.
G. Other.

MARSHALL, D.L.
Botanical Society of America Committees:
Membership Committee;
Ad-hoc Committee on candidates for editor of *American Journal of Botany*.

Ecological Society of America:
MacArthur Award Committee.

V. OTHER PROFESSIONAL ACTIVITIES.

A. Colloquium Presentations, UNM and Elsewhere.

BROWN, J.H.
University of Manitoba, Lubinski Lecture, April 1.

LI, B.-L.
Computer Science Department Colloquium, Emergence of Scaling in Ecological Systems: Analytical and Numerical Approaches, UNM, November 18.

LIGON, J.D.

VOGEL, K.G.
Department of Orthopaedics, University Hospital, Providence RI, March 24.

WAGNER, A.
“Evolution of Gene Networks,” Department of Biology, University of Oregon, Eugene OR, May.

WERNER–WASHBURNE, M.

B. Seminar Presentations, UNM and Elsewhere.

BROWN, J.H.
Stanford University, February 1.
University of Manitoba, Lubinski Lecture, April 1.
Michigan State University, April 6.
Harvard University, May 20.
University of California, Santa Barbara, September 8.
Cornell University, October 18.
University of California, Los Angeles, November 8.

Spring: Wednesday noon “Brown Bag” seminar (Biol. 502-002)
Wednesday afternoon “Complexity” seminar (Biol 502-017)

CHARNOV, E.L.
University of Michigan, Ann Arbor MI, January.
University of Utah, Salt Lake City UT, December.

CRIPPS, R.M.
Cell and Molecular Biology Seminar, UNM Biology.
Developmental Biology Journal Club, UNM Health Sciences Center.
Cell Biology Department Seminar, UNM Health Sciences Center.

DAHM, C.N.
“Hydrogeology and Biogeochemistry of the Surface Water and Ground Water Interface of a Mountain Stream” departmental seminar in the Department of Earth and Planetary Sciences, The University of New Mexico, November 5.

DUSZYNSKI, D.W.

KODRICH-BROWN, A.

Fall: University of California–Santa Barbara
Cornell University, Ithaca, NY
Cape Town University, Cape Town, South Africa

LI, B.-L.
University Utrecht Department of Plant Ecology and Evolutionary Biology Seminar: Self-thinning Pattern Formation: a Physical Approach, Wentgebouw, the Netherlands, July 6.

Mathematical and Statistical Department Seminar: Emergence of Ecological Scaling: Self-Thinning Pattern Formation and Others, UNM, October 1.

LOKER, E.S.

Graduate group in parasitology, "Flukes and Snails: Models to Study Evolution of Immune Systems and Host-parasite Associations," University of Pennsylvania, Philadelphia PA, September 27.

MARSHALL, D.L.
University of Oklahoma, Norman OK, April

University of Colorado, Boulder CO, September

MILNE, B.T.
Center for Advanced Studies, The University of New Mexico, "Computation in Ecological Landscapes."

Computer Science Department, The University of New Mexico, "Computation in Ecological Landscapes."


Department of EPOB, University of Colorado, "Self-organization in Landscapes: Coupled Models of Terrain and Vegetation," Boulder CO.

Invited classroom lecture, University of Colorado, "Ecological Stability Theory," Boulder CO.

SNELL, H.L.

STRICKER, S.A.
"Calcium and ER Dynamics During Oocyte Maturation," Friday Harbor Laboratories, Friday Harbor WA, July.

VOGEL, K.G.
Department of Biomedical Engineering, Cleveland Clinic and Research Foundation, Cleveland OH, March 26.

WERNER–WASHBURN, M.
"Genomics 101," for Sandia National Laboratories scientists and UNM administrators, Department of Biology, UNM, November.

C. Testimony in a Scholarly Capacity at Hearings of Commissions, Legislative Committees, Etc.

GOSZ, J.R.
Presentations to members of the New Mexico Congressional Delegation and their staff on Scientific Issues regarding the University of New Mexico Federal Priority List.
LIGON, J.D.

Report on recommendation to N.M. Department of Game and Fish to list the Lesser Prairie Chicken as Endangered, as my responsibility as the member of a peer review panel from UNM. Originally appointed by President Peck.

YATES, T.L.

Expert Witness, Babbott Case, Washington DC

D. Presentation to General Audience in a Scholarly Capacity.

ALtenbach, J.S.

Bats and Abandoned Mines. A presentation to the annual meeting of the NM Chapter of the New Mexico Mining engineers, Socorro NM, April 16.

Bats, An Evening with Scott Altenbach. Invited lecture presented to the participants and visitors at the bats/abandoned mines workshop in Reno NV, June 9.

Wings in the Night. Address presented at Festival of the Cranes, November 18.


Cripps, R.M.

TV interview for Muscular Dystrophy Association Telethon, August 1999

Published interview in UNM's The Daily Lobo, Fall 1999

Snell, H.L.


Wagner, A.

“The small world problem in Genetics,” Lecture at the Austrian–American Week, UNM, November.

Werner-Washburne, M.

E. Service in a Scholarly Capacity as Member of Local, State or National Panel, Committee, or Commission, for Purpose of Reviews of Public Policy Issues, Scientific Evaluations, Awards of Grants or Fellowships or Prizes, Etc.

ALTENBACH, J.S.
Reviewer for grant applications for Bat Conservation International, Austin TX.
Advisor to the New Mexico Chapter of the Nature Conservancy on the Jornada del Muerto bat caves.
Advisor to the University of Wisconsin, Milwaukee, on the Neda Mine Bat Hibernaculum, Dodge Co., WI.

BARTON, L.L.
Reviewed three grant applications for National Research Agricultural Competitive Grants Program, Washington D.C.
Reviewed one grant application to National Research Council of Canada.

CRIPPS, R.M.
Member, Grove and Springfield Scholarship Committee, UNM Biology Dept.

DAHM, C.N.

DUSZYNISKI, D.W.
Outside Reviewer, three NSF grant proposals.
Asked to serve on NSF Panel for Living Stock Collections. Declined.

GOSZ, J.R.
Advisory Panel for the Joint Infrastructure Fund for the United Kingdom. (Reviewed proposals for Academic Infrastructure Development in U.K.)
Advisory Panel for the Canadian Infrastructure Program, Environment Canada. (Proposal reviewer for Research Infrastructure Development in Canada)
Scientific Advisory committee for the Smithsonian Environmental Research Center.
Scientific Advisory Committee for the National Canopy Crane Facility of the U.S. Forest Service, Washington.
Scientific Advisory committee for Congresswoman Heather Wilson.
Proposal Reviewer for NSF (8 proposals)

Proposal Reviewer for NASA (2 proposals)

KODRIC-BROWN, A.
Spring: Member and reviewer, Animal Behavior Grants Committee

LI, B.-L.
Judge, Buell/Braun Awards, Ecological Society of America

LIGON, J.D.
NSF proposal reviews (2)

LOWREY, T.K.
Member, New Mexico Rare Plant Technical Council

Member, U.S. Fish and Wildlife Service Plant Recovery Team

Ad hoc Reviewer, National Science Foundation, three grant proposal reviews

MARSHALL, D.L.
NSF proposals reviewed (2)

MILLER, R.D.
Ad hoc grant review panel: NSF, Signal transduction section

Invited Participant, NSF national workshop for CAREER awardees

MILNE, B.T.
Water, Earth and Biota (WEB). Member of a working group to formulate a vision statement for a hydrological research agenda, as service to the National Science Foundation. V.K. Gupta, Chair, 1999–present.

MOLLES, M.C., JR.
Appointed by National Academy of Sciences to the National Research Council Special Committee on Riparian Zones to write a position book for the nation, 1999–2000.

National Center for Ecological Analysis and Synthesis Working Group Member, Scientific Evidence Project, 1999–2001, University of California, Santa Barbara CA.

Invited by the National Science Foundation to attend workshop and write white paper for NSF on “Frontiers in Ecology,” December.
NATVIG, D.O.
Reviewed one NSF proposal
Reviewed Genomics grant proposal for NSERC of Canada.

NELSON, M.A.

SNELL, H.L.
Member, N.M. Department of Game and Fish Non-Game Review Panel.

TURNER, T.F.
Panelist, U.S. Bureau of Reclamation, Grand Canyon Monitoring and Research Center, Flagstaff AZ, October. Evaluated proposals related to generic work on endangered fishes of the Colorado River drainage.

VOGEL, K.G.

WERNER-WASHBURNE, M.
Ad hoc member, NIH Genomics panel, June.
Coordinator, federal committee to write report on “Federal Investment in Microbial Genomics,” April–July.

YATES, T.L.
Expert Panel, NIH, Ecology of Infectious Diseases Review Panel, NSF

F. List Journals and the Number of Papers You Refereed for Each in 1999.

ALTENBACH, J.S.
Journal of Mammalogy (1)

BARTON, L.L.
Canadian Journal of Microbiology (1)
Anaerobe (2)
Journal of Plant Nutrition (2)
Applied and Environmental Microbiology (3)
Biometals (2)
Antoine Von Leeuwenhoek Journal of Microbiology (1)
BROWN, J.H.

CRIPPS, R.M.
Developmental Biology (5)
Journal of Cell Science (1)

DAHM, C.N.
Ecology (12)
Ecological Monographs (2)
Journal of the North American Benthological Society (1)

DUSZYNSKI, D.W.
Acta Protozoologica (1)
Folia Parasitologica (3)
Journal of Eukaryotic Microbiology (1)
Journal of Parasitology (3)
Southwestern Association of Naturalists (2)
Transactions of the Royal Society of South Australia (1)

GOSZ, J.R.
Journal of Vegetation Science (2)
Ecological Applications (2)
Ecology (1)

LI, B.-L.
Ecosystems (1)
Ecosystem Health (1)
Contributions to Atmospheric Physics (1)
Landscape Ecology (1)
Ecological Modelling (4)

LIGON, J.D.
Behavioral Ecology and Sociobiology (1)
Behavioral Ecology (1)
Wilson Bulletin (1)
Biological Conservation (1)

LOKER, E.S.
Experimental Parasitology (2)
International Journal for Parasitology (1)
Canadian Journal of Zoology (1)
Parasitology (2)
Journal of Parasitology (6)
Developmental and Comparative Immunology (1)
Biological Bulletin (1)
American Journal of Tropical Medicine and Hygiene (2)
Wellcome Trust Grant Proposals (2)
Maryland Sea Grant Proposals (1)
Austrian Academy of Sciences Proposal Review (1)

LOWREY, T.K.
Systematic Botany (2)
American Journal of Botany (1)
Sida (1)
Phytologia (1)
Journal of Biogeography (1)

MARSHALL, D.L.
American Journal of Botany (3)
Evolutionary Ecology Research (1)
Canadian Journal of Botany (1)

MILLER, R.D.
Journal of Immunology (3)
Laboratory Animal Science (1)
The Anatomical Record (1)

MILNE, B.T.
Landscape Ecology (1)
Nature (1)
Oecologia (1)

NATVIG, D.O.
Proceedings of the National Academy of Sciences USA (1)
Fungal Genetics and Biology (1)
Genetics (1)
Journal of Clinical Microbiology (1)

NELSON, M.A.
Fungal Genetics and Biology (3)
Reviewed three proposals for the National Science Foundation

SNELL, H.L.
Noticias de Galápagos (2)
Informe de Galápagos (3)
STRICKER, S.A.

*Developmental Biology* (3)
*Acta Zoologica* (1)
*International Journal of Developmental Biology* (1)

THORNHILL, R.

Numerous journals in biology, psychology and anthropology

TURNER, T.F.

*Copeia*, the journal of the American Society of Ichthyologists and Herpetologists (3)
*Journal of Heredity* (1)
*Marine Ecology Progress Series* (2)
*Canadian Journal of Fisheries and Aquatic Sciences* (1)
NSF Systematics Program, 2 proposals

VOGEL, K.G.

*Journal of Orthopaedic Research* (12)
*Archives Biochemistry & Biophysics* (1)
*European Journal of Cell Biology* (1)
*Journal of Shoulder and Elbow Surgery* (1)
*Cell and Tissue Research* (1)
*Canadian Research Council* (1)

WAGNER, A.

*Proceeding of the National Academy of Sciences U.S.A.* (1)
*Discrete and Applied Mathematics* (1)
*Molecular and Developmental Evolution* (1)
*Advances in Complex Systems* (2)
NSF (4)

WERNER-WASHBURNE, M.

*Genetics* (~15)
*Gene* (~15)
*European Molecular Biology Organization* (~20)

VI. NON-TEACHING UNIVERSITY, COLLEGE AND DEPARTMENT SERVICE.

A. Symposia, Workshops, Conferences, Etc., Sponsored, Hosted, Organized.

BARTON, L.L.

International Steering Committee for Second International Biometals Symposium to be held in Tuebingen, Germany, April 24-29, 2000.
GOSZ, J.R.
Co-organizer, with Dr. Angela Karp of the University of Bristol in England, of a workshop on “The Use of Molecular Methods in Ecology” at the National Science Foundation September 14-15. This workshop was held as part of the Ninth Annual Meeting of the U.S.—E.C. Task Force on Biotechnology Research, Arlington VA.

LIGON, J.D.
Workshop for Santa Fe school teachers about teaching birds/natural history to kids, Santa Fe NM, March.

LOWREY, T.K.
New Mexico Rare Plant Technical Council Meeting, Sevilleta Field Station, Socorro NM, November.

NELSON, M.A.
Co-organizer of Neurospora 2000 Conference (annual meeting sponsored by the Neurospora Policy Committee), to be held in Asilomar CA, March 9-12, 2000.

Co-organizer of meeting (with M. Altherr, Los Alamos National Laboratory), Strategic Planning Session to Consider the Development of a Regional Center for Functional Genomics, Sheraton Old Town, Albuquerque NM, May 10.


SNELL, H.L.

WERNER—WASHBURN, M.
Two meetings of the Southwest Genomics and Biotechnology Alliance.

YATES, T.L.
Organized and hosted two workshops on emerging threat analysis, one in Santa Fe NM and the other at the Sevilleta Field Station, Socorro NM.

B. Distinguished Departmental Visitors You Hosted.

BROWN, J.H.
Maya Paczuski, visiting lecturer for Ecological Complexity Seminar. Steve Carpenter, visiting lecturer for Ecological Complexity Seminar.

DAHM, C.N.
Dr. Mike Billett, University of Edinburgh, Scotland
Dr. Indrajet Chaubrey, University of Alabama

Dr. Alistar Robertson, Charles Sturt University, Australia. Dr. Robertson was a sabbatical guest I hosted from September 1999–January 2000 at the University of New Mexico.

Dr. Diane Hope, Arizona State University

Dr. Peter Jacobson, Grinnell College

DUSZYNSKI, D.W.
Dr. Duane Lassen, Associate Dean, College of Veterinary Medicine, Colorado State University, Ft. Collins CO, April 27.

GOSZ, J.R.
Dr. Bruce Hayden; Division Director, Environmental Biology, NSF

Dr. Harry Biggs, Park Director, Kruger National Park, South Africa

LIGON, J.D.
Dr. Geoff Hill, Auburn University, Auburn AL.

LOWREY, T.K.
Professor Christopher Quinn, University of New South Wales, Sydney, Australia, June–October.

Dr. Scott Kelley, University of Colorado, Spring.

MILNE, B.T.
My lab hosted Maya Pachuski from Texas A&M as part of the complexity RTG. Carla Restrepo was responsible for this visit.

NELSON, M.A.
Anne Stone, UNM Department of Anthropology, April 23.

Michael Waterman, University of Southern California, April 26 (as part of the AHPGC Seminar Series).

STRICKER, S.A.
Prof. Baldomero Olivera, Department of Neurosciences, University of Utah (as part of 1999 Research Day).

THORNHILL, R.
Dr. Steve Shuster, Department of Biology, Northern Arizona University, Flagstaff AZ.
C. Committee Service.

1. Departmental committees served on in 1999 (indicate chair with asterisk).

ALtenbach, J.S.
Undergraduate Policy Committee
*Graduation Committee
Plant Physiological Ecologist search committee

Barton, L.L.
Spring: Graduate Policy Committee
Fall: Graduate Student Selection Committee
      the Microbiology Facility Committee

Grove Scholarship Committee
*Microbiology Search Committee

Charnov, E.L.
Spring: Graduate Student Selection Committee
      Museum of Southwestern Reorganization Committee
      Biology Salary Committee
Fall: *Graduate Student Selection Committee

Cripps, R.M.
* Departmental Seminar Committee
Graduate Policy Committee
Space/Buildings Committee
Grove and Springfield Scholarship Committee

Dahm, C.N.
Library Liaison Committee
Chair’s Executive Committee
Microbiology Search Committee

Duszynski, D.W.
*Biological Society of New Mexico
Field Program Committee
Chairperson’s Advisory Committee
*Space Committee
GOSZ, J.R.
Space Committee
*Grove Scholarship Award Committee

KODRIC-BROWN, A.
Spring: Graduate Policy Committee; worked on outcomes assessment and evaluation forms for graduate students.

LI. B.-L.
Committee for Graduate Research Training in Ecological Complexity (1998–present)
Undergraduate Policy Committee (1998–May 1999)
1999 Research Day Organizing Committee
Computer Facility Committee

LIGON, J.D.
Phylogeneticist Search Committee
Space Committee
Graduate Selection Committee (no work in 1999)

LOKER, E.S.
Spring: *Space Committee
Ad Hoc Committee for Reorganization of the Museum of Southwestern Biology

LOWREY, T.K.
*Phylogeneticist Faculty Search Committee
Space Committee
Greenhouse Committee

MARSHALL, D.L.
*Greenhouse Committee
Space Committee
*Plant Physiological Ecologist Search Committee

MILLER, R.D.
Undergraduate Policy Committee
Microbiology Faculty Search Committee
Departmental Safety Committee
Executive Council

MILNE, B.T.
NATVIG, D.O.
Space Committee
Microbiology Committee

NELSON, M.A.
Library Liaison
Undergraduate Policy Committee
* Microbiology Committee

SNELL, H.L.
Field Trip Committee.

STRICKER, S.A.
*Research Day, 1999
*Computer Use Committee, chair
*Research Day, 2000

THORNHILL, R.
* Graduate Policy Committee

TURNER, T.F.
Graduate Student Selection Committee
Biology Department Executive Committee
Research Day Committee
Phylogenetics Search Committee
MSB Executive Committee

VOGEL, K.G.
Graduate Student Selection Committee*
Research Day Committee
Salary Committee

WAGNER, A.
Plant Physiological Ecologist Search Committee
Animal Physiology Search Committee
Computer Committee

WERNER-WASHBURN, M.
*Physiology Search Committee
Executive Committee

YATES, T.L.
Space Committee
Bookstore Renovation Committee
2. College/University committees served on in 1999 (indicate chair with asterisk).

BARTON, L.L.
Member of Admissions and Registration Committee

CRIPPS, R.M.
Radiation Control Committee

DAHM, C.N.
Curriculum Committee, College of Arts and Sciences
Graduate Advisor's Committee, College of Arts and Sciences

GOSZ, J.R.
Federal Priorities Committee (Office of the Vice President for Institutional Advancement; Judy Jones)

KODRIC-BROWN, A.
Spring: Member, Research Allocation Committee

LI, B.-L.
Research Allocations Committee (1999–2001)
Scientific and Engineering Computation Program Committee (1998–present)

LIGON, J.D.
A&S Senior Promotion Committee

LOKER, E.S.
Review of proposals for Hispanic Serving Institutions Education Grants Program

LOWREY, T.K.
Academic Freedom and Tenure Committee

MARSHALL, D.L.
NCA Self-Study Steering Committee

MILNE, B.T.
Center for Advanced Studies Steering Committee

Tenure and Promotion Committee to review Code 3 files for A&S.
NATVIG, D.O.
MBRS advisory committee

NELSON, M.A.
SEC Program Committee (since 1997)
AHPCC Associated Faculty Group (Charter member)
A&S Junior Faculty Promotion and Tenure Committee for 1999-2000
Protein Chemistry Laboratory Advisory Group (UNM Medical School)

SNELL, H.L.
Latin American Institute Grants and Awards Committee.

VOGEL, K.G.
Rhodes Scholarship Interview Committee, November 1999

WAGNER, A.
Library Liaison Committee
SEC (Science and Engineering Council) Program Committee

YATES, T.L.
* EMIS (Co-chair)
* Provost Search
* Main Campus animal Care and Use
Health Sciences Center Animal Care and Use

D. Other.

DAHM, C.N.
Advisory field trip for The Nature Conservancy to their riparian restoration projects on the Gila and Mimbres rivers of New Mexico, November 12-14.

Sampling expedition to Spider Cave in Carlsbad National Park, October 2-4.

LI, B.-L.

LOKER, E.S.
Partial funding, design and implementation of a Biology Department Lecturer III position.

MARSHALL, D.L.
Spring: Director, Student Outcomes Assessment

MILLER, R.D.
Pre-veterinary Student Advisor
Honors Advisor

MILNE, B.T.
Faculty Mentor for Drs. Larry Li and Andreas Wagner, 1997-99.

NATVIG, D.O.
Co-director of the UNM MBRS program.

NELSON, M.A.
Mentored one undergraduate student, Brauer Trammel, in the UNM Research Opportunity Program, Summer 1999.

Mentored two undergraduate students, Diego Martinez and Christina Flores, in the Minorities in Biomedical Research Support (MBRS) Program

Mentor for a Regents' Scholar (Elizabeth Patrick)

TURNER, T.F.
Development of MSB Fishes Web Page.

Supervised accessions and cataloging of more than 100,000 specimens.

Participated in planning and monitoring MSB renovation activities at weekly construction meetings.

WAGNER, A.
Academic Appointments: External Faculty Member, The Santa Fe Institute (SFI), Santa Fe NM, 1999–present.

NSF Site Visit Rehearsal for the “STC for Fungal Genomics” at the University of Georgia, Athens GA, February.

Member, Fellows-at-large Selection Committee, SFI, Santa Fe NM, 1998–present.

Theme Coordinator for Research Program on “Evolutionary Dynamics,” funded by the Keck Foundation, SFI, Santa Fe NM, 1999–present.

Site visit to Seattle, WA, with a delegation of SFI researchers as part of a program to establish research collaborations between SFI and the Fred Hutchinson Cancer Center, Seattle WA, April.

WERNER–WASHBURNE, M.
Interim Director, Southwest Genomics and Biotechnology Alliance, http://www.sandia.gov/swgaba/
VII. ADVANCED STUDY AND NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

BROWN, J.H.
UNM Annual Research Lecturer, 1999

CHARNOV, E.L.
MacArthur Fellow, 1997–02

GOSZ, J.R.
Twentieth Century Distinguished Service Award, Ninth Lukacs Symposium, Society for Statistics, Ecology and Environment.

MOLLES, M.C., JR.
Named to the Potter Chair of Plant Ecology in the UNM Department of Biology.

National Center for Ecological Analysis and Synthesis Working Group Member, Scientific Evidence Project, 1999–2001, University of California, Santa Barbara CA.

SNELL, H.L.
Re-assignment to the Charles Darwin Research Station (CDRS), in Galápagos Islands, Ecuador, as Program Leader for Vertebrate Restoration Ecology and Ecological Monitoring under collaborative agreement between Biology Department and the CDRS.

VIII. SABBATICALS, LEAVES OF ABSENCE, SUMMER TEACHING ELSEWHERE, TRAVEL, ETC., DURING THE PERIOD.

BROWN, J.H.
Fall: UNM Faculty Sabbatical

DUSZYNSKI, D.W.
Presented a Workshop on the Biology and Identification of Coccidian Parasites of Wild and Domestic Animals: Departamento de Zootechnia, Universidade Estadual Paulista, Ilha Solteira/SP, Brazil, August.

Traveled to the following places on some aspect of teaching, research or professional service in 1999:
- Belém, Rio de Janeiro, Sao Paulo & Ilha Solteria, Brazil (research, teaching)
- Belize, Central America (teaching)
- Halifax, Nova Scotia (service)
- Lake Texoma, OK (research)
- Monterey, CA (research)
- Reykjavik, Iceland (research)
- San Jose, Costa Rica (service)
- San Juan, Puerto Rico (service)
KODRIC-BROWN, A.
Fall: Sabbatical leave to National Center for Ecological Analysis and Synthesis, NCEAS, University of California–Santa Barbara.

LOKER, E.S.
On sabbatical, starting in Fall Semester. My major goals for the sabbatical are to work on writing a book to be tentatively entitled *Parasites: The Biology of Infectious Organisms*. This process is well-underway.

I also have spent considerable time initiating activities associated with two new grants, including hiring of two post-docs and undertaking collection trips associated with the projects.

Travel:
>- Cuba, June 21-28, to collect snails with the help of Cuban colleagues.
>- Brazil, August 1-14, to collect snails and parasites with help of Brazilian colleagues in Belo Horizonte and Rio de Janeiro.
>- Brazil, November 27-December 10, to collect snails and parasites near Recife, Brazil, to consult with colleagues at FIOCRUZ in Rio de Janeiro, and to attend scientific meeting.

LOWREY, T.K.
Biol. 461, Introduction to Tropical Biology, class field trip, Belize, Central America, March.

MARSHALL, D.L.
Fall: Sabbatical at the University of Colorado in Boulder, CO.

MILNE, B.T.
Fall: Sabbatical, University of Colorado, Institute of Arctic and Alpine Research, Boulder CO.

MOLLES, M.C., JR.
Developed and taught summer course in tropical forest ecology (Biol. 407, Bosque Biology) in Costa Rica.

NATVIG, D.O.
Spring: Sabbatical (in residence at UNM).

NELSON, M.A.
Fall: Sabbatical, Fall 1998–Spring 1999 (in residence at UNM).

THORNHILL, R.
Spring: Sabbatical leave for travel and research in the West Indies.

TURNER, T.F.
Traveled to Venezuela January 1-18, 1999 to conduct field component of a population genetic study of migratory fishes in the Rio Orinoco Basin, funded by the National Geographic Society.
WERNER-WASHBURNE, M.

Leave of Absence September 1998–September 1999; Program director for Microbial Genetics, National Science Foundation. Awarded outstanding program officer award for MCB Division, nominated for NSF Director’s award, and received a special merit award from Rita Colwell, Director of NSF.

IX. PUBLIC SERVICE.

ALTENBACH, J.S.
Advisor to the City of Albuquerque on the Bat Habitat Project in the Montaño Bridge.

CRIPPS, R.M.
TV interview for Muscular Dystrophy Association Telethon, August 1999

Telephone conversations with school students and teachers concerning genetics, Cleveland Middle School [Didi Acosta, teacher], Albuquerque Academy, and Roosevelt Middle School.

DAHM, C.N.
Science Judge, Mountain View Middle School, February 4.

LI, B.-L.
The N.M. High School Regional Supercomputing Challenge

MARSHALL, D.L.
Local arrangements, Expanding Your Horizons Conference, March

Lab demo and tours for senior elementary class, Escuela del Sol, March

NELSON, M.A.
Lead Judge for the 1999 National Native American Science & Engineering Fair, March 4-6.

Court Appointed Special Advocate (addressing child abuse and neglect).

Panel member for the Student Endocrinology Workshop, UNM Medical School, September 17-18.

THORNHILL, R.
Training two high school students in my laboratory.

WERNER-WASHBURNE, M.

Work at NSF. I contributed to positioning NSF in the area of microbial genomics (funding four large proposals in this area) and represented NSF at numerous meetings at NIH, TIGR and elsewhere. I received two awards from NSF for this work.

I helped the State of Alaska EPSCoR committee and faculty participants develop a proposal for
genomic research through a visit in August 1999, review of a proposal, and another review visit in 2000, organized by AAAS.

APPENDIX G

PROFESSIONAL
& TECHNICAL
SUPPORT STAFF,
FY 1999–00
<table>
<thead>
<tr>
<th>EMPLOYEE</th>
<th>TITLE</th>
<th>GRANT P.I.</th>
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<td>ADEMA, COENRAAD</td>
<td>SR. RESEARCH SCIENTIST I</td>
<td>LOKER, E</td>
<td>5/1/93-7/31/01</td>
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<td>ATENCIO, LUPE</td>
<td>ACCOUNTANT I</td>
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<td>6/22/99-12/31/04</td>
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<td>AVRITT, JOY</td>
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<td>MARSHALL, D</td>
<td>8/1/94-12/31/00</td>
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<td>BAKER, MICHELLE</td>
<td>POSTDOCTORAL FELLOW</td>
<td>MILLER, R</td>
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<td>BLANKMAN, DAVID</td>
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<td>RESEARCH ASSOCIATE PROFESSOR</td>
<td>DAHM, C</td>
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<td>BRANDT, CAROL</td>
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<td>YATES, T</td>
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<td>BRUNT, J</td>
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APPENDIX H

ANCILLARY FACULTY
DEPARTMENT OF BIOLOGY
ANCILLARY FACULTY
FY 1999-00

JOINT APPOINTMENTS (with other departments or areas)

Sarah Allen, Assoc. Prof., Internal Medicine
Brian Hjelle, Assoc. Prof., Dept. of Medicine
Frederick Koster, Prof., Dept. of Medicine
Miriam Roman, Asst. Prof., Valencia Campus
Sherry Rogers, Assoc. Prof. of Anatomy
Henry Shapiro, Assoc. Prof. Of Computer Sci.
Ursula Shepherd, Asst. Prof., Univ. Honors Program
John Trotter, Prof., Anatomy

ADJUNCTS (not on UNM payroll):

Richard Aguilar, Forest Service, Adj. Asst. Prof.
Craig R. Baird, Adj. Prof.
Susan M. Barns, Res. Asst. Prof.
David Bleakley, Assoc.
Michael Bogan, Res. Prof.
David Breshears, Res. Asst. Prof.
Ralph T. Bryan, Adj. Res. Prof.
Richard A. Byles, USFWS, Adj., Asst. Prof.
Jack L. Carter, The Colorado College, Associate
Jean-Luc Cartron, Res. Asst. Prof.
David M. Chapin, Univ. of Washington, Res. Asst. Prof.
James Cheek, Res. Asst. Prof.
James Childs, Adj. Assoc. Prof.
Roger Conant, UNM, Adj. Prof.
John O. Corliss, UNM, Adj. Prof.
David Cowley, North Carolina State, Adj. Asst. Prof.
Nancy Cox, Associate
Clifford S. Crawford, Res. Prof.
Harry Crissman, Los Alamitos National Labs, Adj. Prof.
David C. Deardorff, Adj. Prof.
Robert Dickerman, Res. Assoc. Prof.
Christopher A. Field, Res. Prof.
Deborah Finch, Res. Asst. Prof.
Richard Forbes, Res. Prof.
Jacob Frenkel, Adj. Prof.
Jennifer Frey, Res. Asst. Prof.
Vincent Gutschick, NMSU, Res. Prof.
Charles Gwo, Res. Asst. Prof.
David Hafner, NMMNH, Res. Assoc. Prof. & Visiting Scholar
Robert Harrison, Res. Asst. Prof.
Bill Hevron, Associate
Davis Hsi, NMSU, Adj. Prof.
John P. Hubbard, NMGSF, Adj. Assoc. Prof.
Mary Stuever, Assoc.
Eleonara Trotter, UNM, Res. Asst. Prof.
Randy Jennings, Adj. Asst. Prof.
Kathryn M. Jacobson, Res. Asst. Prof.
Peter Jacobson, Res. Asst. Prof.
Karl Johnson, Res. Prof.
Mahmood Kassam, Ryerson University (Canada), Res. Prof.
Donald W. Kaufman, Res. Prof.
Glennis A. Kaufman, Res. Asst. Prof.
Timothy Keitt, Visiting Asst. Prof.
Jeffrey Kelly, USDA, Res. Asst.
William J. Kuipers, Adj. Asst. Prof.
Samuel Kunkle, Adj. Prof.
Juanita Ladyman, Adj. Assoc. Prof.
James Lewis, Res. Prof.
Ronald D. Ley, Lovelace foundation, Adj. Prof.
Karen Lightfoot, Associate
John E. Lobdell, Univ. of Alaska, Adj. Assoc. Prof.
Lawrence M. Mallory, Res. Assoc. Prof.
Patricia Mehhop, Nature Conservancy, Adj. Asst. Prof.
Gary S. Morgan, Associate
Paul J. Polechla, Res. Assoc. Prof.
Deborah Potter, Res. Asst. Prof.
Arian Pregenzer, SNL, Res. Prof.
Eric M. Reminger, Res. Asst. Prof.
J. Rowland, Adj. Assoc. Prof.
Kenneth Schoenly, Adj. Asst. Prof.
Daniel Shaw, Associate
Michael E. Seidel, Res. Prof.
Gary L. Simpson, Res. Prof.
Robert Stivins, Associate
Bruno Sobral, Adj. Asst. Prof.
Mohna Sopori, Lovelace Foundation, Adj. Prof.
Peter B. Stacey, Res. Prof.
George Stevens, Adj. Assoc.
Paul J. Watson, UNM, Res. Asst. Prof.
John Weins, Adj. Distinguished Prof.
John Ubelaker, Southern University-Dallas, Adj. Prof.
Roby Wallace, Nature Conservancy, Associate

Marcus I. Yaffee, Res. Assoc. Prof.

RESEARCH OR VISITING STATUS (usually on UNM payroll):

Coenraad Adema, Res. Asst. Prof.
Penelope Boston, Res. Assoc. Prof.
Sandra Brantley, Res. Asst. Prof.
James Brunt, Res. Asst. Prof.
Debra Coffin, Res. Asst. Prof.
Lee Couch, Res. Assoc.
Charles Curtin, Res. Asst. Prof. (P-T)
Murray Dalley, Adj. Prof.
Jerry Dragoo, Res. Asst. Prof.
William Dunmire, Associate
Michael Folsom, Res. Asst. Prof. (P-T)
K. (Wendy) Fuge, Res. Asst. Prof.
Deborah Goldberg, Univ. of Michigan, Res. Assoc. Prof.
Gregory Glass, Res. Assoc. Prof.
Lynn Hertel, Res. Assoc.
Kristine Johnson, Res. Assoc. Prof.
David Lightfoot, Res. Assoc. Prof. (P-T)
Scott Martens, Res. Assoc. Prof.

Gary Miller, Visiting Asst. Prof.
Gerald Mkoji, Res. Assoc.
Esteban Muldavin, Res. Assoc. Prof.
Diana Northup, UNM Centennial Library, Res. Assoc.
Robert Pamenter, Res. Assoc. Prof.
Vicki Peck, Visiting Asst. Prof.
Ana V. Perez, Res. Asst. Prof.
Carla Restrepo, Res. Asst. Prof.
Elizabeth Roberts, Visiting Assoc. Prof.
Luis Ruedas, Res. Asst. Prof.
Felisa Smith, Adj. Asst. Prof.
Kenneth Sylvester, Visiting Asst. Prof.
Scott Snyder, Post-doctoral Fellow
John Vande Castle, Res. Assoc. Prof.
Robert Walde, Res. Prof.
Carleton White, Res. Asst. Prof.
Patricia Wilber, Adj. Asst. Prof.

EMERTI

Oswald Baca
Earl W. Bourne
Clifford Crawford
William Degenhardt
Howard Dittmer
James S. Findley

Scott Johnson
William W. Johnson
Paul Kerlof
William Martin
Loren D. Potter

ML Bredeson
APPENDIX I

GRADUATION SURVEY,
RETENTION SURVEY
Memorandum

To: Kathryn Vogel, Biology Department Chair
From: Carol Brandt, Program Coordinator - Biology
Date: 8/15/00
Re: Results of the 1999-2000 Graduation Survey

Attached you will find the results of the graduation survey that I administer when students complete their 90 credit hour degree check. The results aren't much different from last year. The number of students who have experienced advising within the department continues to grow (90%)!

For me as an advisor, the important details are:
1. Two-thirds of our students have had significant amount of class work transferred from other universities.
2. Half of the undergraduates have had a research experience or were planning to undertake research before graduating.
3. Very few students participate in Research Day.
4. Two-thirds of our students are using the Departmental email servers.

I'll be taking some of these results to Wanda Martin, the new Associate Academic Dean in A&S. We really need to have more systematic ways of getting our transfer students advised.

Is there something we can do to encourage undergrads to participate more in Research Day? Even the attendance is very low.
Graduation Survey 1999-2000

A total of 175 students completed this survey when they applied for their degree at 90 credit hours. Please keep in mind that some of these students graduated during the year, while others still have more credits to complete within their degree.

1. How many years will you have spent as an undergraduate by the time you graduate?
   a. 4.0-4.5 years 73 42%
   b. 5 years 50 29%
   c. 6 years 26 15%
   d. 7 years 12 7%
   e. more than 7 years 14 8%

2. Did you complete any college coursework at other universities or community colleges (including the UNM branch campuses)?
   a. Yes 115 66%
   b. No 60 34%

3. If you answered yes to #2 above, how many semesters did you spend away from UNM or at another school before you transferred to the main campus at UNM? (Based on N=115)
   a. One or more summer sessions only 20 17%
   b. One to two semesters 30 26%
   c. Three to four semesters 32 28%
   d. More than four semesters 29 33%

4. Did you participate in a biologically relevant research project in the lab or field that was not a part of a UNM class (examples: research in other departments, the MBRS program, REU, Biol 499, biology honors, or programs at other universities)?
   a. Yes 55 31%
   b. No 93 53%
   c. I plan to participate in research this next year. 27 15%

5. If you did not participate in a research project, what were the reason(s)? (Based on N=93)
   a. I did not know about the opportunities. 25 27%
   b. I was not interested in doing research. 17 18%
   c. I did not have time to do research. 55 59%
   d. I applied but was never accepted into a research program. 6 6%
   e. I wanted to, but needed to work at a job that paid more money. 31 33%

6. Did you receive any advising within the Biology Department?
   a. Yes 158 90%
   b. No 17 10%

7. If you replied yes to #6 above, how would you rate your advising from the Department?
   a. Excellent 72 45%
   b. Very good 72 45%
   c. Average 14 9%
   d. Poor 1 .6%

8. Did you take advantage of any of the following undergraduate activities?
   a. Attend biology club meetings? 27 15%
   b. Attend Departmental seminars? 46 26%
   c. Use the Biology Department email server? 114 65%
   d. Attend Research Day? 53 30%
   e. Participate in Research Day? 13 7%
9. What are you going to do in the year following graduation?
   a. Begin employment 31 18%
   b. Go to graduate school 53 30%
   c. Go to Medical school 42 24%
   d. Go to a Professional School 23 13%
   e. Relax or travel 12 7%
   f. Look for a job, not in biology 6 3%
   g. Undecided 41 23%

Below are samples of the responses to the open-ended questions on the survey:

What do you like about advising you received in the Biology Department?

- Willingness to listen
- Sympathetic, straightforward
- Easy to understand
- Clear and concise
- I really enjoyed the bio-club email server because there was lots of great information.
- Made me feel confident that I was taking the right classes.
- Honest realistic advice. Helps to put everything into perspective.
- Very approachable
- Taking time to listen instead of getting you out the door.
- Clarity
- Very knowledgeable
- Accurate, friendly, helpful
- Willing to take as much time as needed to answer questions
- Always available when I needed advising
- Very straightforward with no surprises
- Always on the ball about job postings, etc.
- The opportunities and the reality check
- The packet with all the courses listed was very helpful
- The advisor was interested in my work and progress
- They encourage research and future preparation
- People friendly
- They care about the students' progress
- Are highly knowledgeable about upcoming positions that can enhance work experience in a particular field.
- They make sure to keep you on top of things so you don't fall behind.
- Provided final directions to graduation and application to medical school.
- The listserv was invaluable to me.

What could the Biology Department do to improve advising for undergraduates?

- Have more office hours.
- Make students aware early on the importance of advising.
- Mandatory advising within the department
- More advisors
- More advising hours
- Greater accessibility
- More stuff on graduate schools
- Advertise that four advisors exist and their hours
- Encourage students to visit more frequently
- Have our transcripts available on the computer for the advisors.

Careers mentioned in Question #9:

- Sales - Pharmaceuticals
- Medical Lab Technician
- Osteopathic Physician
Pharmacist
Dentist
Educator
High School Biology Teacher
Veterinarian
Naturalist or Ecologist
Massage Therapy
Environmental Law
Physician Assistant
Physician
Biology Research Technician
Physical Therapy
Optometrist
Military Pilot
Biotechnologist
Nursing
Nutritionist
Botanical Field Research Assistant
Marine Biologist
Wildlife Biologist
Genetic Counseling
EMT
Chiropractor
GIS data coordinator
Occupational Therapist
Scientific Writer
Fire Ecologist
Landscape Designer
Zookeeper
Technical Writer

Graduate Programs mentioned in Question #9:
Microbiology
Ecology/Evolutionary Biology
Biogeocology
Biomedical Sciences
Conservation
Molecular Biology
Toxicology
Public Health
Genetics
Immunology
MBA
Restoration Ecology
Forensic Science
Ethnobotany
Pathology
Insights into the Retention and Persistence of Science Majors: An Example from the Biology Department at UNM

Carol Brandt, Amy Marion, and Vickie Peck

This is a summary of a presentation made at the New Mexico Higher Education Persistence/Retention Conference, February 24 in Las Cruces.

I. In this study, we look students who took Biol 121L in the Fall of 1997 and their persistence at UNM, two years later (Fall 1999).
   - Our study coincides with a campus-wide retention effort spearheaded by Peter White.
   - How do our science majors negotiate the transition from high school to college courses?
   - What happens if they miss that first crucial turn towards their intended major?

II. Our Sample:
   - Of 744 students who took Biol 121L in Fall 1997, a total of 621 complete the course.
   - We randomly chose 30 students from each grade level (A, B, C, D, F, and W). Our sample consists of 180 students.
   - We looked at their student records through the UNM Student Information System available to Departmental Advisors.

III. Variables Examined:
   - Ethnicity and Gender
   - ACT Scores
   - High School GPA (Academic Units)
   - Number of High School Academic Units
   - Completion of College Algebra (Math 121)
   - UNM GPA, total credit hours, and biology credits
   - Number of failing grades, Ws, and repeats

IV. Results:
   - Students who receive a D or F in Biol 121L are failing all their classes at UNM, and do not persist. Most are on academic suspension.
   - Students who had a HS GPA <2.9 have a lower chance of passing Biol 121L. HS Grade Inflation! Note, UNM currently accepts students with a GPA of 2.25.
   - Students who had taken only one lab science in HS, had a lower chance of succeeding at Biol 121L. This suggests a lack of academic preparedness.
   - Students who had not taken Math 121L (college algebra) or its equivalent have a lower chance of success in Biol 121L. Again, this refers to academic preparedness.

V. Insights for Immediate Action:
   - Consider a math prerequisite? Should we require Math 121 in the next catalogue?
   - Engage High School instructors on the issue of student preparedness.
   - Bring in Departmental advising during Freshman orientation.
   - Need for coordination among introductory math and science courses.
APPENDIX J

ALL COURSE OFFERINGS,
FY 1999–00
### COURSE OFFERINGS & SEMESTER CREDIT HOURS, FY 1999-00

#### SUMMER 1999

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**TOTALS, AY 1999-00**

|       |                      | 508             | 9,624             | 21,882 |
APPENDIX K

DEPARTMENTAL SEMINAR SERIES
DR. CHRISTOPHER QUINN, School of Biological Sciences, University of New South Wales, Sydney, Australia, " Phylogeny of Southern Hemisphere Conifers," September 16, 1999.


DR. KIRK O. WINEMILLER, Department of Wildlife & Fisheries Services, Texas A & M University, College Station, TX, "Effects of Seasonality and Fish Movement on Food Webs of Tropical Floodplain Rivers," November 11, 1999.

DR. CRAIG STOCKWELL, Department of Zoology, North Dakota State University, Fargo, ND, "Evolutionary Trajectories of Recently Established Fish Populations," February 3, 2000.

DR. JOHN HOLLAND, Professor of Computer Science & Electrical Engineering, Professor of Psychology, University of Michigan, Member, Center for Study of Complex Systems, "How Recombination Drives Evolution, or It’s Building Blocks All the Way Down!", February 10, 2000.


DR. BECKY CODE, Associate Professor, Department of Biology, Texas Women’s University—Denton, “k-Opioid Receptor Activation Modulates Intracellular Calcium Concentration in Chick Cochlear Nucleus Neurons,” March 2, 2000.

DR. STANLEY SMITH, Department of Biological Sciences, University of Nevada—Las Vegas, "Responses of a Mojave Desert Ecosystem to Elevated CO₂,” March 23, 2000.

DR. ALAN RAWLS, Department of Biology, Arizona State University, Tempe, AZ, “The Role of Paraxis in Somitogenesis: Linking Form to Function,” March 30, 2000.
DR. ROBERT WHITTAKER, Department of Geography, Oxford University, "Water-energy Dynamics and the 'Latitudinal' Gradients in Species Richness," April 4, 2000.


DR. ROBERT JANSSEN, School of Biological Sciences, Section for Integrative Biology, University of Texas—Austin, "Origin and Evolution of Plants Endemic to the Macaronesian Archipelagos," May 4, 2000.
APPENDIX L

GRADUATE STUDENTS & FACULTY ADVISORS
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APPENDIX M

BASEMENT REMODEL PROPOSAL
DESCRIPTION: Briefly describe the scope of the project and the functions it includes.

This project involves extensive remodeling of about 20,500 square feet in the basement of Castetter Hall (Biology building). Space that has previously been devoted to museum collections will be renovated to create four new teaching laboratories, three new faculty research laboratories, a medium sized lecture hall, four seminar/conference rooms, and a student lounge area. The animal resource facility will be moved to new quarters and updated. In addition, an inaccessible central courtyard that has been minimally used will be covered and remodeled, creating two new lecture halls and a Southwestern display garden that will be accessible to the entire UNM community.

Key components of the plan are as follows:

1. Configure the building in a modular fashion so that teaching and research areas are, in general, separate from each other.
2. Increase natural light in the building.
3. Increase square footage by incorporating the patio area (7,500 ft²) into the building floorplan.

This is Phase I of a plan for renovation of Castetter Hall. Once this first and largest phase of the project is complete we will update the research and office space on the first floor (Phase II). The last phase involves reorganization of the research space on the second floor and converting remaining teaching laboratories on that level to research space (Phase III). The completion of this plan, along with completion of the Museum of Southwestern Biology (old bookstore renovation) will generate a research and teaching facility that will accommodate the foreseeable needs of students and faculty in the Department of Biology. This plan could replace the Biology department’s portion of the Science and Engineering Complex.
JUSTIFICATION:

When the collections of the Museum of Southwest Biology move to their new home in the remodeled old bookstore, approximately 15,000 ft² of space will be vacated; most of this is in the basement of Castetter Hall. It is anticipated that the move will occur during the summer 2000. The space that will be vacated is urgently needed in remodeled form to meet current and future needs of the Department of Biology.

- Space in the Biology building is insufficient to meet the current and projected needs of the undergraduate student population. There has been a rapid and constant increase in the number of undergraduate majors, from 405 in 1990 to 1102 in 1998. We anticipate that this number will continue to climb, such that we could be supervising as many as 2500 undergraduate majors by 2010. This upsurge of interest in biological processes, both at the ecological level and the molecular/genetic level, has placed extreme pressure on the current building and requires increased lecture hall space and laboratory teaching space.

- Current infrastructure and facilities in the Biology building are extremely outdated. The electrical system is stretched to capacity and heating, cooling, gas, air, and vacuum services function poorly. As you know, it was recently necessary to replace all of the plumbing to deliver water throughout the “new” half of the building. This “new” facility was built in 1967 and has not been renovated since that time. The old part of the building is......well, even older. The waste/sewer system has continual problems and it is impossible to add additional fume exhaust capacity with the current infrastructure. In addition to being unpleasant, there could be code violations and health hazards.

- There is insufficient space available to meet current needs for the department. The administrative and office staff are packed like sardines into a tiny amount of space. Last year the Biology department handled over $10 million in extramural funding in addition to regular departmental business. It is not reasonable to expect good employees to stay with us when the largest amount of office space assigned to any staff person is 100 ft², and two bookkeepers now work in only 25 ft² each. In addition, there is insufficient office space for graduate students, post-doctoral fellows, research assistant professors or for academic staff and part-time instructors.

- Current facilities are insufficient for our current thirty-two tenure track faculty members. Departmental growth will require new space for new faculty. The current number of tenure-track faculty in the Biology department is much lower than would be expected for the number of undergraduate and graduate students in the department. The goal is to increase the number of full-time faculty in the department to forty. However, it is estimated that eleven additional research laboratories will be needed in order to support a research faculty of forty.

APPROXIMATE COST: $3,000,000
PHASE I RENOVATION: BIOLOGY BASEMENT (20,675 ft²)

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<th>Renovated Space/Rooms</th>
<th>Use/Intent</th>
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<tr>
<td>1, 2, 3/5 (3206 ft²)</td>
<td>Biology Animal Resource Facility (BARF) &amp; some storage space (cages, Gosz)</td>
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<tr>
<td>16 (340 ft²)</td>
<td>Botany Teaching collection &amp; specimen storage</td>
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<tr>
<td>18/20 (615 ft²)</td>
<td>Teaching Lab: General Botany (360L); Flora of New Mexico (463L); Desert Field Biology (475L)</td>
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<tr>
<td>19 (740 ft²)</td>
<td>Teaching Lab: Animal Physiology Lab (435); Methods in Molecular Biology (446); Immunology Lab (456); Microbiology Labs (350, 352)</td>
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<tr>
<td>35, 39 (in part), 53 (1692 ft², all 3 rooms)</td>
<td>Teaching Labs: Microbiology (350, 352)</td>
</tr>
<tr>
<td>39 (in part)</td>
<td>Prep rooms for microbiology teaching labs; new autoclave</td>
</tr>
<tr>
<td>55 (504 ft²)</td>
<td>Faculty member research lab: new faculty member</td>
</tr>
<tr>
<td>57 (728 ft²)</td>
<td>Faculty member research lab: Dr. A. Kodric-Brown</td>
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<tr>
<td>58 (468 ft²)</td>
<td>Faculty member research lab: new faculty member</td>
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<tr>
<td>61 (3561 ft²)</td>
<td>1. Lecture Hall (similar to Rm. 258); 2. three-four seminar/conference rooms (similar to 1638) for teaching, graduate student committee meetings, seminar classes, etc.; 3. central lounge area for students to meet, study, etc.</td>
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<tr>
<td>81 (756 ft²)</td>
<td>Vertebrate Teaching collection &amp; specimen storage</td>
</tr>
<tr>
<td>83 (540 ft²)</td>
<td>Teaching Lab: General Vertebrate Zoology (386L); Comparative Vertebrate Anatomy (421L); Ornithology (486L); Ichthyology (487L); Herpetology (488L); Mammalogy (489L)</td>
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<tr>
<td>Patio Area (7525 ft²)</td>
<td>1. Cover over patio and remove cement barriers; 2. Ground Level: University access (between Geology &amp; Biology) to a Southwestern Garden with tables, benches and many decoratively-hidden skylights to provide lots of natural light to Lecture Halls below; 3. Basement Level: Two Lecture Halls (similar to Rm. 258) with central lounge area attractively decorated with plants, planters (natural light from above skylights) and comfortable chairs, couches, low tables, etc. for students to meet, study, relax, have discussions, etc.</td>
</tr>
</tbody>
</table>
A. Significant Events During Academic Year 1999-2000

The past academic year has been a very busy one for the Department of Chemistry. The department was able to complete two hires in the inorganic chemistry area during the year. Dr. Richard Watt will be joining the faculty in August of 2000 from a post-doctoral position at the University of Wisconsin, Madison. Dr. Richard Tierney will join us in January, 2001 from a similar post at Northwestern. Watt is a bio-inorganic chemist and Tierney is physical inorganic chemist specializing in magnetic techniques. Having lost Ignacio Villegas last year and with Dr. Thomas Niemczyk assuming the chairmanship of the department in July, the department was critically short of faculty in analytical chemistry. The department hired a teaching post-doc to help in the analytical area. Todd Allen joined the department in August of 2000. Li Qi-Gresham was also hired as a teaching post-doc to help in the Freshman program. Andre Straumanis, an NSF teaching fellow will join us for a year and will contribute to the teaching of organic chemistry. Professor Paul Papadopoulos, a long time organic faculty member retired this year. Paul will be extended emeritus status and continue to teach for two years. The department has been allowed to search for an analytical chemist during the upcoming year. The successful candidate will replace the teaching post-doc in the analytical area.

Continued efforts have also been underway to provide the additional high-quality space needed by the department. With the demise of the Science and Engineering Building as a concept, we are back to construction of a building primarily for the Chemistry department. The current plan is to obtain funding to complete the renovation of the bookstore for use by Biology and fine art. This package will also have the funding to renovate the basement space in the Biology department. Subsequent to that the next project planned would be the construction of a building.
primarily for Chemistry. This building will have a small amount of space dedicated to Earth & Planetary Sciences. The department’s faculty and research programs are now spread out in two buildings.

2. Faculty

UNM’s Chemistry department continues to have the smallest faculty of any of the UNM peer institutions so the issue of faculty size is of critical import as reported in the latest ACS survey of Chemistry departments. In an informal survey of the current chemistry faculty, we have learned that we will lose approximately a half dozen faculty to retirement over the next half dozen years. Fortunately, the Dean of A&S is aware of our situation and has been helpful with positions and set-up funding to address this issue. While the hiring of Chemistry faculty is expensive and can only proceed at the pace at which the start-up funding can be located, every effort must be made to continue to increase the department faculty numbers. The Associate Provost for Research has not been as forthcoming as usual with help with the set-up packages and this will slow the development of the department.

3. Curriculum

In the last several years the department has implemented a new Freshman/Organic curriculum that should have two main results. First, most students will encounter higher level courses as they take their chemistry requirements. Second, Tenured faculty will be teaching the Freshman courses in place of the lecturers who have taught the course in the past five years. I predict that the enrollments in Freshman chemistry will be dramatically impacted by this change. The glassware we purchased last year has enabled us to continue to open sections of Organic lab and thus we have been able to keep up with the demand for this course. A number of the sections are offered in the evening to make them available to the growing number of non-traditional students who cannot attend the usual weekday/daytime sections. The Saturday sections in Organic Chemistry Laboratory were deleted last year to no apparent problem.
The faculty of the Chemistry department has engaged in an exhaustive reexamination of our undergraduate curriculum. We have restructured the majors curriculum so they take less freshman chemistry and more advanced courses. A typical entering student will take one semester of freshman chemistry and enter directly into the Organic lecture sequence. The content of the first semester of freshman chemistry will be altered to reflect the needs of the student entering into the organic sequence. The credits from the second semester of freshman chemistry will be replaced with course work in the senior year. The American Chemical Society, our accrediting body, has determined that we must offer biochemistry to our B.S. majors. To that end we now offer a new biochemistry course, Chem 421. The course will be more chemically oriented than the course offered in the Medical School. This course and others in the topical areas of chemistry supply the credits lost by the majors to the Freshman program. For those students seeking to meet group requirements through the freshman chemistry path, we have quite drastically changed the content of the second semester of freshman chemistry to more directly reflect the appropriate ideas required for a scientifically literate citizen.

In the past, the department has offered an honors track for our B.S. majors. In 1998-99, Professor James Brozik has taught Chem 131L-132L, the honors freshman course and Professor Holder once again offered the honors Organic lectures, Chem 307-307. This year we will no longer offer the 131-132 class and 307-8 will be offered for the last time. These classes were valuable additions to our offerings but they are very faculty intense for the small number of students involved. Professors Deck and Paine continue to offer the course they began recently, Chem 415L, with excellent success.

All classes offered by the chemistry department are listed in Appendix B.

4. Facilities

The renovation of the heating, ventilating and air conditioning system in the Riebsomer wing of the Chemistry building which was begun in December of 1995 has finally been completed. The renovation was funded from a proposal to the National Science Foundation along with state matching money. Funding in the amount of $1.3 million was awarded by the NSF with matching
funds of $1.7 million required to claim the NSF grant. The project improved the quality and safety of the instructional and research laboratories in that wing. It will also represent a component of the work called for in-phase II of the programming document for Chemistry space that was completed four years ago. It greatly improved the safety and functionality of our facilities. However, it did not provide the additional space required by the Department. The project was complex and benefited from an excellent Contractor, Shumate Constructors.

The department of Chemistry went through a programming exercise with Facilities Planning in 1989-90 with a view to developing a plan for a Chemistry Addition. Although the program was completed, no building priority was forthcoming and the project was not funded. We were told that the legislative environment was not "right" for a chemistry building. However, during these years, New Mexico State was funded for a Chemistry addition and they are now occupying their new facility. An alternative approach to resolving the space problem was sought through continued consideration of the long-discussed Science and Technology Research Center. An agreement was reached among the chemistry faculty that, since the Research Center was the building the University seemed to be willing to build, we should seek the space we needed in that building. Biology and Earth and Planetary Sciences were contacted and invited to participate in a joint use building providing needed space to those three departments. With this support, a proposal for planning funds for such a building was sought from the 1994 legislative session and $250,000 was provided. The planning so far carried out has led to an agreement with the Provost that these three departments and Computer Science will share the space created. The size of the budget has also been determined. However, how the space is to be divided amongst these users remains a source of considerable contention. The fact that the building went unfunded last year and has dropped to second priority for next session implies to me that UNM fears the cost of the centralized building. This is especially ridiculous in view of the fact that the Facilities Planning and the central administration asked us to band together and actually enlarged the building by the inclusion of Computer Science. Now, we are surprised that a building of sufficient size for the four departments is large and expensive. Truly, considering UNM's continual lack of focus on this issue which is so
critical for the department, I do not expect to see adequate space for the department until long after my retirement.

5. Graduate-Program

The Graduate Recruitment and Selection Committee was again very active under the leadership of Professor Cary Morrow, the Associate Chairman for Graduate Recruitment, and succeeded in attracting an average size group of new graduate students to the department for the coming year. The return to a larger class reflects the Committee's efforts to increase significantly the quality of students available to the graduate program. Other methods are being sought to alleviate the ongoing problem of needing to use graduate students who are less than fluent in English to teach undergraduate laboratories. Professor Cary Morrow has agreed to continue to serve as Associate Chair for Graduate Recruitment in the 99-00 academic year. Appendix A summarizes the recruiting activities.

Dr. Joe Ho, the Laboratory Supervisor has continued his efforts to reduce the average number of laboratories each Teaching Assistant must teach from six per year to five per year. We have continued to guarantee the incoming graduate students a position for the summer. Although our basic offer is still not as competitive as we would like it to be, the recent change in stipend represents major progress toward building a competitive graduate program. We are grateful to the Dean for his continuing support for our achieving this goal.

This year we reserved a portion of the TA stipends for a reward for a job well done at the end of the semester. The TAs who were well regarded by their students, the lab director, the faculty in charge of the lab and the stock room attendants were rewarded with $1200 at the end of the semester. This program has significantly improved the teaching in the labs.

6. Undergraduate Program

We had our eighth annual departmental commencement following the general commencement ceremonies, followed by an elegant catered buffet luncheon served on our patio. This year again, we were not joined by the department of Biochemistry in our graduation ceremony. Over 100 graduates
and guests attended, with Dr. Holder presenting certificates to those receiving the B.S., B.A., M.S. and Ph.D. degrees, and to award winners.

Our own undergraduate program produced a small but well prepared group of graduating majors this year. Several will attend graduate or professional schools this fall. Three females including an Hispanic and one male student earned a B.S. degree. Three male students earned the B.A. degree. In addition to these students who completed chemistry degrees, seventy-two men and twenty-six women earned a minor in chemistry. At the graduate level, three Asian students earned the M.S. degree (all male), and three women, including two Asians, finished the Ph.D. degree. Individuals receiving degrees in Chemistry during the 1998-99 academic year are listed below.
UNDERGRADUATE PROGRAM

STUDENTS RECEIVING THE B.A. DEGREE IN CHEMISTRY 1999-2000

Diane Bennett  Nathan Donart  Joanette Hanlon
Jacob Jacobson  Greg Tafoya  Angelina Villas

STUDENTS RECEIVING THE B.S. DEGREE IN CHEMISTRY 1999-2000

Jeremy Barlow  Adam Koertner  McKenzie Minke
Theodore Ortiz  Jessica Rothfuss  Martin Sanchez
Jessee Stanchfield

STUDENTS COMPLETING THE M.S. DEGREE IN CHEMISTRY 1999-2000

Songling Jia  Michael Fallbach  Kathleen Banjac
Katie Woodcock  Jason Deck  Norma Weiler
Yi Li  Clarissa Sorensen  Si Wu

STUDENTS COMPLETING THE DOCTOR OF PHILOSOPHY DEGREE IN CHEMISTRY 1999-2000

Alec Bailey  Spring 1999  Dr. Christie Enke
Marianne Wilkerson  Spring 2000  Dr. Robert Paine
Lusong Lou  Spring 2000  Dr. Debra Dunaway-Mariano
Min Wei  Spring 2000  Dr. Debra Dunaway-Mariano
Matthew Helton  Spring 2000  Dr. Martin Kirk
Frank Inscore  Spring 2000  Dr. Martin Kirk
Wenxiang Zeng  Spring 2000  Dr. Thomas Niemczyk

GRADUATE STUDENTS IN CHEMISTRY 1999-2000

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## APPENDIX A

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GRADUATE STUDY IN CHEMISTRY
U.S. CITIZENS
1999-2000

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APPLICATIONS RECEIVED FOR GRADUATE STUDY IN CHEMISTRY
U.S. CITIZENS
1999-2000

APP - APPLICATIONS RECEIVED
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DIS - APPLICATIONS DISAPPROVED
INC - APPLICATIONS INCOMPLETE
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#### FOREIGN CITIZENS

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### APPLICATIONS FOR GRADUATE STUDY IN CHEMISTRY

#### FOREIGN CITIZENS

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FOREIGN CITIZENS
1999-2000

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## APPENDIX B

### CHEMISTRY COURSE OFFERINGS

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GRAND TOTAL ALL STUDENTS 4395 13894
### SPONSORED RESEARCH

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### FACULTY AND STAFF OF THE DEPARTMENT OF CHEMISTRY

#### PROFESSORS:

- **ALLEN, Fritz S., Ph.D.** 1969 University of Illinois
- **DUNAWAY-MARIANO, Debra, Ph.D.** 1979 University of Wisconsin
- **ENKE, Christie, G., Ph.D.** 1959 University of Illinois
- **HAMPTON, Philip D., Ph.D.** 1989 Stanford University
- **HOLDER, Richard W., Ph.D.** 1970 Yale University
- **MARIANO, Patrick, PhD.** 1969 University of Wisconsin
- **MORROW, Cary J., Ph.D.** 1970 Tulane University
- **NIEMCZYK, Thomas M., Ph.D.** 1972 Michigan State University
- **ONDRIAS, Mark R., Ph.D.** 1979 Michigan State University
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<tr>
<th>Name</th>
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<td>1970</td>
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<td>PAPADOPoulos, E. Paul, Ph.D.</td>
<td>1961</td>
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<td>WALTERS, Edward A., Ph.D.</td>
<td>1966</td>
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<td>1989</td>
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<td>GUO, Hua, Ph.D.</td>
<td>1988</td>
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<td>KELLER, David, Ph.D.</td>
<td>1984</td>
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<td>KIRK, Martin L., Ph.D.</td>
<td>1991</td>
<td>University of North Carolina</td>
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<td>MCLAUGHLIN, Donald R., Ph.D.</td>
<td>1965</td>
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<td>CATON, Roy D., Ph.D.</td>
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<td>BOND, Evelyn</td>
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<td>CHEN, Chuanfeng</td>
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<td>Nanjing University</td>
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<td>Shanghai Institute of Optics and</td>
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CHO, Sung Ju 1996  Fine Mechanics  Pusan National University
CONSTANTOPOULOS, Terri 1999  University of New Mexico
GAN, Xinmin 1995  Kinki University
KIM, Hyun-Jin 1997  Pusan National University
LEE, Sangok 1992  Pusan University
MA, Guobin 1992  Shanghai Institute of Optics and Fine Mechanics
MEDFORTH, Craig 1988  University of Liverpool, U.K.
SONG, Xingzhi 1996  University of New Mexico
SU, Zhuoyi 1997  University of Maryland
WOOD, Gary 1987  University of Maryland

ADJUNCT PROFESSORS:

BAKER, Thomas R. Adjunct Research Professor
CLARK, David L. Adjunct Research Professor
COCIVERA, Michael Adjunct Research Professor
DORKO, Ernest A. Adjunct Professor
DUESLER, Eileen Research Associate Professor
ELLIOTT, Scott M. Adjunct Research Professor
ENGLEMAN, Rolf, Jr. Adjunct Professor
GANDER, John E. Adjunct Research Assistant Professor
HAALAND, David Adjunct Professor
HERBELIN, John M. Adjunct Research Professor
HO, Kuangchiu Lecturer III
KEOGH, Daniel W Adjunct Assistant Professor
PINEDA, Andrew Adjunct Research Professor
SHASHI, Karna P Adjunct Research Professor
SHELNUTT, John UNM/SNL Adjunct Professor
SHREVE, Andrew P. Adjunct Assistant Research Professor
SMITH, Karen Ann Adjunct Assistant Research Professor
STALLARD, Brian Adjunct Assistant Professor
TAPSCOTT, Robert Research Professor
WATKIN, John G. Adjunct Assistant Professor
APPENDIX C
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF NEW MEXICO
SEMINAR SPEAKERS
1999-2000

24 September 1999  Dr. William Heineman, The University of Cincinnati, “Strategies for New Chemical Sensors”

01 October 1999  Dr. Susan Dexheimer, Washington State University “Femtosecond Vibrational Dynamics of Self-Trapping in Quasi—One-Dimensional System”

22 October 1999  Dr. Paul Lindahl, Texas A&M University “Structure and Function of the Ni-Fe-S Clusters in Acetyl-Coenzyme A Synthase”

05 November 1999  Professor Robert E. Wyatt, The University of Texas at Austin “Quantum Dynamics with Trajectories”

19 November 1999  Professor Sheldon Shore, Ohio State University “Metallocene Derivatives of Cyclic Organohydroborates and Their Conversion to Metallocene Cations”

03 December 1999  Professor Jeffrey Zaleski, Indiana University “Transition Metal Activated Diradical Formation for Thermal and Photochemical DNA-Cleavage”

10 December 1999  Professor Hector Abruna, Cornell University “Redox-Active Dendrimers in Solution and on Surfaces”
APPENDIX C
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF NEW MEXICO
SEMINAR SPEAKERS
1999-2000

28 January 2000  Professor Donald J. Darensbourg, Texas A&M University
“The Coordination Chemistry of Zinc and Cadmium Phenoxides. Catalysts for the Coupling of CO₂ and Epoxides”

04 February 2000  Professor Kirk Peterson, Washington State University/ Pacific Northwest National Laboratory
“Potential Energy Surfaces for the Photodissociation of Small Molecules: HOCl, HOBr, and OClO”

10 March 2000  Professor Jeanne McChale, University of Idaho
“Resonance Raman Studies of Solvent Dynamical Effects in Photoinduced Electron Transfer”

24 March 2000  Professor John Dawson, University of South Carolina
“Spectroscopic and Mechanistic Studies of Cytochrome P450, Nitric Oxide Synthase and Related Heme Systems”

07 April 2000  Professor Tom Poulos, University of California, Irvine
“Structural Studies on Nitric Oxide Synthase and a P450 Electron Transfer Complex”

14 April 2000  Professor William Montfort, University of Arizona
“Nitric Oxide Transport and Signaling by Blood-Sucking Insects: Hemoprotein Structure, Dynamics, And Chemistry”

21 April 2000  Professor John Enemark, University of Arizona
“Sulfite Oxidase: Chemistry and Spectroscopy of a Vital Molybdenum Enzyme”

28 April 2000  Professor Pat Sullivan, University of Wyoming
“Chains and Squares of Charge Transfer Chromophores”

05 May 2000  Professor Jeanne Pemberton, University of Arizona
“Atmospherically-Relevant Heterogenous Reactions at Alkali Halide Surfaces”
APPENDIX D

FACULTY AND STAFF OF THE DEPARTMENT OF CHEMISTRY

RESEARCH SCIENTIST:


SMITH, Karen An, Ph.D, 1984, University of Illinois - Oversees, maintains, and operates the Department's NMR spectrometers, trains students and faculty in their use, and consults with faculty and students concerning the solution of chemistry problems using NMR.

RESEARCH ENGINEER II:

SHAHVAR, Hoshang, B.S., 1981, University of New Mexico - Manufactures state of the arts electronic equipment as requested by faculty and graduate students.

RESEARCH SCIENTIST II:

DAVENPORT, Michael, - Electronic design and maintenance engineer for faculty and graduate students.

OTHER STAFF:

BAUER, John - Research Tech/Life Sciences: - Performs multi-step tests, analyses, results of experiments, specimens and samples and provides support to students in learning and functional activities within the lab setting.

BLYTHER, William, Coordinator of Purchasing: prepares sale invoices, inventory entries and places orders while overseeing the receiving and proper stocking and delivery of orders.

BUSH, Gary, Research Tech/Life Sciences: - Performs multi-step tests, analyses, results of experiments, specimens and samples and provides support to students in learning and functional activities within the lab setting.

CANO, Daniel, Research Tech/Life Sciences: - Performs multi-step tests, analyses, results of experiments, specimens and samples and provides support to students in learning and functional activities within the lab setting.
APPENDIX D
FACULTY AND STAFF OF THE DEPARTMENT OF CHEMISTRY

DUNAGAN, Julie, Editorial Tech: - Responsible for transcription, proofreading and typing complex manuscripts and other documents for publication or other distribution for the Department of Chemistry.

HILTON, Carl, C.R.L.S. Operations Manager II - Responsible for the overall operation of C.R.L.S. including budget, buying and inventory control and EPA/OSHA regulations and compliance.

MINSEN, Ovella, Admissions Assistant I: - Responsible for processing student applications for admissions status and residency for foreign and U.S. graduate applicants to the Department of Chemistry, The University of New Mexico.

MORRATO, Anna, Department Administrator III: - Manages, controls and supervises the fiscal system, daily administrative operations and assists the Chairman with departmental matters.

PENHALL, Michele, Administrative Assistant III: coordinates and performs a variety of staff and/or operational support activities for C.R.L.S.; manages daily administrative operations and assist the Manager of C.R.L.S. in all daily activities.

SOBLICK, Leonard, Accountant II: - Responsible for compiling, analyzing and reviewing data and statistics pertaining to revenues and expenditures; prepares, examines and verifies accounting data and documents and maintains accounting records.

STANLEY, Kriss, C.R.L.S. Systems Analyst III: - Assists Department and UNM personnel with all aspects of ordering, receiving, billing and inventory of chemicals. Responsible for all computer operations in C.R.L.S.

TEWOLDE, Adda, Accountant II: Responsible for compiling, analyzing and reviewing data and statistics pertaining to revenues and expenditures; prepares, examines and verifies accounting data and documents and maintains accounting records for C.R.L.S.
APPENDIX D

FACULTY AND STAFF OF THE DEPARTMENT OF CHEMISTRY

APPOINTMENTS TO STAFF:

None

CHANGES TO STAFF PERSONNEL:

SEPARATIONS:

CANDELARIO, Ricky, Supply/Stock Clerk: - Assists the Department and UNM personnel with all aspects of ordering, receiving, billing and inventory of chemicals and supplies.

SCHELLENBERBER, Karen, Editorial Tech: - Responsible for transcription, proofreading and typing complex manuscripts and other documents for publication or other distribution for the Department of Chemistry.

RESEARCH EQUIPMENT:

Major pieces of equipment (more than $10,000.00 unit price) acquired during the reporting year:

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Department of Communication and Journalism
Annual Report
July 1, 1999 - June 30, 2000

Submitted by
Karen A. Foss, Outgoing Chair

Significant Developments

The Department of Communication & Journalism celebrated its 50th anniversary with a series of events in October, including a hardhat party and birthday dinner. The hardhat party, held October 21, 1999, featured the faculty and staff in red, yellow, or green hardhats and coordinating ties and scarves showing off the empty space in the building that is awaiting renovation. Various student organizations set up booths to communicate the many facets of C&J. When not perusing the booths, the campus community ate hotdogs and sodas and danced to the music of the Virginia Creepers.

The birthday dinner was held at the La Posada Hotel on October 23. A silent auction helped raise money for the event and for the C&J building fund. A harp quartet, that included C&J alum Jeannie Page, played during the dinner. The following awards were presented by the department: Undergraduate Student of the Year, Graduate Student of the Year, Journalism Professional, Communication Professional, Lifetime Achievement, and Friend of the Department. Several members of the original Journalism class of 1949 attended. Hank Trewhitt was the featured speaker from the first class; Kathryn Sorrells, who received her Ph.D. from the department in fall, 1999, spoke as the representative of the most recent class. Karen Foss, Chair, gave an opening welcome, and Jack Condon served as Master of Ceremonies. Judith Hendry, chair of the anniversary committee, was instrumental in the success of all of the anniversary activities.

The department, with the assistance of Leslie Elgood from the UNM Development Office, prepared a proposal that was submitted to Bill Daniels, chair of Daniels Communications, Inc. and founder of the first cable brokerage company, requesting $3.5 million for the renovation of the C&J building. Unfortunately, Mr. Daniels died on March 7, 2000 without acting on the C&J request. The department, however, now has a proposal prepared for other such funding opportunities as well as department video, prepared by Professor Richard Schaefer and several broadcasting students.

The department also initiated an alumni newsletter, under the direction of Judie Hendry, to keep alums informed of C&J activities and to create a potential donor base for the department. A survey of alums will be sent out in spring 2000, designed to identify those who wish to help with fundraising.

The department, after considerable deliberation, decided to disband its forensics program, effective with the 2000-2001 academic year. The funds that were designated for forensics were returned to the department in the form of two new teaching assistant lines.
Appointments

Brad Hall was elected to serve as the next C&J chair. He will take over July 1, 2000, when Karen Foss completes her term.

Janet Cramer joined the department in fall 1999; she is a 1999 graduate of the University of Minnesota.

The department searched for a tenure-track faculty member in Communication, to begin the 2000-2001 academic year. Krishna Kandath, completing his degree at Ohio University, accepted the position.

Brad Hall was on sabbatical fall semester, 1999. Everett Rogers was on sabbatical for the 1999-2000 academic year.

A full roster of faculty and staff is attached.

Separations

Rachel Milan, graduate administrative assistant, left in November 1999 to join her husband in Phoenix. Toni McDaniels replaced her. Lindsey Yancy, undergraduate administrative assistant, left in November to take a teaching job. She was replaced by temporary help. Mary Beibot currently is in that position.

Publications of the Department

Monique Bell coordinated the revision of the department’s undergraduate brochure as well as its web site.

For faculty publications, see annual biographical reports.

Professional Activities of the Staff

Monique Bell, Department Administrator, attended the UNM Diversity Conference. She also served as parliamentarian of the Staff Council and as a member of that body’s Ethics Committee.

Pat Kiska, Broadcasting Engineer, was a representative to Staff Council and a member of the Salary Committee.

Toni McDaniels took an Access Data Base class.
Sponsored Research

Mitsubishi International Corporation. This grant, to study technology transfer through research findings from multi-disciplinary research centers to receptors outside of the university, continued for a fourth year. Everett Rogers, PI.

Minority Alcohol and Substance Abuse Prevention Program. Funded by NIAAA. Gill Woodall, co-principal investigator.

Evaluation of a multi-component DWI treatment facility in San Juan County, New Mexico. Funded by the national Institute on Alcohol Abuse and Alcoholism. Gill Woodall, PI.

Alcohol Server Education as a FAS Prevention Model. Funded by the national Institute on Alcohol Abuse and Alcoholism. Gill Woodall, PI.

Significant Plans

The department will undertake a review of its Graduate Program during the 2000-2001 academic year.

Faculty and Staff Roster
Communication & Journalism
1999

Faculty

Jean Civikly-Powell, Professor
Jack Condon, Professor
Janet Cramer, Assistant Professor
Karen Foss, Professor and Chair
Ken Frandsen, Professor and Associate Dean, Arts & Sciences
Diane Furno-Lamude, Associate Professor
Miguel Gandert, Associate Professor
Bob Gassaway, Associate Professor
Dirk Gibson, Assistant Professor
Brad Hall, Associate Professor
Michael McDevitt, Assistant Professor
John Oetzel, Assistant Professor
Everett Rogers, Professor
Janice Schuetz, Professor
Richard Schaefer, Assistant Professor
Gill Woodall, Associate Professor
Estelle Zannes, Professor

Staff

Monique Belle, Department Administrator
Linda Yancy, Undergraduate Administrative Assistant
Rachel Milan; Toni McDaniels, Graduate Administrative Assistants
Pat Kiska, Broadcasting Engineer
THE ANNUAL REPORT
OF THE
DEPARTMENT OF EARTH AND
PLANETARY SCIENCES

January 1, 1999 to December 31, 1999
Department of Earth and Planetary Sciences

Annual Report

January 1, 1999 – December 31, 1999

Leslie D. McFadden, Chair
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I. OVERVIEW OF SIGNIFICANT EVENTS, ACTIVITIES AND PROGRAM IMPROVEMENTS
INTRODUCTION

This annual report summarizes the activities, accomplishments and plans of the Department of Earth and Planetary Sciences (E&PS), including the Institute of Meteoritics (IOM), during 1999. Most details of faculty activities (Part III) are derived from biographical supplements for 1999. Therefore, much of what is contained in this report overlaps with materials in the last Department Annual Report for 1998-99 academic year. The greatly modified format of this report reflects the decision by Dean Mike Fischer to change Annual Reports from an academic year to a calendar year format. As this is the only document that comprehensively summarizes the Department's history during the past year and it is used as a source of information by many people both within and outside of the University, we have endeavored to make it as complete as possible.

During most of 1999, the faculty of the Department of Earth and Planetary Sciences consisted of 19 regular tenured or tenure-track faculty, 3 Senior Research Professors, and 3 Research Professors. In addition, 9 Ph.D.-level research scientists (2 within IOM) filled a variety of non-faculty positions within the Department. Most were scientific staff with specific responsibilities relating to analytical laboratories and departmental research endeavors; 5 were post-doctoral scientists. The Departmental faculty is thus augmented by a significant number of other doctoral-level geoscientists, who in some cases participate in teaching and advising of graduate students, and add to the research capabilities and scholarly reputation of the Department.

Permanent scientific staff also includes several technicians and Research Associates, and the office administrative, clerical, and support staff also contribute vitally to the functioning of the Department. Several other geoscientists affiliated with other institutions were in residence in the Department for periods ranging from weeks to the entire year, conducting research as visiting scientists and working with faculty and staff members. The names of all these departmental personnel are included in the Appendix or are noted later in this section.

In Fall of 1999, a new committee, the Long-Range Strategic Planning Committee, was formed under the Chairmanship of Dr. Jim Papike. The purpose of the committee were to evaluate strategies for faculty productivity assessment, course load distribution, and to develop a long-range five year plan for the department. This was done at the request of Dean Mike Fischer, and some aspects of the plan are described in this report, i.e., although most discussion and finalization of proposed plans were set for Spring of 2000.

FACULTY AND STAFF ACCOMPLISHMENTS

Position Changes in Faculty

No new regular faculty members joined the Department in 1999. In Spring 1999 Assistant Professor Frank Pazzaglia accepted a tenured Associated Professorship at Lehigh University, Pennsylvania, and resigned his UNM faculty position effective at the end of July. Dr. Pazzaglia, a geomorphologist, came to UNM in 1994 and contributed greatly to the Department, especially the Quaternary Studies Program, in his teaching, research and service.

Dr. Albert M. Kudo retired in October of 1999 due to severe health problems; he unfortunately tragically passed away in February, 2000. Dr. Frank Pazzaglia resigned from the department in May, 2000.

Impending Faculty Changes

The Department formally requested approval from the Dean for a search for a new faculty member in geomorphology during the 1999-2000 year, to replace the departing Frank Pazzaglia. The search was approved and following a search conducted in the Fall of 1999 and early Spring, 2000, the Department will be joined by Dr. Grant Meyer in Fall of 2000.

In the summer of 1999, Drs. Steve Getty and Roberto Molina-Garza resigned from their staff positions.
Other Position Changes

In Fall 1999 Jim Connolly, the Department’s computer network manager, also assumed the responsibility of managing the X-ray diffraction laboratory, under the supervision of Professor Adrian Brearley.

The Department hired Nicu-Viorel Atudorei (Ph.D., 1998, University of Lausanne, Switzerland) as a research scientist in the stable isotope laboratory, in January 1999.

Faculty Advancement and Selected Honors

Although Section III contains all appropriate data concerning faculty advancement, activities and honors, we include here some selected highlights for 1999.

Associate Professor Laura Cressey was promoted to full Professor in Spring, 1999.

The faculty reviewed and recommended Assistant Professors Yemane Asmerom and Frank Pazzaglia for tenure and promotion to Associate Professor in Fall 1998. Asmerom’s advancement became effective in Fall 1999; Pazzaglia’s is moot, as he resigned from the Department following the Spring of 2000.

The faculty conducted Assistant Professor Peter Fawcett’s Code 2 review in April, 1999.

The faculty conducted mid-probationary reviews for Assistant Professor Peter Fawcett, Associate Professors Zachary Sharp and Adrian Brearley. All three achieved positive recommendations from the Department. The faculty also reviewed and recommended Associate Professors Gary Smith and Jane Selverstone for promotion to Full Professors.

In Spring 1999, the faculty reviewed the Department’s three Research Professors (Horton Newsom, Frans Rietmeijer, and Chip Shearer), and renewed their two-year appointments.

Mike Campana continued his half-time appointment as Director of UNM’s Master of Water Resources Administration program this year.

Laura Cressey continued her two-thirds-time appointment as Associate Dean, College of Arts and Sciences this year.

John Geissman and Les McFadden both served as Arts and Sciences representatives on the Faculty Senate during the 1999.

Laura Cressey and Les McFadden served as Assistant Chairs of the Department for the Spring semester of 1999.

In February 1999 the faculty recommended Les McFadden to the Dean as the next Chair of E&PS, and the Dean appointed him to a four-year term beginning July 1, 1999. McFadden succeeded Barry Kues, who served as Chair from 1991-1999.

Drs. Gary Smith and Laura Cressey were Associate Chairs beginning in Fall, 1999.

In April of 1999, Jim Papike was presented with the Outstanding Achievement Award of the University of Minnesota, which recognizes former students who have attained unusual distinction in their chosen field or profession, and who have demonstrated outstanding achievement and leadership.

The Department learned this Spring that Emeritus and Senior Research Professor Wolf Elston will be honored at the Fall 1999 national meeting of the Geological Society of America, with “A multidisciplinary symposium on volcanism, planetary geology, and economic geology in honor of 50 years of geological work by Wolf Elston.”
On May 6, 1999, the Department honored the numerous teaching and research accomplishments of Dr. Albert M. Kudo by holding a reception and a special presentation by Dr. Scott Aldridge (LANL). Major Baca of Albuquerque proclaimed the day as Dr. Albert M. Kudo Day in Albuquerque as a very special added honor.

**Sabbatical and Other Leaves**

Gary Smith's sabbatical leave continued during the Spring of 1999. His primary activity during the sabbatical was research work in the Geohydrology Group at Sandia National Laboratories. This work mostly centered around geostatistical simulation methods applied to understanding transmissivity variation near the Waste Isolation Pilot Plant. These methods are also applicable to Smith's new research directions in the application of sedimentology to hydrological problems and the experience with SNL was extremely beneficial in broadening his expertise. Additional effort was directed toward developing interactive, animated computer presentations for use in introductory geology classes. Smith also gave invited colloquium presentations at UNM, University of Nevada-Las Vegas, and Oregon State University.

Dr. Barry Kues began a one-year sabbatical in the Fall of 1999, following eight long years as Department Chair. His research involving Paleozoic, invertebrate fossil studies at world-class locales in New Mexico and he continued work on a special volume describing late Paleozoic fossils of the state.

**Instructional Activities**

1. **Student enrollments**

   Student enrollments in Department of Earth and Planetary Sciences courses during the 1998-99 academic year, as indicated by total student credit hours (SCH), totaled 5705 for regular courses, and 6777 counting natural sciences courses (see #3 below). These figures represent a decline of 3.0% for the regular courses, but an overall increase of 3.7% with Natural Sciences, compared to the previous year. These figures include academic year courses plus our three summer field courses (E&PS-319, -420, and -451). The Department's SCH figures for the past 5 years are given below. The recent declines in departmental SCH have to some extended mirrored similar declines in UNM enrollment, and perhaps too, an increase in transfer students who have fulfilled science requirements at other institutions.

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<th>Year</th>
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<th>SCH (with Natural Sciences)</th>
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<tr>
<td>1998-99</td>
<td>5705</td>
<td>6777</td>
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Total reported SCH for Fall, 1999 was 3,084 (excluding Natural Sciences), which represented a 12.6% increase over Fall, 1998 SCH numbers, representing a significant reversal of a five-year trend of decreasing enrollment. Preliminary SCH data for Spring, 2000 compared with Spring, 1999 indicated an even larger increase.

The Department has extensively discussed enrollment trends in the past two years, with a view towards determining causes for declining enrollments and measures that could be taken to continue to increase student enrollment. Numerous factors appear to be involved, some of which we have some control of, some not.

Unlike the other sciences and mathematics, geoscience courses are not required for majors in other fields; thus students in E&PS 100 and 200-level courses are volunteers rather than filling mandatory requirements. The Department effectively loses academic-year SCH credit for our summer field courses, which are required or strongly recommended for our undergraduate majors, but which cannot easily be taught during the academic year.
Elementary geography courses are now considered science courses in the A&S Group Requirements and in the new Core Curriculum; because these courses are not as rigorous as earth sciences courses they attract some students who would otherwise have taken E&PS courses. Most students entering the university have not been exposed to earth sciences in high school, in contrast to biology, chemistry and physics, suggesting that the Department should develop an outreach program to make students aware of our subject before they reach UNM, and to encourage high school science teachers to develop geoscience teaching units. Progress has been made in this regard. A formal advanced geology course for high school students has been proposed to appropriate Albuquerque Public School officials by Alex Castrounis (public school science teacher and currently in our graduate program), with the help of Dr. John Geissman. Many other E&PS faculty, staff and students have been active in a variety of K-12 science/geoscience education initiatives, an effort highlighted in the forthcoming issue of “Inside Arts and Science at UNM” issue. Within UNM, better communication of our course offerings to advisors and other departments, and increased advertising of each semester’s offerings, might help to draw more students into our courses. Some revision of course descriptions for the next edition of the UNM catalog was completed, as well as development of a series of 1- and 2-unit short courses on selected topics of wide interest, which will be conducted initially in the 1999-2000 AY, we hope will increase student interest. All of the faculty agree that content and grading standards must be maintained; making courses easier in order to attract greater enrollments benefits neither the students nor the integrity of our instructional program. Finally, it should be noted that the upturn in Department SCH occurred some two years following an upturn in UNM’s overall enrollment that reflects initiation of the Lottery Scholarship Program. Perhaps many students who arrived at UNM in the 1997-98 academic year are now taking E&PS courses to fulfill various science course requirements. If so, Department enrollments might increase even more; and of course we hope our efforts to increase enrollment described above will also bear fruit, as well as the addition of a new B.S. degree program in Environmental Sciences (described in #4 below), envisioned to start in the fall of 2001.

At the end of 1999, the number of declared undergraduate E&PS majors stood at 80. During Fall, 1999, 48 students were pursuing M.S. and Ph.D. degrees (see section 2 for additional, related data concerning students) in the Department.

2. Developments in Course Offerings

A very large majority of the courses offered by this department in 1999 were taught by the faculty. Several new or modified courses were conducted this year. During Spring 1999 four topics (EPS-400) courses were offered on subjects not previously taught by the Department but for which there was significant student interest. These courses -- Vertebrate Paleontology (by Adjunct Professor S. Lucas); El Nino (D. Gutzler); Processes of the Earth’s Deep Interior (A. Brearley); and Hydrology of Small Watersheds (Research Assistant Professor P. Unnäkrishna) -- attracted a total enrollment of 46. In addition, two new graduate seminars were conducted, on Strength and Dynamics of the Lithosphere (Caswell Silver Research Professor Moušumi Roy), and Geomicrobiology (cross-listed in the Biology Dept., and conducted by L. Crossey and C. Dahm).

The Department reviewed its 400-level course offerings and added 500-numbered parallel courses to most of them, in order to allow students and the University to receive appropriate graduate credit for these courses. Previously, many graduate students enrolled in these 400-level courses together with undergraduates; in the future graduate students will enroll in the 500-numbered versions. A new course developed by Dr. Jim Papike, Mars Evolution is a good example (E&PS-465/565; 21 and 3 students, respectively; Fall, 1999). During this process several new courses were added as well, including a series of 1- and 2-unit short courses at the 100-level designed to provide short introductions to topics of wide interest within the geosciences. One such course was E&PS-106 (Evolution and Age of the Earth) developed by Dr. Zachary Sharp (11 students). Also, Dr. Adrian Brearley offered a new 200-level course, in Fall, 1999, E&PS-210 (Life in the Universe), which attracted 19 students.

In January 1998 the Department assumed responsibility for the Natural Sciences Program, which provides a series of three courses integrating the natural sciences for College of Education students who will become K-9 teachers in New Mexico’s public schools. The intent of the program is to provide potential public school teachers with solid training in science and in the effective teaching of science to younger students. In summer 1999, one classroom in Northrop Hall was renovated and all natural science classes are now taught in it. In the Fall of 1999, 8 classes were offered with a total enrollment of 119 students, producing 476 credit hours, a not insignificant contribution to the total
SCH produced by the Department. Ways to further integrate Natural Sciences Program and geoscience education into the Department constituted one of several key issues discussed by the new Long-Range Strategic Planning Committee in the fall of 1999.

3. Summer Course Offerings

During Summer 1999 the Department conducted its 6-week Beginning and Advanced Field Geology sequence (E&PS-319 and E&PS-420). Both the field courses, but especially E&PS-319, experienced increases in enrollment. E&PS-319 attracted 39 students. E&PS 420 also maintained a healthy enrollment of 19, the maximum number of students that can be accommodated in this class. The Department also offered E&PS-101, -105, and -365 during summer 1999, with the latter course of special interest to public school teachers and trainees.

4. Curriculum Changes and Outcomes Assessment

The faculty discussed and approved a proposal by the undergraduate committee for a Bachelor of Science degree in Environmental Sciences. This degree would be offered through E&PS (in addition to our regular E&PS degree), and includes several required E&PS, math and outside science courses, an interdisciplinary menu of course options, and two new "core" environmental science courses. This degree program will provide students rigorous training in the environmental sciences to better prepare them for careers in this rapidly maturing field. The proposal for this new degree was under review by various university committees outside the Department during the Spring of 2000.

The Department completed a third year of undergraduate outcomes assessment during the summer of 1999, adding to the data base begun last year, and continued the initial phase of outcomes assessment for graduate students. We hope to use data provided by these reports to evaluate the impacts of curriculum changes and other changes to our degree program on student outcomes and student retention.

Research and Publication

The faculty, research staff and students of the Department continued their high level of productivity in research in 1999. Research, contributing to human knowledge in one's discipline, is an essential and fundamental function of the Department of Earth and Planetary Sciences at UNM. The Department's status and respect within its discipline depends primarily on the quality and quantity of its research, just as a university's stature depends mainly on the scholarly activities of its entire faculty. In addition, active research programs form an essential teaching tool in keeping students up to date, in educating them not only about facts but also about how knowledge is gained, and (especially with graduate students) providing support for thesis/dissertation work and in the mentoring process of future geoscientists.

During calendar year 1999, members of the Department and Institute of Meteoritics (including faculty, research scientists and students) produced more than 260 publications, including books, scholarly papers in refereed journals, edited volumes, geologic maps, notes, extended abstracts and technical reports (see section 3). About a quarter of these publications are papers published in major national and international journals or edited volumes.

As in past years, graduate students and even some undergraduates participated significantly in the Department's publication effort (see section II). Many refereed papers published in 1999 had student coauthors and students also contributed to many of the published abstracts based on presentations made at professional meetings; in many cases students were the presenters. This shows the importance the faculty places on involving students in research and in presenting the results of their research through professional talks and publications, an important part of their preparation for careers in the geosciences.

Faculty and research scientists also continued their success in attracting external funding to support their research. 17 new externally funded grants and contracts, 26 continuing from past year were in effect among Department scientists in 1999 (see section 3 and 5). This data reported figures include the Institute of Meteoritics.
The great majority of these awards were from Federal agencies, especially the National Science Foundation, Department of Energy, the National Labs, and the National Aeronautics and Space Administration. Competition for these awards with scientists across the country has always been rigorous, but has become increasingly severe in recent years, which makes the success of the Department in 1998-99 all the more noteworthy. The amount of new research funding received each year by the faculty and research scientists exceeds the entire state/university - supported budget of the Department. Not only do these grant and contract funds support a large proportion of departmental research, and benefit the University as a whole through the overhead funds they generate, but many graduate students are supported as research assistants by these funds as well (sections 3 and 4). Also, because most of these external funds are expended in the state, they represent a significant addition to New Mexico's economy.

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 1998-99 that were not externally funded or published upon during the year (see Section 3).

Other Scholarly Activities

Most of the faculty and research staff participated widely outside the University in various professional activities at the state, national and international levels. These include service on the committees and panels of governmental agencies, as well as participation in professional organizations, such as presenting talks and posters at national meetings, organizing and chairing symposia, leading field trips, and serving as officers. Such activities are a form of service to the profession, but also increase professional recognition, the opportunity for collaborative research, and leads to greater visibility for UNM and the work of its faculty. This participation is summarized in sections III and IV.

The faculty's involvement in professional activities is too lengthy to completely survey here, but some of these contributions were especially important nationally and internationally, and are worth mentioning. Adrian Brearley was a member of the NASA Cosmochemistry Review Panel; Mike Campana was on the Board of Directors of the Association of Groundwater Geologists and Engineers, UNM delegate to the Commission on Food, Energy and Renewable Resources for the National Association of State Universities and Land-Grant Colleges, and was a member of the National Resource Council Water, Science and Technology Board Committee on U.S. Geological Survey Water Resources Research; Kase Klein was Treasurer of the International Mineralogical Association; Jim Papike had several NASA posts, including Chief of the Cosmochemistry Panel and Chair of the Curation Analysis Planning Team for Extraterrestrial Materials; and Jane Selverstone served on the NSF Tectonics Panel, and was elected Vice-Chair of the Structure and Tectonics Division of the Geological Society of America, and later became Chair.

Participation by the faculty and research staff as Editors, Associate Editors, and on Editorial Boards of international journals was substantial in 1999 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 world-wide.

University and Public Service

Service to the University and to the public is an important component of the Department's activities. During the past year, E&PS faculty participated on numerous College and University committees (see section IV), and on the Faculty Senate (L. McFadden and J. Geissman). The faculty also served as a resource of expertise in the geosciences and science in general for individuals, groups and organizations outside the University (see Part III and IV). Members of the Department routinely identify rock, mineral, fossil and suspected meteorite specimens for the public, give talks to civic groups and public school classes, judge in science fairs, answer questions for radio, television and newspaper reporters, and participate in socially important issues, such as the selection process for science textbooks in the public schools.
In 1999, many E&PS faculty and research scientists were featured in newspaper articles and radio and television reports on a variety of topics ranging from regional weather and climate issues to studies of meteorites, fossils and volcanoes.

An important resource provided by the Department to the University and the public is maintenance (without specified University support) of two public museums, one devoted to geology (rocks, minerals, fossils, New Mexico geology) and the other to meteorites. These museums are open each weekday, are free, and are visited by thousands of school children and adults each year. A free pamphlet provides information for a self-guided tour, and faculty and graduate students on occasion lead tours when arrangements have been made in advance. Thousands of recorded (group) visitors toured the Geology Museum in 1999; 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 represented by G. Smith at the Annual Tucson Gem and Mineral Show, the nation's largest, in February 1999.

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. More than 1700 people visited the Harding property in 1999, and they came from all over the country (30 states) (see Appendix). Among the visitors were mineralogy and field geology classes from 15 other universities, in addition to students from UNM. Clearly, the Harding mine is very well known to geologists and amateur rockhounds and mineral collectors, and in maintaining and operating it, the University and Department perform a notable service for the public. The Department welcomes visitors, but permission from the E&PS Chair must be obtained before each visit.

GENERAL DEPARTMENTAL ACTIVITIES

Facilities

1. Capital Improvements

As usual, there were no significant capital improvements to Northrop Hall this past year, although some are needed. The department recently learned that on the proposed new Science and Technology building - which would provide E&PS and three other departments badly needed additional space - - will not be built. Clearly, the department research and teaching needs are such that additional space remains a high priority, so we initiated discussions to try to see how these needs can be addressed. Planning began for renovation of our large lecture hall (Northrop Room 122), together with the Biology Department's lecture hall and Woodward hall. The intent is to modernize these facilities to allow a wider range of functions and presentation modes, and to integrate them via computer, making use of the most modern available technology.

In response to the Dean's request, the Department submitted its request for new equipment and minor capital improvements in February. The highest priorities for capital improvements are substantial repair and renovation of several heavily utilized classrooms, an upgrade of our radioactive mineral storage area, and replacement of the 55-year old, creaky main elevator. In the Fall of 1999, we learned that there were no funds to respond positively to this request.

In Spring 1999, the facilities committee developed and circulated a questionnaire to the faculty concerning space needs, in order to assist in planning space utilization over the next few years in an increasingly cramped Northrop Hall. Without the prospect of additional space becoming available in a new building, the Department must use existing space with maximum efficiency. The Long-range Strategic Planning Committee began to address this question in the Fall of 1999 as part of their goal of developing a five-year plan on the Spring of 2000.
2. Analytical Facilities

The Department and Institute of Meteoritics maintains an outstanding array of analytical facilities necessary to advanced research in many areas of the earth sciences. These facilities are also utilized extensively by other departments and high-tech centers on campus, as well as institutions outside UNM (e.g., the national labs, Intel Corp., etc.). Sustaining the operation and maintenance of the Department's analytical laboratories (mainly from grants and user fees) is for the most part successfully accomplished, but in some cases rather precariously. The costs of instructing students in these labs, service contracts and technician salaries is a persistent drain on their budgets, which may be exacerbated by declines in the user base. Relatively little assistance can be provided directly by the Department, and annual University support for the operation of our multi-user analytical labs, which are really university facilities, was nil this past year.

A new $1.5 million field-emission gun transmission electron microscope, funded by NSF in Fall 1998, with cost-sharing by several UNM offices and departments, arrived in the Fall of 1999 and installation in the basement of Northrop Hall commenced soon thereafter.

In 1999, the X-Ray Powder Diffraction Laboratory upgraded its analytical software to the Microsoft Windows-based DataScan 3.1 and Jade 5.0 from a VMS-based system, and installed a new Pentium II workstation and color printer. Conversion to a Windows-based system has made the exchange of data between the analytical system and our department local area computer network much simpler. This upgrade also allows for a significant increase in ease of use of our Scintag PADV system, and, combined with an upgrade to our Powder Diffraction File Database, makes software-assisted analysis of sample data quicker and more reliable.

A Shaw-type, large volume thermal demagnetization/paleointensity system was added to the Paleomagnetic Lab.

3. Computing Facilities

Two new Sun Ultra workstations were added to the department's Unix cluster, which now includes seven fully cross-linked Unix workstations with approximately 60 Gbytes of total disk storage. Use of these machines is growing rapidly, particularly as more students carry out GIS-based mapping to complement their fieldwork.

Professors Pazzaglia, Gutzler and Fawcett submitted a proposal to the National Science Foundation (currently under review) to fund a major upgrade in the Ethernet backbone in Northrop Hall by replacing the network hubs; unfortunately the proposal was turned down, presumably owing largely to Pazzaglia's departure according to statements by NSF. The Long-Range Strategic Planning Committee recognizes modernization and upgrading of our computer facilities as major issues in this department (see section 7). In Fall of 1999, department funds were used to purchase new computer hardware and software in an attempt to at least partly address the issue. Also, the faculty formally identified purchase of a large-format, computer based plotter, as one of its prioritized overall capital equipment request in the Fall of 1999; submitted to the Dean of the College of Arts and Sciences.

4. Teaching Facilities

In the Spring the Department purchased a used but relatively low mileage 15-passenger Dodge van from the UNM automotive division for a good price, to augment our aging fleet of vehicles utilized mainly for class field trips. The van was immediately pressed into service in the early summer field courses. In the Fall, the Department voted to prioritize purchase of a 9-passenger suburban to be used as an essential field vehicle, in teaching and research (in response to the request for small capital purchases from the Dean).

Some minor improvements were made in Room 114 to improve classroom teaching-related activities in Natural Sciences program classes.
Recruiting Visits

The Department did not host recruiters from companies such as Vastar Resources, Conoco, Exxon, and Arco Gas during 1999 as we have usually done in the past. Unfortunately, a severe downturn in petroleum prices in the past few years has severely limited hiring in this area and therefore diminished recruiting by such companies.

Professional Lectures given in the Department during the 1999 academic year are listed below:

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<tr>
<th>Date</th>
<th>Speaker</th>
<th>Title of Presentation</th>
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<tbody>
<tr>
<td>9/10/99</td>
<td>Eric Small</td>
<td>New Mexico Institute of Mining and Technology. “Regional Hydrologic &amp; Climatic Changes Caused by Anthropogenic Desiccation of the Aral Sea”</td>
</tr>
<tr>
<td>9/17/99</td>
<td>Troy Rasbury</td>
<td>SUNY Stony Brook. “Directly Dating the Sedimentary Record: Approach and Application”</td>
</tr>
<tr>
<td>9/22/99</td>
<td>Martha House</td>
<td>“(U-Th)/He Thermochronometry and Cenozoic Evolution of the Sierra Nevada, California: Uplift, Exhumation and Relief”</td>
</tr>
<tr>
<td>11/5/99</td>
<td>Cliff Dahm</td>
<td>University of New Mexico, Biology Department. “Biogeochemistry and Hydrogeology of Surface Water and Ground Water Interfaces”</td>
</tr>
<tr>
<td>11/12/99</td>
<td>Huifang Xu</td>
<td>University of New Mexico. “A Unified Equation for Predicting Stability Constants of Aqueous Metal Complexes and Intrinsic Sorption Constants of Metal Ions at Mineral-Water Interfaces”</td>
</tr>
</tbody>
</table>
11/22/99 Lokesh Chaturvedi Environmental Evaluation Group New Mexico Institute of Mining and Technology. "Where is WIPP now"


12/10/99 Orin Pilkey Using Mathematical Models to Predict Earth Surface Processes: They Don't Work " (Duke University).

ALUMNI PROGRAMS AND SUPPORT

The Department is very fortunate in being supported by a large group of active and enthusiastic alumni. Individually and collectively these graduates provide generous financial, advisory and moral support for many departmental activities, which contribute significantly to our success in our educational and research missions.

Caswell Silver Foundation

First among sources of alumni support is the Caswell Silver Foundation. Funds generated by the investments of the Foundation in 1998-99 provided full-time support for the Leon Silver/Vincent Kelley graduate student Fellows (Colin Shaw and Mike Gaud), and subsidized most of the travel of faculty to professional meetings in 1999. The Foundation also supports periodically an endowed faculty chair, the Caswell Silver Research Professor; as noted earlier, Dr. Mousumi Roy, began a 2-year appointment as Silver Research Professor in July, 1998.

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. This year, the faculty chose Professor Victor Baker, Head of the Department of Hydrology and Water Resources at the University of Arizona, and 1998 President of the Geological Society of America, as the Caswell Silver Distinguished Lecturer. Professor Baker presented two lectures during his visit on April 1 and 2, 1999: "Toward a Philosophy of the Earth Sciences," and "Geomorphology and Paleohydrology of Mars" He was honored at a reception in the geology museum and spent much of his visit talking with faculty and students individually. Visits of Distinguished Lecturers are welcomed by the Department both for the opportunities they provide us to interact with some of the most distinguished and influential geologists in the country, and to inform them about our department and the research and other academic activities we are pursuing. No Caswell Silver Distinguished Lecture was presented in the Fall of 1999.

As in previous years, the Silver Foundation made possible two $500 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, 1999 Commencement Ceremonies, were Paula Holub, departmental administrator, and Gilbert Griego, Harding Mine manager.

In addition to these major ways in which the Silver Foundation assisted the Department of Earth and Planetary Sciences during the past year, the Foundation also provided the means to accomplish other important functions, such as advertising and supporting the visits of top potential graduate students to the department, and sponsoring the reception for the Distinguished Lecturer. Support from the Caswell Silver Foundation benefits the Department in many different ways, and thereby strengthens the Department as a whole, as well as assisting individual faculty and students in their scholarly endeavors. In the Fall of 1999, for example, the Foundation Board voted to support on initiative to use Foundation funds to extend Dr. Mousumi Roy's position in the Department another two years, with the support of the College of Arts and Sciences. The Department deeply appreciates this support.
Alumni Contributions and Accomplishments

Donations and contributions from alumni, faculty and friends of the Department support about a dozen scholarship funds, mostly managed by the UNM Foundation. The interest generated by these funds annually is utilized to award scholarships to undergraduate and graduate students. Such scholarships are augmented by other scholarships awarded by the Department, scholarships and research grants from institutions outside the University, and occasionally fellowship funds from the University. A full summary of scholarships and fellowships received by Earth and Planetary Sciences students is presented in Part IV of this report. Here we note that in 1998-99, scholarships derived from alumni-supported funds amounted to $26,575 awarded to 31 undergraduate students (Leonard, Campbell and Pfeiffer Scholarships), plus $21,800 awarded to 22 graduate students (Alumni Fellowship, Kelley, Miossec, Wanek, Rhodes, Vann and Wengerd Scholarships).

The Department also maintains contact with its alumni through gatherings at professional meetings, newsletters and many personal and professional contacts. Several alumni of the Department advanced significantly in their careers this past year, and we recognize these accomplishments here.

- Alex Castrounis (B.S., 1998) — is an APS Science teacher.
- Anna Snider (M.S., 1999) — just started working in Carlsbad for Sandia National Laboratories.
- Brad Ilg (Ph.D., 1996) — Research Associate, School of Earth Sciences, Victoria University of Wellington, Wellington 6000, New Zealand. He is responsible for field programs and "Research Expeditions".
- Brian Horton (B.S., 1992) — after finishing Ph.D. elsewhere, obtained tenure-track faculty position at Louisiana State University.
- Bruce Harrison (Ph.D., 1991) — gained tenure in Geology Department, New Mexico Tech. Socorro.
- Chris Andronicos (B.S., 1994) — is now Assistant Professor, University of Texas at El Paso, starting in 1999.
- Edmund Deal (Ph.D., 1973) — became Director and State Geologist, Montana Bureau of Mines and Geology.
- Kathy Dotson (B.S., 2000) accepted a position with Hazen Research in Golden, Colorado.
- Lance Cook (M.S., 1979) — became State Geologist of Wyoming.
- Laura Hagan and Jake Armour (Both are working on M.S.,) are working for John Shomaker, a local, prominent geohydrologist.
- Peter Maggiore (M.S., 1982) — became Director, New Mexico State Environment Department.
- Sheila Hutcherson (B.S., 1999) — is working on a Masters at UNLV Reno.
- Stephen Harlan (Ph.D., 1992) — tenure-track faculty position, George Mason University, Virginia.
- Tracey Cascadden (Ph.D., 1997) — tenure-track faculty position, Emporia State University, Emporia, Kansas.
- Adam Read, (M.S., 1997) — Geoscientist and GIS Specialist, accepted a position with the New Mexico Bureau of Mines and Mineral Resources, Socorro, New Mexico.
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II. STUDENT ACHIEVEMENTS
Student Publications and Other Accomplishments

(Please see section 3 for papers in which students are co-authors with faculty and/or research scientists; student co-authors are indicated by a star).

Student: Deb Bergfeld

Abstract:


Presentation:


Student: Peter J. Castiglia

Abstract:


Funding:

GSA: $1,600
Sigma Xi: $ 800
RPT: $ 750

Graduate Student: Aaron Cavosie
Collaborated with Laura Pletsch-Rivera (former undergraduate student).

Poster Presentation:

Quartz veins as proxies for fluid pressure evolution in the contact aureole of the 1.4 Ga Sandia Pluton, New Mexico at the Spring NMGS Meeting in Socorro, New Mexico.

Poster Presentation:
Undergraduate Steven Rogers and Elizabeth Lucky collaborated with graduate student Aaron Cavosie.

Early Proterozoic ophiolite fragments in the northern Colorado Front Range?, at the GSA Meeting in Denver, Colorado.
Student: Kate Duke

Abstract:

Paper:

Funding:
$6000.00 from Zonta International Foundation Amelia Earhart Fellowship.

Student: Laura Hagan

Abstracts:

GSA student grant, 1999.


Student: Andrew B. Heckert

Abstracts presented at Professional Meetings:


Lucas, S.G., Heckert, A.B. and Morgan, G.S., Newly discovered skull of the Proboscidean Gomphotherium from the Miocene of the Española Basin, New Mexico. New Mexico Geology v. 21, p. 44. Presented at the Spring meeting of the New Mexico Geological Society, Socorro, NM April, 1999.

Peterson, R., Peterson, R., Andrea, N.V., Lucas, S.G. and Heckert, A.B. Geology and taphonomy of the Peterson site, New Mexico's most extensive Late Jurassic dinosaur quarry. New Mexico Geology v. 21, p. 43-44. Presented at the Spring meeting of the New Mexico Geological Society, Socorro, NM April, 1999.


Heckert, A.B., Upper Triassic tetrapods from the Lucero uplift, central New Mexico. New Mexico Geological Society Guidebook 50, p. 311-315.


Grants:


Selected Scholarships, Fellowships and Awards:

Society of Vertebrate Paleontology Bryan Patterson Award for field research; $2000, (only one awarded), University of New Mexico Geology Alumni Scholarship, 1999.

Conferences attended:


Departmental Service

Full time TA, Spring and Fall Semesters, 1999.
E&PS 105L Coordinator, Spring and Fall Semesters, 1999.

Student: Marcia Jensen

Abstract:


Grants and Awards:

1999—Outstanding Student Research Award, Geological Society of America, 1999—Student Research Grant ($1866.00), Geological Society of America, 1999—Research, Project and Travel Grant ($900.00), Office of Graduate Studies, University of New Mexico

Student: Timothy Wawrzyniec

Presentation: Collaborated with Gary Axen and Jane Selverston.

Rapid Thinning and Embrittlement of Ductile Shear Zones: Alternatives to P and T as Principal Controls on the Brittle-Ductile Transition at the Fall AGU Meeting.

16
Progress of Earth and Planetary Sciences Department Graduate Students Supported by The Institute of Meteoritics

Justin Hagerty completed the second year of his Master's degree program and intends to graduate in December 2000. The focus of his research is to use the Lonar Lake impact structure in Maharashtra, India as an analogue for similar craters on the surface of Mars. This work will provide information concerning hydrothermal alteration products and the formation of the Martian soil. Justin also worked in conjunction with Dr. Horton Newsom to create and provide educational outreach activities for middle school students.

Justin attended the 31st Lunar and Planetary Science conference in Houston, Texas where he gave an oral presentation titled, “Hydrothermal activity at the Lonar Lake impact structure: Implications for the formation of the Martian soil.” He also presented a poster titled “Addressing the misconceptions of middle school students about becoming a scientist or engineer.”

Chris Herd is actively pursuing his Ph.D. and expects to graduate in the spring of 2001. He has completed the first section of his dissertation, focusing on the oxygen fugacity of the martian basalts and has submitted the results to American Mineralogist for publication. Ion Probe work on Ni and Co in martian olivines continues, with initial results presented at the Lunar and Planetary Science Conference in Houston in March. Experiments with Dr. John Jones at Johnson Space Center continued after the March meeting, with results expected to produce a paper in the near future. Development of spinel standards for Ion Probe analysis is in progress.


An oral presentation was given at the Geological Society of America Annual Meeting titled, “Implications for the petrogenesis of martian meteorite Dar al Gani 476 from spinel, olivine and pyroxene compositions”.

An oral presentation was given at the 2nd Canadian Space Exploration Workshop titled “Canada’s Potential Role in Martian Materials Research: Examples from Petrologic Studies of Martian Meteorites”.

An oral presentation was given at the 31st Lunar and Planetary Science Conference titled, “Experimental constraints on the Cr content, oxygen fugacity and petrogenesis of EETA 79001 Lithology A.”

Jim Karner is currently working on his dissertation while working part time as the laboratory technician in the Microprobe and SEM labs. His dissertation focuses on the major, minor and trace element chemistry of silicate minerals in basalts in a comparative planetology study. Jim was recently awarded a New Mexico Space Grant Consortium fellowship that will help fund his research.

Jim also volunteers his time to a couple of the Institute’s public outreach activities. He works with Dr. Horton Newsom and Justin Hagerty in designing and implementing space-based inquiry activities for middle school students involved in the MESA program. Jim also assists Dr. Rhian Jones in analyzing and identifying suspect meteorite samples as a public service to anyone who brings or sends their samples in.

Placement of Department Graduates

- Anders Lundahl: is with City of Albuquerque Water District.
- Meaghan O’Rourke is working with an environmental consulting firm in Albuquerque, and then moved to a job at Sandia National Laboratories.
- Tim Wawrzyniec, Ph.D., employed with Research Scientist at Texas Bureau of Economic Geology at the University of Texas.
**STUDENT SCHOLARSHIPS AND OTHER AWARDS**

Many Graduate and Undergraduate students were supported by scholarships, fellowships and other awards during the 1998-1999 year. 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 provide free use of vehicles to these meetings) and other scholarships supporting use of the analytical instruments and other research expenses. Recipients of such awards are listed below:

### Outstanding Student of the Year Award

- Stuart A. Northrop, Outstanding Senior (Brunton Compass) – Sheila K. Hutcherson
- Sherman A. Wengerd, Award (Hand Lens) – Diana B. Strickland
- J.P. Fitzsimmons, Award (NMGS Guidebook) – Paulo de Sa’Rego

### V.C. Kelley Outstanding Field Geologist (Estwing Hammer)

- Sheila K. Hutcherson

### Harry and Mabel Leonard Scholarship

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<td>Justin Christofferson</td>
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<td>Ivan Erchak</td>
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<td>Todd Lopez</td>
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<td>Leigh Shean</td>
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<td>Richard Ortiz</td>
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<td>Jason Ray</td>
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<td>Diana Strickland</td>
<td>John Whalen</td>
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### General Thomas Campbell Award

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<td>Catalina Bryant</td>
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<td>Meghan Duran</td>
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<td>Shawna Hollen</td>
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<td>Serenity Nehring</td>
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<td>Angie Smigelski</td>
<td>Eric Wilkins</td>
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### James Drew Pfeiffer Memorial Award

- David Johnson

### New Mexico Geological Society, Outstanding Senior Award

- Eben Crawford

### New Mexico Geological Society, Lucille H. Pipkin Undergraduate Award

- Eben Crawford
- Nancy Natek

### Los Alamos National Laboratories, Field Conference Award

- Sheila Hutcherson
### Association for Women Geoscientists Award

| Sheila Hutcherson | Mary Simmons |

### Geology Alumni Fellowship Fund

<table>
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<tr>
<th>Jake Armour</th>
<th>Nicole Bailey</th>
<th>Claudia Borchert</th>
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<tr>
<td>Aaron Cavosie</td>
<td>Patrick Florence</td>
<td>Tim Gere</td>
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<tr>
<td>Andy Heckert</td>
<td>Dale Henderson</td>
<td>Michelle Kearney</td>
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<td>Tom Loveland</td>
<td>David Mitchell</td>
<td>Jessica Moore</td>
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<tr>
<td>Michael Timmons</td>
<td>Dezbaah Tso</td>
<td>Paul Wisniewski</td>
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</tbody>
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### Jean-Luc Miossec Memorial Scholarship (Geomorphology/Sedimentology)

- Missy Eppes

### Richard P. Vann Memorial Scholarship (Paleontology)

- Marcia Jensen

### Sherman A. Wengerd Traveling Fellowship

- Laura Hagan

### Alexander and Geraldine Wanek Scholarship

| Carol Dehler | Anna Snider | Karen Roche |

### Vincent C. Kelley Scholarship

- Colin Shaw

### Rodney Rhodes Scholarship

- Jessica Moore

### Albuquerque Petroleum Association Award

- Aaron Cavosie

### New Mexico Geological Society, Fall Field Conference Scholarship

| Aaron Cavosie | Anna Snider |

### Colorado Scientific Society Research Grant

- Carol Dehler

### UNM Office of Graduate Studies Graduate Fellowship

- Missy Eppes
Bachelor of Arts

Marsha R. Green – Spring, 1999
Mark L. Luongo – Spring, 1999
Fredric Shean Jr., – Spring, 1999
Todd M. Lopez – Spring, 1999
Kathleen E. McLeary – Spring, 1999

Bachelor of Science

James Morton Ashby – Spring, 1999
Ivan Michael Erchak – Spring, 1999
Alexander A. Garza – Spring, 1999
Anders H. Lundahl – Spring, 1999
Meghan S. O’Rourke – Spring, 1999
Jasper David Schaer – Spring, 1999
Angie Smigelski – Fall, 1999
Charles A. Bertram – Spring, 1999
Leigh Margaret, Fall-Spring, 1999
Sheila K. Hutcherson – Spring, 1999
Mary Ann Montoya – Spring, 1999
Jessica W. Preston – Spring, 1999
Douglas A. Rasewski – Fall, 1999

Master of Science

Daniel J. Koning – Spring, 1999
David K. Mitchell – Fall, 1999
Karen N. Roche – Spring, 1999
Anna C. Snider – Fall, 1999
Karl W. Wegmann – Spring, 1999
Paul A. Wisniewski – Fall, 1999

Bachelor of Science – Departmental Honors – Senior Thesis

Sheila K. Hutcherson, Spring 1999 – A geochemical Comparison of Topaz, Rhyolite to Other Mount Taylor Volcanic Field Rhyolites. (Dr. Albert M. Kudo, Advisor).

Kathleen E. McLeary, Spring, 1999 – Characteristics of Melalted Xenoliths at Vulcan Cone, Albuquerque Volcanoes. (Dr. Gary A. Smith, Advisor).

Graduate Degrees Awarded

The following students received M.S. and Ph.D. degrees in Earth and Planetary Sciences, between fall 1998 and summer 1999. Thesis/dissertation titles and faculty advisors are also indicated.

Master of Science


Karl W. Wegmann, Spring, 1999 – Late Quaternary Fluvial and Tectonic Evolution of the Clearwater River Basin, Western Olympic Mountains, Washington State. (Dr. Frank J. Pazzaglia, Advisor).

Doctor of Philosophy

Joel L. Pederson, Spring, 1999 – A Long-Term Record of Climate-Controlled Hillslope Sedimentation. (Dr. Frank J. Pazzaglia, Dr. Gary A. Smith, Advisors).

Timothy F. Wawrzyniec, Fall, 1999 – Dextral Transcurrent Deformation of the Eastern Margin of the Colorado Plateau (USA) and the Mechanics of Footwall Uplift Along the Simplon Normal Fault (Switzerland/Italy). (Dr. Jane Selverstone, Dr. John W. Geissman, Advisors).
III. FACULTY AND STAFF ACCOMPLISHMENTS

- Activities of Full Associates and Assistant Professors
- Activities of Research Professors
- Activities of Senior Research Scientists and Staff
Activities of Full Associates and Assistant Professors

Yemane Asmerom

Teaching

Courses taught:

Spring: Radiogenic Isotopes 534

Fall: Environmental Geology 333, Fundamentals of Geochemistry

In Lab training-UNM: Brian Beirman, Dezbah Tso, Tedros Tesfay, Angela McLain, Colin Shaw, Victor Polyak.

Outside (US): Claudia Lewis (Los Alamos), Rhawn Denniston (U. Iowa).

International: Andy Baker (Great Britain); Fidel Grandia (Spain); Brad Elg (New Zealand); Mengist Teklay (Eritrea).

Graduate students supervised: Dezbah Tso, Brian Bierman, Tedros Tesfay. Carter Dunaway (inactive).

Graduate student committee: Angela McLain (Ph.D., soils; Sr isotope work in my lab). Rebecca Gardner M.S. (low temperature geochemistry; Sr isotopes). Rich Woodford (Ph.D., paleoclimate).

Faculty Advisor: Association of Black Student Engineers, Amnesty International.

Publications (* indicates student authors)


Manuscripts in review:


Nature (in review):


Abstracts:


Externally Funded Research

Awards Current in 1999:

$^{231}$Pa-$^{235}$U Fractionation During Intra-Plate Mantle Melting and Magma Transport. Y. Asmerom, PI (UNM), National Science Foundation [11/99-10/01], $98,000$ UNM; $50,000$ (UMN).


Research Projects in Progress


Chronology of submerged speleothems from the Blue Hole, Belize: Implication for sea level and tropical climate change through time. Y. Asmerom, PI, National Science Foundation, $50,000 (1998-2000).


Collaborative Research: An Integrated Study of Late Proterozoic (ca. 1.2 - 0.7 Ga) Extensional Tectonism. UNM PI(s) (K. Karlstrom, J.W. Geissman, M. Elrick and Y. Asmerom), National Science Foundation, $160,809 (UNM portion).

Conference, Symposium and Invited Lectures

The Geochemical Society Goldschmidt Conference, Harvard University, Cambridge, Fall AGU.

Society for the Advancement of Chicano and Native American Students in Science, Annual Meeting, Portland, OR.

Sloan Foundation Minority Student Recruitment and Retention Workshop, Rice University.

Off campus talks: University of Michigan.

Sabbatical and Travel

Outside Activity: Amnesty International; The Sierra Club; talk at Sandia Prep; UNM Earth Day.

Adrian Brearley

Teaching

Courses taught:

Spring: E&PS 101 - Physical Geology (85 enrolled); E&PS 400 - Topics in Earth Sciences, Processes in the Earth's Deep Interior - (6 enrolled); E&PS 552 Problems - (1 enrolled).

Fall: E&PS 210 - Life in the Universe (17 enrolled); E&PS 518 - Electron Probe Microanalysis and Scanning Electron Microscopy (9 enrolled) - Cotaught with Mike Spilde; E&PS 519L - Selected topics in Geochemistry - Cotaught with other members of E&PS (9 enrolled).

Guest lecture in Geomicrobiology seminar - Current views of fossil life in ALH 84001.

Served as Advisor and M.S. committee member for Kate Duke.

Thesis Committee member for Tedros Tesfay, Brian Bieman, Nicole Bailey, Kurt Steffan, Toti Larsen, David Vaughan (Anthropology), Jim Karner.

Ph.D. Exam Committee member for Yaming Jin (Chemical and Nuclear Engineering), Dan Barton (Electrical and Computer Engineering), Linda Mansker (Chemical and Nuclear Engineering).
Publications (* indicates student authors)

Papers:


Abstracts:


Externally Funded Research

Awards Current in 1999:


Awards Continuing from Previous Years:


Phase transformations involving olivine, β-phase and spinel in the mantle transition zone: experimental studies of transformation mechanisms in Mg2SiO4 and (MgFe)2SiO4. A.J. Brearley, National Science Foundation, $102,175: August 1, 1995 - July, 31 2000.
Research Projects in Progress

Manuscripts in press:

Articles in press


Manuscripts submitted:


Advanced Study and New Scholastic Honors

Nominated for councillor of the Meteoritical Society.

Conference, Symposium and Invited Lectures


 Talks presented:


Sabbatical and Travel

Teaching

Courses taught:

Spring: E&PS 472, Subsurface Fate and Transport Processes (8 enrolled). WR 572 (AOA Econ 545), Interdisciplinary Water Resources II: Use of Technical Models and Communications Laboratory (8 enrolled) (with D. Brookshire, R. Heggen and M. Kantrowitz).

Summer: WR 573 (AOA CRP 426/526), Interdisciplinary Water Resources III: Field-Based Problems and Communications Laboratory (12 enrolled) (with D. Brookshire and O.P. Matthews).


Graduate students:

Student Advisement/Thesis Supervision:


Ph.D.: Ivan Thorsos (co-advisor).

Professional projects completed (MWRA degree):


Service on Thesis/Dissertation/Professional Project Committees:


MWR: Debbie Terry, Linda I. Gordon, Jeffrey Peterson, William McDonald, Richard M. Renn, Elaine Brouillard, Hirotaka Satoandreana Hunter, Toby Walters.

Ph.D.: Richard Woodford, Ivan Thorsos, Armand Groffman, Drew Baird (Civil Engineering), Steven Dominguez (Archaeology).

Publications (* indicates student authors)

Refereed Journals:


Refereed Reports:


Externally Funded Research

Awards Current in 1999:

A quantitative assessment of the economic and institutional impacts of climate change on the Upper Rio Grande Valley using an integrated GIS framework. L. Scuderi, O.P. Matthews, M. Campana, D. Brookshire and J. Chermak, National Science Foundation, $675,000: 1/1/00-12/31/02.


IGERT: Freshwater graduate studies link fundamental science with applications through integration of ecology, hydrology and geochemistry in regions with contrasting climates. A. Ward, A. Benke, W. Lyons, R. Wetzel (Univ. of Alabama); and C.N. Dahm (UNM). (Note: not a PI, but played substantial role in proposal writing, along with 6 other UNM faculty members.), National Science Foundation, $2,700,000 (UNM share: $1,200,000): 10/1/99-9/30/04.

Awards Continuing from Previous Years:


Outcrop characterization of heterogeneity: explicit linkage of hydrologic and sedimentological properties and testing of stochastic model performance. G.A. Smith and M.E. Campana, National Science Foundation - Hydrologic Sciences Program, $120,000: 8/15/97 - 8/14/00.

Geochemistry and hydrology of the Red River stream system before and after open-pit mining, Questa area, Taos County, NM. B. Allen, R. Anderson, M. Campana and L. Crosse, Office of Natural Resource Trustee, State of New Mexico, $134,000: 3/1/97-9/30/99.

Research Projects in Progress

Manuscripts in Press:

Compartment model simulation of ground-water flow systems, to be published as a chapter in an International Atomic Energy Agency TECDOC.

Compartmental model approaches to groundwater flow simulation, to be published as a chapter in a UNESCO publication on groundwater modeling (with G. Harrington and L. Tezcan).

Environmental isotope dynamics in the Roswell Ground-Water basin, New Mexico, USA. M.E. Campana.

International Atomic Energy Agency, 6/1/99- 5/31/02; funding provided only for travel to research group meetings. Proposals Submitted.


Residence time and porosity distributions in the Roswell Basin, New Mexico. M.E. Campana, Petroleum Research Fund, American Chemical Society, 6/1/00 - 8/31/02: $60,000 (pending).

Conference, Symposium and Invited Lectures


Co-Chair, Association of Ground Water Scientists and Engineers Annual Conference, Nashville, TN, December 1999.


Sabbatical and Travel

Travel:

- Cleveland, TX, to attend well drilling and construction workshop, February 24-28, 1999.
- Panama, to conduct field work in the southern Darien Province and attend and present paper at the Third Inter-American Dialogue on Water Management, March 5 - 26, 1999.
- Orange Beach, AL, to attend mid-year meeting of the Board of Directors, Association of Ground Water Scientists and Engineers, May 20-23, 1999.
- Washington, DC, to attend panel meeting of the Fulbright Senior Scholar Caribbean, Central American and Mexico Peer Review Panel, November 1, 1999.
- Vienna, Austria, to attend research coordination meeting of the International Atomic Energy Agency's (IAEA) Coordinated Research Program on Isotope Response of Hydrological Systems to Long-Term Exploitation, November 8-12, 1999.
- Nashville, TN, to attend annual conference and Board of Directors meetings, National Ground Water Association and Association of Ground Water Scientists and Engineers; and Board of Directors meeting, Ground Water Publishing Company, December 2-6, 1999.

Laura J. Cressey

Teaching

Courses taught:

Spring: E&PS 415 - Geochemistry of Natural Waters (13 enrolled); E&PS 548 - Topics (Biogeochemistry) (3 enrolled); concurrent w/ Biol topics/ C. Dalun (9 enrolled); E&PS 491 - Problems (1 enrolled); E&PS 495 - Senior Thesis (1 enrolled); E&PS 599 - Masters Thesis (2 enrolled); E&PS 699 - Dissertation (2 enrolled).

Fall: E&PS 101 - Introductory Geology (80 enrolled); E&PS 492 - Problems (2 enrolled); E&PS 599 - Masters Thesis (1 enrolled); E&PS 699 - Dissertation (2 enrolled); E&PS 552 - Problems (1 enrolled).

Ph.D. Committees:

Deborah Bergfeld, Armand Groffman (chair); Angela McLain (co-chair). Christy Fellows, Diana Northup (Biology). Mike Timmons, Carol Dehler, Jim Karner and Ivan Thorson.

M.S. Committees:

Rebecca Gardner, Laura Hagen, Susan Block (chair). Dezbah Tso, Anna Snider, Jake Armour, Marcia Jensen, Justin Haggerty. Thomas Loveland.

Undergraduate Sr. Thesis Committees:

Rick Ortiz, Joan Otahal, Kathleen Dotson (chair). Sharon Sparks.
Student Grant Support:
Graduate: Armand Groffinan (full); Christy Fellows, Laura Hagen (partial).
Undergraduate: Dave Johnson, Richard Ortiz, Paulo de sa Rega, Joan Otahal.

Publications (* indicates student authors)

Published, peer-reviewed


Published, other


Abstracts:


Externally Funded Research

Awards Current in 1999:

IGERT – Integrated Graduate Research Training. Co-I; C. Dahm, M. Molles, C. Crawford, T. Turner (UNM Biology) and Z. Sharp, D. Gutzler, M. Campana, L. McFadden (E&PS), National Science Foundation, IGERT, 8/1/99-7/31/04: $2,500,000 (including University of Alabama, Partner with 9 additional Co-PI's).
Travel:

- Cleveland, TX, to attend well drilling and construction workshop, February 24-28, 1999.
- Panama, to conduct field work in the southern Darien Province and attend and present paper at the Third Inter-American Dialogue on Water Management, March 5 - 26, 1999.
- Orange Beach, AL, to attend mid-year meeting of the Board of Directors, Association of Ground Water Scientists and Engineers, May 20-23, 1999.
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- Nashville, TN, to attend annual conference and Board of Directors meetings, National Groundwater Association and Association of Ground Water Scientists and Engineers; and Board of Directors meeting, Ground Water Publishing Company, December 2-6, 1999.

Laura J. Crossey

Teaching

Courses taught:

Spring: E&PS 415 - Geochemistry of Natural Waters (13 enrolled); E&PS 548 - Topics (Biogeochemistry) (3 enrolled); concurrent w/ Biol topics/ C. Dahm (9 enrolled); E&PS 491-Problems (1 enrolled); E&PS 495 - Senior Thesis (1 enrolled); E&PS 599 - Masters Thesis (2 enrolled); E&PS 699 - Dissertation (2 enrolled).

Fall: E&PS 101- Introductory Geology (80 enrolled); E&PS 492 - Problems (2 enrolled); E&PS 599 - Masters Thesis (1 enrolled); E&PS 699 - Dissertation (2 enrolled); E&PS 552 - Problems (1 enrolled).

Ph.D. Committees:

Deborah Bergfeld, Armand Groffman (chair); Angela McLain (co-chair). Christy Fellows, Diana Northup (Biology). Mike Timmons, Carol Dehler, Jim Karner and Ivan Thorson.

M.S. Committees:

Rebecca Gardner, Laura Hagen, Susan Block (chair). Dezbah Tso, Anna Snider, Jake Armour, Marcia Jensen, Justin Haggerty. Thomas Loveland.

Undergraduate Sr. Thesis Committees:

Rick Ortiz, Joan Otahal, Kathleen Dotson (chair). Sharon Sparks.
Student Grant Support:

Graduate: Armand Groffman (full); Christy Fellows, Laura Hagen (partial).
Undergraduate: Dave Johnson, Richard Ortiz, Paulo de sa Rega, Joan Otahal.

Publications (* indicates student authors)

Published, peer-reviewed


Published, other


Abstracts:


Externally Funded Research

Awards Current in 1999:

IGERT – Integrated Graduate Research Training. Co-I; C. Dahm, M. Molles, C. Crawford, T. Turner (UNM Biology) and Z. Sharp, D. Gutzler, M. Campana, L. McFadden (E&PS), National Science Foundation, IGERT, 8/1/99-7/31/04: $2,500,000 (including University of Alabama, Partner with 9 additional Co-PI's).
Awards Continued from Previous Years:

Biogeochemical Cycling of Redox-sensitive Metals During Surface-subsurface Water Exchange in a Shallow Alluvial Aquifer. H.M. Valett, Dept. of Biology, UNM Co-I, National Science Foundation, Environmental Geochemistry/Biogeochemistry Division, 7/15/96-6/15/99: $290,000. (Undergraduate Research Supplement, 1997-98; $3,000).

Water Quality of the Red River, NM. Co-I; R. Anderson PI; B. Allen and M. Campana Co-I’s, State Office of the Natural Resource Trustee, 3/1/97-7/31/98: $134,000.


Advanced Study and New Scholastic Honors

Regents Lecturer, University of New Mexico, 1997-1999.

Conference, Symposium and Invited Lectures

Meetings Attended/Talks Presented:

American Geophysical Union Fall Meeting, December 13-19, 1999.

Maya Elrick

Teaching

Courses taught:

Spring: E&PS 537 Basin Analysis (cancelled due to low enrollment); Major redesigning of lectures and labs for E&PS 304/304L.

Fall: E&PS 304 Sedimentology-Stratigraphy (19 enrolled); E&PS 490 Geologic Presentations (8 attended); E&PS 401/501 Seminar (14 attended).

Graduate Students:

Advisement: Anna Snider MS (defended 9/99); Carol Dehler Ph.D. Supported by NSF.
Thesis/exam committees: Andy Heckert, Ph.D.

Publications (* indicates student authors)

In Review

The Chuar Group of the Grand Canyon: Record of break up of Rodinia, associated change in the global carbon cycle and ecosystem expansion by 740 Ma. K.E. Karlstrom, S.A. Bowring, C.M.


Abstracts:


Externally Funded Research

Awards Current in 1999:

An integrated study of late Proterozoic (1.2-0.7 Ga) extensional tectonism, basin evolution and biological evolution in the Grand Canyon Supergroup and Apache Group during incipient breakup of Rodinia. K.E. Karlstrom, M. Elrick and J.W. Geissman, National Science Foundation, June, 1997-June, 2000; $140,006.


Proposals Submitted:

Integrated stratigraphic and chemostratigraphic analysis of Lower Cretaceous platform-to-basin carbonates, northeastern Mexico. M. Elrick, Y. Asmerom and I.P. Montanez, National Science Foundation, June ’99-02; $200,390 (not funded).

Sequence Stratigraphic and Chemostratigraphic Analysis of Lower Cretaceous Platform-to-Basin carbonates, northeastern Mexico. M. Elrick, Y. Asmerom and Z. Sharp, Petroleum Research Fund, June ’00-June ’03; $90,000 (pending).

Conference, Symposium and Invited Lectures

Meetings attended:


Invited talk University of Nevada, Las Vegas, Spring, 1999.
Field work Grand Canyon, 9 days, October, 1999.
Peter J. Fawcett

Teaching

Courses taught:

Spring: E&PS 103 - Earth's Environment and Global Change (35 enrolled); E&PS 439 Paleoclimatology (21 enrolled).

Fall: E&PS 547 - Problems in Quaternary Paleoclimatology (7 enrolled); E&PS 552 Problems (1 enrolled).

Guest Lecture: 2 lectures in E&PS 351 (Fall).

Graduate Students Supervised:

Dale Henderson (M.S., supported with NSF and NUCOR funding); Jake Armour (M.S., supported with NSF funding); Peter Castiglia (M.S., supported with NSF funding); Anne Tillery (M.S.).

Graduate Thesis Committees:

M.S.: Tom Loveland, David Mitchell, Anna Snider, Paul Wisniewski, Nicole Bailey, Kate Ziegler.
Ph.D.: Missy Eppes and Heckert, Joel Pederson, Richard Woodford.

Publications (* indicates student authors)

Articles in Refereed Journals:


Articles in Edited Volumes:


Abstracts:


Externally Funded Research

Awards Current in 1999:

Impact Induced Climate Change. P.J. Fawcett, Sandia – University Research Program (SURP), $25,000; 10/1/98 to 9/30/99.

Modeling the effects of land surface forcing on summer rainfall in southwest North America. P.J. Fawcett and D. Gutzler, Los Alamos National Laboratory NUCOR program, $40,593; 8/15/98 to 8/15/99 (renewable for two additional years).

Nested GCM/mesoscale model studies of large rapid Holocene and late glacial climate changes: synthesis with the Greenland ice core records. P.J. Fawcett, NSF (3-48771), $84,514; 6/1/97 to 5/31/99.


Pending Research Proposals:


Unsuccessful Research Proposals:

Impact Induced Climate Change (continuation). P.J. Fawcett, $34,429; Sandia National Laboratory SURP Program.

Earth Systems Computational Facility (INESCOF) Infrastructural Upgrade and Expansion of the SUN UNIX. Network at the Department of E&PS, University of New Mexico, P.J. Fawcett, D. Gutzler and F.J. Pazzaglia (no longer at UNM), $55,394; National Science Foundation, GEO/EAR Instrumentation and Facilities.

Unsupported Research Projects:

Climate-vegetation-landscape evolution in the late Pleistocene and Holocene, Black Mesa, Arizona region.

Conference, Symposium and Invited Lectures

American Geophysical Union: Co-author on a student poster at the Fall 1999 AGU Meeting, San Francisco, CA.

Geological Society of America: Co-author on a student paper given at the 1999 Annual GSA Meeting in Denver, CO.

Invited Presentations at other meetings and departments:

November 1999, University of New Mexico - LANL Collaboration Meeting, Albuquerque NM. Title: “Modeling the effects of land surface forcing on summer rainfall in southwest North America”.

September 1999, LANL - Organization of American States - UNM, Natural Disasters Mitigation Workshop, Santa Fe, NM. Title: “Modeling the effects of land surface forcing on summer rainfall in southwest North America”.

35
June 1999, National Center for Atmospheric Research, Climate System Model Workshop, Breckenridge CO. Title: "NCAR CCM3 and the Southwest Monsoon"

February 1999, NSF Science and Technology Center Site Visit, Penn State University. Title: "Abrupt climate change events: The Younger Dryas termination in Greenland". 

January 1999, University of New Mexico - LANL Collaboration Meeting, Socorro NM. Title: "Modeling the effects of land surface forcing on summer rainfall in southwest North America".

Sabbatical and Travel

Professional travel:

- January 30 - February 2, Penn State University, NSF S&T Center Site Visit.
- May 27 - Los Alamos NM, Research Meeting.
- June 1-4 - Black Mesa, AZ, Field Research.
- June 21-24 - Breckenridge, CO, NCAR CSM Meeting.
- September 9-11 - Durango, CO, FOP Field Trip.
- September 23-25 - New Mexico, NMGS Field Trip.
- October 1-3 - Black Mesa, AZ, Field Research.
- October 25-28 - Denver CO, Annual GSA Meeting.
- December 12-15 - San Francisco, CA, Fall AGU Meeting.

John W. Geissman

Teaching

Courses taught:

Spring: E&PS 101 - Physical Geology (66 enrolled).


Fall: E&PS 427/527 - Geophysics (Exploration) (14 enrolled).

Graduate students supervised: Tim Wawrzyniec, Ph.D., co-advised, Marlo Mikolas, M.S., Gordon Keating, Ph.D.

Exam committees: Brian Bierman, M.S.

Graduate Students financially supported: Tim Wawrzyniec, Gordon Keating and Marlo Mikolas.

Course Development:

Continued to organize, with Roberto Molina-Garza, a non-credit weekly "seminar" meeting for the users of the paleomagnetism laboratory, focusing on laboratory improvements, current research by users of the laboratory and controversial research topics in paleomagnetism. Continued continue to modify/improve undergraduate field geology course (E&PS 319L).

"Guest" lecturer in E&PS 101 sections and E&PS 103.
Undergraduate Research Advising:

Anders Lundahl, Emily Clary and Josh Johnson.

Graduate Theses Completed:

Timothy F. Wawrzyniec, "Dextral Transcurrent Deformation of the Eastern Margin of the Colorado Plateau (USA) and the Mechanics of Footwall Uplift Along the Simplon Normal Fault (Switzerland/Italy)", (co-advised with Jane Selverstone).

Reader: Mike Timmons, M.S.

Publications (* indicates student authors)

Articles in Refereed Journals:


R.S. Molina-Garza and J.W. Geissman. Tectonics, Paleomagnetic data from the Caborca Terrane, Mexico: Implications for Cordilleran tectonics and the Mojave-Sonora megashear hypothesis."


Book Chapters (Sections):


Abstracts:


Papers in press:


Externally Funded Research

Awards Current in 1999:

Thermal modeling of cooling ash-flow sheets and mafic intrusions: Implications for the role of fluids and the rate of change of the geomagnetic field during a reversal. J.W. Geissman, G. Keating and G.A. Valentine (LANL), IGPP Program, Los Alamos National Laboratory, Second year of a three-year program, $36,830.

Collaborative Research: Assessing the style, evolution of large-magnitude intracontinental deformation and the role of extrusion tectonics, eastern Himalayan. Syntaxis, Yunnan, China, J.W. Geissman and Clark Burchfiel (MIT), National Science Foundation, Tectonics, $181,103 (UNM component); 1 July, 1997 to 30 June, 2000.

Collaborative Research: An integrated study of Late Proterozoic (ca. 1.2 -0.7 Ga) extensional tectonism, basin evolution and biological evolution in the Grand Canyon. Supergroup and Apache Group during incipient breakup of Rodinia, K.E. Karlstrom, J.W. Geissman, M. Elrick and Y. Asmerom, National Science Foundation, Tectonics, $140,000; July 1, 1997 to June 30, 1999.
Research Projects in Progress

Unsuccessful proposals for grants:

Non-sponsored Research:

"Generic" paleomagnetic and rock magnetic investigations of: Cenozoic volcanic rocks (Arizona, Nevada, California, New Mexico).
Lower Paleozoic plutons (New Mexico, Colorado).
Mesozoic sedimentary rocks (New Mexico, Colorado, West Texas, Nevada).
Paleozoic sedimentary rocks (Nevada, New Mexico, Colorado, Utah).
Meteorite ejecta blankets (West Germany).
Cenozoic intrusions (Utah, Nevada, New Mexico)
Mesozoic intrusions (Nevada, Colorado, California)

Other creative work:


Conference, Symposium and Invited Lectures

Professional talks:

"Creationism and geoscience in the classroom: they do not mix", American Geological Institute
Sponsored forum on creationism and our approach to it, Geological Society of America Annual Meeting, Denver, Colorado.

"Paleomagnetic data from Upper Jurassic to lower Tertiary redbeds, western Yunnan, PRC: Testing spatial variability in large-magnitude intracontinental deformation." Geological Society of America annual meeting, Denver, Colorado.

"Teaching geoscience: Challenges and Opportunities", Fall American Geophysical Union meeting, San Francisco.

Organized Journal Science Editors forum at the Geological Society of America Annual Meeting (Denver). The forum focused on the manuscript review process and what can be done to improve the timing and overall quality of manuscript reviews. Organized meeting of the Associate Editors of the Bulletin of the Geological Society of America at the Geological Society of America Annual Meeting (Denver) to discuss Bulletin activities, etc.

Sabbatical and Travel

Summer teaching:

Travel:

- January 12-February 10, Yunnan, People's Republic of China, field sampling.
- February 25-27, Boulder, Colorado, GSA Hq. For Publication Committee meeting.
- April 29-May 2, field work, southern Colorado.
- May 10-May 13, field work, west-central Nevada.
- May 16-June 5, New Mexico, southern Colorado, UNM Introductory Field Geology course.
- June 22-July 10, Wyoming, University of Michigan, Field Camp.
- August 9-August 15, Field work, southern Colorado.
- September 7-September 13, Field work, Grand Canyon.
- September 22-September 25, New Mexico Geological Society.
- December 11-17, San Francisco, AGU Meeting.

David Gutzler

Teaching

Courses taught:

Spring: E&PS/Geography 251-Meteorology (35 enrolled); E&PS 400/522 - El Niño (12 enrolled); E&PS 599 - Thesis (1 enrolled).


Fall: E&PS/Geography 351 - Climatology (24 enrolled); E&PS 599 - Thesis (1 enrolled); Guest lectures: E&PS 101, October 25.

Supervision of undergraduate students:

M. Duran, analyses of summer rainfall variability, Spring.

Supervision of graduate students:

D. Etheredge, M.S. student, R. Woodford, Ph.D. student, P. Goda, Ph.D. student.

Other thesis committees:

J. Armour (M.S.), D. Henderson (M.S.), C. Johnson (M.A. Geography).

Other exam committees:

T. Gere (M.S.), J. Armour (M.S.).

Publications (* indicates student authors)

Proceedings volumes:


Articles in refereed journals:


Abstracts:

Regional patterns of interannual summer rainfall variability across the American Southwest. D.S. Gutzler, 14th Hydrology Conference, American Meteorological Society, Dallas TX, January 13.

Land surface forcing of Southwest summer precipitation anomalies. D.S. Gutzler, NOAA Climate Diagnostics and Prediction Workshop, Tucson AZ, November 1.


(My M.S. student, Devin Etheredge, also made a single-authored presentation based on his thesis work at the Fall AGU meeting).

Externally Funded Research

Awards Current in 1999:

Observations and modeling of large-scale controls on summer rainfall in Southwest North America (P. Fawcett, Co-PI), Climate Dynamics Program, National Science Foundation, Two years (February, 1998 to January, 2000), $64K/yr.


Freshwater graduate studies linking fundamental science with application through integration of ecology, hydrology and geochemistry in regions with contrasting climates. (I am one of 6 E&PS faculty participants), IGERT program, National Science Foundation, Five years (November, 1999 to October, 2004), $2.7M.
Unsuccessful proposal:

Integrated Earth Systems Computational Facility Infrastructural Upgrade and Expansion of the Sun UNIX Network at the Department of Earth and Planetary Sciences, UNM. (F. Pazzaglia and P. Fawcett, co-Pis), National Science Foundation.

Research Projects in Progress

Submitted proposal:

Climatic Factors Modulating Warm Season Precipitation in Southwest North America. NOAA Office of Global Programs, Proposal submitted in December, requesting 3 years of support.

Manuscripts in press:


Covariability of spring snow pack and summer rainfall across the American Southwest. D.S. Gutzler, Journal of Climate, accepted for publication.


Manuscript and Grant Proposal Reviews:

Journal of Climate: 5 manuscripts.
Bulletin of the American Meteorological Society: 1 manuscript.
Water Resources Research: 1 manuscript.
Geophysical Research Letters: 2 manuscripts.
International Journal of Climatology: 1 manuscript.
New Mexico Water Resources Research Institute: 1 proposal.
National Science Foundation: 4 proposals.
NOAA Office of Global Programs: 3 proposals

Conference, Symposium and Invited Lectures

Invited presentations:

Press Briefing for Arizona newspapers on long-range summer rainfall prediction, Tucson AZ, November 1.
Numerous interviews for New Mexico newspapers and television stations regarding summer rainfall, El Niño/La Niña and other weather-related and climate-related topics.
Sabbatical and Travel

Travel:

- AMS Annual Meeting, Dallas TX, 11-14 January.
- NOAA Drought Monitoring Workshop, Boulder CO, 5-6 April.
- LANL Natural Hazards Mitigation Workshop, Santa Fe, 21 September.
- Fieldwork in northeastern AZ, 1-3 October.
- NOAA Climate Diagnostics and Prediction Workshop, Tucson AZ, 31 October-4 November.
- AGU Fall Meeting, San Francisco CA, 14-17 December.

Stephen P. Huestis

Teaching

Courses taught:

Spring: E&PS 115 - Geological Disasters (44 enrolled); E&PS 225 - Oceanography (23 enrolled).

Fall: E&PS 101 - Introduction to Geology (79 enrolled); E&PS 115 - Geological Disasters (24 enrolled); E&PS 433/533 - Statistics and Data Analysis in Earth Sciences (7 enrolled).

Exam committees: Michelle Kearny, Tedros Tesfay and Martha Eppes.

MS thesis committee: Dale Henderson.

Ph.D. Dissertation committee: Timothy Wawrzyniec.

Other Projects in Progress


Karl E. Karlstrom

Teaching

Courses taught:

Spring: E&PS 307, Structural Geology (24 enrolled); E&PS 307L, Structural Geology Lab (24 enrolled); E&PS 490, Presentations (12 enrolled); E&PS 690, Dissertation (1 enrolled); E&PS 599, Masters Thesis (3 enrolled).


Fall: E&PS 526, Advanced Structural Geology (8 enrolled); E&PS 101, Physical Geology (72 enrolled); E&PS 551, Problems (3 enrolled); E&PS 699, Dissertation (2 enrolled); E&PS 599, Masters Thesis (2 enrolled W.I. Taylor, J.M. Bartley, M.W. Martin, J.W. Geissman, J.D. Walker, P.A. Armstrong and J.E. Fryxell).
Innovative activities:


Graduate students completed:

Cynthia Brown, Synchronous plutonism, metamorphism and deformation of the 1.65 Ga Monzanita pluton, Monzanita Mountains, New Mexico, 82 p.

Mary Simmons, Quartz-Kyanite pods in Proterozoic rocks in northern New Mexico: shear zone formation along an older hydrothermal alteration horizon.

Mike Timmons, Proterozoic multistage (~1.1 and ~0.8 Ga) extension in the Grand Canyon Supergroup and establishment of northwest and north-south tectonic grains in the Southern United States.


Thesis committee:

Chaired: Cynthia Brown, Mary Simmons, Colin Shaw, Annie McCoy.

Committee member:

Carol Dehler, Aaron Cavosie, Toti Larson, Kurt Steffan, Dan Koning, Steve Grimes (University of Texas).

Exam committee:

Cynthia Brown, Mary Simmons, Michael Timmons, Colin Shaw, Annie McCoy, Aaron Cavosie, Dan Koning, Justin Hagerty.

Undergraduate research:

Doug Raszewski; (Honors thesis completed 1999); Diana Stickland (Honors thesis in progress); John Walen, James Ashby and Eb Crawford (Statemap funding).

Publications (* indicates student authors)

Refereed Journals/Papers (* = graduate student co-author)


Geologic Maps (** = undergraduate student co-author)


Notes, Extended Abstracts and other Publications (* indicates student authors)


Technical Reports


Abstracts (* = graduate student co-author)


Heizler, M.T., Karlstrom, K.E. and Timmons, M.J., 1999, Where have all the old micas gone?: New Mexico Geological Society Spring Meeting.

Externally Funded Research

Awards Current in 1999:

An integrated study of Late Proterozoic (1.2-0.7 Ga) extensional tectonism, basin evolution and biological evolution in Grand Canyon, K. Karlstrom, M. Elrick, J. Geissman, Y. Asmerom, National Science Foundation, 7/1/97 to 7/31/00, $140,006.

Lithospheric structure and evolution of the Rocky Mountain transect of western U.S., K.E. Karlstrom and F.J. Pazzaglia, National Science Foundation (3-48951), $300,000, 7/1/97 to 12/31/99.

Supplement to Grand Canyon grant, K.E. Karlstrom, National Science Foundation, $10,000 for new motors.

Supplement to Rocky Mountain grant, K.E. Karlstrom, National Science Foundation, $50,000 for additional seismic data acquisition.

Great Unconformity of SW U.S.A.-Ar/Ar and structural studies of a billion years of regional exhumation, K.E. Karlstrom, National Science Foundation, $76,866, 7/15/99 to 6/30/02.

Research Projects in Progress

Papers in Press (* = graduate student co-author, ** = undergraduate student co-author)


In Review:

Karlstrom, K.E., Harlan, S.S., Williams, M.L., McCelland, J., Geissman, J.W. and Ahall, K-I., in review, Long-lived (1.8-0.8 Ga) Cordilleran-type orogen in southern Laurentia, its extensions to Australia and Baltic and implications for refining Rodinia: Precambrian Research, submitted.


Conference, Symposium and Invited Lectures

Invited papers and meetings:


Co-convener and invited speaker for GSA National meeting theme session: Cenozoic tectonics of the southern Rocky Mountains in Colorado and New Mexico: Connections with global processes: Denver, Colorado, 1999.


Attended and organized two workshops for U.S. Array, a component of the NSF-Earthscope initiative
March 1-18, Albuquerque, New Mexico
September 26-27, Houston, Texas

Sabbatical and Travel

Travel:

• January 8 – Field work, Placitas Quad.
• January 10-11 – Field work Sacramento Mountains (with Mike Timmons, Anne McCoy).
• January 15 – Field work with Doug Raszewski.
• January 30 – Field trip, E&PS 307L.
• February 6 – Field trip, E&PS 307L.
• February 20 – Field trip E&PS 307L.
• March 6 – Field trip E&PS 307L.
• March 15-18 – US Array Workshop, Albuquerque, New Mexico.
• March 18-21 – Gold Butte Fieldwork with MIT.
• April 5-6 – Guest Lecture, University of Wyoming.
Courses taught:

Spring: E&PS 105L - Physical Geology Labs (faculty coordinator, 136 enrolled). E&PS 204 - Gem Minerals and Gems (16 enrolled; ICES global items: 5.7; 5.9; 5.7). E&PS 101 - Physical Geology (49 enrolled; ICES global items: 5.3; 5.4; 5.3).

Fall: E&PS 105L - Physical Geology Labs (faculty coordinator, 172 enrolled). E&PS 301 - Mineralogy (42 enrolled; ICES global items: 5.5; 5.8; 5.4). E&PS 302L - Mineralogy laboratory (three lab sessions per week of 4 hours each; 51 enrolled). E&PS 402 - Environmental Mineralogy (7 enrolled; ICES global items: 5.6; 5.9; 5.4).

Guest lecturer in Natural Sciences 261 on April 13, 1999. Title of lecture “The asbestos saga”.

Graduate students:

Ph.D. Committee member: Christopher Herd.

M. Sc., Examination Committee member: Marcia L. Jensen, Aaron Cavosie.

M. Sc., Committee member: Scott du Frane.

Also, over the last 10 years, as faculty coordinator of 105L (Physical Geology) Laboratories, I have been responsible for the instruction of teaching methods (approach, subject coverage, presentation, etc.) to between 6 to 9 graduate students in E&PS each semester; for many of these teaching in 105L is their first instructor experience.
Publications (* indicates student authors)


C. Klein and A.E. Ladeira, in press, Geochemistry and Petrology of some Proterozoic banded iron-formations of the Quadrilátero Ferrifero, Minas Gerais, Brazil, Economic Geology.

C. Klein, A.E. Ladeira and J.H. Grossi Sad, submitted for publication, Geologic Setting, Petrology and Geochemistry of some high-grade metamorphic Archean banded iron-formations of the Guanhães district, Minas Gerais, Brazil, Mineralium Deposita.

C. Klein and A.E. Ladeira, submitted for publication, Geochemistry and Geology of Archean banded iron-formations (BIF) and some metacherts that host the Morro Velho and Raposos Gold deposits, Minas Gerais, Quadrilátero Ferrifero, Brazil, Economic Geology.

C. Klein and A.E. Ladeira, Petrology and geochemistry of banded iron-formations of the Archean Carajás Formation, in the state of Pará, northern Brazil (manuscript 95% completed).

C. Klein and A.E. Ladeira, Geochemistry and petrology of some Neoproterozoic banded iron-formations and associated manganese-formations from the Urucum district, Matto Grosso do Sul, Brazil (manuscript 50% completed).


Externally Funded Research

Awards Current in 1999:

“Geochemistry, petrology and geologic setting of Precambrian Urucum and Carajás iron-formation, Brazil”, C. Klein, National Science Foundation Grant EAR-940467, $89,000; June 1, 1994 to May 31, 1999.

Collaborative research with Professor Clark Johnson, University of Michigan, 2-year NSF grant (1999-2001) on “Iron isotopes in the transition from a preoxygenated Earth: evidence for banded iron-formations”.

Conference, Symposium and Invited Lectures


Attended the New Mexico Mineral Symposium, NMIMT Campus, Socorro, New Mexico, November 13 and 14, 1999.
During the Annual Geological Society America Meetings October 23 to 26, I attended as prospective Vice President and subsequently Vice President of the Mineralogical Society of America the following sessions.

- October 23 – MSA Management Committee
- October 24 – MSA Council Breakfast
  - MSA 1999 Council Meeting
  - MSA Council Dinner
  - MSA 2000 Council Meeting
- October 25 – MSA Presidents' Breakfast
- October 26 – MSA Awards Luncheon
  - MSA Presidential Address
  - MSA Business Meeting
  - MSA Geological Society Joint Reception

**Barry S. Kues**

**Teaching**

Courses taught:

Spring:  E&PS-101 (88 enrolled); E&PS-493 (1 enrolled); E&PS-699 (1 enrolled).

Fall:  On sabbatical leave. E&PS-699 (1 enrolled).

**Publications** (* indicates student authors)

- **Refereed Articles:**
  


- **Articles in Edited Volumes:**
  


- **Reviews:**
  
Other Research in Progress

Manuscripts in Press:


Manuscripts in Review:


Conference, Symposium and Invited Lectures

Attended annual N.M. Geological Society Field Conference, Albuquerque, Sept. 23-25
Road-log committee for N.M.G.S. Annual Field Conference

Sabbatical and Travel


Travel:

• April 24 – Taos area, fossil collecting
• June 10 – Placitas area, fossil collecting
• July 11 – Taos area, fossil collecting
• July 16-18 – El Paso and Garfield areas, fossil collecting
• August 6-8 – Tucumcari-San Jon areas, fossil collecting
• September 14 – Carrizo Arroyo, Lucero uplift, fossil collecting
• September 15 – Zuni Mountains, fossil collecting
• September 16 – Sandia Park area, fossil collecting
• September 17-21 – Mud Springs and Robledo Mountains, stratigraphy and fossil collecting
• September 23-25 – Albuquerque area, N.M. Geological Society annual field conference
• September 26 – Abó Canyon, stratigraphy and fossil collecting
• November 26-27 – Oscura Mountains, stratigraphy and fossil collecting
• December 2 – Oscura Mountains, stratigraphy and fossil collecting
• December 17/Jan.4, 2000 – New Zealand, geological observations and photography

Leslie D. McFadden

Teaching

Courses taught:

Spring: E&PS-484/584 Soil Genesis (6 enrolled).

Summer: Environmental Impacts of Urbanization on the Albuquerque Region (College of Education and Albuquerque Teacher's Institute).

Fall: E&PS-101 Physical Geology (86 enrolled).
Guest Lecturer: Department of Architecture and Planning-Community and Regional Planning 570: Soil geomorphic and ecologic studies in NE Arizona, (2) Community and Regional Planning 470/570-Semiarid lands Development, Planning and Restoration; (3) E&PS-101: Weathering and Soils.

Graduate Students Supervised or Co-supervised:

Angela McLain (Ph.D.); Martha Eppes (Ph.D.) (Funded, 0.5 R.A., U.S.G.S.); Tim Gere, Nicole Bailey (M.S.); Ann Tillery (M.S., co-supervised with Dr. P. Fawcett).

M.S. Thesis Committees:

Dan Koning, Karl Wegmann, Paul Wisnieski, Devin Etheridge.

Ph.D. Committees:

Ariane Oberling (Dept. of Anthropology)
Joel Pederson

Publications (* indicates student authors)

Chapter in Edited Volume in Press:


Paper in press in refereed publication:

Influence of Parent Material and Grain Size On Carbonate Formation in Gravelly Soils in a Desert Piedmont, Sevilleta LTER, Palo Duro Canyon, New Mexico; Treadwell-Steitz, C*, and McFadden, L.D. (Geoderma).

Abstracts:


Hypothesized changes in dust sources from Sr isotope composition of CaCO3 in volcanic and alluvial desert soils; McLain, A*, McFadden, L., Asmerom, Y., McDonald, E. and Poths, J.

Externally Funded Research

Awards Current in 1999:

"IGERT: Freshwater graduate studies link fundamental science with applications through integration of ecology, hydrology and geochemistry in regions with contrasting climates"; Co-Principal Investigator (at UNM), Cliff Dahm, McFadden L.D. (one of ten collaborators at UNM), National Science Foundation, 1/99 - 1/2004, $2,699,289.
Contracts continuing in 1999:


Research Projects in Progress

Proposal in Review:

"Collaborative Proposal: Soil Development Control on Geomorphic Processes and Long-term Landscape Development; A Case Study along the Northern Flank of the San Bernardino Mountains, Transverse Ranges, California." McFadden, L.D. (P.I.), National Science Foundation, 5/1/00-5/1/02, $79,389.

Manuscripts Submitted or in Review:

The influence of dust and lithology on the origin and evolution of desert pavements on alluvial fans; McDonald, E.V., McFadden, L.D. and Wells, S.G., for Geological Society of America Bulletin (revise and re-submit).

Conference, Symposium and Invited Lectures

Talks Given:

Desert pavements, vesicular horizons and anomalous, surface accumulation of pedogenic calcium carbonate; McFadden, L.D.; Geological Society of America South-Central Section Meeting, Calcium carbonate-enriched soils of the Southwest Symposium.

Professional Meetings Attended:

South-Central Sectional Meeting, Geological Society of America, Lubbock TX. March 13-16.

Other

Co-chair, 1999 New Mexico Geological Society Field Conference
Panel Member, Evolution and Creationism in the Classroom, “Hot Topics” noontime colloquium, GSA Annual Meeting, Denver, CO.

Sabbatical and Travel

Travel:

• January 7-10: Participant, Yale-New Haven Teaching Institute Meeting, representing the Albuquerque Teacher's Institute, Yale University, New Haven, CT.
• March 13-16: Present paper at South-Central Sectional Meeting of the Geological Society of America Meetings, Texas Tech University, Lubbock, TX.
• March 17, 18: Fieldwork and overview of Ph.D., graduate student research, western Mojave Desert, Lucerne Valley, CA.
• July 12-16: Participant, Yale-New Haven Teaching Institute Meeting, representing the Albuquerque Teacher’s Institute, Yale University, New Haven, CT.
• September 23,24: Participant, 100th Field Conference, New Mexico Geological Society, Albuquerque region.
• October 1 –3: Fieldwork, northeastern Arizona.
• October 24 – 29: Attend Geological Society of America Annual Meetings and Post-meeting Field trip, Denver, CO.
• November 12,13: Review fieldwork, research of Ph.D., graduate student, western Mojave Desert, CA.

James J. Papike

Teaching

Courses taught:


Fall: E&PS 465/565 – “Mars Evolution” (23 enrolled).

M.S. Advisor: Justin Hagerty.

Ph.D. Advisor: Christopher D.K. Herd and James Karner.

Student Graduate Committees: Kate Jones and Gordon Keating.

Publications (* indicates student authors)

Articles in refereed journals: (Double Asterisk IOM Staff, Single Asterisk Student).


Abstracts in conference and symposia proceedings:


New Views of the Moon II, Flagstaff, Arizona.


G.S.A. Annual Meeting, Denver, Colorado


**Externally Funded Research**

**Awards Current in 1999:**


Support of UNM/SNL Ion Microprobe Facility. J.J. Papike and C. Shearer, National Science Foundation, $80,000; August 1, 1999 to July 31, 2000.


**Awards continuing from previous years:**


Support of UNM/SNL Ion Microprobe Facility. J.J. Papike and C. Shearer, National Science Foundation, $80,000; August 1, 1998 to August 1, 1999.


**Advanced Study and Scholastic Honors**

Outstanding Achievement Award, University of Minnesota, highest award for alumni.
Conference, Symposium and Invited Lectures

Meetings attended:

- February 15-18: Mars Sample Return Workshop, Jet Propulsion Laboratories (JPL), Pasadena, CA.
- February 21-24: Lunar Data Analysis Review Panel (LDARP), Lunar and Planetary Institute (LPI), Houston, TX.
- March 1-3: Mars Architecture Wrap-up Workshop (JPL), Pasadena, CA.
- March 13-14: Cosmochemistry Program “Management Operations Working Group” (MOWG) meeting, LPI, Houston, TX.
- March 15-19: 30th Lunar and Planetary Science Conference, Johnson Space Center (JSC), Houston, TX.
- March 19-21: Presided as Chair for the Curation and Analysis Planning Team for Extraterrestrial Materials (CAPTEM) Meeting, LPI, Houston, TX.
- May 11-14: Aladdin Discovery Mission: Program Review and Site Visit at the Advanced Physics Laboratory (APL), Johns Hopkins Applied Physics Laboratory, Baltimore, MD.
- May 20-22: Attended 125th Anniversary of the Department of Geology and Geophysics, University of Minnesota and received the Outstanding Achievement Award from the University, which is the highest honor bestowed to alumni.
- September 21-24: Lunar Initiative Workshop, Flagstaff, AZ.
- October 1-4: Mars 2001 Workshop, LPI, Houston, TX.
- October 5-8: NASA, Mars Exploration Program Advisory Group (MEPAG) Meeting, JPL, Pasadena, CA.
- October 14-16: Meeting with FBI to prepare to testify as an Expert Witness for the Prosecution on a bogus Moon rock sale attempt.
- November 1-4: NASA, Office of Space Science Advanced Planning Meeting, Galveston, TX.
- November 10-12: Presided as Chair of the NASA/CAPTEM Meeting, LPI, Houston, TX.

Jane Selverstone

Teaching

Courses taught:

Spring: E&PS 303 - Igneous and Metamorphic Petrology (25 enrolled); E&PS 303L - Petrology lab with optical mineralogy; 25 enrolled.

Fall: E&PS 101 - Physical Geology (95 enrolled); E&PS 526 - Advanced Structural Geology - gave two weeks of lectures; E&PS 5xx – Analytical Methods – gave 3-hour class on fluid inclusions.

Undergraduates supervised: Doug Raszewski, Senior thesis completed Dec. 1999 (coadvisor with K. Karlstrom), Diana Strickland, Senior thesis in progress (coadvisor with K. Karlstrom), Elizabeth Lucky, independent research.

Graduate students supervised (* supported by my NSF funding): *Timothy Wawrzyniec, PhD completed Dec. 1999 (coadvisor with J. Geissman), *Aaron Cavosie, MS in progress, Kurt Steffen, MS in progress (Kelly-Silver fellow).

Thesis and dissertation committees (in addition to students listed above): Colin Shaw, Ph.D., Christopher Herd, Ph.D., Toti Larson, Ph.D., Annie McCoy, M.S.
Exam committees: Patrick Florence, M.S.

Publications (* indicates student authors)

Refereed articles:


Shaw, C.*, Snee, L., Selverstone, J. and Reed, J.C., 1999. ⁴⁰Ar/⁴⁰Ar thermochronology of Mesoproterozoic metamorphism in the Colorado Front Range. J. Geol. 107, 49-68.


Abstracts:


Externally Funded Research

Awards Current in 1999:

Geomorphic and geodynamic response to extension in convergent orogens. F.J. Pazzaglia, M. Roy, J. Selverstone, National Science Foundation, $84,901; 6/1/99-6/30/01.
Continuing awards:


Proterozoic assembly of the northern Colorado Front Range. J. Selverstone, National Science Foundation, $128,000; 6/1/98-5/31/00.

Pending proposals:

Interactions between deformation and metamorphism: Controls on shear zone rheology and metamorphic memory. J. Selverstone and A. Brearley. National Science Foundation, $143,608; 6/1/00-5/31/03.

Research Projects in Progress

Manuscripts in review:


Selverstone, J., Hodgins, M.*, Aleinikoff, J.N. and Fanning, C.M., in review. Middle Proterozoic reactivation of an Early Proterozoic transcurrent boundary in the northern Colorado Front Range: Implications for ca. 1.7 and 1.4 Ga tectonism. Rocky Mountain Geology.

Unsupported research projects:

Interrelationships between deformation mechanisms, metamorphic reactions and strain localization in a deep-seated Alpine shear zone (NSF proposal pending).

Fracture generation and fluid circulation during emplacement of the Sandia Pluton, New Mexico.

Advanced Study and New Scholastic Honors

UNM Regents' Lecturer, 1998-2000

Conference, Symposium and Invited Lectures

Vice-Chair to Chair, GSA Structural Geology and Tectonics Division
Member, AGU Publications (* indicates student authors) committee evaluating the journal Tectonics
Chair, AGU search committee for editor of Tectonics
Member, GSA Joint Technical Program committee; scheduled 300 abstracts for national meeting
Attended annual meeting, Geological Society of America; presented talk and poster (see abstracts)
Attended workshop on future research directions in tectonics

Sabbatical and Travel

Travel:

- Northern Colorado, 6/9-6/17, to conduct fieldwork.
- Switzerland, Austria, Italy, 6/28-7/13, to conduct fieldwork.
- Denver, Colorado, 10/23-10/28, to attend Geological Society of America annual meeting.
Zachary Sharp

Teaching

Courses taught:

Spring: E&PS 405 - Thermodynamics, 4 units (9 enrolled), Biology 402 - Stable Isotope Seminar, 1 unit (15 enrolled).

Fall: E&PS 103 - Earth’s Environment and Global Change, 3 units (35 enrolled); E&PS 106 - Evolution and Age of the Earth, 2 units (9 enrolled, 1 audit).

New courses: Biology 402 “Stable Isotope Seminar”
Evolution and Age of the Earth (Fall ’99)
Methods in the Earth Sciences (Fall, ’99)

Graduate Students supervised (Major advisor): Marcia Jensen, (MS), 1998- present. Kate Zeigler (M.S.), Scott ‘Andy’ DuFrane (MS), Toti Larson (Ph.D.), 1999- present. Raffaele Lucchini, Ph.D. (50% at University of Lausanne, funded by Lausanne, Swiss NSF to Sharp), 1997- present.


Exam Committee member: Carol Dehler, Ph.D., Mike Timmons, Ph.D., Deb Bergfeld, Ph.D., Michelle Kearney, M.S., Aaron Cavosie, M.S., Susan Block, M.S., Susan Lucas, M.S., Kurt Steffen, M.S.

Undergraduate Student Projects: Katherine F. Smith - Physiological factors controlling the δ¹⁸O values of body water for coexisting endotherms and ectotherms (Sharp, J. Brown (Biology) co-directors), funded by NSF to Sharp.

T. Meehan – Stable isotope geochemistry of raptor feathers (Sharp, director).
Student research projects using the stable isotope laboratory: A. Cavosie δ¹⁸O values of quartz veins as source fluids (Selverstone, director).

Laboratory Visitors, 1999: Dr. Mengist Tekley, University of Asmara, Eritrea; June 15 - Sept. 15.
Dr. Fidel Grandia, University of Barcelona, Spain; March 1-June 15.
Dr. Rich Davisson, University of Iowa; March-April.
Dr. Claudia Lewis, Los Alamos, A number of weeks throughout the year.
Dr. Andy Baker, University of New Castle, England April 1-27.

Short term visitors: Dr. Anna Voica Bojar (University of Graz, Austria); Dr. Hans-Peter Bojar (University of Graz, Austria); Mr. Louis Bucci (University of Western Australia); Dr. Luigi Dallai (University of Rome); Prof. Paul Koch (U.C. Santa Cruz); Prof. Greg Arehart (U. Nevada, Reno); Dr. Simon Poulson (U. Nevada, Reno); Prof. Gunter Oberdörster, D.V.M. (University of Rochester); Dr. Jeffrey Kelly (U.S. Forest Service).

Publications (* indicates student authors)


Research Project in Progress

In press:

Sharp, Z.D. Application of stable isotope geochemistry to fluid inclusion studies. In EMU Notes in Mineralogy (Andersen, Burke, Diamond and Frezzotti, eds.).


Submitted:


Other research projects:

A key to better understanding of climate behavior in the Southwest. Z.D. Sharp and D.S. Gutzler, RAC, $6,799; 6/98-12/98.


Physiological factors controlling the $\delta^{18}O$ values of body water for coexisting endotherms and ectotherms. National Science Foundation, $8,029 Account # 3-13811.

Oxygen isotope analysis of mollusks from the Petrified National Forest. Petrified Forest National Park Grant, $2,251.

Other Projects:

Member of EPA Particulate Matter Center (research into the effects of fine particulate matter on human health).

Member of IGERT team (UNM-U. Alabama).


Characterization of Biomarkers (with J. Papike, Institute for the Study of Biomarkers in Astromaterials).

Paleozoic-Mesozoic chemostratigraphic controls using conodonts and fish (with V. Atudorei; funding proposal anticipated for 1999).

Isotopic signatures of reptiles and mammals (with J. Brown, Dept. Biology; funded by NSF).

Migration patterns of songbirds and raptors using stable isotope geochemistry (with J. Kelly, USDA Forest Service; funded by grant from USDA).


Origins of hematite iron deposits, Hammersley, Australia (with N. Oliver, James Cook Univ.; funded by Australian NSF).

Effects of deformation partitioning and sequence porphyroblast growth on oxygen isotope compositions (with D. Moecher, U. Kentucky; NSF funding to Moecher).

Carbon isotope stratigraphy across the Cambrian-Ordovician boundary (with P. Myrow, Colorado College).

Oxygen isotope values of the Chinle Group, Petrified Forest, AZ (with C. Whittle, funding from Petrified Forest to Sharp).

Constraints on pathways of ultrafine particles in the human body using stable isotopes (with G. Oberdörster, U. Rochester; funded by NIH).

An isotopic study of the highly metamorphosed rocks of the Koralm/Gleialm Crystalline complex, Austria (with A. Voica Bojar, U. Graz; funded by Austrian NSF).
Oxygen and hydrogen isotope compositions of wild raptors as a monitor of migration patterns (with T. Meeham, student, Dept. Biology).

Advanced Study and Scholastic Honors

Nominated for Councilor of the Society of the Mineralogical Society of America.
Awards Committee – MSA award.
Life Fellow, Mineralogical Society of America.

Conference, Symposium and Invited Lectures

Conferences: GSA, 1999 (7 abstracts).

Invited Lectures: Short course, GSA veins; Instructor; Short course, Siena, fluid inclusions; Society of Vertebrate Paleontology Annual Meeting; Dartmouth College; Montana State University; U.T. El Paso; New Mexico Tech; New Mexico State University; Arizona State University.

Sabbatical and Travel

Summer research program in Siena, Italy. Professional advisor to the Geology Dept., University of Siena and research efforts involved in writing a new stable isotope textbook (to be completed Summer, 2000).

Gary A. Smith

Teaching

Courses taught:

Spring: (Sabbatical).

Summer: Guest lecture in Summer Archeology Field Session, Anthropology 375F

Fall: Historical Geology, E&PS 102, (40 enrolled); Guest lectures (2) in Physical Geology, E&PS 101

Graduate Students (* indicates support provided):


Service on other Ph.D. dissertation or examination committees: Carol Dehler, Michael Timmons; Philip LeTourneau (Anthropology).

M.S. advisees: Claudia Borchert; Jessica Moore; Michael Gaud; Patrick Florence*; Suzanne Lowe.

Service on other M.S. thesis or examination committees: Karen Roche (1999); Michael Timmons; Karl Wegmann.

Senior Honors advisee: Kathleen McLeroy.
Publications (* indicates student authors)

**Articles in Refereed Journals:**


**Geological Maps:**


**Other Publications** (* indicates student authors):


Technical Reports:


Abstracts:


Externally Funded Research

Awards Current in 1999:

Variable hillslope processes and sediment delivery to tectonically quiescent basins: a late Miocene to Quaternary record of buried, relict and modern hillslopes and their deposits. G.A. Smith and F.J. Pazzaglia, National Science Foundation, July 1997-December 1999; $100,000.

Outcrop characterization of heterogeneity: explicit linkage of hydrological and sedimentological properties. G. A. Smith and M. E. Campana, National Science Foundation, Aug. 1997-July 2000; $120,000.
**Research Projects in Progress**

**Manuscripts in press:**


**Manuscripts Submitted or in Review:**


Sedimentology of alluvial-slope deposits in the Miocene Skull Ridge Member of the Tesuque Formation, Espanola basin, New Mexico. A.J. Kuhle* and G.A. Smith, New Mexico Geology.


**Conference, Symposium and Invited Lectures**


Presented talk, "Unraveling the relationships between faulting, sedimentation and volcanism in the central Rio Grande rift, New Mexico", Oregon State University, Department of Geosciences, June 3, 1999.


Sabbatical and Travel

Travel:

- Sabbatical, Geohydrology Group, Sandia National Laboratories, Albuquerque, NM, January-July 1999
- Co-led field trip for Cochiti Pueblo Environmental Proterozoic Office; hydrostratigraphical Cochiti Pueblo, May 14, 1999.

Activities of the Senior Research Professors

Roger Y. Anderson

Teaching

Courses taught:

Retired from Classroom teaching, 1 July, 1994.
Chair, Thesis and dissertation committees.
Thomas Loveland, M.S.

Publications (* indicates student authors)


Externally Funded Research

Awards Current in 1999:


68
Research Projects in Progress


Reports


Conference, Symposium and Invited Lectures

Invited Speaker, American Geophysical Union, Fall Meeting, Special Session (OS12C01) High Resolution Lake Sediment Chronologies and Reconstruction of Quaternary and Pliocene climate, Title: Atmospheric and Hydrologic Controls on a High Resolution Lacustrine Record of Late Pleistocene Climate Variability, Estancia Basin, New Mexico.

Geological Society of America, member
American Geophysical Union

Wolfgang E. Elston

Teaching

Courses taught:

Spring: E&PS 302 – Earth Resources and Man. (21 enrolled); E&PS 492 – Problems (1 enrolled).

Fall: E&PS 491 – Problems (1 enrolled).

Publications (* indicates student authors)

Abstracts:


Article (non-technical):


Externally Funded Research

Awards Current in 1999:

The Proterozoic Bushveld Catastrophe, South Africa, mainly self-funded. Also grant from the Barringer Foundation, $50,000, 1999. No closing date. Continuing Research, formerly funded by NASA and NSF.

Mineral Resources of Hidalgo County, New Mexico. Continuing Research, formerly funded by the New Mexico Bureau of Mines and Mineral Resources.

Activities of the Research Professors

Horton Newsom

Teaching

Classes taught:

Spring: Co-taught E&PS 365 - Exploring the Solar System.


Fall: Co-taught E&PS 465/565 - Mars Evolution.

Research advisor for the following students:

Undergraduates: Sharon Sparks, Jennifer Kelly (Spring, Summer 1999).

Masters Students: Justin Hagerty

Ph.D. students: Ivan Thorsos, Bill Robertson (College of Education).

Students supported by grants:

Undergraduate students: Sharon Sparks, Jennifer Kelly (Spring, Summer 1999).

Graduate students: Justin Hagerty and Ivan Thorsos.

Committee member for the following graduate students: Ph.D. student: Ivan Thorsos.

Publications (* indicates student authors)

Articles in refereed journals:


Other Publications

Abstracts:


Externally Funded Research

Grants and Contracts:

I was principal investigator on the following grants during the last year.

Awards Current 1999:


NASA, Mars site selection, Site Selection Studies, Parana Basin, Margaritifer Sinus region of Mars, with Jack Farmer, NASA Ames Research Center, $6,000, two years, 1998.

Johnson Space Center, PreCollege Awards for Excellence in Mathematics, Science, Engineering and Technology (PACE/MSET), $298,000, three years, 1998.

New Awards in 1999:

New Mexico Collaborative for Excellence in Teacher Preparation, “Exploring the Solar System, a Research and Activity-Based Course for Teachers”, $12,084, one year, 1998.

NASA-Planetary Geology program, Martian impact crater hydrothermal systems, Clues from the Lonar India crater. $50,721, 2 years, 1999.

Research Projects in Progress

Manuscripts in press:


Manuscripts submitted.


Unsuccessful proposals.


Frans Rietmeijer

Teaching


Publications (* indicates student authors)

Articles in refereed journals:


Metastable eutectic gas to solid condensation in the FeO - Fe₂O₃ - SiO₂ system. F.J.M. Rietmeijer, J.A. Nuth III and J.M. Karner*, Physical Chemistry Chemical Physics, 1, 1511-1516.


Book Chapters:


Articles in conference proceedings:


Externally Funded Research

Sponsored Research/Grants and Contracts

Awards Current in 1999:

Mineralogy of fine-grained primitive extraterrestrial materials. F.J.M. Rietmeijer (Principal Investigator). National Aeronautics and Space Administration, Cosmochemistry Program, $110,000; April 1, 1999 to March 31, 2000.
Awards Continuing in 1999

Mineralogy of fine-grained primitive extraterrestrial materials. F.J.M. Rietmeijer (Principal Investigator), National Aeronautics and Space Administration, Planetary Materials and Geochemistry Program, $110,000; April 1, 1998 to March 31, 1999.

Research Projects in Progress

Manuscripts in press


What we can expect to learn from robotic exploration of a comet nucleus surface. F.J.M. Rietmeijer, Proc. SPACE 2000, 7th International Conference.


Manuscripts submitted:


Unsupported Research:

Analytical and Transmission Electron microscope analyses of airborne dust in Silesia, in cooperation with Prof. J. Janeczek and Dr. M. Jablonska, Faculty of Earth Sciences, The Silesian University, Sosnowiec, Poland.

Petrology of gas-to-solid condensed carbon phases with Dr. A. Rotundi, Osservatorio Astronomico, Naval University of Naples, Italy.
Mousumi Roy

Teaching

Course taught:

Spring, 1999: E&PS 548-Strength and Dynamics of the Lithosphere. Reading and discussion seminar on current topics in tectonics for graduate students and advanced undergraduates.

Students Supervised:

N. Natek, Senior Thesis Advisor, University of New Mexico, August 1999 to present.

Publications (* indicates student authors)


Externally Funded Research

Awards Current in 1999:

Two and three dimensional modeling of gravity, topography and seismic data in the vicinity of the Los Angeles basin. (PI: M. Roy, UNM; co-PI: Robert W. Clayton, Caltech). ($19,370 to MR; Agency: Southern California Earthquake Center).


Proposals Pending:

Collaborative Research: Exploring the topographic and exhumational signature of collapsing orogens: insights from low temperature thermochronometry and geodynamic models. (PI: M. Roy (UNM), S. Kelley (NM Tech) and M. House (Caltech).) ($35,045 to MR; Agency: National Science Foundation).

Constraints on the SCEC 3D Velocity Model from Gravity Data. (PI: M. Roy (UNM), R. Clayton (Caltech).) ($19,376 to MR; Agency: Southern California Earthquake Center).
Publications in progress:


Uplift and exhumation along the Rio Grande Rift, New Mexico: Implications of apatite fission-track and (U-Th)/He cooling ages. M. House, S. Kelley and M. Roy.


Constraints on crust and mantle structure beneath the San Gabriel Mountains, California, derived from gravity and seismic data. M. Roy and R. Clayton.

Conference, Symposium and Invited Lectures

Abstracts at Professional Meetings:


Roy, M. and R. Clayton, Crust and mantle structure beneath the Los Angeles basin and vicinity: Constraints from gravity and seismic velocities, Fall Meeting of the American Geophysical Union, December, 1999.


Roy, M. and R. Clayton, Constraints on crust and mantle structure in the Los Angeles Basin and vicinity from gravity and seismic data, Annual Meeting of the Southern California Earthquake Center, September, 1999.

Other Professional Meetings

Plate Boundary Observatory Workshop (by invitation), Snowbird, Utah, October, 1999.

Charles K. Shearer

Teaching

Courses taught:

Spring: E&PS 365 - Exploring The Solar System (25 enrolled)

Graduate Student Committees: Chris Heil, Jim Karner and Chris Herd.

M.S. Advisor: Chris Heil.

ICP-MS Instruction: 8 students, faculty and staff.

Ion Microprobe Instruction: 5 students, faculty, and staff.
Publications (* indicates student authors)

Articles in Refereed Journals:


Abstracts in Conferences and Symposia Proceedings

8th ISAES Conference, Wellington, N.Z.


30th Lunar and Planetary Science Conference, Houston, TX.


Shearer, C.K. and Newsom, H.E. (1999), A short-lived lunar magma ocean. Implications for the evolution of the early lunar crust. LPSC XXIX.


A.G.U. Spring Meeting, Boston, Massachusetts

Shearer, C.K. (1999) From central Massachusetts to the Moon. Understanding the evolution of early planetary crusts using the crystal chemistry of the rock forming minerals. EOS.

New Views of the Moon, Flagstaff, Arizona


G.S.A. National Meeting, Denver, Colorado

Externally Funded Research

Grants and Contracts:

NASA “Microbeam Studies of Planetary Materials”
Various Contracts and Grants for the SIMS Laboratories
NSF Support for An Ion Microprobe Facility
NASA “Deciphering S Isotopic Systematics as Biogenic Markers in Martian Meteorites”
NASA “Planetary Biomarkers”

Conference, Symposium and Invited Lectures

Meetings Attended:

AGU meeting, Boston, MA, May 22-26, 1999.


GSA National Meeting, Denver, CO., October 18-22, 1999

Activities of the Research Scientists

Viorel Atudorei

Teaching

Courses taught:

Training students in the Stable Isotope Laboratory.

Publications (* indicates student authors)

Proceeding volumes:


Research Projects in Progress

Manuscripts submitted:


Ongoing collaborations:

Geochemical characterization of Devonian-Mississippian marine shales: integration of stable isotope geochemistry and organic petrography, with Dr. Sue Rimmer, University of Kentucky, Lexington.

Radiometric calibration of the Triassic timescale, with Dr. Mihai Ducea, University of Arizona.

Sulfur isotope geochemistry of Permian and Triassic evaporites of US Western Interior, with Dr. Spencer Lucas, New Mexico Museum of Natural History, Albuquerque.

Conference, Symposium and Invited Lectures


Lars Borg

Teaching

Courses taught:


Publications (* indicates student authors)

Articles in referred journals:


Abstracts in conference and symposia proceedings:

30th Lunar and Planetary Science Conference, Houston, Texas


Martian Meteorites: Where Do We Stand and Where Are We Going? Lunar and Planetary Institute, Houston, Texas.


Manuscripts in press:


Conference, Symposium and Invited Lectures

Meetings attended:

March 15-19: 30th Lunar and Planetary Science Conference, Johnson Space Center (JSC), Houston, TX.
September 21-24: Lunar Initiative Workshop, Flagstaff, AZ
October 1-4: Mars 2001 Workshop, LPI, Houston, TX

John Huster

Teaching

Taught two lectures and two labs in: Selected Topics in Geochemistry.
Trained 10-12 students in the use of X-Ray fluorescence and atomic absorption instrumentation.
Aided four students with Senior Thesis Projects.
Gave chemical and occupational safety training to new faculty, staff and students.

Research Projects in Progress

Chemical analysis and collaboration with: SiNaF Products, Lovelace Research Lab, Pacific NW National Laboratory, Superior MicroPowders, UNM Biology cave projects, UNM School of Medicine African Milk study, UNM Center for Radioactive Waste Management, UNM Department of Nuclear and Chemical Engineering, UNM Center for Microengineered Ceramics, Apogee Scientific, Summer and associates, Nanopore, NM Attorney General, NSF Rio Calavaras, Tierra Resources and Adherent Technologies.

Rhian H. Jones

Teaching

Spring: E&PS 365, "Exploring the Solar System". 5 lectures, 1 lab session.

Publications (* indicates student authors)

Abstracts:

Isolated pyroxene grains in ALHA77307: Derivation from chondrules. R.H. Jones**

Research Projects in Progress

Manuscripts in press:


Conference, Symposium and Invited Lectures:


Fellow of Mineralogical Society of America and Meteoritical Society.

Member of Mineralogical Society of Great Britain and American Geophysical Union.

Aurora Pun

Teaching

Courses Taught:

Spring: E&PS 101 - Physical Geology (31 enrolled), E&PS 101 - Physical Geology (13 enrolled).

Summer: E&PS 101 - Physical Geology (39 enrolled).

Fall: E&PS 101 - Physical Geology (36 enrolled).

Publications (* indicates student authors)

Articles in Refereed Journals:

Externally Funded Research

Unsuccessful proposals for grants and contracts submitted:

How Does the Earth Work? Alternative Textbook for Introductory College Geology
Focusing on Science Relevancy. G.A. Smith and A. Pun, National Science Foundation
January 1, 2000 to December 31, 2001, $74,999.

Michael N. Spilde

Teaching


Guest lecture and SEM/microprobe demonstration for Anthropology 570 “Ceramic Analysis
Class,” April 22, 1999.

Class co-taught with Adrian Brearley E&PS 518. "Electron Microprobe Analysis and Scanning
Electron Microscopy” (10 enrolled) Fall Semester 1999.

Tutorial training
On the SEM for 5 UNM graduate students.
On the microprob for 6 UNM graduate students.
On the SEM for 3 UNM faculty/staff and 1 NM Tech faculty.

Publications (* indicates student authors)

Papers in Refereed Journals:


Abstracts:


Bismuth minerals from the Harding pegmatite: More than just yellow-green grunge. M.N. Spilde, New Mexico Geology, v. 21, p. 15.

Was it alive? Distinguishing biological from nonbiological mineralization and geological structures. M.N. Spilde, P.J. Boston and D.E. Northup, Proceedings from the 5th International Mars Science Conference


Externally Funded Research

Continued Grants and Contracts

Geomicrobiological interactions of microbial communities in cave deep subsurface environments: A novel extreme environment.
Investigator with C.N. Dahm, D.E. Northup, L.J. Crossey and P. Boston
National Science Foundation

Conference, Symposium and Invited Lectures


Sabbatical and Travel

Travel:

- January 23-February 1, 1999. Traveled to Carlsbad Caverns National Park, Carlsbad, New Mexico for presentation and field work in Lechuguilla and Spider Caves.
- May 26-June 3, 1999. Traveled to Tapihulapa, Tabasco, Mexico with National Geographic photographer and writer for field work in Cueva de Villa Luz.
• June 10-12, 1999. Traveled to Carlsbad Caverns National Park, Carlsbad, New Mexico for field work in Spider Cave.
• October 1-3, 1999. Traveled to Carlsbad, NM to present research update to NPS Cave Specialist's office, Carlsbad Caverns National Park.

Huifang Xu

Teaching

Courses taught:

Spring: E&PS 538L - Analytical Electron Microscopy (7 enrolled).

Publications (* indicates student authors)


Externally Funded Research

Awards Current in 1999:


Research Projects in Progress

Manuscript in press


Crystallization sequence and microstructure evolution of Synroc samples crystallized from CaZrTi$_2$O$_7$ and CaCeTi$_2$O$_7$ systems: HRTEM/AEM investigation. H. Xu**, and Y. Wang, Radioactive Waste Management and Environmental Remediation.

Microstructure and composition of Synroc samples crystallized from a CaCeTi$_2$O$_7$ chemical system: HRTEM/EELS investigation. Huifang Xu**, Yifeng Wang, Robert L. Putnam, Jose Gutierrez, and Alexandra Navrotsky, Scientific Basis for Nuclear Waste Management, v. XXII.


TEM Investigation of U$^{4+}$ and Re$^{7+}$ Reduction by Desulfovibrio desulfuricans, a Sulfate-Reducing Bacterium, Huifang Xu**, Larry L. Barton, Pengchu Zhang, and Yifeng Wang, Scientific Basis for Nuclear Waste Management, v. XXII.

Manuscripts submitted


Using Linear Free Energy Relationship to Predict Gibbs Free Energies of Formation for Oxides, Hydroxides, and Aqueous Metal Complexes Containing Trivalent Cations, Huifang Xu**, and Yifeng Wang, GCA.


IV. FACULTY PROFESSIONAL, COMMUNITY AND UNIVERSITY SERVICE
Faculty Professional, Community and University Service

Yemane Asmerom

Activities in Professional Societies

Proposals reviews: NSF

Manuscript Reviews:

Non-Teaching University and Departmental Service

Facilities Committee, Graduate Committee, Search Committee: Volcanology position, Centennial Library Ad-hoc Committee, Library Representative, MEMS, Search Committee: Geomorphology, Computer Committee.

Adrian Brearley

Activities in Professional Societies

Associate Editor, American Mineralogist (1994-2000).
Associate Editor, Mineralogical Magazine (1998-2000).
Abstractor for Mineralogical Abstracts, abstracted papers from Analytical Chemistry.
Member, Meteoritical Society Meteorite Nomenclature Group.
Member, NASA Cosmochemistry Review Panel, Member.
Mineralogical Society Committee on Committees.

Other Professional Activities


Non-Teaching University and Departmental Service

Departmental service:

Presented seminar to Department of Physics and Astronomy, UNM ‘Life on Mars: Alive and Kicking or Dead in the Water’.

Chairman, Department of Earth and Planetary Sciences Facilities Committee.
Member, Department of Earth and Planetary Sciences Graduate Committee. Member, Department of Earth and Planetary Sciences Long Term Strategic Planning Committee.

Public Service

Participated in meteorite display for Astronomy Day at Winrock Mall, Albuquerque, April, 1999.
Identified numerous suspect meteorites and provided information on meteorites for members of the public from both within and outside New Mexico.

Interviewed numerous times and quoted by papers and press (TV and Radio) regarding publication of paper in Science Magazine in August, 1999.

Michael E. Campana

Activities in Professional Societies

Secretary-Treasurer and Board of Directors, Association of Ground-Water Scientists and Engineers.

Member, Publishing Oversight Committee, National Ground Water Association (publishes the journals Ground Water, Ground Water Monitoring and Remediation and Water Well Journal).

UNM Delegate, Commission on Food, Energy and Renewable Resources, National Association of State Universities and Land-Grant Colleges (NASULGC).

Lead UNM Delegate, Universities Council on Water Resources. Chair, Membership Committee, Association of Ground Water Scientists and Engineers. Member, Credentials Committee, National Ground Water Association. Other Professional Activities.

Associate Editor, Environmental and Engineering Geoscience. Associate Editor, Ground Water. Book Editor, Ground Water.

Fulbright Senior Scholar Peer Review Panel - Caribbean, Central American and Mexico region.

Member, National Research Council Committee on U.S. Geological Survey Water Resources Research.

Member, National Research Council Committee on Opportunities to Improve the U.S. Geological Survey's National Water Quality Assessment (NAWQA) Program.

Participant, International Atomic Energy Agency Coordinated Research Program on Use of isotopes for analyses of flow and transport dynamics in groundwater systems.

Member, Program Development and Review Board, New Mexico Water Resources Research Institute.

Campus Coordinator, U.S. Environmental Protection Agency National Network for Environmental Management Studies (NNEMS) Fellowship Program.

Steering Committee, National Water Initiative Task Force. This is a group of about 15 academicians seeking to increase Federal sponsored research on water resources by $500,000,000 per year (organized under the aegis of NASULGC).

Other Professional Activities

Reviewed manuscripts for Journal of the North American Benthological Society (1); Hydrogeology Journal (2); Hydrological Processes (1); Water Resources Research (3); Journal of Hydrology (1); Environmental and Engineering Geoscience (1); Journal of Hydraulic and Drainage Engineering (1)
Reviewed proposals for: National Science Foundation (4); Los Alamos National Laboratory (1).

Non-Teaching University and Departmental Service

University:

Director, Water Resources Program. Member, Steering Committee, Water Resources Program. Co-Chair, Faculty Senate Curricula Committee. Member, Senior Promotion Committee, College of Arts and Sciences.

Member, J. Rivera Promotion Committee (full professor) Anderson Schools of Management. Attendee, Upton Transboundary Resources Center retreat, School of Law, January 21-22, 1999.

Departmental:

Committees: Graduate Committee.

Other:

Played major role in developing curriculum for new B.S. in Environmental Science.

Public Service

Provided water resources and related information to the general public. Volunteer, Lifewater International and Team Leader - Panama Project, which seeks to develop potable water supplies for the Epera Indians.

Member, Intel Corporation Community Advisory Panel. Member, ACDI/VOCA (Agricultural Cooperative Development International/Volunteers in Overseas Cooperative Assistance). Member, VITA (Volunteers In Technical Assistance). Member, Partners of the Americas.

Laura J. Crossey

Activities in Professional Societies

Society Committees:

American Association of Petroleum Geologists, Membership Committee (since 1989)
Association for Women Geoscientists (lecturer (since 1989))
Society for Sedimentary Geology, Academic Liaison (since 1991)
Society for Sedimentary Geology, Research Committee (since 1996)
Geochemical Society, Clark Medal Selection Committee (1997-99)

Other Professional Activities

Manuscripts (Reviews):

Geological Society of America Bulletin (2); Geology (3); Clays and Clay Minerals (1).
Proposals:

American Chemical Society/Petroleum Research Fund (1); National Science Foundation (4).

Non-Teaching University and Departmental Service

Department:

Associate Chairman; Alumni Relations Committee; Scholarship Committee.

Department Representative to the Minority Engineering, Math and Science Program College; Associate Dean, Student Academic Affairs.

Public Service


Maya Elrick

Other Professional Activities

Journal reviews:

Journal of Sedimentary Research (2); Geological Society of America (1); Sedimentology (1); Petrology book Chapter (1).

Proposal reviews:

National Science Foundation (2)

Non-Teaching University and Departmental Service

Departmental Committees: Co-chair Graduate Committee; Graduate Advisor; Chair Scholarship Committee

University Committees: Arts and Science Tenure and Promotion Committee; KUNM Radio Board.

Community: Reviewed science text books for New Mexico public schools.

Peter J. Fawcett

Non-Teaching University and Departmental Service

Department: Member, Computer committee; Member, Graduate committee; Member, Geomorphologist Search Committee; UNIX facility administrator.
Other Activities in Professional Societies

**Manuscript Reviews**


**Book Review:**


**Proposal Reviews:**

Reviewed 2 proposals submitted to the National Science Foundation.

**Public Service**

Interviewed by Science reporter for the Albuquerque Journal.

John W. Geissman

Activities in Professional Societies

Editor, Bulletin, Geological Society of America.
Member, Publications (*) indicates student authors) Committee, Geological Society of America.
Associate Editor, Journal of Geophysical Research.
Member, American Geophysical Union "Committee of 50".
University of New Mexico representative, DOSECC, Inc.
Science Advisor, New Mexicans for Science and Reason.
Co-Chairperson, New Mexico Geological Society 1999 (Golden Anniversary) Fall Field Conference
Member, New Mexicans for Science and Reason and Technical Consultant
Member, Coalition for Excellence in Science Education
Chair, AGU Public Affairs Committee on Creationism/Evolution Policy Statement

Other Activities in Professional Societies

**Reviews of manuscripts and proposals**

Reviewed proposals for National Science Foundation (10), American Chemical Society (2), U.S. Geological Survey (1), The Third World Academy of Sciences (3), Lithoprobe, Canada (1), Australian Research Council (1).


**Consultancies**

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.

Non-Teaching University and Departmental Service

University service and activities:
- Member, Faculty Senate, 1998-
- President-elect, Faculty Senate, 1999-
- Member, Faculty Senate Budget Committee, 1997-
- Member, Faculty Senate Governmental Affairs Committee, 1999-
- Chair, College of Arts and Sciences Junior Promotion and Tenure Committee, 1999-2000
- College of Arts and Sciences Graduate Committee
- University North Central Association Steering Committee Member

Departmental service:
- Department Graduate Committee, Co-Chair, Fall, 1998-
- Department Facilities Committee, Fall, 1996-
- Department Long Range Planning Committee, 1999-
- Department Vehicle Committee, 1999-
- Department Alumni Affairs Committee, Chair, 1999-

Special Projects:
- Administrative Positions.

Public Service

- Geoscience Advisor, Albuquerque Petroglyphs National Monument committee.
- Geologic field excursion leader, miscellaneous Elementary school groups.
- Participant, Jefferson Middle School, Special Educational Events Day.
- Participant, Rio Rancho High School Career Days.
- Three public interest talks, Elks Club, Rio Grande Civitan Club, Manzano del Sol Retirement Center.
- Member, Project Dragonfly, National Forum for Young Investigators.
- Member, Coalition for Excellence in Science Education.

David Gutzler

Non-Teaching University and Departmental Service

Departmental committees:
- Computer Committee (Chair).
- Undergraduate Committee.
- Geomorphology Faculty Search Committee.

- I was one of the principal architects of the new E&PS undergraduate degree program (B.A. and B.S.) in Environmental Science (now being reviewed by college and university curriculum committees).
I am principal E&PS representative on an ad hoc planning committee to design video/audio/computer renovations to the Kudo lecture hall, 122 Northrop Hall.

University committees:

Faculty Senate Computer Use Committee (Chair).
As CUC chair I was the principal author of a faculty-wide computer use survey disseminated in October and made numerous appearances before the full Faculty Senate and the FS Operations Committee.

Interviewee, KUNM Radio “University Showcase”, 1 October.

Non-Teaching University and Departmental Service

Departmental committees:

Computer Committee (Chair).
Undergraduate Committee.
Geomorphology Faculty Search Committee.

I was one of the principal architects of the new E&PS undergraduate degree program (B.A. and B.S.) in Environmental Science (now being reviewed by college and university curriculum committees).

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University committees:

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As CUC chair I was the principal author of a faculty-wide computer use survey disseminated in October and made numerous appearances before the full Faculty Senate and the FS Operations Committee.

Interviewee, KUNM Radio “University Showcase”, 1 October.

Public Service

Presentation and demonstration, “How Clouds Form”, to elementary school children associated with the Albuquerque Association for Gifted and Talented Students, Jan 30.

Stephen P. Huestis

Non-Teaching University and Departmental Service

University Service and Activities:

Committees: Arts and Sciences Undergraduate Committee.
Arts and Sciences Curriculum Committee
UNM Scientific and Engineering Computation Program Associated Faculty.
Other University Activities:

Virginia Creepers String Band university performances:
NSF-CONACYT-ISTEC Workshop on Digital Libraries – July 9, 1999
Communication and Journalism Department Anniversary – October 21, 1999

Departmental Service:

Committees:

Undergraduate; Scholarship; E&PS Undergraduate Advisor.

Public Service

Virginia Creepers String Band volunteers performance:
Albuquerque Mennonite Church retreat, September 10, 1999.

Karl E. Karlstrom

Activities in Professional Societies

Committee Member:

Member of Editorial Board for Precambrian Research 1-90 to present..
Member New Mexico Geologic Mapping Advisory Board, 1995-present.
Steering Committee and workshop coordinator for U.S. Array, a component of the NSF-Earth scope initiative, 1999-present.

Other Professional Activities

Invited talks:

University of Wyoming, April 5-6, 1999.
Northern Arizona University, April 28-29, 1999.
University of Michigan, Turner Lecture, November 19, 1999.

Review activities (manuscripts):

Precambrian Research (2); Tectonophysics (1); Geology (2); GSA Bulletin (1); Journal Geophysical Research (1).

NSF Proposals: (3)

Newspaper, Magazine articles:


Non-Teaching University and Departmental Service

Department service:

Undergraduate committee.
Member: Geomorphology Search committee.
Public Service

Numerous interviews with Albuquerque Journal writer, John Fleck.

Cornelis Klein

Activities in Professional Societies

Member of the Commission on History and Teaching, International Mineralogical Association, 1985-2002.

President of the Mineralogical Society of America.

Member, Committee on Committees, Mineralogical Society of America. 1999-2000.

Consultant Editor, Merriam Webster Encyclopedia on Geology, Mineralogy and Meteorology, 1997-2000.

Adjunct Curator, New Mexico Museum of Natural History, Albuquerque, New Mexico.

Other Professional Activities

Reviews:

Reviewed proposals for the National Science Foundation, USA and the National Research Foundation of South Africa.


Reviewed book manuscript for Prentice Hall, Inc.

Non-Teaching University and Departmental Service

Member of the University-wide committee that awards “Outstanding TA award for 1998-1999.”
Member, Undergraduate Committee, E&PS
Member, Collections Committee, E&PS

Public Service

Member of the Albuquerque Rotary Club.
Member of the Program/speakers Committee for the Albuquerque Rotary Club.
Introduced Dr. Harrison Schmitt, November 29, 1999. Talk entitled “Terrestrial Climate Change and Future Energy from the Moon”

Hosted Professor Anthony R. Philpotts as part of our Colloquium series, October 7, 8 and 9, 1999. He gave two talks: “Differentiation of Basaltic Magmas” and “Revolutionary Geological Mapping through the use of the electronic total station and other computer assisted devices”.

Participated in the organization of the celebration of “33 years of Outstanding Teaching” May 6, 1999 in honor of the late Albert M. Kudo.
Invited Dr. Lokesh Chaturvedi, Deputy Director, Environmental Evaluation Group, as guest lecturer in E&PS 204 with a lecture entitled “Where is WIPP now?”

Barry S. Kues

Other Professional Activities

Adjunct Curator, N.M. Museum of Natural History and Science.

Reviewed manuscripts for:

- Journal of Paleontology (2),
- California Academy of Science (1),
- Acta Palaeontologica Polonica (1)

Non-Teaching University and Departmental Service

University: Faculty Senate Library Committee and library budget subcommittee; Provost’s ad hoc committee on the UNM libraries; Science-Technology Building advisory committee.

Department: Chair of Earth and Planetary Science Department through June 30, 1999

Public Service

Identified geological specimens and answered geological questions for the public.

Leslie D. McFadden

Professional Activities

Peer Reviews of Articles and Proposals

Reviewed 2 papers for Geology:


Contributions to University of New Mexico Publications (* indicates student authors):


Editorial Activity

Editorial Board Member, Catena

Off-campus Activity

Panel Member, Roundtable America! Symposium, “Science and the Media”, Albuquerque, NM.

Non-Teaching University and Departmental Service

Chair, Undergraduate Committee (through the Spring semester, 1999).

Chair, Volcanology Position Search Committee.

Member, University of New Mexico Academic Freedom and Tenure Committee (through the Spring semester, 1999).

Re-elected to the UNM Faculty Senate.
Led City of Albuquerque Open Space Division’s Sunday Hike.
Informal On-Campus Interviews with 2 prospective graduate students.
8th Grade Science Class
Attended Civil Rights Training Workshop

Public Service

Volunteer Coach, Garfield Middle School, Fall, 1999.
Participation as member, Coalition for Excellence in Science Education (CESE).
Responded to several requests for advice and assistance from the public concerning issues related to soils and geology.

James J. Papike

Activities in Professional Societies

National committees and offices in societies:

1997–1999; Member, NASA Mars Expeditions Strategy Group (MESG).
1997-1999; Chair, NASA Curation and Analysis Planning Team for Extraterrestrial Materials (CAPTEM).
1997-1999; Member, NASA Mars Expeditions Strategy Group (MESG).
1998-1999; Member, NASA Lunar Data Analysis Review Panel (LDARP).
1998-1999; Member, NASA Mars 2001 Site Selection Committee.
1997-2000; Member, NASA, Cosmochemistry, Management and Operations Working Group (MOWG).
1998-2001; Member, NASA/JSC, Astromaterials Working Group (AWG) Reports to Center Director.
1999-2002; Member, NASA Space Science Advisory Committee (SScAC).

Other Professional Activities

Reviewed ten (10) proposals and seven (7) papers

Non-Teaching University and Departmental Service

University service and activities:

Director, Institute of Meteoritics.

Departmental service:

Director of the Institute of Meteoritics.
Member of EPS Facilities Committee.
Chair, EPS Long Range Planning Committee.

Public Service

Numerous discussions with the media concerning planetary issues.
Aurora Pun

Conference, Symposium and Invited Lectures

Reviewer of proposals, NASA Cosmochemistry Program.

Other Professional Activities

Adjunct Assistant Professor, Dept. Earth and Planetary Sciences, University of New Mexico.

Non-Teaching University and Departmental Service

Assisted Geology Museum Curator at Tucson Gem and Mineral Show and Albuquerque Gem and Mineral show.

Sabbatical and Travel


Public Service

Provided tours of the Meteorite and Geology Museums, Department of Earth and Planetary Sciences.

Jane Selverstone

Activities in Professional Societies

Editorial Board Member, Journal of Metamorphic Geology.

Other Professional Activities

Manuscripts reviewed:

Contributions to Mineralogy and Petrology (1);
Journal of Metamorphic Geology (4);
Geochimica Cosmochimica Acta (1);
Rocky Mountain Geology (1);
European Mineralogy (1);
Science (1); Geology (1);
Understanding Earth textbook – revisions for 3rd edition.

Proposals reviewed:

NSF Tectonics program (2);
NSF Petrology and Geochemistry program (4);
NSF Continental Dynamics program (1).
Non-Teaching University and Departmental Service

Departmental committees:

Long-Range Strategic Planning committee.
Search Committee for volcanology faculty position.
Undergraduate committee.

University committees:

Research Allocations Committee
Editorial Board Member, Journal of Metamorphic Geology.
Editorial Board Member, Journal of Metamorphic Geology.

Public Service

Presented 3-hour class on rock formation to 3rd grade class at Manzano Day School
Assisted at Manzano Day School Science Fair
Assisted with 5th-grade trail maintenance project in Jemez Mountains, Manzano Day School

Zachary Sharp

Activities in Professional Societies

Reviewed Papers for International refereed journals: 25.
Reviewed proposals: Australian Research Council; NERC proposal; 22 NSF Proposal.

Editorships:

Geology
American Journal of Science
Lithos

Non-Teaching University and Departmental Service

Committees: Building Safety Coordinator; Instrumentation and Facilities; Long Range Planning Committee; Alumni committee; Mineralogical Society of America Awards Committee.

Miscellaneous:

Calibrated new NBS gas for the National Institute of Standards and Technology.
Reviewer for Tenure Promotion, ASU (1999).
Science teaching at Dennis Chavez elementary school.
Lecture (Roswell) for University Outreach Program (UNM Star Scholars Recruitment Campaign.
Coordinating development of Departmental brochure.
Ran E&PS 401 colloquium.

Gary A. Smith

Activities in Professional Societies

President, New Mexico Geological Society
Associate Editor, Geological Society of America Bulletin

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Other Professional Activities

Reviews:

Reviewed manuscripts for Geological Society of America Bulletin (6), Sedimentary Geology (1), Bulletin of Volcanology (2), Geology (1)

Reviewed proposals for the National Science Foundation (2); Adjunct Curator, New Mexico Museum of Natural History and Science; Field Geologist, New Mexico Bureau of Mines and Mineral Resources; Technical Staff (Faculty Sabbatical), Geohydrology Group, Sandia National Laboratories.

Non-Teaching University and Departmental Service

Departmental Service:

Assistant Department Chair, Fall, 1999
Chair, Collections Committee, fall 1999
Chair, Undergraduate Committee, fall 1999
Geomorphology Faculty Search Committee, fall 1999
Advisor, Geology Club, fall 1999


Public Service

Identification of mineral and fossil specimens for department visitors.
Provision of rock and mineral specimens to Albuquerque Public Schools teachers.

Research Professors

Professional, Community and University Service

Horton Newsom

Conference, Symposium and Invited Lectures


Oral Presentations:


Poster Presentations:


Other Professional Activities

Professional Offices held:

Panel member: NASA Non-Advocate Review Committee, Surface systems Thrust of the NASA Cross Enterprise Technology Development Program.

Other activities:


Reviewed grant proposals submitted to NASA (4).

Member of the scientific team for the 1999 Marsokhod Rover test, Ames Research center.

Publicity:

Dr. Newsom’s research about the possibility of hot springs on Mars and published in the Journal of Geophysical Research formed the basis of the newspaper article “Mars data hint at old hot springs” published in the Albuquerque Journal, May 2, 1999,

Interviewed by the New Mexico Daily Lobo for the article, “Data shows Mars was once wet”, May 5, 1999.

Interviewed live for the BBC world service radio program regarding the impact of the Lunar Prospector on the Moon, July 29, 1999.

Non-Teaching University and Departmental Service

Member, New Mexico Space Grant Faculty Advisory Board (Facilitated successful application of student Justin Hagerty).

Educational Outreach Coordinator, Institute of Meteoritics.


Presented two invited talks in the Department of Physics and Astronomy, University of New Mexico, Oct. 21, 1999.

Advanced Study and Scholastic Honors

“Exploring Planets in the Classroom”, at the University of Hawaii, Manoa, June 21-26, 1999.
Sabbatical and Travel

Travel:

- February 7-10 - Ames Research Center, Marsokhod 1999 Field test, Moffett Field, CA.
- April 29 - Review committee meeting for the New Mexico Collaborative for Excellence in Teacher Preparation grant, Shiprock, NM.
- July 12-14 - Review panel meeting for the NASA Non-Advocate Review Committee, Surface systems Thrust of the NASA Cross Enterprise Technology Development Program, Oxnard, CA.
- October 2-4 - Mars 2001: Integrated Science in Preparation for Sample Return and Human Exploration, Lunar and Planetary Institute, Houston, TX.

Public Service

Developed educational outreach and teacher training initiatives for the Institute of Meteoritics: We have received funding from the Space Telescope Science Institute, the New Mexico Collaborative for Excellence in Teacher Preparation and the Minority University Education and Outreach Division of NASA. In particular, the first year of the UNM PACE project has successfully demonstrated the valuable role that our University-based outreach program can have in improving student attitudes about science and technology. The total number of students reached by the program last year was greater than 4,000. We have worked primarily with student groups from the New Mexico Math Engineering Science Achievement (NM MESA) program. The approach takes advantage of the unique facilities at the University of New Mexico, such as the scanning electron microscope and our Meteorite Museum. Our program also provides role models for the students in the form of a diverse population of undergraduates, graduate students and university faculty. An important synergistic element of the program is the inclusion of programs for both students and teachers. Another key element is the use of evaluation instruments to better understand the needs of the students and to guide future efforts.

Frans Rietmeijer

Activities in Learned and Professional Societies (meetings attended, office held, professional papers read, etc.)

Professional Papers Read:


Micrometeoroid ablation: Metal abundances and the fate of mesospheric metals, Leonid MAC Workshop, NASA Ames Research Center, Moffett Field, California.


A preliminary analytical electron microscope study of experimentally shocked dolomite with emphasis on neoformed carbon phases, 30th Lunar and Planetary Science Conference, Houston, Texas.

Constraints on the nature of common presolar dust based on observations of collected cosmic dust and vapor condensation experiments, 15th Annual New Mexico Local Symposium, Socorro, New Mexico
Professional Meetings Attended:

- 37th Amer. Inst. Aeronautics Astronautics Meeting & Exhibit, Reno, Nevada, January 11-14
- Leonid MAC Workshop, NASA Ames Research Center, Moffett Field, California, April 12-15
- 15th Annual New Mexico Local Symposium, National Radio Astronomy Observatory, Socorro, New Mexico, October 30

Other Professional Activities

Peer review Scientific Papers:


Proposal Review:

National Aeronautics and Space Administration, Cosmochemistry Program (3). National Aeronautics and Space Administration, Planetary Instrument Definition and Development Program (2). National Aeronautics and Space Administration, MUSES-C International Mission Panel Memberships. National Aeronautics and Space Administration, Cosmic Dust Allocation Committee. 30th Lunar and Planetary Science Conference Program Committee.

Professional Services

Volunteer Editor for the Journal of Geophysical Research, American Geophysical Union


Sabbatical and Travel

Travel:

- 37th Amer. Inst. Aeronautics Astronautics Meeting & Exhibit, Reno (NV), January 11-14
- 30th Lunar and Planetary Science Conference Program Committee, Houston (TX), January 19-22
- 29th Lunar and Planetary Science Conference, Houston (TX), March 16-20
- Leonid MAC Workshop, Moffett Field (CA), April 12-15
- National Radio Astronomy Observatory, Socorro, New Mexico, October 30

Public Service

Volunteer at the IOM Exhibit at the “Astronomy Day at the Mall”, May 22.


“Green Chili Seminar” speaker, AP&S Geology Club on “Is there something we should know about comets Halley, Hale-Boppand LINEAR and the Leonid meteors?”, December 10.
Guided tours of the Meteorite Museum for middle-school students.

Offered advice via e-mail and phone on sample preparation of fine-grained powder samples for transmission and analytical electron microscope analyses.

CBS Radio Broadcast Interview on comet LINEAR, November 11.

Written report to D. Spalding (Sandia National Laboratories, Albuquerque) of the investigation of putative fragments from the Colorado Springs fireball (in collaboration with Dr. R. Jones, IOM).


Mousumi Roy

Professional Activities

Invited Talks:

Department Seminar, Earth and Atmospheric Sciences, Saint Louis University, March, 1999.
Colloquium, Geosciences Department, University of Arizona, April, 1999.
Colloquium, Geology Department, University of California, Davis, April, 1999.
Colloquium, Geosciences Department, University of South Carolina, Columbia, November, 1999.

Colloquium, Geosciences Department, Pennsylvania State University, State College, December, 1999.

Societies:

American Geophysical Union, 1993-present.
Geological Society of America, 1993-present.
American Physical Society, 1989-present.

Fieldwork:


Non-Teaching University and Departmental Service

Voluntary co-management of UNIX computing and related issues in the E&PS Department.

Public Service

Editorial Board, Geology magazine, 1999-present
Served as reviewer for Geophysical Research Letters, Geological Society of America Bulletin and Geology.
Special Sessions Chaired at Professional Meetings:

American Geophysical Society Spring Meeting, 1999: Co-convener, Special Session on “Fault Interactions Over Inter-Seismic Time Scales”

Charles K. Shearer

Other Professional Activities

National Committees and Offices in Societies:

CAPTEM member.
USRA member of the review committee for the Lunar and Planetary Institute.

Other Activities:

Interviews given to numerous news media. These include interviews with the Associated Press, BBC, NPR, local affiliates for NBC, CBS and ABC, Albuquerque Journal.


Organizer and Chair for P. Robinson Symposium at Spring 1999 AGU meeting.

Organizer and Chair for "New views of the Moon: Integrated remotely sensed, geophysical and sample datasets" meeting in Flagstaff, AR.

Non-Teaching University and Departmental Service

Manager SIMS laboratory
Department Facilities Committee

Public Service

Board of Directors for Eastdale Little League.
Player Agent for Eastdale Little League.
Senior Research Professors

Professional, Community and University Service

Roger Y. Anderson

Other Professional Activities

Consultation on design of field sampling program and equipment related to reconstruction of paleoclimatic records from New England Lakes. Vassar college, Spring, 1999.
Consultation with public interest groups and individuals on geological conditions at the WIPP site, NM.

Wolfgang E. Elston

Activities in Learned and Professional Societies (meetings attended, office held, professional papers read, etc.)


Other Professional Activities


Reviewed proposal for NSF.
Paper for the New Mexico Geological Society.

Non-Teaching University and Departmental Service

Coordinator, University of New Mexico-Los Alamos National Laboratory Volcanology Program.

Advanced Study and Scholastic Honors


Sabbatical and Travel

Travel:

Public Service

Interviewed for feature story by John Fleck, Albuquerque Journal, December 2, 1999; "Geologist pursues theory of asteroid impact in South Africa".

Gave advice to the public on geology and mineralogy.

Research Scientists

Professional, Community and University Service

Viorel Atudorei

Other Professional Activities

Co-organiser of the Workshop on the Lower-Middle Triassic boundary, Tulcea, Romania, to be held in June, 2000 sponsored by the Subcomission of Triassic Stratigraphy of the IUGS.

Sabbatical and Travel

Professional travel:

- July 21-25, St-George area, Utah, samples collecting.
- October 24-28, GSA Annual Meeting, Denver, CO.
- October 29-30, Carlsbad area, NM, samples collecting.

James Connolly

Other Professional Activities

UNM Elderhostel Classes (10 hours including field trip):


John Husler

Conference, Symposium and Invited Lectures

Member of Geostandards International Work Group.
Member of American Chemical Society.

Public Service

Assay of ores for prospectors/companies.
Judge, NW Regional Science Fair.
Chemical/Mineral Demonstration for Elementary/Mid and High School Students.
Member Rotary Brass Group.
Volunteer for Waterlines, a non-profit organization bringing potable water to underdeveloped countries (Two projects in Mexico).
Rhian H. Jones

Other Professional Activities


Non-Teaching University and Departmental Service

Departmental service:
Manager of Experimental Petrology Laboratory.
Curator of Meteorite Collection.

Sabbatical and Travel

Travel:

Public Service:
Coordinated and gave tours of Meteorite Museum for visiting school students, UNM classes and community groups.

Identified about 200 suspect meteorites and answered enquiries about meteorites for members of the public.

Michael N. Spilde

Other Professional Activities

Presented an invited talk (with Dr. Penny Boston and Diana Northup, UNM Biology Dept.): "An update on University of New Mexico research activities at Carlsbad Caverns National Park."

Presented at Carlsbad Environmental Monitoring and Research Center, New Mexico State University at Carlsbad, January 23, 1999.

Interviewed by Chaka Ferguson, Associated Press, January 24, 1999 for an article for Associated Press distribution.

Interviewed by Joel Achenbach, May 26, 1999 for article in January 2000 National Geographic Magazine.

Worked with a TV film crew from the PBS NOVA series, August 20, 1999 for a show on scientific research in caves to be aired in Fall 2000.

Presented an update on research activities conducted by UNM Departments of Biology and Earth and Planetary Science to personnel at Carlsbad Caverns National Park, October 2, 1999.

Worked with a TV film crew from The Learning Channel, October 10, 1999 for a show on caves to be aired in Spring 2000.

Served as President of the New Mexico Microbeam Users Group, 1999.
Non-Teaching University and Department Service


Presented IOM research Seminar Presented IOM research Seminar "Corrosion Residues: Cozy Home or Living Hell for Microbes?" April 19, 1999.

Performed microprobe and SEM analyses for UNM Departments of Anthropology, Biology, Chemical and Nuclear Engineering, Mechanical Engineering, Physics and Astronomy and NM Engineering Research Institute.


Conducted training on microprobe software for a representative from Michigan Institute of Mining and Technology.

Performed microprobe and SEM analyses for a grad student from UNLV.

Public Service


Conducted Microprobe and SEM lab tours and demonstrations for several elementary and junior high school groups.


Examined potential meteorite specimens for the public.

Huifang Xu

Activities in Learned and Professional Societies


Other Professional Activities

Presented talk, "A unified equation for predicting stability constants of aqueous metal complexes and intrinsic sorption constants at mineral—water interfaces"
E&PS, UNM, 1999

Presented talk, "A unified equation for predicting stability constants of aqueous metal complexes of actinides and intrinsic sorption constants of actinide at mineral—water interfaces"
Actinide Workshop of US DOE (Albuquerque), 1999

Presented talk, "Using immobilized sulfate-reducing bacteria to immobilize U, Se, and Re"
Actinide Workshop of US DOE (Albuquerque), 1999

Non-Teaching University and Departmental Service

University service.
Department service and activities.

Public Service

Reviewing the Program of ESL for ADO Elementary School.
V. SELECTED DATA CONCERNING STUDENT ENROLLMENTS AND GRANTS AND CONTRACT

*************************************

564
V. Selected Data for Student Enrollments, Grants and Contracts

1. Undergraduate Majors per FTE

\[ \frac{70}{15.75} = 4.44 \]

2. Undergraduate (UG) and Graduate SCH (GSCH) per FTE

\[ \frac{UG + GSCH}{15.75} = \frac{5809}{15.75} = 368.83 \]

\[ \frac{UG}{15.75} = \frac{5124}{15.75} = 325.33 \quad \frac{GSCH}{15.75} = \frac{685}{15.75} = 43.49 \]

3. Grant/Contract/Award per FTE Faculty

\[ \frac{742,000}{15.75} = \$47,111 \]

4. Total Grant/Contract/Award in E&PS; Faculty and Research Scientists

\[ \$1,309,000 \]

5. IDC Dollar per FTE Faculty

\[ \frac{194,606}{15.75} = \$12,356 \]

6. Total IDC Dollars, Faculty and Research Scientists

\[ \$205,583 \]

7. Underenrolled classes

**Cancelled Classes**
- 105L.013
- 105L.014
- 418.001

**Underenrolled classes**
- 105L.004 (7)
- 105L.005 (6)
- 105L.006 (6)
- 105L.009 (2)
- 105L.011 (9)
- 105L.012 (11)
- 303L.002 (9)
- 303L.003 (8)
- 303L.004 (8)
- 307L.003 (12)
- 400.003 (6)
- 400.004 (6)
- 405.001 (10)
- 405L.002 (7)
- 472.001 (8)
- 534.001 (3)
- 537.001 (1)
- 548.001 (3)

**SUMMER 1999**

No cancelled or underenrolled classes.
FALL 1999

Cancelled classes –

103.002**
300.001
400.001
481.001**
481L.002**
531.002
580.001

**due to the departure of Dr. Frank J. Pazzaglia

Underenrolled classes –

102L.004 (11) 304L.001 (8)
105L.001 (12) 304L.002 (12)
105L.006 (11) 402.001 (6)
105L.007 (11) 410.001 (5)
105L.010 (11) 427.001 (4)
105L.012 (9) 433.001 (3)
105L.013 (11) 476.001 (6)
302L.002 (11) 502.001 (1)
302L.003 (10)

8. Total student credit hours, 1999:

E&PS: 6338
E&PS and Natural Sciences: 7406

9. Private Contributions

Geology Alumni Fellowship

Mr. Tobin N. Gerhart

Brookins Memorial Scholarship

Mr. and Mrs. Robert Suda

Geology Chair’s Account

Mrs. Susan H. Fullas
Mr. Edward Orback
Mr. Eben G. Crawford
Mr. John W. Husler
Lucent Technologies Foundation
Mr. Ronald L. Hershey
Dr. Kathleen A. Affholter

Wengerd Traveling Fellowship

Exxon Education Foundation
Mrs. Florence Wengerd
Faculty FTE – Calendar Year 1999.

<table>
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<th>Faculty Name</th>
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<th>FTE</th>
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<tr>
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<td>M. Campana</td>
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<td>B. Kues</td>
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<td>L. Crossey</td>
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<td>L. McFadden</td>
<td>.5</td>
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<td>M. Elrick</td>
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<td>F. Pazzaglia</td>
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<td>J. Silverstone</td>
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<td>D. Gutzler</td>
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<td>Z. Sharp</td>
<td>1.0</td>
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<tr>
<td>S. Huestis</td>
<td>1.0</td>
<td>G. Smith</td>
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<tr>
<td>K. Karlstrom</td>
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</tbody>
</table>

2 Summer SCH not included.

3 Graduate credit hours are 500 and 600 level courses.

4 Does not include IAC, returned to the Institute of Meteoritics.

5 Includes Summer SCH
VI. GENERAL DEPARTMENTAL INFORMATION
FACULTY AND STAFF

PROFESSORS:

Michael E. Campana, Ph.D., University of Arizona, 1975.
John W. Geissman, Ph.D., University of Michigan, 1980.
Karl E. Karlstrom, Ph.D., University of Wyoming, 1981.
Cornelis ("Kase") Klein, Ph.D., Harvard University, 1965.
Albert M. Kudo, Ph.D., University of California, San Diego, 1967.
Barry S. Kues, Ph.D., Indiana University, 1974.
Leslie D. McFadden, Ph.D., University of Arizona, 1982.
James J. Papike, Ph.D., University of Minnesota, 1964. (Regents Professor)

ASSOCIATE PROFESSORS:

Adrian J. Brearley, Ph.D., University of Manchester, (United Kingdom), 1984.
David Gutzler, Ph.D., Massachusetts Institute of Technology, 1986.
Stephen P. Huestis, Ph.D., University of California, San Diego, 1976.
Jane Selverstone, Ph.D., Massachusetts Institute of Technology, 1985. (Regents Lecturer)
Gary Smith, Ph.D., Oregon State University, 1986.
Yemane Asmerom, Ph.D., University of Arizona, 1988.

ASSISTANT PROFESSORS:

Peter Fawcett, Ph.D., Pennsylvania State University, 1994.

SENIOR RESEARCH PROFESSORS:

Wolfgang E. Elston, Ph.D., Columbia University, 1953.

RESEARCH PROFESSORS:

Horton Newsom, (Institute of Meteoritics), Ph.D., University of Arizona, 1981.
Mousumi Roy, Ph.D., Massachusetts Institute of Technology, 1997 (Caswell Silver Research Professor).
Charles K. Shearer, Jr., (Institute of Meteoritics), Ph.D., University of Massachusetts, 1983.

PROFESSOR EMERITUS:

Rodney C. Ewing, Ph.D., Stanford University, 1974.
J. Paul Fitzsimmons, Ph.D., University of Washington, 1949.
Research Staff:

Viorel Atudorei, Research Scientist III, Ph.D., University of Lausanne, Switzerland, 1998.
James Connolly, Research Scientist II, M.S., University of New Mexico, 1981.
John Husler, Research Scientist III, M.S., University of New Mexico, 1968.
Rhian H. Jones, Senior Research Scientist (Institute of Meteoritics), Ph.D., University of Manchester, Great Britain, 1986.
Jennifer Loomis, Post-Doctoral Scientist, Ph.D., University of New Mexico, 1996.
Aurora Pun, Post-Doctoral Scientist, Ph.D., University of New Mexico, 1996.
Nabil Shafike, Post-Doctoral Scientist, Ph.D., University of Arizona, 1994.
Kamran Syed, Post-Doctoral Scientist, Ph.D., University of Arizona, 1999.
Michael Wiedenbek, Senior Research Scientist I, (Inst. of Meteoritics), Ph.D., Australian National University.
Huifang Xu, Research Scientist III, Ph.D., Johns Hopkins University, 1993.

Adjunct Professors:

Bruce Allen, University of New Mexico, 1993.
Warren S. Balridge, Ph.D., Caltech University, 1978.
M. Susan Burger, Ph.D., Pennsylvania State University, 1982.
James E. Bossert, Ph.D., Colorado State University, 1990.
Tracey Cascadden, Ph.D., University of New Mexico, 1997.
Fraser E. Goff, Ph.D., University of California, Santa Cruz, 1977.
Grant H. Heiken, Ph.D., University of California, Santa Barbara, 1972.
Spencer G. Lucas, Ph.D., Yale University, 1983.
Sean McKenna, Ph.D., Colorado School of Mines, 1994.
Matthew Nyman, Ph.D., Virginia Polytechnic Institute and State University, 1992.
Donald Peterson, Ph.D., Stanford University, 1961.
Aurora Pun, Ph.D., University of New Mexico, 1996.
Walter C. Riese, Ph.D., University of New Mexico, 1980.
John Shomaker, Ph.D., University of Birmingham (United Kingdom), 1995.
Daniel B. Stephens, Ph.D., University of Arizona, 1979.
Gregory Valentine, Ph.D., University of California, Santa Barbara, 1988.
Erik Webb, Ph.D., University of Wisconsin, Madison.
Thomas Williamson, Ph.D., University of New Mexico, 1993.
Kenneth Wohletz, Ph.D., Arizona State University, 1980.

Staff:

Christopher Adcock, Research Technician, Institute of Meteoritics
Mabel T. Chavez, Editorial Technician
Gilbert E. Griego, Harding Mine Maintenance Mechanic
Yongxiang Guo, Senior Research Technician, STEM lab
Sally E. Hayes, Accounting Technician
Paula Holub, Department Administrator
Cindy Jaramillo, Administrative Assistant II
Sara Lentz, Administrative Assistant III, Institute of Meteoritics
Robert Macy, Research Engineer
Mary Marcilla, Administrative Assistant I, Institute of Meteoritics
Fiorine Rietmeijer, Lab Assistant
VISITING SCIENTISTS:

Dr. Weiliang Gong, Institute of Geochemistry, Chinese Academy of Sciences
Dr. Barbara Dutrow, Department of Geology and Geophysics, Louisiana State University, January–June, 1999
Dr. Kirsten Menking, Vassar College, June—August, 1999
Fidel Grandia, Autonomous University, Barcelona, Spain, January—July, 1999
Dr. Andrew Baker, University of Newcastle Upon Tyne, U.K., March 21, 1998 – April 15, 1999
Dr. Anna Bojar, Department of Geology and Paleontology, Karl-Franzens, University, May 15–July 15, 1999
Dr. Mengist Teclai, University of Eritrea, June – September, 1999
Dr. Gemma Alias, University of Barcelona, November – December, 1999
Dr. Ana Voica Bojar, University of Graz, Research Professor, July–August, 1999
Dr. Hans Peter Bojar, University of Graz, Museum Curator, August, 1999
Louie Bucci, University of Perth, Ph.D. Student, August, 1999
Dr. Luigi Dallai, University of Roma, Research Professor, November, 1999
Dr. Tomasz Durakiewicz, University of Lublin, Assistant Professor, Fall, 1999
Jeffrey Heikoop, Los Alamos, Fall, 1999
Jeffrey Kelly, U.S. Forest Service, Fall, 1999
Dr. Mengist Tekley, University of Asmara, Eritrea, June 15 – September 15.
Fidel Grandia, University of Barcelona, Spain, March 1 – June 15.
Dr. Rhawn Denniston, University of Iowa, March-April.
Dr. Claudia Lewis, Los Alamos.
Dr. Andy Baker, University of New Castle, England, April.
APPOINTMENTS AND SEPARATIONS

APPOINTMENTS TO FACULTY

None

SEPARATIONS FROM FACULTY

Albert M. Kudo, retired, October, 1999.

APPOINTMENTS TO STAFF


SEPARATIONS FROM STAFF

Chris Adcock, Research Technician, IOM, April, 1999.
Tracey Cascadden, Natural Science Coordinator, May, 1999.
Padinare V. Unnikrishna, Research Assistant Professor, June, 1999.
DEPARTMENTAL COMMITTEES
Spring, 1999

GRADUATE COMMITTEE
M. ELRICK
J.W. GEISSMAN
Y. Asmerom
A. Brearley
M. Campana
P. Fawcett

GRADUATE ADVISOR
M. ELRICK
J.W. Geissman

UNDERGRADUATE COMMITTEE
L.D. McFADDEN
D. Gutzler
S. Huestis
K. Karlstrom
C. Klein
J. Selverstone

UNDERGRADUATE ADVISOR
S. HUESTIS

SCHOLARSHIP COMMITTEE
B. KUDO
L. Crossey
M. Elrick
S. Huestis

HONORS ADVISOR
L. CROSSEY

FACILITIES COMMITTEE
J.W. GEISSMAN
Y. Asmerom
A. Brearley
J. Papike
Z. Sharp
C. Shearer

LIBRARY LIAISON
Y. ASMEROM

COMPUTER COMMITTEE
D. GUTZLER
J. Connolly
P. Fawcett
F. Pazzaglia
M. Spilde
(Graduate student)

VEHICLES
M. ELRICK
P. Holub
(Graduate student)

SAW ROOM
J. SELVERSTONE

COLLECTIONS COMMITTEE
C. KLEIN
B. Kues

SEARCH COMMITTEE
(L. D. McFADDEN
Y. Asmerom
A. Kudo
J. Papike
J. Selverstone
Goff (LANL)
(Graduate student)
DEPARTMENTAL COMMITTEES
Fall, 1999

GRADUATE COMMITTEE
M. ELRICK
J.W. GEISSMAN
Y. Asmerom
C. Brearley
M. Campana
P. Fawcett

LONG RANGE STRATEGIC PLANNING COMMITTEE
J. PAPIKE
L.D. McFadden
A. Brearley
J.W. Geissman
Z. Sharp
J. Selverstone
L.J. Crossey

UNDERGRADUATE COMMITTEE
G. SMITH
D. Gutzler
S. Huestis
K. Karlstrom
J. Klein
J. Selverstone

GRADUATE ADVISOR
M. ELRICK
J.W. Geissman

SCHOLARSHIP COMMITTEE
M. ELRICK
L. Crossey
T. Fischer
S. Huestis

UNDERGRADUATE ADVISOR
S. HUESTIS

FACILITIES COMMITTEE
A. BREARLEY
Y. Asmerom
J.W. Geissman
J. Papike
Z. Sharp
C. Shearer

HONORS ADVISOR
L.J. CROSSEY

COMPUTER COMMITTEE
D. GUTZLER
Y. Asmerom
J. Connolly
P. Fawcett
T. Fischer
M. Spilde
(Graduate student)

LIBRARY LIAISON
Y. ASMEROM

SAW ROOM
J. SELVERSTONE

VEHICLES
J.W. GEISSMAN
P. Holub
(Graduate student)

ALUMNI RELATIONS
J.W. GEISSMAN
Z. Sharp
L.J. Crossey
VII. FUTURE PLANS
Future Plans

As indicated in previous sections, a new "Long-Range Strategic Planning" Committee (LRSPC) was organized in the Fall of 1999 to address several key issues, most of which were described in the Department's previous (1998-99) Annual Report. Some of these issues included concerns about Department student enrollment numbers, the role of the Natural Sciences Program in the Department, the need for additional technical staff to maximize research and teaching potential, the need for additional space, and the need to develop a new five-year plan. By December of 1999, the LRSPC had substantively addressed several of these issues and presented several proposals to the faculty for general discussion. Several of the proposals were linked specifically to the preliminary outline of the new 5-year plan, the central part of which identifies a strategy for filling the next three faculty retirements with new faculty members. Other issues to be considered in the plan include plans to modify several classrooms and offices in Northrop Hall to enable development of new and greatly improved computational and microscopy facilities and a new plan to address office space needs and policies related to Senior Research Professors. The goal of the LRSPC was to continue efforts to refine the plan to enable presentation of a draft of the plan to the faculty in April of 2000 and ultimately presentation of the final, faculty-endorsed plan to the Dean in May of 2000.

The LRSPC also made progress in several other areas, including: (1) formulation of a plan to modify the manner in which faculty productivity, salaries and teaching loads are evaluated, through development of a new "Faculty Productivity and Salary Advisement Committee and an algorithm that quantifies teaching efforts per FTE through consideration of course load, course level, independent study and problem involvement, undergraduate and Graduate mentoring activities; and (2) formulation of a plan to retain Dr. Mousumi Roy, our current Caswell Silver Research Professor, in the Department after careful consideration of current faculty research and teaching strengths, Dr. Roy's research and its impact on faculty research endeavors and other factors. This plan was presented to the faculty, Caswell Silver Foundation Board and Dean Michael Fischer. On the basis of support indicated for the plan by all of the latter groups and the Dean, the Department has decided to move forward to further develop and plan in the Spring of 2000.
APPENDIX

MUSEUM AND HARDING PEGMATITE LOG

1999
## GEOLOGY MUSEUM REGISTER

**January 1, 1999 to December 31, 1999**

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**APRIL, 1999 TOTAL**

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**TOTAL**

<p>| APRIL | 1242 | 205 |
| MAY   | 219  | 34  |
| JUNE  | 283  | 85  |
| JULY  | 184  | 34  |</p>
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The Annual Report of

THE INSTITUTE OF METEORITICS

JULY 1, 1999 THROUGH JUNE 30, 2000

James J. Papike, Director

Institute of Meteoritics
Department of Earth and Planetary Sciences
University of New Mexico
Albuquerque, NM 87131-1126, USA
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INTRODUCTION

The Institute of Meteoritics (IOM) founded in 1944, is one of the oldest institutions of its kind in the world. The Institute continues its role as a leading center in research relating to planetary materials and processes. Charter goals of the IOM are:

1. To carry out research in the detailed laboratory analysis of meteoritic and other planetary materials and in other fields of planetary sciences.

2. To provide materials, facilities, and supervision for research by candidates for advanced degrees in planetary sciences. To offer instruction in areas as may be approved through the appropriate academic procedures and channels.

3. To promote the identification and acquisition of meteorites. To participate in exchange programs as may enhance the representative scope and scientific value of the Institute's collections of meteorites. To preserve and place on public exhibition both meteorites and related meteoritic materials and to make these materials available to scientists working in fields closely allied to meteoritics.

Research at the Institute of Meteoritics covers a wide range of problems, including studies of evolutionary processes on meteorite parent bodies (asteroids), the Moon, Mars, and Earth. Our research is aided by collaborations with investigators at other institutions. Our most important tools are microbeam analytical techniques, including electron microprobe (EMP), scanning electron microscope (SEM), transmission electron microscope (TEM), and ion microprobe (SIMS), plus thermal-ionization mass spectrometry (TIMS) and stable isotope measurements. State of the art facilities for all these techniques are available at UNM.

Teaching activities of the staff of IOM consist of both formal courses and informal meetings with graduate and undergraduate students. We emphasize the direction and supervision of student research and encourage presentation and publication of the results of this research at national and international levels. The Meteorite Museum plays an important role in our educational efforts, including organized programs for school groups with tours of the Museum and research laboratories.
INSTITUTE OF METEORITICS FACULTY AND STAFF

(July 1, 2000 – July 1, 2001)

Director, Institute of Meteoritics
Dr. James J. Papike, Regents’ Professor of Earth and Planetary Sciences

Research Professors
Dr. Horton Newsom
Dr. Robert Reedy
Dr. Frans Rietmeijer
Dr. Charles Shearer

Senior Research Associates
Dr. Lars Borg
Dr. Rhian Jones

Research Associates
Michael Spilde

Support Personnel
Justin Hagerty, Laboratory Technician
Jim Karner, Laboratory Technician
Sarah Lentz, Administrative Assistant III
Yolanda Skotchdopole, Administrative Assistant I

Graduate Students
Jennifer Edmunson
Justin Hagerty
Christopher Herd
Jim Karner

Additions to Staff
Justin Hagerty, July 1, 2000
Dr. Robert Reedy, July 1, 2000
Yolanda Skotchdopole, July 7, 2000

Separations from Staff
Mary Marcilla, June 9, 2000
SECTION I

RESEARCH

Institute of Meteoritics
1944

UNIVERSITY OF NEW MEXICO
I. RESEARCH

Research activities of staff and students of the Institute of Meteoritics cover a wide range of topics, mostly aimed at understanding the origin and early history of our solar system and the evolution of the planets. More specifically, we have major research initiatives to investigate the igneous evolution of chondrite meteorites, martian meteorites, and the Moon, and research into an understanding of early solar system processes through the study of interplanetary dust particles (IDPs) and chondritic meteorites.

Our research during the report period has resulted in the publication of scientific articles in major national and international journals, as well as in the publication of abstracts of papers presented at national and international conferences. The extensive involvement of students in original research projects in the Institute of Meteoritics is particularly important for their education and advanced training.

We continue to be very successful in attracting research grants and contracts to the Institute of Meteoritics in support of the research activities of staff and students. Details are provided in Table I. Funding was provided by the National Aeronautics and Space Administration (NASA), and the National Science Foundation (NSF).

1. Specific Projects

   a. Circumstellar and Interstellar Dust in Primitive Solar System Materials
      (Funded by NASA)

Interplanetary Dust Particles (IDPs) are routinely collected in the Earth’s stratosphere between 17-19 km altitude using highflying NASA aircraft. These 2-40 micrometer sized objects include both chondritic aggregates and non-chondritic materials, such as iron-nickel sulfide and Mg, Fe-silicate particles, but both particle types are related to each other. They are the solid debris from asteroids and short-period comets. The unique chondritic aggregate IDPs, typically 10-15 micrometers in size, still show the original accretion texture acquired 4.56G years ago. The chemical and mineralogical properties of principal components (PCs) indicate that they are presolar dusts that accreted in the nebula and that today survive in comet nuclei. The ferromagnesiosilica PCs include two genetically distinct types that formed by aggregation and fusion of metastable eutectic dusts that condensed in the
outflows of AGB stars and in the solar nebula. Each component in aggregate IDPs shows a richness of nanometer-scale detail that is studied by microscope techniques. Experimental analog studies include condensed ‘silicate’ and ‘carbon’ dust analogs and serve as the starting point to unravel the complex and chaotic histories of individual IDPs. They thus define the nature of the solids and processes during solar nebula evolution and proto-planet modifications in the early solar system. The study of IDPs provides a unique window to the onset of mineralogical evolution in the solar system and an opportunity for fundamental research in petrology.

b. Chondritic Meteorites (Funded by NASA)

Our studies of chondritic meteorites emphasize petrologic studies of individual chondritic components, particularly chondrules and isolated grains. Our goals are to investigate the early history of the solar system by determining the nature of events that took place in the solar nebula, as well as on chondrite parent bodies after accretion. We include studies of primitive nebular material such as chondrules from carbonaceous chondrites, as well as a study of the nature of thermal metamorphism on chondrite parent bodies. Our studies emphasize microbeam techniques (EMP, SEM, TEM, and SIMS) that enable us to interpret the detailed petrography of complex objects. In addition, we collaborate with other laboratories to obtain isotopic data. This provides powerful insights into the chondrite record of early solar system events. As a complement to these petrologic studies, we also perform experiments that help to interpret mineralogical problems in chondrites and other planetary samples.

c. Microbeam Studies of the Martian Meteorites (Funded by NASA)

This study involves the analysis of spinel group minerals and olivine in the SNC (martian) group of meteorites with EMP, TEM, and SIMS techniques. The objective of the study is to gain insight into martian igneous processes, particularly with regards to oxygen fugacity, trace element distribution, and melt character. Complementary experimental work is being carried out at NASA’s Johnson Space Center in Houston.

The primary focus of the research so far has been determining the oxygen fugacity of equilibration of the basaltic shergottites. Oxygen fugacity is
important because variations in oxygen fugacity affect the composition of the melt and coexisting phases, as well as the pressure and temperature of melting. Models for determining oxygen fugacity are based on mineral equilibria that commonly involve spinels. There are two such models applicable to the lithologies represented by the martian meteorites. The first involves spinel and ilmenite, and the distribution of Fe and Ti between them. The second involves spinel, olivine and pyroxene. EMP analysis is the primary means by which compositional information is obtained for these minerals for the purpose of determining oxygen fugacity. We are also using the independent technique of determining ferric iron content with TEM-EELS (electron energy loss spectroscopy).

d. Lunar Studies (Funded by NASA)

Our lunar studies focus upon the use of basaltic magmas to decipher lunar mantle processes. We are addressing several problems: 1) We are studying the melting of hybridized, ilmenite-bearing, mantle cumulates through a quantitative, high-pressure experimental approach. We are examining the relationships between depth of melting, degree of melting, liquidus phases, melt composition, and the trace element composition of the melt. 2) The lunar mantle is heterogeneous with regards to radiogenic W. One major question concerning the notion that the lunar magma ocean (LMO) is responsible for Hf/W fractionation on the Moon is the uncertainty regarding the partitioning of these elements into the phases involved in LMO crystallization. Our observations suggest that ilmenite and clinopyroxene are candidate phases that may account for the fractionation of Hf from W. 3) Determining the relative ratios of highly siderophile elements in planetary mantles may provide valuable information regarding core segregation, crustal evolution, and late accretionary processes. We are examining the Re-Os isotopic systematics of lunar orange and green glasses in order to constrain the Os isotopic evolution of deep lunar mantle reservoirs. 4) After the early anorthositic lunar crust formed and consolidated, it was intruded episodically by slightly younger magmas. One of the products of this younger magmatism is referred to as the Mg suite. Our studies focus upon defining the contrasting primitive and evolved magmatic chemical signatures in mineral phases in a wide range of pristine Mg suite rocks.
e. Integrated SIMS/TIMS Studies of Martian Meteorites and Lunar Samples (Funded by NASA)

The results of geochronological studies are sometimes ambiguous because many samples, such as martian meteorites and lunar highland rocks, have undergone impact metamorphism that may have disturbed their isotopic systematics. As a result, the meaning of ages determined on these samples is often uncertain. It is therefore important to assess the effects of shock metamorphism and secondary alteration on individual samples that have been analyzed for Rb-Sr, Sm-Nd, and U-Pb. We use SIMS, EMP, and thermal-ionization mass spectrometry (TIMS) in concert on identical mineral fractions of martian meteorites and lunar samples in order to assess the effects of impact metamorphism and secondary alteration on individual Rb-Sr, Sm-Nd, and U-Pb isochrons. From these analyses, we hope to better constrain the timing of volcanism on Mars and the formation of the earliest lunar crustal rocks.

f. Planetary Biomarkers (Funded by NASA)

Carbon, sulfur, hydrogen, and nitrogen isotopes may be used as biomarkers for both martian and terrestrial samples. We are undertaking a multidisciplinary program of assessing isotopic biomarkers in well-characterized terrestrial material. Critical to any study of martian materials will be the ability to determine isotopic heterogeneities at the sub-millimeter scale and to place these within a geological and biological context. We will exploit our world class stable isotope laboratory and SIMS facility to assess heterogeneities in the products of laboratory experiments and in natural materials. Low temperature, kinetic processes can cause extreme isotopic heterogeneities, and ion probe and laser microprobe techniques are invaluable for assessing their fine-scale variability. A less frequently addressed question is the degree to which heterogeneity occurs in rapidly-heated, high temperature chemical breakdown reactions. Can heterogeneities similar to those found in biological materials be produced under rapid, kinetic, high-T conditions? Can isotopic signatures attributed to biogenic activity be preserved in these types of environments? These questions will be addressed using a range of experimental approaches. Our plan of research entails studying natural materials and synthetic analogs in order to determine
characteristic isotopic signals of biomarkers and methods by which such signals may be mimicked by non-biologic processes.

g. Space Science Education for New Mexico MESA Students (A project funded by NASA’s Pre-College Awards for Excellence in Mathematics, Science, Engineering and Technology (PACE/MSET) program)

The “Space Science Education for New Mexico MESA Students” project provides 4,800 under represented students and their teachers in NM MESA (New Mexico Math Engineering and Science Achievement) with access to space science resources at the University of New Mexico. NM MESA is a well-established and highly successful program for students of middle and high school age, which encourages them to pursue the pre-college track in math and science.

The project involves both classroom activities and a trip to UNM or access to UNM equipment. The interaction with the students occurs in two primary ways. The first is the Outreach and Laboratory Visit Program for classes that can come to UNM, and the second is the Space Technology Academy for students in outlying regions of the state. Last year we provided in depth programs for 1059 students, a substantial increase over the 500 students reached in the first year. The annual MESA Jamboree provided direct contact between our personnel and the entire MESA student membership of 4,800. In the Outreach and Laboratory Visit (OLV) program, UNM scientists and university students, preferably minority science or engineering students, present and lead inquiry-based activities at the students’ schools to teach important concepts and research skills in space science. The classroom activities culminate with a trip to UNM. Teachers receive training during MESA meetings on activities and science content. They learn how to include additional activities and possible extensions in areas such as Math, which can be applied to their regular classes, as well as their MESA groups. In the Space Technology Academy, students in outlying portions of the state participate in activities such as meteorite sample identification. Parent involvement includes content based programs at the Fall open house meetings at individual schools, and involvement in the Space Technology Academy programs.
h. Impact Crater Hydrothermal Systems (Funded by NASA – Planetary Geology and Geophysics Program)

This project involves the study of processes involving water and impact craters on Mars, using remote sensing data and terrestrial analogues. Hydrothermal systems are good locations to search for evidence of biotic or prebiotic chemistry. Hydrothermal systems may also be connected with the formation of the Martian soil, and the climate history of Mars. Lakes in large impact craters on Mars could have been associated with hydrothermal systems and heated by impact melt. Finally, impact craters may provide the most accessible samples of hydrothermal systems on Mars for robotic investigation and sample return. Hydrothermal processes on Mars could cause the enrichments of mobile elements in the Martian soil as measured by Viking and Pathfinder. Studies of terrestrial analogue craters can provide important insight and constraints into processes involving impact craters on Mars. Most of the well-studied terrestrial craters are in more siliceous rocks than generally expected on Mars, often with the complication of substantial sedimentary cover. To avoid these problems, we are studying the deposits at the Lonar Crater, India, which is the only large terrestrial crater formed in a basaltic terrain. The investigation of the Lonar Crater impact melts will provide information on the formation of a crater in a basaltic terrain analogous to Mars. The mineralogy and chemical transport processes at the crater will be investigated using well-established techniques, including SEM, EMP, and stable isotope studies. The mineralogy and chemistry of the iron-oxide minerals in the Lonar crater will also be studied in collaboration with Dr. Richard Morris of Johnson Space Center. The data from the Lonar Crater will be compared with data obtained by the Mars Global surveyor and Viking Spacecraft on Mars to better understand aqueous processes involving impact craters on Mars.

i. Exploring the Solar System, a Research and Activity-Based Course for Teachers (Funded by the New Mexico Collaborative for Excellence in Teacher Preparation, an NSF supported project)

The course “Exploring the Solar System, a Research and Activity-Based Course for Teachers” was taught July 6, 1999 – July 30, 1999. The goals of the project were to provide planetary science content, and curriculum materials in the form of active learning activities that emphasize investigation
and inquiry. The instruction team included the principal instructor Dr. Horton Newsom, a teaching assistant Mr. Todd Burdalis, and Dr. Kathryn Powell from the College of Education provided oversight on selection and development of curriculum directed at teachers. During the course, at least 16 different activities or demonstrations were conducted, many involving cooperative learning. These activities ranged from an activity with Hula Hoops for understanding eclipses, to a gelatin volcano to understand the role of dikes, to a star party at the campus observatory for actually observing the planets. Evaluation of the success of the course involved pre and post surveys, as well as informal evaluation and interviews. The results of the post-course survey indicated that the emphasis on the use of manipulatives, hands-on demonstrations, and distribution of activities was strongly endorsed by the education students.

j. Site Selection Studies, Parana Basin, Margaritifer Sinus Region of Mars
(Funded by NASA, SETI Institute)

This project represents the work on the completion of mapping of hydrothermally influenced impact craters near Parana Vallis, Margaritifer Sinus region of Mars, with Dr. Jack Farmer. We will provide information about the potential for hydrothermal activity involving impact craters in potential Mars Landing sites. Impact craters have the potential to be important sources of near-surface hydrothermal deposits that are key sites for the search for life on Mars. The most likely timeframe for looking for evidence of life on Mars is during the earliest Noachian period on Mars, dating back to the period of heavy bombardment prior to 3.5G years ago, when water was more abundant. During this time when small valley networks formed, surface erosion occurred at a rate 10 to 1,000 times greater than present. A warmer climate and a denser atmosphere is usually assumed for this time period. During this ancient period the formation of impact craters was a major source of heat for hydrothermal systems. In addition to impact melt, the central uplift provides a source of geothermal heat, and may represent the best location to obtain deep mantle samples. The combination of hydrothermal systems and impact crater lakes, where turbidite sedimentation can preserve evidence of life, will be an important environment for future exploration. These hydrothermal systems and lakes will be supplied by ground water that could carry in preexisting organisms from deep aquifers.
Thus, the impact craters could represent Petri dishes for the culturing and preservation of life on Mars.

**k. Geomicrobiological Interactions of Microbial Communities in Cave Deep Subsurface Environments: A Novel Extreme Environment (Funded by Life in Extreme Environments (LEXEN) Program of NSF)**

Caves offer accessible subterranean environments in which to study the diversity of microbial life. These ecosystems are exposed to extreme environmental stresses and may be based on inorganic energy sources rather than sunlight. An excellent example of subterranean microbial life is found in Lechuguilla Cave (New Mexico), the deepest cave in the continental United States. Lechuguilla Cave, an immense, ancient cave in near pristine condition, contains sulfur, iron, and manganese deposits and extremely low nutrient environments harboring diverse microbial life. The carbonate wallrock and overlying corroded limestone provide an excellent model for studying how life has survived, adapted, and altered this rock environment. Preliminary evidence suggests that the diverse community of microorganisms inhabiting corrosion residues includes fungi and bacteria that live by using manganese and iron. As collaborators with Professor Clifford Dahm of the Biology Department, we are investigating the nature of the unusual microorganisms present, the means by which they adapt to their extreme environment, the energy sources that they use, and the overall level of biological activity of the communities. Because of the potential for subsurface life on other planets and possible chemical similarity to Lechuguilla Cave, our research also explores the relevance of cave communities to those that may exist elsewhere, including Mars.

**l. Impact Cratering, Volcanism, and Volatile Transport on Mars (Funded by NASA, Jet Propulsion Laboratory).**

This project will provide support for the further development of the Mars Oxidation Experiment and is being developed for further flight opportunities. Extensive work on volatile transport involving volcanic and impact crater processes suggests that the martian soil may be a sink for a large number of volatile elements, including trace metals of great health concern to future human exploration. On Mars, hydrothermal systems driven by heat from impacts and volcanism will concentrate volatile elements at the surface.
contrast to the Earth, these enriched elements will not be transported to the oceans by extensive fluvial action and erosion. This project involves creating a model of the expected enrichments of minor elements in the Mars soil from impact and volcanic processes. The different components include chondritic material, fumarolic deposits, and mobile elements released by chemical alteration and transported into the martial surface. This approach will allow the use of the available Martian and terrestrial analog data to constrain the abundance of elements not directly measured.

2. **Grants and Contracts**

Table 1 documents that IOM was well funded by NASA and NSF during FY 99/00. Grant contract expenditures totaled $566,700. IOM continues to enjoy healthy grant/contract support in these times of rigorous competition and limited budgets in the major funding agencies.
<table>
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<td>NASA</td>
<td>Microbeam Studies of Planetary Materials. (MRA 97-282)</td>
<td>J. Papike/Borg, Shearer Jones</td>
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<td>NASA</td>
<td>Petrology of Presolar Dusts and Alteration in Chondritic IDPS (NAG5-4441)</td>
<td>F. Rietmeijer</td>
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<td>NASA</td>
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<td>H. Newsom</td>
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<td>NASA</td>
<td>Biomarkers in Astromaterials (NAG9-1111)</td>
<td>J. Papike</td>
<td>50K</td>
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<tr>
<td>NSF</td>
<td>Support of UNM/SNL Ion Microprobe Facility. (EAR 9506611)</td>
<td>J. Papike/Shearer</td>
<td>43.8K</td>
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<td>NASA</td>
<td>Spinels as Recorders of Planetary Basalt Evolution: Martian Samples (NGT 9-31)</td>
<td>J. Papike/Herde</td>
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<td>NSF</td>
<td>Geomicrobiological Interactions of Microbial Communities in Deep Cave Subsurface Environments: A Novel Extreme Environment. (DEB-980906)</td>
<td>Dahm, Boston, Crossey Northrup, Spilde</td>
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<td>NASA</td>
<td>Martian Impact Crater Hydrothermal Systems-Clues from the Lonar Crater (NAG5-8804)</td>
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(Members of IOM in bold print; an asterisk [*] used for student authors)


4. **Abstracts of Papers Presented at Professional Meetings – July 1, 1999 to July 1, 2000** (Members of IOM in bold print; student authors indicated with [*])


Rietmeijer, F.J.M., and J.A. Nuth III (2000) Predictable metastable eutectic behavior to constrain the silicate dust in circumstellar atmospheres and interplanetary dust particles with constraints on comet dust analogs. IAU Colloquium 181, COSPAR colloquium 11, Dust in the solar system and other planetary systems, p. 64.


5. **Professional Travel by IOM Personnel**

**July 12-14, 1999.** Review panel meeting for the NASA Non-Advocate Review Committee, Surface systems Thrust of the NASA Cross enterprise Technology Development Program, Oxnard, CA. H.E. Newsom


**August 1-5, 1999.** Attended 57th Annual Meeting of the Microscopy Society of America/Microbeam Analysis Society, Portland, OR. M.N. Spilde.

**August 22-27, 1999.** Attended 4th International Symposium on Subsurface Microbiology, Vail, CO. M.N. Spilde.

**September 21-24, 1999.** Lunar Initiative Workshop in Flagstaff, AZ. J.J. Papike.

**October 1-3, 1999.** Field sampling in Spider Cave and presented talk at Carlsbad Caverns National Park. M.N. Spilde.


**October 14-16, 1999.** Meeting with FBI to prepare to testify as an expert witness for the prosecution on a bogus Moon rock sale attempt. J.J. Papike.


October 30, 1999. Presented a paper “Constraints on the nature of common presolar dust based on observations of collected cosmic dust and vapor condensation experiments” at the 15th Annual New Mexico Local Symposium, the National Radio Astronomy Observatory, Socorro, NM. F.J.M Rietmeijer.


April 16-19, 2000. Member of the Scientific Organizing Committee and presenter of an invited lecture at the Leonid 1999-MAC Workshop, University of Tel Aviv (Israel). F.J.M. Rietmeijer.


SECTION II

FACILITIES

Institute of Meteoritics 1944

UNIVERSITY OF NEW MEXICO
II. FACILITIES

1. Curation and Meteorite Museum

As in previous years, the Meteorite Museum has been an important educational and recreational attraction on campus and has been visited by many school groups and tourists. Public interest in the museum and meteorites received considerable stimulation as a result of the announcement in August 1996, of evidence for putative life on Mars and this high level of interest continues. Local interest in meteorites also greatly increased following the fall of the Portales Valley meteorite on June 13, 1998, in Eastern New Mexico. The number of visitors to the museum increased as a result. Our faculty, staff, and students conducted tours for elementary and high schools and other interest groups. The continuing popularity of the Museum and our tours emphasizes the important educational role of this facility for the local community.

The Institute’s collection has continued to be a very important resource for researchers worldwide, and we have been quite active loaning and providing samples to a number of scientists. In addition, the research agenda and teaching activity within the Institute continues to make extensive use of samples from the collection.

During 1999-2000, the Institute was fortunate to obtain samples of several new meteorites that were not previously represented in the Institute’s collection. Several of these samples have been purchased with Institute funds and public donations to the museum. Others have been obtained through exchanges. The Institute’s collection now contains samples of approximately 580 meteorite falls and finds from around the world.

2. Experimental Petrology Laboratory

The experimental petrology laboratory includes two vertical muffle tube high temperature furnaces: a Deltech furnace and an Astro furnace. Both have gas-mixing capabilities and programmable temperature control, and are operational up to 1600°C under a wide range of oxygen fugacities. Several different types of experiments are being conducted, including 1) an investigation of pyroxene microstructures formed at different controlled cooling rates, and during various annealing conditions, 2) measurement of diffusion coefficients, 3) a kinetic study
of olivine reduction reactions and 4) a study of partial melting of an ordinary chondrite.

3. Electron Microprobe and Scanning Electron Microscope Laboratories

Our JEOL 5800LV scanning electron microscope (SEM) and the JEOL 733 electron microprobe lab provide analytical and imaging services for Institute, Departmental, University and other clients external to UNM. The SEM lab in particular enjoys heavy use, although the aging microprobe continues to provide quality analytical results. In addition to training and assisting users on the two instruments, lab personnel also provide analytical service for academic and non-academic clients on an hourly basis.

IOM personnel provided analytical services for a number of academic and non-academic clients in 1999-2000. Analysis and other work was performed by J. Karner and M.N. Spilde for the following internal academic clients:

- U. Bhimavarapu, Center for Microengineered Materials (microprobe)
- C. Braunbarth, Chemistry & Nuclear Engineering Dept. (SEM & microprobe)
- L. Crossey, Department of Earth & Planetary Science (SEM)
- H. Fan, Chemistry & Nuclear Engineering Department (SEM)
- R. Garza-Molina, Department of Earth & Planetary Science (SEM)
- J. Husler, Department of Earth & Planetary Science (SEM)
- K. Kim, Mechanical Engineering Department (SEM)
- V. King, Anthropology Department (SEM)
- B. Kues, Department of Earth & Planetary Science (SEM)
- R. Lohman, Chemistry & Nuclear Engineering Dept. (SEM & microprobe)
- T. Lowery, Biology Department (SEM)
- J. Luke, NM Engineering Research Institute (SEM)
- T.D. McCarson, Department of Physics & Astronomy (SEM & microprobe)
- H. Newsom, Institute of Meteoritics (SEM)
- J. Pederson, Department of Earth & Planetary Science (SEM)
- N. Olsen, Anthropology Department (SEM)
- Z. Sharp, Department of Earth & Planetary Science (SEM)
- G. Smith, Department of Earth & Planetary Science (SEM)
- J. Zhang, Chemistry & Nuclear Engineering Dept. (SEM & microprobe)
- H. Xu, Department of Earth & Planetary Science (SEM)
Analysis were conducted for the following external academic clients, commercial clients and government agencies:

- Cronkite-Ward (for Discovery TV Channel), Washington, DC (SEM)
- Environmental Robotics, Albuquerque, NM (SEM)
- Innovative Technology Solutions Corp., Albuquerque, NM (SEM)
- Los Alamos National Laboratory (SEM & microprobe)
- Public Broadcasting Service, Nova Program (SEM)
- QM Technologies, Albuquerque, NM (SEM)
- Sandia National Laboratory (SEM)
- SiNaF, Inc., Albuquerque, NM (SEM)
- Solv-Ex, Inc., Albuquerque, NM (SEM)
- Sumner Associates, Albuquerque, NM (SEM)
- Superior Micropowders, Albuquerque, NM (SEM)
- TPL Inc., Albuquerque, NM (SEM & microprobe)
- University of Memphis (microprobe)
- University of North Dakota (SEM)
- Western Illinois University (SEM)

The microprobe currently has thirteen Departmental and IOM users. The SEM has twenty-five users from UNM, NM Tech, Sandia National Lab, NM Museum of Science and Natural History, along with a number of trained commercial users. Seven new users were trained on the microprobe and ten on the SEM this year.

In addition to providing analytical services to the community and training for graduate students and faculty/staff users, the labs are also involved in educational classes and public outreach programs. Presentations of general science interest were given to middle and high school classes and other groups. Throughout the year, we hosted ten different school groups, most of which were part of the MESA Program. In addition, we also hosted a UNM class, and Anthropology 570 (Ceramic Analysis Class), for lectures and demonstrations.

4. **The UNM/SNL Ion Microprobe**

A CAMECA IMS 4f Secondary Ion Mass Spectrometer (SIMS), originally purchased by Sandia National Laboratories (SNL) in 1989, is located in the Advanced Materials Laboratory on the UNM South Campus. This instrument is used primarily for trace level (ppb range) chemical analyses on small (<30...
micrometers) areas. In addition, it is also used for determining the isotopic signatures of small domains within geochemically significant specimens. This machine is also used for determining high resolution (< 10 micrometers) chemical depth profiles within geological and engineered materials. This instrument is jointly operated and managed by IOM and SNL Department 1823. The IOM operator is Charles Shearer.

Since mid-1993 the Facility has been funded by the National Science Foundation as an external user facility (Facilities and Instrumentation Program). A request for an extension was submitted to NSF in December 1996 (PIs: Papike and Shearer). This application was successful and the current arrangement is funded through July 2000.


- Brearley, Adrian, UNM
- Dyer, M. Darby, Mount Holyoke College
- Grew, Ed, University of Maine
- Guidotti, Charles, University of Maine
- Heikoop, Jeff, Los Alamos National Lab
- Hickmont, Don, Los Alamos National Lab
- Jones, Rhian, UNM
- McKay, D., JSC
- McKay, Gordon, Johnson Space Center
- Nielsen, Roger, Oregon State
- Rao, M.N., JSC
- Righter, K., University of Arizona
- Schwandt, Craig, Johnson Space Center
- Silverstone, Jane, UNM
- Sours-Page, Rachel, Oregon State
- Spilde, Mike, UNM
- Taylor, Larry, University of Tennessee
SECTION III

TEACHING
III. TEACHING

1. Courses Taught

Summer 1999


Fall 1999


EPS 519L “Selected Topics in Geochemistry”, one lecture, R.H. Jones.

EPS 402, “Environmental Mineralogy” taught by F.J.M. Rietmeijer (Guest Lectures).


Spring 2000


ANTH 570 “Ceramic Analysis Class” guest lecture and SEM/microprobe demonstration on March 28, 2000. M.N. Spilde

2. Student Committees

Graduate Student Advisement

<table>
<thead>
<tr>
<th>Student</th>
<th>Committee</th>
<th>IOM Committee Members</th>
</tr>
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<tbody>
<tr>
<td>Justin Hagerty</td>
<td>M.S.</td>
<td>J.J. Papike (Academic Advisor)</td>
</tr>
<tr>
<td></td>
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<td>H.E. Newsom (Research Advisor)</td>
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3. Progress of Earth and Planetary Sciences Department Graduate Students Supported by IOM

Justin Hagerty completed the second year of his Master's degree program and intends to graduate in December 2000. The focus of his research is to use the Lonar Lake impact structure in Maharashtra, India as an analogue for similar craters on the surface of Mars. This work will provide information concerning hydrothermal alteration products and the formation of the Martian soil. Justin also worked in conjunction with Dr. Horton Newsom to create and provide educational outreach activities for middle school students.

Justin attended the 31st Lunar and Planetary Science conference in Houston, Texas where he gave an oral presentation titled, “Hydrothermal activity at the Lonar Lake impact structure: Implications for the formation of the Martian soil.” He also presented a poster titled “Addressing the misconceptions of middle school students about becoming a scientist or engineer.”
Chris Herd is actively pursuing his Ph.D, and expects to graduate in the spring of 2001. He has completed the first section of his dissertation, focusing on the oxygen fugacity of the martian basalts, and has submitted the results to American Mineralogist for publication. Ion Probe work on Ni and Co in martian olivines continues, with initial results presented at the Lunar and Planetary Science Conference in Houston in March. Experiments with Dr. John Jones at Johnson Space Center continued after the March meeting, with results expected to produce a paper in the near future. Development of spinel standards for Ion Probe analysis is in progress.


An oral presentation was given at the Geological Society of America Annual Meeting titled, “Implications for the petrogenesis of martian meteorite Dar al Gani 476 from spinel, olivine and pyroxene compositions”.

An oral presentation was given at the 2nd Canadian Space Exploration Workshop titled “Canada’s Potential Role in Martian Materials Research: Examples from Petrologic Studies of Martian Meteorites”.

An oral presentation was given at the 31st Lunar and Planetary Science Conference titled, “Experimental constraints on the Cr content, oxygen fugacity and petrogenesis of EETA 79001 Lithology A.”

Jim Karner is currently working on his dissertation while working part time as the laboratory technician in the Microprobe and SEM labs. His dissertation focuses on the major, minor, and trace element chemistry of silicate minerals in basalts in a comparative planetology study. Jim was recently awarded a New Mexico Space Grant Consortium fellowship that will help fund his research.

Jim also volunteers his time to a couple of the Institute’s public outreach activities. He works with Dr. Horton Newsom and Justin Hagerty in designing and implementing space-based inquiry activities for middle school students involved in the MESA program. Jim also assists Dr. Rhian Jones in analyzing and identifying suspect meteorite samples as a public service to anyone who brings or sends their samples in.
SECTION IV

DEPARTMENTAL AND UNIVERSITY ACTIVITIES

Institute of Meteoritics
1944

UNIVERSITY OF NEW MEXICO
IV. DEPARTMENTAL AND UNIVERSITY ACTIVITIES

**R.H. Jones**
Manager of Experimental Petrology Laboratory
Curator of Meteorite Collection

**H.E. Newsom**
Member, New Mexico Space Grant Faculty Advisory Board
Educational Outreach Coordinator and Director of TOPPS (Training and Outreach Programs in Planetary Science), for the Institute of Meteoritics
Research Scientist Representative to Earth and Planetary Science Faculty Meetings, Fall, 1999
Graduate Committee Member for the following College of Education Ph.D. graduate students: Bill Robertson and Carmen Sorge.

October 29, 1999, Presented two invited talks in the Department of Physics and Astronomy, University of New Mexico. The talks were entitled "Hot springs on Mars? Recent work on aqueous environments suitable for the origin of life on Mars, and aspects related to the origin of the Martian soil", and "University based educational outreach programs, what is our role?"

**J.J. Papike**
Director of the Institute of Meteoritics
Member of Earth and Planetary Sciences Facilities Committee
Chair, Earth and Planetary Science Long Range Planning Committee

**F.J.M. Rietmeijer**

December 10, 1999 “Green Chili Seminar” speaker, presented a talk “Is there something we should know about comets Halley, Hale-Bopp, and LINEAR and the Leonid meteors?”
C.K. Shearer

Manager, SIMS Laboratory

Member of Earth & Planetary Sciences Facilities Committee

M.N. Spilde

Manager of the Electron Microprobe and Scanning Electron Microscope Labs

Served on Department of Earth & Planetary Sciences Computer Committee

Visitors to IOM


September 29, 1999 - December 24, 1999. Susanne Klerner, PhD student, University of Köln, Germany. Visited Rhian Jones to collaborate on chondrite research.

October 11-13, 1999. Professor Ulf von Zahn, Director of the Leibnitz-Institute of Atmospheric Physics in Kuehlungsborn, Germany presented a talk entitled “Studies of the densities of Fe, Ca, and K atoms in Meteor trails by ground-based LIDARS”.

October 12, 1999. Dr. Ed Murad, Space Hazard Branch, Air Force Research Laboratory, Hanscom AFB, Massachusetts.

October 12, 1999. Dr. Roger Wiens, Los Alamos National Laboratory presented a talk and met with IOM personnel.

October 27-30, 1999. Professor Janusz Janeczek, Faculty of Earth Sciences, The Silesian University, Katowice, Poland, presented a talk entitled “Natural Fission Reactors at Oklo two billion years later – What we have learned about their Mineralogy and Geochemistry”.

38
November 9, 1999. Michael Henderson of the University of Manchester, UK.

November 21-24, 1999. Dr. Leslie Melim of Western Illinois University, collaborated with M.N. Spilde on geomicrobiological research on the SEM.

December 2-3, 1999. Dr. Alan Boss of the Carnegie Institute of Washington, presented a joint talk with the Department of Physics and Astronomy and met with IOM personnel.


March 2, 2000. Dr. Nicolaus Hanowski, Earth and Planetary Scientist, German Aerospace Center (DLR), Germany.


May 5, 2000. Jamie Gilmour of the University of Manchester. Visited Rhian Jones to discuss chondrite research.
SECTION V

PROFESSIONAL ACTIVITIES

Institute of Meteoritics 1944

UNIVERSITY OF NEW MEXICO
V. PROFESSIONAL ACTIVITIES

In addition to the activities listed below, members of IOM reviewed numerous manuscripts for international journals and proposals submitted to federal funding agencies.

R.H. Jones


H.E. Newsom


Review panel member, NASA Non-Advocate Review Committee, Surface Systems Thrust of the NASA Cross Enterprise Technology Development Program.


Scientific team member for the 1999 Marsokhod Rover test, Ames Research Center.


May 16, 2000, Presented a talk at the New Mexico Museum of Natural History “Where to look for life on Mars”.

J.J. Papike

PROFESSIONAL ACTIVITIES

Chair, NASA Curation and Analysis Planning Team for Extraterrestrial Materials (CAPTEM) 1997-1999.


Received Outstanding Achievement Award from the University of Minnesota, 1999.

Member NASA Space Science Advisory Committee (SScAC) 1999 – 2002.

F.J.M. Rietmeijer

Panel Member, NASA Johnson Space Center Cosmic Dust Working Group, 2000.


English Language Volunteer Editor for the American Geophysical Union.

C.K. Shearer

USRA member of the review committee for the Lunar and Planetary Institute.

Organizer for AGU theme session, “Peter Robinson Symposium” and MSA Associate Editor.

Convener and organizer for Moon II Workshop held in Flagstaff, Arizona, September, 1999.

Convener and organizer for Moon III Workshop to be held in Houston, Texas, October, 2000.

Member, NASA Curation and Analysis Planning Team for Extraterrestrial Materials (CAPTEM) 2000.

Member, NASA Cosmochemistry Review Panel (CCRP) 2000.

Mike Spilde

Served as President of the New Mexico Microbeam Users Group.
SECTION VI

EDUCATIONAL OUTREACH

AND

PUBLIC SERVICE

Institute of Meteoritics
1944

UNIVERSITY OF NEW MEXICO
VI. EDUCATIONAL OUTREACH AND PUBLIC SERVICE

1. Meteorite Museum

The Meteorite Museum is the most important focus of the Institute of Meteoritics' educational outreach. Several thousand people of all ages visit the Museum each year and many school parties visit the Museum to enhance scientific projects in Earth Sciences and Solar Systems studies. IOM personnel commonly volunteer to give guided tours of the Museum and laboratories to groups of visiting students, from preschool age to senior citizens.

Several members of IOM have visited schools in the area to give talks on various aspects of planetary sciences. IOM had a meteorite exhibit at the Albuquerque Gem and Mineral Club Show March 23-26, 2000. We also participated in Astronomy Day held at Coronado Center on April 29, 2000, and the exhibit generated considerable interest. In addition to the public education provided by the Museum, we are routinely consulted by members of the public to help identify suspect meteorites and to provide information on meteorites and associated phenomena. During the period of this report, we examined over 200 samples, five of which have proved to be meteorites. We have met and corresponded with numerous people from all over the world in providing this service.

2. Public Service

J. Hagerty

Coordinated and conducted tours of SEM laboratory and meteorite museum.

Traveled to local middle schools (Albuquerque, Socorro, Belen) to conduct inquiry-based outreach activities.

Represented the Institute of Meteoritics at the MESA Jamboree.

C. Herd

Assisted with Astronomy Day activities at Coronado Mall, April 29, 2000.
R.H. Jones

Coordinated and conducted tours of the Meteorite Museum for visiting schools, UNM students, as well as other interested groups.

Identified numerous suspect meteorites received in the mail from members of the public and answered telephone and e-mail queries. Also, met with people who personally brought in samples for examination.

Set up and coordinated the IOM meteorite exhibit at Astronomy Day, Coronado Mall on April 29, 2000.

Worked with the Lodestar Astronomy Center at the NM Museum of Natural History and Science to obtain a lunar rock sample for exhibition. Also provided a martian meteorite sample from the IOM collection for display.


Jim Karner

Identified numerous suspect meteorites received in the mail from members of the public and answered telephone and e-mail queries. Also, met with people who personally brought in samples for examination.

Assisted in developing and performing educational outreach activities for the MESA program, a science and math initiative for middle school students.

H.E. Newsom

Educational Outreach Coordinator, Institute of Meteoritics.

Developed educational outreach programs for the Institute of Meteoritics, funded by NASA (see description of funded programs under “Research”).

Assisted with Astronomy day activities at Coronado Mall, April 29, 2000.

Assistant Scoutmaster, Space Sciences and Astronomy Merit Badge Advisor, Boy Scout Troop 119, Albuquerque, NM.
EDUCATIONAL OUTREACH AND PUBLIC SERVICE

Met with numerous members of the public who brought in suspect meteorites.

I.J. Papike

Numerous discussions with the media concerning planetary issues.

F.J.M. Rietmeijer

“Astronomy Day in the Mall” a UNM initiative, 2000.


C.K. Shearer

Conducted tours of ICP-MS and SIMS labs.

M.N. Spilde

Assisted two film crews with on-site filming of the SEM and provided SEM images for several publications and TV programs.

Presented a program for Cave Resources Office at Carlsbad Caverns National Park (co-presented with Dr. Penny Boston and Diana Northup), October 2, 1999.

Presented a public talk at Carlsbad Caverns National Park: “The search for life on other planets, right here at Carlsbad Caverns,” as part of the Park Week Program, a series of public lectures presented by the National Park Service, April 16, 2000.


Presented a talk to state and national cave resource managers: “Geologic and mineralogic significance of caves” at the National Speleological Society 2000 Meeting, Elkins, WV, June 28.
SECTION VII

PUBLICITY
VII. PUBLICITY

1. Departmental Activities

During the year, IOM has seen a continued increase in the number of inquiries concerning suspect meteorites, as well as general information concerning the composition of meteorites, where to search for meteorites, etc. This in turn has created media attention toward our department. Our staff participates and cooperates with the various newspapers, periodicals, radio and television requests to the best of our ability and resources.

Rhian Jones


March 1, 2000. Interviewed by Bill Wood, Channel 13, in Meteorite Museum.

Horton Newsom

Discussed background science for different topics with reporters from the BBC, and with Science Reporter John Fleck of the Albuquerque Journal.

F.J.M. Rietmeijer


M.N. Spilde

Appeared in the January 2000 issue of the National Geographic Magazine in an article entitled: "Life Beyond Earth."

Filmed by PBS TV film crew as part of a NOVA program on cave research, August 20, 1999. The program is expected to air in 2001.

Filmed by Cronkite-Ward independent film crew as part of a Discovery Channel program on caves, October 5, 1999. Program will be aired in July 2000.

Interviewed by Houston Chronicle for an article in the Sunday Special "Texas" Section on cave research. Will be published in July 2000.

Subject of article in High Country Herald (South Dakota) about cave research, February 2, 2000.
ANNUAL REPORT

Department of Economics
University of New Mexico

July 1, 1999 – June 30, 2000

Richard Santos
Chair
THE ANNUAL REPORT OF
THE DEPARTMENT OF ECONOMICS
July 1, 1999 – June 30, 2000
Richard Santos, Chair

1. Significant Developments During the 1999-2000 Academic Year

Received funding grant from NSF to upgrade computer lab. Acquired 21 workstations, experimenter's station, and server. Other items for purchase consideration include projector and screen.

Professor Donald V. Coes joined the Economics Faculty, January 2000. His academic line was transferred from the Anderson School of Management to the Economics Department. His specialties are macroeconomics and international, with an emphasis on Latin American Economics.

David S. Brookshire completed his term as Department Chair, effective July 2000. Richard Santos will be the new Department Chair, effective August 2000.

2. Significant Plans and Recommendations for the Near Future

Graduate Program Review scheduled for Fall 2000. Major effort this summer to prepare for review including creation of self-study.

3. Publications

Twelve of the department faculty had 15 journal articles in the 1999 calendar year.


4. Outside Professional Activities

Ten faculty members presented fifteen papers at professional meetings in the 1999 calendar year.


Krause, C. 1999. “The Economic World of Children” Transition from Childhood to the Workforce conference sponsored by the National Science Foundation, Birmingham, Alabama, August.


Nine faculty members were invited speakers to universities in the 1999 calendar year.


Other Outside Professional Activities for 1999 Calendar year.


Brookshire D. 1999. Program Reviewer for Environmental Protection Agency, integrated Assessment of the Positive and negative Consequences on the United States of Climate Change and Climate Variability.


Sauer C. 1999. Invited Lecturer “Germany’s Prospects and Problems in the global Economy” German club of Los Alamos and Santa Fe, May.


5. Research Grants and Contracts Funded

The department received the following grants to fund faculty and graduate research during this academic year. Total of $464,005.00

National Science Foundation
“Effectiveness of Safety Regulation: A study of US Coast Guard Inspections, Detection of Violations, and Occurrence of Casualties”
Bohara, A. and Kishore, G.
$69,607.00
June 1999 – August 2000

Water Resources Research Institute
“The Impact of Heterogeneous consumer Response on Water conservation Goals”
Chermak J. and Krause, C.
$14,998.00
1999-2000

US Geological Survey
“Economic Modeling Frameworks Utilizing Earth Science Information for hazard Mitigation”
Brookshire, D. and Ganderton, P.
$200,000.00
October 1999 – October 2000

University of New Mexico Resource Allocation Committee
“An experimental test of Family Bargaining Theory: Investment in Risky Assets”
Krause C.
$2,400.00
November 1999 – September 2000
National Oceanic and Atmospheric Administration
“An Exploratory Assessment of the Potential for Improved Water management by Increased use of Climate Information in Three Western States”
Brookshire D., Howe C., McCool D.
$177,000.00
1999 - 2000

Research Grants and Contracts Funded – Submitted by other departments or institutions that include Investigators and Research Scientists from the Department of Economics

National Science Foundation
“Informing Contingent Valuation Methods with Internet Surveys”
Submitted by David Weimer
Bohara, A., Berrens R., Jenkins-Smith H., Silva C.
$240,000.00
June 1999 – June 2001

John D. and Catherine T. MacArthur Foundation
“The Development of Gender Differences in Risk Taking Behavior”
Krause C. and Harbaugh W. and Vesterlund L.
$5,000.00
July 1999 – December 1999

Office of Naval Research (via Battelle)
Rutstrom, L. (University of South Carolina)
McKee, M

6. Attachments

Bachelor of Arts Degrees Conferred
35 Bachelor of Arts degrees conferred in 1999-2000 academic year.

Master of Arts Degrees Conferred
Henry Bruner
Xiaoguo Hu
Michael Jones
Ji Ying

Doctoral Degrees Conferred
Therese Cavlovic (Berrens) “Valuing the Loss in Access: An Institutional and Welfare Analysis of Rock-Climbing on U.S. Public Lands”

J. Raymond Stuart Award
Graduate Students: Calvin Blackwell, Maurice Moffett, and Manuel Valenzuela. Undergraduate Student: Ramona Murvin.

Distinguished Alumnus:
Stephen McKernan, CEO, University Hospital

Number of Majors

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## Fall Credit Hours by Course Level
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This year the annual report covers the dates above in most categories. In some categories — such as faculty publications, grants, and awards — this report covers the calendar year of 1999. The uncertainty about the dates to be covered in this report stems from former Dean Fischer’s request in March that annual reports be for the calendar year, and later advice that the University would prefer that we use the fiscal year noted above. So I will do both, using either the fiscal or the calendar year where appropriate.

In last year’s annual report, we were looking ahead optimistically to continued increases in Freshman enrollments for Fall 1999 and the beginning, in Spring 2000, of larger classes at the 200 and above level owing to the Freshman class increases of the two prior years. Fall 1999 saw the continued increase in Freshman enrollments, and Spring 2000 saw increased enrollment in 200 level classes, especially in English 219, Technical Writing, and in 220, Expository Writing, classes that fulfill core curriculum requirements.

These increased enrollments brought welcome increases in our production of undergraduate Student Credit Hours (SCH); they also strained our ability to meet student demand in our lower division undergraduate offerings. Where the year before we had hired two Visiting Assistant Professors to meet enrollment increases, in this year we hired eight fulltime lecturers teaching 4-3 loads entirely in Freshman English and core curriculum courses. Even with this augmentation of our faculty, we hired more per-course Part Time Instructors (PTI) than we have ever hired in the past. Our total PTI budget, which covers all instruction by anyone other than tenure track faculty, was significantly greater than has been in years past.

The demand for Freshman English and core curriculum classes should level out if projections of future Freshman enrollments are correct; however, if the percentage of students in these larger classes who choose to be English majors and minors remains what it has been in the past, we will soon see proportionately increased pressure across our undergraduate offerings from lower to upper division levels as more majors and minors move through our curricula.

The fundamental conclusion to draw from this annual report is that our departmental resources are stretched very thin, yet we are amazingly productive in every area of our mission. We staff service courses to meet demand; we staff undergraduate major and minor and graduate courses also to meet demand; we develop innovative approaches to teaching that are delivered on-campus, over the
internet, and in special seminars for a variety of audiences; we publish significant research and creative works in books, refereed journals, and other outlets; we sponsor innovative outreach programs that bring expertise from every area of specialization in our department to the non-academic community; and we win grants, fellowships, and other forms of outside support for all of these efforts.

In the parlance of the business world, we are a very lean and mean organization that relies heavily on outsourced labor (visiting and Emeritus professors, full-time lecturers, PTIs, TAs) to teach nearly all of our service courses and increasingly more courses in our major, minor, and graduate programs. To readers outside the department, the lists of our achievements in this report must seem something in which we would take pride and be quite satisfied to congratulate ourselves on our "productivity." No. I sense that, as a department, the "lean and mean" quality I point to above is on the verge of making us just plain mean, and angry.

I field comments from discouraged colleagues almost daily to the effect that, in the past several years, they have been asked continually to do more with less, and I agree with that assessment: we have done more and more with less and less for year after year over the past decade.

We face this dispiriting fact at nearly every turn nearly every day, from the seemingly minor request that we photocopy out of our departmental budget memos from administrative offices that they request be distributed to the department, to the very major, disturbing reality that in this year four regular faculty members and one crucial half-time faculty member have left our department, and we will hire in two new faculty for Fall 2001, with the promise that one more line out of this group should come in Fall 2002, and the near certainty that one regular faculty line from this group is gone, the money reallocated somewhere else in the university's budget. The need for more fulltime faculty teaching broadly across our curriculum is greater than it has ever been. That need is, in my judgment, the most urgent problem facing the department. We cannot continue to increase the "outsourcing" of our faculty if, for one thing, the quality of the Freshman and Sophomore experience at UNM — the core curriculum — is meant to include, as administrators tell us it should and we agree, significant contact with regular faculty members.

"Teaching broadly across our curriculum" also includes graduate teaching, where we face problems created by the separation of key faculty. When we cannot even hire to keep our strength standing in place, the demands that enrollments make on our undergraduate programs, on Freshman English, and on our core curriculum offerings must be weighed against our need to offer a viable graduate program, not only in the areas we wish to emphasize, but also across the breadth of the study of language and literatures in English and in rhetoric and writing that a university PhD program of our stature should offer.

With the faculty numbers we have now, addressing the curricular demands of our broadly defined mission is just barely possible. In the year ahead, our department
will engage in discussions aimed at re-assessing our strengths and our weaknesses and, in that context, possibly re-defining our mission. It may be that we will decide to do less in the broad sense so that we can do more in selected areas of emphasis; then again, we may find some other course to follow. We will have to wait and see what action may come from our self-assessment. The information gathered in this report should help guide our departmental discussions.

The information below is organized first according to the headings suggested by Dean Fischer's outline for Departmental Annual Reports distributed in Spring 2000 and, second, in edited versions of reports prepared by the Directors of our several departmental programs.

Departmental Program Directors
Gail Houston (Graduate Director), Charles Paine (FE Director), and Mary Power (Undergraduate Director) completed their first years as directors. Professional Writing Director Rick Johnson-Sheehan and Creative Writing Director Sharon Warner continued in their posts during the period of this report.

Department Staff
DeeDee Lopez took over undergraduate advisement from Ona Savage in a gradual process that began in Spring 1999 and was completed by the beginning of the Fall term. Anh Quach was hired in the late summer 1998 to serve the Department as our Accountant. She took maternity leave early in the Spring 2000 term, and decided not to return to the university. We had not hired a replacement Accountant by the end of the reporting period. Christine Jaramillo was hired as an Administrative Assistant II in August of 1999. Margaret Shinn continued as Department Administrator; Matt Allen continued as Technical Writer.

Faculty Separations, Retirements, Hiring
Professors Patrick Gallacher and David McPherson retired in July 2000; Professor Louis Owens resigned, effective that same date, as did Arts and Sciences Dean Michael Fischer, also a member of our department who, in fact, taught the undergraduate honors seminar (411H) in F99 and was scheduled to teach a 400/500 level course in F2000. Marcia Southwick, for eight years teaching full-time in Creative Writing (poetry) in the fall term only, resigned, effective F2000.

Two newly hired, tenure-track Assistant Professors, Claire Waters (British Literature) and Jesse Aleman (American Literature) joined the faculty in Fall 1999.

Catherine Ramirez (American Literature) taught for the department as a PTI during the academic year, and, through a spousal hiring process offered to the department by the Dean of Arts and Sciences (her husband, Professor Eric Porter, is an Assistant Professor in the American Studies Department), was offered a tenure-track line to begin Fall 2000, which she accepted in April.
In May, Professor Susan Romano accepted appointment as an advanced Assistant Professor of rhetoric and writing, coming to our department from the University of Texas, San Antonio where she had been the Director of Composition. Dr. Romano’s hire ended a national search for this position.

Professor Richard Peck, formerly President of UNM, returned from sabbatical leave taken after he stepped down from the presidency to teach American literature and playwrighting for the department in Fall 1999. Dr. Peck was absent in Spring 2000, leaving UNM to be Acting President of the University of South Florida. He returned to our faculty for the Fall 2000 term.

Full-time lecturers hired for the academic year were Rebecca Aronson, Brian Crane, Anne Foltz, Sherri Metzger, Kate Mortellaro, SueAnn Schatz, Jack Trujillo, and Wes Muckelroy. Dan O’Brien joined the faculty for the S2000 term as the Visiting Writer.

Tenure and Promotion
Charles Paine and Sharon Warner were tenured and promoted to the rank of Associate Professor.

Programs and Initiatives

Age of Aquarius festival. Professors David Jones and Barry Gaines successfully coordinated a spring semester exploration over several weeks of the culture of the 1960s in America that included weekly lectures and culminated in the Fine Arts Department’s production of the musical “Hair,” directed by Professor Jones. English graduate students working as Department Fellows assisted in this work, which was widely supported by our department and several other departments and colleges at UNM and by a grant from the New Mexico Endowment for the Humanities.

Albuquerque Teachers Institute. Directed by Wanda Martin, this program, which is funded by a grant from Yale University, offered seminars taught by UNM faculty in a variety of disciplines to high school teachers in Albuquerque.

Taos Writers’ Conference. The first UNM Taos Writers’ Conference, held in July 1999, was very successful. Throughout the year interest in the conference has increased, and more participants attended the July 2000 conference. Having initially received start-up assistance from the Department and other sources, the conference was, finally, entirely self-supporting, repaying all of the assistance extended to it and making a small profit. See below under “Creative Writing” for more information.

Other Outreach Activities. The Medieval Studies outreach program visited public schools in the Albuquerque area during the year and presented successful lecture series in both the fall and the spring terms. The “Hair”/1960s festival
included lectures and presentations for the public schools, including a performance of the musical "Hair" specifically for APS students. Tony Mares received two grants to design and direct his "Wired Inn," an internet-based writer's workshop that initially brought the creative work of Garfield Middle School (Albuquerque) students to the attention of Professor Mares and graduate creative writing students who would read and comment on it over the internet. This program has since evolved into an internet-based poetry workshop that students in our curriculum take as part of their requirements in Creative Writing (both undergraduate and graduate) and it has received outside funding support. Similarly, Rick Johnson-Sheehan offered an internet-only section of his popular proposals and grants writing class and is developing an internet-based version of his hypertext class. David Dunaway has won grants from state Humanities Endowments to support his "Route 66" radio documentary project. Sigma Tau Delta, the undergraduate honorary, continued working with ReadWest, a group promoting adult literacy.

Still more programs and initiatives are described below in the information provided by Departmental Directors.

Administrative Initiatives

Information Gathering. In December, the department adopted a form and a series of deadlines for gathering information to be used in Annual Biographical Supplements and in Annual Reports.

Assistant Professor Annual Review Process. The department adopted a formal process for reviewing Assistant Professors annually involving the Chair and selected members of the Executive Committee. The process includes classroom observations of teaching, review of publications, and review of service work.

Associate Professor Promotion Review Process. The department adopted a formal process for reviewing the progress of Associate Professors during the five years between promotion to Associate and normal eligibility for promotion to Full Professor. The process involves members of the Executive Committee, the Chair, and Departmental Directors.

Setting Hiring Priorities. The department adopted a formal procedure for setting hiring priorities that involves a series of discussions among interest groups who recommend hires to the Executive Committee who then recommend a hiring proposal to the department for discussion and amendment or approval.

Grants, Awards, Publications

Professor Gail Houston received one of two Outstanding Teacher of the Year Awards for 1999-00 given to faculty across the university. Departmental awards for
excellence in teaching and research activity went to David Dunaway (Wertheim Award) and Julie Shigekuni (Keleher Award).

Specific citations of faculty publications are collected in the Annual Biographical supplements, so I will not repeat them here. An overview shows that in 1999 English Department faculty published eight books or book-length works; more than two dozen articles, short stories, and essays collected in refereed journals or anthologies; a dozen poems; and more than a dozen reviews. There were also several reprints of books, articles, creative works, and essays.

Faculty received thirteen grants during the calendar year 1999; some faculty received more than one (see the table below).

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Faculty</th>
<th>Project</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMEH</td>
<td>Gaines/Jones</td>
<td>The Hamlet Festival</td>
<td>$5000</td>
</tr>
<tr>
<td>NMEH</td>
<td>Damico</td>
<td>Vikings/Saga in Classroom</td>
<td>$1867</td>
</tr>
<tr>
<td>NMEH</td>
<td>Damico</td>
<td>Viking and Culture</td>
<td>$5000</td>
</tr>
<tr>
<td>NMEH</td>
<td>Warner</td>
<td>Taos Writers Conf</td>
<td>$1750</td>
</tr>
<tr>
<td>Witter Bynner</td>
<td>Mares</td>
<td>Writers Inn (Internet)</td>
<td>$5000</td>
</tr>
<tr>
<td>Texas Hum Cncl</td>
<td>Dunaway</td>
<td>Across the Tracks</td>
<td>$5241</td>
</tr>
<tr>
<td>RAC</td>
<td>Torres</td>
<td>Interviews w/Writers</td>
<td>$1967</td>
</tr>
<tr>
<td>RAC</td>
<td>Fresch</td>
<td>Milton Variorum</td>
<td>$6226</td>
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<tr>
<td>RAC</td>
<td>Scharnhorst</td>
<td>Life of Kate Field</td>
<td>$960</td>
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<tr>
<td>RAC</td>
<td>Dunaway</td>
<td>Route 66 Story</td>
<td>$2673</td>
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<tr>
<td>TAC</td>
<td>Beene</td>
<td>Lang/Culture in Film</td>
<td>$2474</td>
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<tr>
<td>TAC</td>
<td>Witemeyer</td>
<td>Developing Film Libr</td>
<td>$1000</td>
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<tr>
<td>TAC</td>
<td>Johnson-Sheehan</td>
<td>Hypertext Teaching Aps</td>
<td>$1200</td>
</tr>
</tbody>
</table>

Still more faculty and student grants, awards, and publications are described below in the information provided by Departmental Directors.

Graduate Studies

New Master's Program
The Graduate Program in English continues to implement the new Master's Program (described in prior annual reports) established in Fall 1998. We received our second and third sets of Master’s Portfolios in Fall 1999 and Spring 2000, and we gave the third and fourth Master’s examinations based on the 50-item reading list. The Portfolio has demonstrated its value, giving faculty an opportunity to evaluate and require improvements in graduate student writing. Professor Carolyn Woodward successfully offered the first M.A. colloquium (on epic literature) in Spring 2000, the term in which the class matriculating in Fall 1998 reached its fourth semester. Preliminary indications (i.e., the large graduating class of 2000) are that the new MA program encourages students to finish within the recommended two-year period.
Graduate Director's Goals Achieved

The Graduate Director, Graduate Advisor, and Graduate Committee have implemented a number of policies and actions in order to improve the quality of the Graduate Program. They include the following:

Improvement of Communication

* The Access Database for tracking of students is in the process of being set up; once established, it will make routine many tasks that take much longer to complete at the present time. This project will be the top priority for 2000-2001.

* The Graduate Committee approved a proposal that graduate students must submit all their Independent Study and Problems (597 and 598) courses to the graduate director for approval in order to ensure quality and appropriate use of said courses, as well as to track these often anomalous courses.

* The Graduate Director has implemented weekly meetings with the Graduate Advisor and EGSA President in order to maintain good communication and efficiency.

* A list-serv for graduate students, established in fall 1999 and maintained by the Graduate Advisor, has dramatically improved communication between the Graduate Director, graduate students, and the Graduate Advisor.

* The Graduate Advisor is in the process of completing graduation and admissions packets that include all required materials and instructions for filling them out; this replaces the previous mode of distributing forms as requested sporadically and haphazardly by students.

* The Graduate Director has presented a session to the McNair Scholars Program at UNM (in April 2000) in order to make contact with these designated superior scholars in order to encourage said students to apply to our graduate program.

* The Graduate Advisor cleared graduate bulletin boards outside the advisor's office and outside the director's office; previously cluttered, unsightly, and, therefore, unused, these boards, are now organized and monitored on a regular basis so that the information there on jobs, deadlines, scholarships, etc., is always timely.

* The Graduate Director is in the process of maintaining a binder with written policies and procedures in order to avoid administration by fiat or word of mouth as much as possible.

Improvement of Graduate Student Preparation for Exams, Dissertation, and so on

* The Graduate Director has created guidelines that are distributed to students taking the 50-item MA exam and fulfilling the portfolio requirement. These guidelines
allow for better communication of expectations and create a means of answering common questions regarding these requirements.

*The Graduate Director is working on creating a set of guidelines for students who are in the dissertation phase to help them understand their professional role, duties, and rights in this phase of their Ph.D.

*Guidelines have been prepared to help prospective students understand explicitly what makes a strong application to our graduate program—these are included in materials we distribute to applicants.

*The Graduate Director has written a set of guidelines for writing a prospectus; she has also obtained a sample prospectus to lend to graduate students who have just finished their comprehensive exams.

*At the request of the EGSA, all the items on the MA 50-item list have been put on reserve in Zimmerman library for students studying the exam. This should be an ongoing project.

*The First Annual Scholar’s Retreat was held in January 2000 for five days with five English Department Ph.D.s attending the camp: Lori Mehl, Juli White, Kristen Hague, Bill Waters, and Andrea Penner. A follow-up mini-camp occurred in March 2000 with the same students. All of the students involved in the retreat were very enthusiastic about how this program helped them to make dramatic progress on their dissertations. As a result of the success of this bootcamp, an English Department faculty member and 3 students are taking the summer 2000 scholar’s retreat being offered by Sonja Foss, Director of the Scholars’ Retreat. Our use of these bootcamps was featured positively and prominently in an article that appeared in The Chronicle of Higher Education on March 24, 2000. This retreat should have an immediate impact on our high ABD population.

Development and Outreach

*With the help of GA Scott Rode, the Graduate Director was able to establish a development program for the graduate program. We have officially established an existing departmental award account, the Carl Grabo Award, as dedicated to supporting graduate students doing research on their dissertations. The Grabo award will be offered under its new designation in F2000; the graduate committee tentatively decided to apportion between $250 and $500 to winners of this award.

*The Graduate Director submitted an application to the McCune Foundation to fund two of our graduate students, establishing a relationship with this large foundation. We did not receive the funding but were encouraged to apply again.

*The Graduate Director submitted a letter of inquiry to Steven Spielberg asking that he consider funding Native American Literature hires at UNM. Mr. Spielberg
declined to underwrite such an effort, but he graciously acknowledged the importance of the proposal.

*Scott Rode and the Graduate Director consulted with Eric Sedillos, Development Director of the College of Arts and Sciences; Mr. Rode prepared written descriptions of development projects that Mr. Sedillos can distribute to interested donors.

*Undergraduate Director Mary Power and the Graduate Director are working on internal and external avenues of development for achieving an endowed Chair for Native American Literature hires, including approaching the All Indian Tribal Council and establishing a subcommittee on said effort under the auspices of the upcoming planning efforts directed by Provost Brian Foster.

*The Graduate Subcommittee on High School Outreach, chaired by Julie Shigekuni, has met a number of times in the 1999-2000 academic year to establish ties with local high schools in order to let our graduate students have teaching experiences there. Using Professor Damico’s outreach program as our model, graduate students in fields other than medieval will have the opportunity to gain teaching experience in their field of expertise and reach out to interact with area high schools.

**Graduate Director’s Goals and Suggestions for 2000-2001**

**Continue to Improve Communication**

*In order to improve the rigor and quality of our graduate program, we must implement yearly evaluations of graduate students done by faculty in conjunction with the Graduate Director. This will help both faculty and students know and meet professional expectations. It can also take care of problems students might be having early on. This can occur once the database is established.

*Once the database is established, the Graduate Advisor will create and distribute regular yearly progress reports on graduate students to their directors, again, as a means of preempting problems and maintaining regular communication.

*The Graduate Advisor will initiate meetings with Ph.D. students who have finished exams to give them guidelines for working on the prospectus, dissertation, and carrying on a professional relationship with their committees.

**Improvement of Quality of Graduate Program**

*The Graduate Director will continue analysis and discussion in the graduate committee about courses offered in split 400/500 level sections.

*The Graduate Director will initiate discussions with the Graduate Committee about increasing the rigor of our program through increasing the amount of seminars required of students.
*The graduate Director will propose to the Graduate Committee that the theory course, 510, be considered a two-part course that focuses on covering theory from Plato to the present, rather than using it as a course to focus on specific theories; this will give students better preparation in theory.

*The Graduate Director will encourage the establishment of a Concentration in Cultural Studies.

*The Graduate Director will continue to proactively support the establishment of a strong Southwest Literature Studies element of the graduate program, to include Chicano/a Literature, Native American Literature, and other literatures associated with the Southwest.

*The Graduate Director will work with the graduate committee on a proposal to help deal with the problem of overlap experienced by students taking the MA portfolio and 50-item exam in the same semester.

**Recruitment/Retention**
The Graduate Director sent letters to three McNair Scholars in the field of English encouraging them to apply to our program: two of the scholars have met with Dr. Houston to discuss this possibility. We also again participated in the recruitment sessions for Evening Programs hosted by David Stuart's office, and we have maintained and improved our graduate program information on our web site. From June 1999 through April 2000, we received 341 inquiries about our graduate programs, compared to 662 from June 1998 through May 1999. Thus, the number of inquiries about our program decreased. Our graduate homepage has been accessed 10,412 times since its inception.

**Colloquia/Lectures/Symposia**
The English Graduate Office continued its efforts to stimulate discussion and community among faculty and graduate students. Graduate students Michael Moghtader and Todd Tietchen put on a well attended colloquia in the fall of 1999 (4 sessions) on teaching. In the winter of 2000 the EGSA put on a colloquia series that focused on teaching in the composition classroom, race issues in the classroom, and others topics of interest. The EGSA also offered the “Southwest Symposium,” which is discussed below. Graduate students also successfully directed and organized a major international scholarly conference in September for the 18th and 19th Century British Women Writers Association. Two dissertation workshops were presented, one in fall 1999 (Professors Gwin and Woodward) and one in spring 2000 by the graduate students who went to the scholar’s retreat.

**Job Placement**
Gail Houston and Rick Johnson-Sheehan offered a bi-weekly series of job placement workshops aimed primarily at those graduate students seeking employment.
through the MLA and 4Cs conferences. Five Ph.D. students participated regularly in these workshops. (See "Job Placement" below for more detail.)

Research/Dissertation support
The Graduate Director provided supplemental and travel grants from $25 to $210 to students who were giving papers at conferences in their fields. (See details below under "Graduate Student Awards").

Curriculum Development
The Graduate Committee and the department approved a new course, "Teaching Literature and Literary Studies," English 592, which is described as "Practicum on teaching literature and literary studies. Study of theoretical discourses about teaching also included. Topics vary." This new course has been approved by the Senate Graduate Committee and will go before the Senate Curriculum Committee and the Faculty Senate for approval in the fall of 2000. In fall 1999, the graduate committee decided not to create a new course in academic publishing; however, the committee voted to approve a trial course (Eng 590) to be offered in fall 2000 by Professor Jesse Aleman, who will then report to the graduate committee on his recommendations regarding the advisability and efficiency of offering such a course to graduate students. The English Department Curriculum Committee has implemented the department's recently approved policy of having advanced graduate students teaching lower division literature courses. Graduate students have taught Eng 294, 295, 296, and 297 in 1999-2000.

Graduate Committee
Gail Houston, Director of Graduate Studies for 1999-2000, was chair. Voting members of the graduate committee for 1999-2000 were: Professors Jesse Aleman, Wanda Martin, Carolyn Woodward, Julie Shigekuni, Hector Torres (fall 99 only) and Rick Johnson-Sheehan (spring 2000 only); the EGSA graduate student representative was Miriam O'Kane; and the ex-officio members were Chuck Paine, Director of Freshman English; Sharon Warner, Director of Creative Writing; and Helen Damico, Director of Medieval Studies. The Graduate Committee voted on a number of policy issues (see "Policy Decisions" below); approved the Fall, Spring and Summer M.A. and Ph.D. Comprehensive Examinations; reviewed applications for fellowships; reviewed applications for admission; revised and approved the 50-item Master's Examination List, which will go into effect Spring 2002 (Houston, Johnson-Sheehan, Woodward); held a dissertation writing workshop (Gwin and Woodward).

Policy Decisions of the Graduate Committee

Fall 1999
*In fall 1999, the Graduate Committee and department approved the optional Ph.D. Comprehensive Examination Process initiated and written under the previous graduate director, Gary Harrison. Thus, there are now two types of exam; in the
future faculty in consultation with students will choose the option most appropriate for the student.

*The Graduate Committee recommended a pay increase for ABDs with approved prospectuses.

*The Graduate Committee approved the new pedagogy course in literature Eng 592.

Spring 2000
*In Spring 2000, the Graduate Committee approved the following policies:

1.) Formal GRE scores must be submitted and received at UNM by the November 1 and February 1 deadline in order for the student application for admission to be considered.

2.) The Graduate Director may set deadlines by which time faculty and student evaluators must have evaluations of prospective graduate students submitted to the Graduate Director. If said deadline is not met, evaluations will be based upon evaluations that have been submitted by the deadline.

3.) Ph.D. students may take their comprehensive exams in the summer as long as the full committee agrees to be there to grade the exams. It is suggested that students only take one exam per week if taken in the summer. It is also suggested that student, in general, should take their exams during the regularly scheduled exam periods in September and February.

*The Chair, Scott Sanders, approved a pay increase for of $500 a year (in payments of $250 a semester) for ABDs with approved prospectuses.

*The Graduate Committee approved graduate student Andy Flood's proposal for a Hypertext reading list for the Ph.D. Rhetoric examination. This option now becomes available for all who wish to take that examination.

*The Graduate Committee approved use of the Carl Grabo Fund for graduate students doing dissertation research.

Graduate Student Awards
During the 1999-2000 academic year, English Department graduate students won the following awards, fellowships, and scholarships.

Departmental Awards:
Buchanan-Arms Award for Outstanding Achievement in Grad Study: Rick Mott
Graduate Service Award: Franci Washburn
Graduate Professional Writing Award: Craig Springer
Creative Writing Fellowship: Seth Biderman
D.H. Lawrence Fiction Award: Tamara Brenno
New Mexico Folklore Prize: Lille Norstad
G.A. to David Leeming, Distinguished Professor of English/PNM Chair
Hossein Ordoubadian
Graduate Academic Program Scholars: Bill Waters, Andrea Penner
Mary M. McDonald Scholarship: Deborah Hoffmann

College /University Awards:
A&S Dean’s Dissertation Fellowship Winner: Anne Van Arsdall
Outstanding Teaching Assistant Award Nominees: Martha Ninneman, Michael Moghtader, Kristen Hague, Bill Waters; Martha Ninneman won an Award
3% Scholarship: (Nominees are Dani Ortega, Craig Springer, Nancy Fong, Virginia Hampton, Jody Ipsen)
Graduate Dean’s Dissertation Award Winner: Jennifer Timoner

Research, Project, Travel (RPT) Grants:
Several graduate students received RPT grants to deliver papers at conferences and do dissertation research in academic year 1999-2000. These students are:

Fall 1999
Maggie Harada $1,000 Dissertation Research and seminar in Ireland

Spring 2000
Anita Daniels $375.00 Deliver paper
Andrea Penner $310.00 Deliver paper
Scott Rode $300.00 Deliver paper
Miriam O’Kane $237.00 Deliver paper
Richard K. Mott $750.00 Deliver paper

RPT Supplemental Departmental Travel Grants
Because RPT Grants are so limited, the Graduate Director provided supplemental travel grants to recipients of RPT awards as follows:
Rick Mott $75
Andrea Penner $50
Miriam O’Kane $30
Scott Rode $50
Anita Daniels $50

Departmental Travel Grants
These one-time travel grants of $25 to $210 each were awarded on a competitive basis to provide modest support to those who had applied for but were denied RPT funding.
Eileen Garvin $100 Deliver paper at MELUS Conference, Colorado
Anne Bartlett $100 Deliver paper at MELUS Conference, Colorado
Linda Norris $220 Deliver paper at VISWAS Conf, Portland, Or
Miriam Schacht $260 Deliver paper at VISWAS Conf, Portland, Or
Graduate Admissions

Nationwide, applications to English graduate programs continue to decline. Our applications were down from the 1998-1999 year. The English Graduate Program received 85 completed applications for its programs in academic year 1999-2000. This number represents a decrease of approximately 15% from applications received for academic year 1998-99 of 103 completed applications.

Of the 43 (out of 85) applicants to whom we offered admission, 21 have already matriculated for Spring 2000 or have expressed their intent to matriculate in Fall 2000. That amounts to a 49% acceptance ratio as compared to the 1998-99 ratio of 78% acceptance rate and the 60% acceptance rate from academic year 1997-98, and 32% acceptance rate in 1996-97.

We had a 100% acceptance rate for those applying for Spring 2000 (6 students); but for Fall of 2000 the top five Ph.D. candidates accepted offers elsewhere (1 accepted our offer and then had to renge because her husband got a job in Washington D.C.); the next four on our Ph.D. list did accept our offers. Among the Master’s applicants, of the top nine MA Lit students one accepted our offer. One of the four applicants to the Ph.D. in Writing and Rhetoric accepted our offer; two of the four MA PW candidates we accepted took our offer. Of the ten MA CW offers made, seven were accepted.

As the figures show below, we continue to lose many of our top-ranked applicants to other universities that offer better compensation and support for their graduate students in English. The situation continues to be as Gary Harrison, previous Graduate director, described it in a prior annual report: “If we want to recruit the top students among our applicants, the Department of English and University of New Mexico must make efforts to reduce teaching loads for our Teaching Assistants, increase their stipends, and we must find fellowship money to supplement our offers for those students we regard most highly.” The new health benefits and pay increases offered to students this year should help with recruitment, but we still must be able to offer a better overall package, including a lower teaching load, higher pay, and more scholarship/fellowship support.

The figures below show preliminary admissions statistics for students applying for Spring 2000 and Fall 2000.

Applying for Spring 2000
Number of applicants: 10  Offered admission: 6  Accepted admission: 6

<table>
<thead>
<tr>
<th>Program</th>
<th>Offered</th>
<th>Accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
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</tr>
<tr>
<td>MA Lit</td>
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<td>1</td>
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</table>
Applying for Fall 2000

Number of applicants: 75

<table>
<thead>
<tr>
<th>Program</th>
<th>Ph.D.</th>
<th>MA Lit</th>
<th>MA CW</th>
<th>MA PW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicants</td>
<td>23</td>
<td>20</td>
<td>29</td>
<td>3</td>
</tr>
</tbody>
</table>

Offered admission: 37

Accepted admission: 18

Graduation/Degrees Granted. The English Department conferred seven Doctor of Philosophy and thirteen Master of Arts degrees from Summer 1998 through Spring 1999, as follows:

Summer 1999

Ph.D. Graduates
Anne Foltz
Wes Muckleroy
Denise Tillery

M.A. Graduates
Sonnin Dahl
Michelle Pierce

Fall 1999

Ph.D. Graduates
Debra Thornton
Darrell Peters

M.A. Graduates
Todd Tietchen
Erin Roth

Spring 2000

Ph.D. Graduates
Margaret Harada
William Waters

M.A. Graduates
Anne Bartlett
Jonathan Briggs
Monique Hyman
Susie Keller
Victoria Kittredge
Shannon McCabe
Elise McHugh
Kellie S. Meyer
Emily Spiegelman

Enrollment. As of Spring 2000, the Department of English enrolled a total of 123 graduate students, broken down as follows:

<table>
<thead>
<tr>
<th>Program</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph.D.</td>
<td>64</td>
</tr>
<tr>
<td>MA Lit</td>
<td>25</td>
</tr>
<tr>
<td>MA CW</td>
<td>22</td>
</tr>
<tr>
<td>MA PW</td>
<td>12</td>
</tr>
</tbody>
</table>

(ABD: 40)

Of the 64 Ph.D. students, 40 are ABD enrolling only in dissertation hours. Thus 62% of our Ph.D. population is ABD, down from 75% in Spring 1999. We hope that the implementation of the scholars' retreat and the creation of guidelines for writing prospectuses and the written guidelines regarding professional rights and duties of graduate students doing their dissertations will help to reduce our ABD population. In addition, regularly scheduled dissertation writing workshops are designed to deal
with this problem. Furthermore, the Department’s approval of an optional process for administering the Ph.D. Comprehensive Examinations, which links the submission of the dissertation prospectus to the examination, should also help to move students along more quickly.

Among the 34 students enrolled in the Master’s Program in Writing (PW and CW), only 5 were enrolled in thesis hours only, and 2 of those students graduated in Spring 2000. Thus, counting the 3 students who did not graduate, only 9% of MA students in writing were working on thesis hours only. This represents a decrease from the 17% rate of Spring 1999.

Job Placement
The MLA Census of PhD Placement for 1996-97 shows that our placement rate of 33% that year was higher than the 26% rate for our peer institutions and exactly comparable to the national average (33%).

The Graduate Director and Professor Rick Johnson-Sheehan held bi-weekly workshops for PhD students seeking employment in tenure-track jobs in English. Five students actively participated in the placement workshops this year. One was interviewed at the Modern Language Association meeting. One had phone interviews from which a tenure-track job was offered and accepted. Two candidates had on-site interviews at several community colleges in Oregon and California; one had a campus visit at Stephen Austin College. Of the five students actively on the market, one (as of 6/12/00) has obtained a tenure-track job; this represents a 20% placement rate. However, two of our students, who less actively participated in the placement workshops (they essentially applied for only 1 or 2 jobs) received tenure-track jobs and another received renewal of his non-tenure track job that has the possibility of becoming tenure-track. Including these students in the results, our placement rate is 50%.

PhD students in tenure-track positions since May 1999:

Anita Daniels
Liz Wright
Alanna Cotch
Andy Smith
University of Miami
Penn State Hazleton
Prairie State College
Lafayette College, Easton, Pa.

We continue to have difficulty tracking our Master's program graduates, who have found employment in a variety of teaching, editing, and non-academic jobs. Two of our recent MA students, Todd Tietchen and Miriam Schact, received a number of attractive offers (from UC Davis, Syracuse, and UC Santa Cruz) and accepted lucrative packages from University of Washington and the University of Texas, Austin, respectively, to do Ph.D. work; Susie Keller (our top PhD applicant), also a UNM MA graduate, will be doing PhD work at UC Santa Barbara; Shannon McCabe and Anne Bartlett have been accepted into the PhD program at UNM. Chris
Pusateri, a recent MA CW graduate, won a poetry chapbook contest; his Magnetic North—based on his MA thesis—will be published by Saki Press. He currently teaches English and writing in Mexico City.

**English Graduate Student Association (EGSA)**

The Graduate Director supervised the EGSA in a number of activities again this year, including hosting departmental colloquia, new student orientation, and the Southwest Symposium, and helping to host the international 18th and 19th Century British Women Writers Association Conference. EGSA president for academic year 1999-2000 was Nicole Desjeunes; the president-elect for 2000-2001 is Miriam O’Kane.

This year's co-directors of the Southwest Symposium were Linda Norris and Amberley Pyles. Participants came from out of state, as well as from UNM. The plenary address by Simon Ortiz, Professor of English, University of California, Riverside was well attended by members of the UNM community at large and from the Albuquerque community. This year the SWS was held in conjunction with a UNM conference on Chicano/a detective novel writers, put on by Teresa Marquez of Zimmerman Library. The 18th and 19th Century British Women Writers Association Conference proved, once again, that our graduate students are skilled organizers and offer extraordinary service to the profession: Mary Rooks, Kristen Hague, Martha Ninneman, and Scott Rode were Co-Chairs of this international conference.

**Undergraduate Studies**

Mary Power, Director

We awarded 103 degrees to English majors at the convocation ceremony on May 13, 2000. This figure is down from 175 degrees awarded the previous year. At the same time, the number of honors graduates rose: twenty-one students received degrees with special merit, four more than were awarded honors last year.

Deleting our 103 graduates from the active files, we find that at the beginning of the Fall 2000 term, a conservative estimate based on active files on hand suggest that there are about 400 or so students majoring in English; 164 are working on English minors. Of the majors, about 160 are in the Liberal Arts concentration, 128 in Creative Writing, 34 in pre-Law, 33 in pre-Grad, and 15 are in the English/Philosophy double major program. Among the minors, 142 are English minors, 24 are Professional Writing minors. All told, some 565 or so students are majoring or minoring in English at this time.

The following students were cited at the May departmental graduation ceremony for special distinction:

Dale and Ivan Melada Scholarship in Professional Writing: Sandra Chavez
Beidleman Memorial Scholarship: Dani Ortega, Christy Churchwell
Mary M. McDonald Scholarship: Kara McKinney
In November 1999, the Undergraduate Program sponsored a reception to recognize and honor Undergraduate English majors graduating in December. The reception also served to acquaint English majors with one another and inform them of the opportunities that exist for English majors. About twenty five students attended.

Sigma Tau Delta (STD), the English Honor Society, had another good year. The College of Arts and Sciences aided the group with an Excellence in Undergraduate Education (EUEP) grant of $2,000. About ten members received special training courses, and then taught in an adult literacy program. Members were also most generous in staffing the departmental library, and these same students assisted Professor Lynn Beene in cataloguing the growing collection. In early May, the students held a book sale of discarded books which was most successful. Five students gave papers in Savannah, Georgia at the National Sigma Tau Delta Conference. Last year's chapter president, Leslie Chick, also served as Southwest District Representative and participated in two STD executive committee meetings. A member of STD, Jocelyn Tafoya, was awarded a $90,000 Fellowship to the University of San Diego Law School.

Creative Writing

Sharon Oard Warner, Director

The Creative Writing Program continues in a state of transition. Despite dwindling numbers of faculty—poet Joy Harjo resigned in 1996 and has not been replaced; David Johnson retired in the spring of 1999; Louis Owens and Marcia Southwick resigned this past spring—student enrollment and interest continue to grow. So, too, do Program initiatives. We are accomplishing a great deal under difficult circumstances. At present, the CW Program has four faculty members who teach principally in CW—Jim Colbert, Tony Mares, Julie Shigekuni and Sharon Oard Warner—and two other colleagues who teach in CW also teach in other areas in the departmental curriculum—Lee Bartlett and Pat Smith.

Enrollment

About 400 undergraduates are presently majoring in English, and of that number somewhat more than one-fourth are enrolled in the Creative Writing Concentration (see the Undergraduate Program discussion above). Creative writing classes also attract students from other majors as well as non-degree students seeking instruction in writing. Undergraduate and graduate CW classes tend to fill quickly and close. In the Fall 1999 semester, we offered 19 undergraduate classes in CW and 5 graduate courses. In the Spring 2000 semester, we offered 20 undergraduate and 5 graduate classes.

The graduate program in Creative Writing is flourishing as well. Between 25-30 students are presently working toward their Master's degree. Of this number, most
are working in fiction. Graduate applications for Fall 2000 (see under Grad programs above) illustrate the importance of CW to graduate enrollment; 32 students applied to CW, more than double the next highest number for a specific MA program and 50% more than the 22 students who applied to the PhD program. Given the demands on our small faculty, we were forced to cap graduate enrollment this year. We offered admission to only five fiction writers and four poets, turning away a number of well-qualified candidates. Unless we are able to hire additional faculty in coming years, we will have to continue to impose caps.

Program Initiatives

The Writers’ Inn, an internet-based community service program for creative writers, provides a place for writers to share poetry, fiction, and creative nonfiction. Students and professors evaluate and respond to the individual writer’s work. The Writers’ Inn, begun in January 1998 by Professor Tony Mares, creates opportunities for undergraduates and graduate students. It has been well received by the public and is being supported by several substantial grants.

UNM’s Taos Summer Writers’ Conference is in its second year. The first year was, by all accounts, a success. The conference attracted 70 participants from around the country and featured workshops in poetry, fiction, and creative non-fiction. This year's Conference includes three weekend workshops in addition to the week-long workshops. At present, the Conference has over 100 registrations, with participants coming from as far away as Canada and Alaska. The 2000 Conference will reinstate the D. H. Lawrence Fellowship, which has been suspended since 1992. In addition, it will also offer two scholarships, one in fiction and one in poetry. Three graduate students will receive tuition, lodging, and meals in return for their work in organizing this year's proceedings.

Works-in-Progress Series continues to attract large and enthusiastic audiences. This monthly event pairs graduate student and faculty readings at R. B. Winnings Coffee Shop. Elise McHugh, a graduate student in poetry, took charge of organizing these events.

The Writers' Harvest Reading, held at the end of October, was our most successful yet. Organized by Professor Julie Shigekuni and graduate student Elise McHugh, the event featured an all-day reading with undergraduates, graduate students, and professors reading in ten-minute intervals from 9 a.m. to 6 p.m. The event, part of a national initiative to help the hungry and the homeless, raised over $1,000 for state hunger-relief organizations.

Blue Mesa Review attracted several hundred submissions of poetry, fiction, and creative nonfiction for its annual issue. This year's editor was Professor Jim Colbert, and the BMR editorial fellow was Miriam Schacht. Blue Mesa Review is entering its thirteenth year of publication with a new editor, Professor Julie Shigekuni, who will assume her duties in the fall of 2000.
Creative Writing Pedagogy Meetings, established in 1998-99, continued this year. These meetings, held monthly in conjunction with the Works-in-Progress Readings, offer graduate students, part-time instructors, and regular faculty members an opportunity to discuss issues involved in teaching creative writing. Some meetings are focused on a single issue while others are open-ended discussions.

Contest Winners in 1999-2000

Lena Todd Memorial Prizes
Poetry: 1st Place Scott Pierce (Instructor: Tony Mares)
2nd Place Noel Navaez-Barnes (Instructor: Marcia Southwick)

Fiction: 1st Place Kate Smith (Instructor: Julie Shigekuni)
2nd Place Mike Wolff (Instructor Whitney Woodward)

D. H. Lawrence Fiction Contest
1st Place Tamaro Brenno
2nd Place Martha Bearden Parham

American Academy of Poets Contest
1st Place Julie Dunlop
2nd Place Mara Gould

The CW Program also nominated two students for the Associated Writing Programs Intro Awards. Graduate Student Seth Biderman, next year’s Creative Writing Fellow, was a finalist in the second annual Prentice Hall Student Writing Contest.

Professional Writing Program

Richard Johnson-Sheehan, Director

The 1999-2000 year was a building year for the Professional Writing Program. We made positive strides in a variety of different areas, strengthening and expanding our curriculum and our faculty.

The Rhetoric and Writing program, of which Professional Writing is a part, hired Dr. Susan Romano (PhD, UT-Austin) to strengthen our offerings in composition, professional writing, visual rhetoric, and ethics. Dr. Romano’s research on computer-aided instruction has been published widely in our field. Also, she is currently researching the history of the teaching of rhetoric in the southwest.

This year we began offering courses through the internet on a trial basis. Our Hypertext course (English 420/520) was initially offered to students at UNM-Los Alamos. Students from other parts of New Mexico also completed the course. We will continue testing whether we can offer our courses, especially at the Masters level, through the internet.
The Rhetoric and Writing brochure (24pp.) was published this year. It describes our curriculum, courses, and faculty. It will be one of our main vehicles for encouraging interest and applications to our programs at the graduate level. Currently we have 12 people registered as MA candidates with professional writing emphasis. We have 11 people registered as Rhetoric and Writing PhD candidates.

A website for our internship program was created. Starting with the Fall 2000 semester, the website will list our internships and offer tips for writing and designing resumes and application letters. The site will eventually serve as a networking tool for our students, allowing them to contact our graduates and professional organizations that can help them find jobs in professional writing.

Professors Sanders and Johnson-Sheehan participated in the recruitment of returning students and graduate students at the twice-yearly open house hosted by Associate Vice President David Stuart. The Professional Writing program was highlighted in advertisements announcing the open house.

We are having increased success placing our students in internships and writing-related jobs. This year all of our students looking for internships found meaningful employment. Several of our graduating seniors found writing jobs before they graduated.

The Melada Scholarship in Professional Writing was awarded to Sandra Chavez, a junior in Professional Writing. Craig Springer was awarded the Graduate Award in Professional Writing.

The main problem facing the Professional Writing program is the enrollment growth in Technical Writing (English 219), a core curriculum course also required in numerous majors across the university, from nursing to engineering. We do not now have enough faculty or graduate students to teach these courses, nor will we in the future if we do not hire more faculty or instructors in professional writing, so we must depend on the good work of Part Time Instructors to fill out our ranks.

Freshman English

Fall 1999
Courses Taught
Fall 1999 at 21 days
Course sections total enrollment SCH % capacity
101 93 2137 6411 99.9%
102 41 873 2619 92.6%

Taught by:
Teaching assistants 51

Charles Paine, Director
- Full-time Lecturers 6  
- Part-time Instructors 17  
- Regular Faculty 4

Other courses numbered above FE taught by TAs and non-tenure track faculty: nine 219s, four 220s, two 321s, two 240s, one 290, one 296.

Grades in English 101 and 102

<table>
<thead>
<tr>
<th>Course</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>WP</th>
<th>WF</th>
<th>I</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>21.0%</td>
<td>36.2%</td>
<td>34.7%</td>
<td>9.3%</td>
<td>5.3%</td>
<td>4.3%</td>
<td>0.025%</td>
<td>0.001%</td>
<td>0.009%</td>
</tr>
<tr>
<td>102</td>
<td>19.5%</td>
<td>35.6%</td>
<td>21.9%</td>
<td>10.4%</td>
<td>6.2%</td>
<td>8.7%</td>
<td>0.0%</td>
<td>0.002%</td>
<td>0.009%</td>
</tr>
</tbody>
</table>

Data for Spring 2000 is not yet available.

**Signal Achievements**

The second edition of *La Puerta* was used by all sections of English 102. The ESL Program has a half-time graduate student director, Julie Mars, who placed students with a standardized test, which resulted in a cut of 33% in students and courses (from 6 courses to 4). The curriculum across all ESL sections was also standardized by Ms. Mars.

In April, a roundtable discussion about the issue of "Nature and Nurture" was held as part of the University-wide reception of *Frankenstein*, the newest central text for 102; over 100 students attended this event.

A new text for English 102, *Culture Jam*, was piloted and will be available to 102 teachers for the 2000-2001 school year.

The Writing Proficiency Portfolio program continues to grow (passing rates have not been calculated). The FE Program has begun a significant effort to encourage more students to choose the portfolio option instead of 102.
Department of Foreign Languages & Literatures

July 1, 1999 – June 30, 2000

Submitted by: Walter Putnam

The Department of Foreign Languages & Literatures has completed its eighth year as a separate unit formed out of the division of the Department of Modern & Classical Languages. The department offers a Ph.D. in French Studies, M.A. degrees in Comparative Literature and Cultural Studies, French and German and B.A. degrees in Classical Studies, Comparative Literature and Cultural Studies, French, German, Modern Languages and Russian. The department faculty also collaborates with interdisciplinary programs around campus such as European Studies, Asian Studies, Russian Studies and Women Studies by offering cross-listed courses and by sharing faculty resources and expertise. Alongside the national language and literature degree programs, the interdisciplinary graduate program in Cultural Studies has proven to be a big success in terms of student interest as well as in creating an intellectual community at UNM. The Wednesday lecture series has become a regular feature of a large but loose network of faculty and students who gather to hear a weekly lecture in the University Art Museum.

The department maintained its administrative structure with Walter Putnam serving his final year as Chair. Elections were held in the Spring and Dean Michael Fischer appointed Monica Cyrino to become Chair beginning with the 2000-01 AY. Warren Smith and Byron Lindsey served as Co-Directors of Undergraduate Studies, Natasha Kolchevska as Director of Graduate Studies and Pamela Cheek as Director of Comparative Literature and Cultural Studies. The appointment of Professor Kolchevska represented the first time that a faculty member outside of a graduate program had headed up this important area. We also formed an advisory committee made up of four faculty members representing the four major divisions in the department. This committee met periodically to discuss policies and procedures. For example, we drafted and passed a department policy on tenure and promotion for evaluating upcoming candidates. The department also sponsored the highly-successful Language Expo in March that was coordinated by Marina Peters-Newell, Lower Division Coordinator for French. Specific language instructors were responsible for handling student advising in each of the major and minor language units. Office operations were supervised by the Department Administrator, Wilma Williams, aided by Diane Slack and Susanne Knoblauch. These latter two positions are half-time and Ms. Knoblauch works more specifically on the German Summer School. The remaining staff position vacated by the departure of Lisa Stewart has not yet been filled. The monies from that position were needed to fund important instructional items not covered in the A&S allocation. Once the Francophone Summer School gets revived, it will be important to secure some administrative support without which that program cannot run. We were very fortunate to have an excellent group of work-study students to help with various office duties.
Individual faculty distinguished themselves in many areas: Susanne Baackmann (Associate Professor of German) took a year-long sabbatical to work on her book project on memory and war; Lorna Brau (Visiting Instructor of Japanese) continued to develop successful courses on Japanese language and culture for a growing audience; Pamela Cheek (Assistant Professor of French) taught a Freshman seminar on utopias while continuing work on her book manuscript dealing with sexuality in 18th-century France; Monica Cyrino (Associate Professor of Classics) received the Excellence in Teaching Classics award from the American Philosophical Association and was on sabbatical in Fall; Deborah Jenson (Assistant Professor of French) completed revisions on her book manuscript on social mimesis to be published by Johns Hopkins Press; Byron Lindsey (Associate Professor of French) led a group of students on the summer Moscow program; Peter Pabisch (Professor of German) continued to develop the Atlantic Bridge on the Camino Real through the College of Continuing Education; Walter Putnam (Professor of French) served out his final year as Chair of FLL; Diana Robin (Professor of Classics) published a co-authored book on third world cinema and published widely in the area of Renaissance women writers; Katrin Schroeter (Assistant Professor of German) successfully passed her mid-tenure review; Warren Smith (Professor of Classics) sponsored and directed several productions of classical plays on the UNM campus.

Our non-faculty instructors continued their stellar job in their respective programs: Machiko Bromberger (Japanese), Rachele Duke (Italian), Marina Peters-Newell (French Lower Division Coordinator) and Jian Zhu (Chinese).

The department conducted a tenure-track search and hired Stephen Bishop to begin in 2000-01 as Assistant Professor of French.

FLL continued to teach a variety of courses in English that were cross-listed and attracted students from other departments across campus. We conducted outcomes assessments on the undergraduate and graduate levels and determined that our programs are meeting the standards we expected. The healthy concentration of literary and cultural theory has given our graduate programs a boost and increased the opportunities for our best M.A. students to enter nationally recognized doctoral programs. The department also helped to sponsor an array of invited lectures, film series and presentations throughout the year. All in all, FLL seems to be fulfilling its obligations to UNM students on both the graduate and undergraduate levels. With the implementation of the new core curriculum and the addition of specific courses taught within the department, we hope to continue to expand our offerings to an even broader audience.
FACULTY PUBLICATIONS AND PROFESSIONAL ACTIVITIES

B. REFEREED JOURNAL ARTICLES AND BOOK CHAPTERS

Baackmann, Susanne

Kolchevska, Natasha

Lindsey, Byron

Pabisch, Peter

Putnam, Walter

Robin, Diana

Schroeter, Katrin
Book Review: “Arbeitslosigkeit und gesundheitliche Folgen in Ostdeutschland — eine Studie im Freistaat Sachsen” Harych, Horst and Peter Harych in German Studies Review Vol. XII

Smith, Warren
“Recent Lucretian Scholarship,” review article in Ancient Philosophy 19 (Fall 1999); pp. 1-9.


C. OUTSIDE PROFESSIONAL LECTURES AND PAPERS PRESENTED


Cyrino, Monica. April 2000. “Under Cover Goddess: Aphrodite’s Robe in the Homeric Texts.” Classical Association of the Middle West and South, Knoxville, TN.

Jenson, Deborah. September 1999. “Moreline Desbordes-Valanire’s ‘Crele Poetics’.” Bloomington, IN.


1. SIGNIFICANT DEVELOPMENTS

1.1 COMPLETION OF PROGRAM REVISIONS

In the 1994 five-year plan, the Department changed the focus of its curriculum to emphasize environmental analysis using geographic information technologies. The plan was based on recommendations from a graduate program review in 1992. The implementation of the plan was substantially completed in the past year except for the additional faculty members in the plan and implementation of the PhD program. The Department has evolved into one that is substantially different from that of 1992. Four new faculty members have been added, significant computing power for teaching and research has been installed, and Geography and the Earth Data Analysis Center (EDAC) are co-located.

Today the Department has an emphasis on environmental systems analysis to which all faculty members contribute. Environmental systems analysis integrates biotic, hydrologic, and climatic systems and evaluates how humans interact with these systems in order to solve complex problems. The key to our approach is integration, and our tool is Geographic Information Technology (GIT). GIT includes remote sensing, spatial statistics, and geographic information systems (GIS). GIT is heavily computer oriented, but field studies and field-based tools are often used to provide the data required for analysis.

The Department made environmental systems analysis its focus because an integrated approach is needed to understand and solve many of today’s problems. The scientific community has discovered that looking at problems from a single discipline’s perspective ignores significant aspects that must be included if a problem is to be understood and solved. In addition, the scientific community has recognized that an understanding of how humans interact with the environment is essential if sound policies are to be developed and impacts assessed. Until recently, integrated modeling lacked the computing power to be successful at anything but a very coarse scale or very limited area. Today, improved computer systems and improved GIT software make such modeling possible. The Department is committed to developing environmental modeling techniques that operate using GIT and that are useful for policy analysis and impact assessment. Our curriculum is designed to provide students the tools, scientific background, and policy understanding to become geographers capable of environmental systems analysis.

In the spring of 2000, the Department began working on a federally funded three-year research project that uses an integrated approach. This is the first step in the Department’s combined research agenda. The project illustrates the Department’s future direction in teaching and
research. The research is at the interface of water resources, biology, and climatology and will be used for environmental policy analysis. The modeling approach will operate within a GIS rather than using GIS simply for display purposes. This research is innovative and holds great promise for problem solving. Additionally, the results will be incorporated into our courses, directly benefiting students in our program.

1.2 SPATIAL DATA ANALYSIS LABORATORY

The Spatial Data Analysis Laboratory was successfully funded under NSF DUE-9551046: "Instrumentation for an Undergraduate Spatial Data Analysis Laboratory." Equipment for the lab was purchased, and it was used for the first class in the fall semester 1995. In June 2000 the Department was able to purchase new equipment to replace the equipment obtained under the NSF grant. The equipment includes three Sun Ultra 10 workstations, along with 10 Sunray terminals and an additional 218 GB of storage. These additions once again make the Department’s equipment "state of the art." In addition, the Department was able to assemble a 10 seat PC lab that is used to teach our physical geography labs and several other courses. Few Geography Departments in the country can match our equipment. We have two major concerns—adequate system’s administration and a crowded PC lab. The current PC lab needs to be expanded to 20 seats and put in a larger facility. Demand for all courses is high and these problems need to be resolved because they remain a threat to the quality of our programs.

1.3 RESEARCH GRANTS

Perhaps the most significant development within the Department has been our success in obtaining grants. During the period for this report every grant application has been successful. As a result, the Department now has grants for over $1.1 million. If EDAC grants are included, the figure is well over $5.0 million. The grants reflect the Department’s new programmatic direction.

1.4 EARTH DATA ANALYSIS CENTER (EDAC)

EDAC was co-located with the Geography Department two years ago. This has created space problems, but the increased opportunities for interaction are beneficial. EDAC is engaged in remote sensing and geographic information systems (GIS) development and serves as a focal point for graduate and undergraduate student employment. As of July 1, 1999, EDAC was made part of Arts and Sciences. Their budget is separate from Geography’s, and the Director of EDAC reports to the Dean of Arts and Sciences.

2. SIGNIFICANT PLANS

The Five year plan the Department developed in 1994 is now out of date. During September 2000 the Department went through another graduate program review. When the results of that evaluation are finalized, the Department will create another plan based upon their recommandations. The primary goal as set forth in the 1994 Five-Year Plan is to continue to strengthen the program so it will be in the position to offer a PhD program in the very near
future. Preliminary indications from the graduate review committee indicate the Department should have a PhD program in place in 3-4 years.

3. STAFF APPOINTMENTS AND SEPARATIONS

The faculty was composed of 4.5 salaried members in the Fall, 1993. The faculty is now at 7 FTE. Four of the seven faculty have been hired since 1993. No changes have occurred during the past year.

4. PUBLICATIONS AND PROFESSIONAL ACTIVITIES

4.1 PUBLICATIONS AND PRESENTATIONS

Publications


Olen Paul Matthews, Michael Campana, and Richard DeSimone (eds), Sustainable Water Resources Issues: Case Studies from New Mexico, Master of Water Resources Administration Program, University of New Mexico, Publication No. WRP-1 (1999).
Presentations


4.2 OUTSIDE PROFESSIONAL ACTIVITIES

Dr. Cullen ended his position as National Counselor (Board of Directors) for the Association of American Geographers in June, 2000. He continues as Associate Editor for *The Social Science Journal*, Associate Editor for *Southwestern Association of American Geographers Journal*, and Board of Directors of the Applied Geography Conferences.

Dr. Matthews served and continues to serve on several professional boards including: Advisory Board, Interamerican Dialog on Water Management; Shared Use of Transboundary Water Resources Task Committee, American Society of Civil Engineers; and Water Regulatory Standards Committee, American Society of Civil Engineers.

Dr. Morain’s outside professional activities include: Editor-in-Chief *Photogrammetric Engineering and Remote Sensing*; Committee on Data Preservation and Archiving (ASPRS); ASPRS liason to American Academy of Sciences; Editorial Board, *International Journal of Remote Sensing*; Editorial Board, *GeoCarto International: An International Journal of Remote Sensing*; ISPRS Science Advisory Committee; ASPRS Committee on Data Preservation and Archiving; ESIP Federation Executive Committee; Chair New Mexico Geographic Information Council Framework Committee; and reviewer of numerous journal manuscripts.

Dr. Scuderi is currently reviewing articles that appear in the following journals: *Arctic and Alpine Research* (multiple papers); *Quaternary Research*; and *The Annals of the Association of American Geographers*. Dr. Scuderi is also a reviewer for NSF proposals in: Solar Terrestrial; Climate Dynamics; Geography and Regional Science; Polar Programs and Geophysical Research Letters.

Dr. Williams organized and operated the Fourteenth Annual Southwest Institute, hosted in 1999 by the New Mexico Museum of Natural History. Graduate and undergraduate credits in Geography were offered by this department. In conjunction with the two field courses a collection of readings and reference material was organized and edited. A field Guide was also created for each course. Future plans include developing a series of guidebooks on the Southwest.

Dr. Snell is currently reviewing articles in the *Journal of Applied Meteorology*.

4.2 OUTSIDE SPONSORED RESEARCH

Morain, Stanley, PI. "RS Applications in Transportation," U.S. DOT, $3,000,000 (2000-2004)


Donation to Department of Geography, Film Recorder from Exon, $300,000 (1999).


1. Program Improvements

A. New Undergraduate Courses:
   Summer Seminar in Greece. (Richard Berthold)
   320. Latin American Labor History (Elizabeth Hutchison)
   320. History of Latin American Religions (Elizabeth Hutchison)
   320. Native American Southwest (Samuel Truett)
   366. Race in the Twentieth Century United States (David Farber)
   380. Hispanic Frontiers in North America (Samuel Truett)
   492. Atomic America (Timothy Moy)
   492. United States and the Pacific Rim (Noel Pugach)

B. New Graduate Courses:
   510. Race, Ethnicity and National Identity in Latin America (Judy Bieber)
   510. European Expansion in Asia (Jonathan Porter)
   568. America in the 1960s (David Farber)
   581. From Indian to Peasant and Back Again (Kimberly Gauderman)
   582. Military and Society in Latin America (Elizabeth Hutchison)

2. Student Achievements

A. Awards, Fellowships, Prizes:
   Chamberlain, Kathleen
   Tom L. Popejoy Dissertation Prize
   Key, M. David
   Frederick G. Bohme Memorial Prize
Kleiner, Catherine
Dorothy Woodward Memorial Fellowship

Marrah, Jennifer
American History Scholarship from the National Society of Colonial Dames of America.

Solomon, Carlos
Joseph M. Montoya Fellowship

B. Placement

Carey, Elaine
University of Detroit Mercy

Davis, Jerry
The Oakridge School, Arlington, TX

3. Faculty Achievements

A. Faculty Publications:

Berthold, Richard


Bieber, Judy

*Power, Patronage and Political Violence: State Building on a Brazilian Frontier*. Lincoln, Nebraska University of Nebraska Press, 1999.


Bokovoy, Melissa


Connell-Szasz, Margaret


Etulain, Richard


"Introduction," to Owen Wister, *Salvation Gap and Other Stories* (Lincoln: Nebraska University of Nebraska Press, 1999), vii-xv.


Farber, David


Feller, Daniel


Hall, Linda


Hutchison, Elizabeth


Moy, Timothy


Porter, Jonathan


Pugach, Noel


Risso, Patricia


Rubenstein, Jay


Scharff, Virginia


Slaughter, Jane


Spidle, Jake


Steen, Charlie

"Ceremony and Order in the Court of Louis XIV." *Proceedings of the Western Society for French History* 26 (December 1999): 291-301

Szasz, Ferenc


Review of *European Immigrants in the American West; Community Histories*, by Frederic C. Luebke. In *South Dakota History* 29 (Fall 1999): 250-251.


Yazawa, Melvin


B. Conference and Other Presentations:

Bokovoy, Melissa


Connell-Szasz, Margaret


Etulain, Richard

"Telling Western Stories." Lecture of the Year, NMSU, Las
Cruces, March 1999.

"Western Stories for the Next Generation." Presidential Address, Western History Association, Portland, October, 1999.

"Billy the Kid: Man and Mystery." Eastern New Mexico University, Portales, March 1999.

"Calamity Jane: Life and Legends." Pioneer Museum, Lander, WY, September 1999,

Farber, David

"Sixties Historiography." Fairfield University, Faculty Summer Seminar, July 1999.


"Teaching the 'Sixties." Connecticut on Social Studies, November 1999.

Feller, Daniel


Gauderman, Kimberly


Hall, Linda

"Oil, Banks and Politics: The United States and Post-Revolutionary Mexico"; "Sacred Landscapes: The Virgin Mary in Reconquest Spain and the Conquest of Latin America"; "Evita and Mary: Religious Image and Political Resonance in Argentina." Three Lectures at the University of Texas, El Paso, October, 1999.


Hutton, Paul

"Roosevelt's Rough Riders." Ron Bishop Film Festival, Buffalo Bill Historical Center, Cody, WY, February 1999.


"The Western Hero." Larom Summer Institute, Buffalo Bill Historical Center, Cody, WY, June 1999.


Wyatt Earp." Autry Museum of Western Heritage, Los Angeles, CA, September 1999.

"Phil Sheridan and the Red River War." Order of the Indian Wars Symposium, Amarillo, TX, September 1999.

Moy, Timothy


Porter, Jonathan


Rubensteiin, Jay


Scharff, Virginia


Slaughter, Jane

"Gender and the ‘Good Life’." Women’s History Conference,

"War and Gender: Memory and Experience." Marquis Lecture Series, Coe College, Cedar Rapids, IA, March 1999.

Spidle, Jake

"Pioneer Physicians and Surgeons of Luna County." Deming/Luna County Historical Society, Deming, January 1999.

St Vincent’s Hospital: An Overview History." Santa Fe County Medical Society, Santa Fe, February 1999.


"Coughing and Spitting in New Mexico History. The Story of New Mexico Program, UNM Division of Continuing Education, October 1999.


Szasz, Ferenc


"Atomic New Mexico." Museum of New Mexico, Santa Fe, October 1999.


Yazawa, Mel

"The Historical Context of the Second Amendment." Annual Meeting of the N.M. Chapter of the American Civil Liberties Union, April 1999.

C. Prizes and Awards:

Berthold, Richard

El Paso Natural Gas Foundation Faculty Achievement Award.

Bokovoy, Melissa
Barbara Jelavich Prize for Distinguished Monograph on Any Aspect of Southeast European or Habsburg Studies since 1600 or on Nineteenth or Twentieth-Century Ottoman or Russian Diplomacy. Awarded by the American Association for the Advancement of Slavic Studies.

Connell Szasz, Margaret

"All Our Relations Award" UNM Native American Scholarship and Research Council. Recognizing her "commitment to the academic success of Native American students."

Etulain, Richard

President, Western History Association

Hall, Linda

Chosen 1999-2000 Snead-Wertheim Lecturer

Hutton, Paul

Western Heritage Award, National Cowboy Hall of Fame

Elected Vice President of Western Writers of America

4. Faculty Professional, Community and University Service

A. Professional:

Berthold, Richard

President, New Mexico Association of Scholars

Bieber, Judy

Editorial Board, Colonial Latin American Historical Review

Evaluator, Summer Stipend Applications, Latin America, Asia and Africa, National Endowment for the Humanities

Bokovoy, Melissa

Editorial Board, H-Habsburg

Editorial Board, Nationality Papers

Connell-Szasz, Margaret

Panel of Reviewers, Journal of American Indian Education

Board of Editors, Montana, The Magazine of Western History
Etulain, Richard
President, Western History Association

Farber, David
Editorial Board, *Mid-America*

Feller, Daniel
Conference Coordinator, Society for Historians of the Early American Republic

Hall, Linda
Nominating Committee, American Historical Association

Hutton, Paul
Executive Director, Western History Association
Executive Board, Western Writers of America
Spur Awards Chairman, Western Writers of America
Editorial Board, *Indiana Magazine of History*
Member, Little Bighorn Indian Memorial Advisory Committee

Risso, Patricia
Review Committee, Summer Applications, National Endowment for Humanities

Scharff, Virginia
Executive Committee, Pacific Coast Branch, American Historical Association
Advisory Board, Society for the History of Technology
Nominating Committee, Western History Association

Spidle, Jake
Fulbright Selection Committee, Germany Program

Steen, Charlie
Treasurer, Western Society for French History

Yazawa, Mel
Panel Member, Fellowships for University and College Teachers,
National Endowment for the Humanities

B. Community
Moy, Timothy
Member, Coalition for Excellence in Science Education
Pugach, Noel
Consultant, Sandia National Laboratories, Pilot Training Project on Emerging Threats
Slaughter, Jane
Member, Board, Albuquerque Teacher's Institute
Spidle, Jake
Historian/Consultant, New Mexico Medical History Program
Yazawa, Mel
Board of Directors, American Civil Liberties Union, New Mexico

C. University:
Berthold, Richard
Member, Athletic Council
Bokovoy, Melissa
Co-Chair, European Studies Committee
Member, Faculty Senate Athletic Council
Member, Russian Studies Committee
Connell-Szasz, Margaret
Member, Native American Studies Faculty Curriculum Committee
Member, International Programs Faculty Advisory Committee
Etulain, Richard
Member, Search Committee for UNM Provost
Member, UNM Press Committee
Member Research Allocations Committee
Farber, David
Member, A&S Senior Promotion Committee
Member, University Curricula Committee

Gauderman, Kimberly
Member, LAII Grants and Awards Committee
Member, UNM Fulbright Commission

Hall, Linda
Director Latin American Studies, LAII
Member, Task Force on Graduate Enrollment

Hutchison, Elizabeth
Member, Interdisciplinary Committee on Latin American Studies, LAII
Secretary, Faculty Concilium on Latin America and Iberia

Moy, Timothy
Participant, LOBOrientation Program for In-Coming Freshmen

Pugach, Noel
Member, Asian Studies Committee
Member, UNM Library Committee
UNM Representative, Atlantic Council Academic Associates
Member, UNM Phi Beta Kappa Selection Committee

Porter, Jonathan
President, UNM Faculty Senate
Member, UNM Faculty Senate Operations Committee

Risso, Patricia
Member, Asian Studies Committee
Member, Medieval Studies Committee
Member, Religious Studies Advisory Committee
Member, A&S Graduate Advisors Committee
Rubenstein, Jay
Member, Religious Studies Committee
Member, Medieval Studies Committee
Scharff, Virginia
Chair, A&S Junior Tenure and Promotion Committee
Vice-Chair, UNM Press Board
Slaughter, Jane
Director, Feminist Research Institute
Member, Women Studies Executive Committee
Chair, University Faculty Governance Committee
Chair, Ad Hoc Committee to Revise Faculty Handbook
Member, Government Relations Committee
Co-Chair, European Studies Committee
Steen, Charlie
Member, A&S Curriculum Committee
Member, UNM Undergraduate Committee
Chairman, University Admissions and Registration Committee
Member, Task Force on Advising
Truett, Samuel
Member, Program Committee, Latin American and Iberian Faculty Concilium
Yazawa, Mel
Member, Academic Freedom and Tenure Committee
Member, UNM Scholarship Committee
Faculty Senate
Member, Faculty Senate IDC (Overhead Revenues) Committee
5. Faculty/Staff Appointments and Separations

Jay Rubenstein. Appointed Assistant Professor, Medieval History

Lynn Schibeci. Appointed Assistant Professor, Modern European History

6. Future Plans

Department plans include continued efforts to improve undergraduate and graduate instruction by offering more courses. We hope to do this by making a new appointment in the field of U.S. Late Nineteenth-Early Twentieth-Century history, an area which has been vacant since 1998. We expect that our new hire in Chicana/o history will strengthen our U.S. and Western History programs. We also hope to quickly replace Robert Kern, whose recent death has created a significant gap in both European and Latin American programs.
1. Program improvements

- During this year we turned our attention to our lower division undergraduate courses and worked on a proposal to revise our 200-level introduction to linguistics. We also added sections of 101 at prime times. We will continue to work on these proposals.
- We offered an extra session of LING 440 in conjunction with the English as a Second Language Workshop offered by the College of Education. We plan to collaborate further with the COE on this course in the future, increasing our enrollment.
- We offered a special course on ASL phonology with a visiting faculty member from Purdue University. This course served both our students and faculty interested in ASL and those interested in phonology.
- We have also developed a concentration at the MA and PhD level in Computational Linguistics, an area of great demand currently. This fall we are offering, together with Computer Science, a course in Computational Linguistics. Caroline Smith of Linguistics and George Luger of Computer Science are co-teaching the course, both overload.
- We have now acquired our long-awaited first floor space, which provides much-needed facilities for the Signed Language Interpreting Program, including administrative and faculty offices, seminar and other meeting rooms.
- The new space opens up room for the long-promised labs for Assistant Professors, Jill Morford and Caroline Smith, who are now able to proceed full force with their research programs.
- We developed an advertising poster to mail out to related programs in the hopes of recruiting more students, especially at the graduate level. Even without advertising, graduate enrollment is at a high level. We now have 22 MA students and 13 Ph.D. students.

2. Student Achievements

- Publications by students
  Joanne Scheibman published one article in Linguistics with Joan Bybee and another in Journal of Pragmatics.

• Conference presentations

_Catie Berkenfield_, MA student, presented a paper at the Linguistic Association of Canada and the US, at the University of Alberta in August 1999.

_Jordan Lachler_, PhD student, presented a paper, "The native languages of New Mexico: A census report." With M. Axelrod and J. Gómez de García. At the Stabilizing Indigenous Languages Conference in Toronto, Canada last winter. At the Mid-America Linguistics Conference in Lawrence, KS in November of 1999, he presented "Jicarilla Apache language preschool immersion program" and a paper on "Verb Stem Ablaut in Navajo".

_Michelle Coronado_, a major in the Signed Language Interpreting program, presented "Elements of Grammaticalization Specific to American Sign Language" at the Research Opportunity Program Colloquium on Sept 4, 1999.

_Anna Vogel Sosa, Li Hsiang Chang and James MacFarlane_ presented papers at the Third Annual High Desert Linguistic Society Conference in April of 2000.

• Honors, awards, fellowships


_Michelle Coronado_, an undergraduate student, was awarded a Bill Gates Millenium Scholarship.

_Naomi Yao_, an undergraduate major, was accepted into the UNM Research Opportunity Program this summer. She is scheduled to present "American, French, and Catalan Sign Language: An Exploration of Development Through an Educational Perspective" at the UNM Student Research Fair on Sept 14, 2000.

_Dan Parvaz_, an MA student, worked during the summer on a project at LANL as a graduate student under the science education program with CIC-3, Los Alamos National Laboratory in the Distributed Knowledge Systems and Modeling team. The project is part of an agreement between LANL and the Xerox Palo Alto Research Center.

• Community service

_Laurel Standley_, doctoral student in Educational Linguistics, serves on the NM State Bar Committee on Delivery of Legal Services to Persons with Disabilities, 1998-present. She also received Special Certification from the Registry of Interpreters for the Deaf for Legal settings.

_Dan Parvaz_, MA student, served as President of New Mexico Registry of Interpreters for the Deaf Advisory Committee, as a member of the Community Outreach Program for the Deaf; he was also State Legislative Leader of the Juvenile Diabetes Foundation and a member of the Deaf Advisory Group, Los Alamos National Lab. Dan also designed and maintained Web Pages for UNM Deaf and Hard-of-Hearing Services and the International Cognitive Linguistics Association.
Barbara Shaffer, doctoral student in Educational Linguistics, coordinated the statewide Educational Interpreting Inservice Training program at the New Mexico School for the Deaf in June 2000.

Elisa Maroney, doctoral student, is the Region IV Representative to the Conference of Interpreter Trainers (CIT).

- Student Organization
  The High Desert Linguistic Society, mounted a very successful conference, April 7-9, 2000 on the UNM campus. Out of 30 abstracts received, 28 papers were accepted for presentation. The participants came from all of the US, and included international participants from France, Denmark and Finland. Keynote speakers were John Haiman, Macalester College and Colette Grinevald, University of Lyons, II. Eleven papers were accepted for publication in the proceedings, which is being edited by K. Aaron Smith and Dawn Nordquist, doctoral students.

- Placement of graduates.
  All three of our Ph. D. recipients have been placed in excellent university positions: Dagmar Jung as an assistant professor of linguistics at the University of Cologne and Joanne Scheibman as an assistant professor of English at Old Dominion University. Terry Janzen is a visiting assistant professor at the University of Manitoba.

3. Faculty Achievements

- Melissa Axelrod and Phyllis Wilcox were promoted to Associate Professor with tenure.
- New faculty hired: Barbara Shaffer, Assistant Professor, Bonnie Rudy, Lecturer II.
- Books edited by faculty: Two edited volumes in which faculty members Sherman Wilcox and Jill Morford collaborated with researchers at other universities have appeared:


- Articles in refereed journals


• Book chapters: Faculty members published a total of eleven book chapters during the year. See the Annual Biographical Reports.

• Conference presentations: Faculty members presented a total of seventeen papers or posters at national and international conferences. See the Annual Biographical Reports Caroline Smith gave an invited lecture at USC.

• Grants awarded

Caroline Smith was awarded an NSF grant ‘Modeling durational patterns in connected discourse’ $127,804, 36 months.


• Awards and honors

Phyllis Wilcox received the Outstanding Service Award from the Registry of Interpreters for the Deaf for service on the Ethical Practices Review Board.

4. Faculty Professional, Community and University Service.

• University service

  Eduardo Hernández-Chávez serves as the Director of the Chicano Studies Program.
  Jill Morford served on the Faculty Senate
  Garland Bills served on the Faculty Senate Budget Committee and plays various roles in the Latin American and Iberian Institute.

• Community service

Melissa Axelrod organized and conducted Teacher Training and Curriculum Development Workshops, Jicarilla Apache Tribe, Dulce, NM, and participated in the Summer Language Immersion Camp.

Eduardo Hernández-Chávez participates in various community and educational organizations concerned with the maintenance and role of Spanish in the US.

Phyllis Wilcox served on the Governor’s Task Force SJM44 (Teaching ASL as a foreign language in secondary schools) and other community organizations.

• Editorial work

Joan Bybee is on the board of editors for Linguistics and Studies in Language.
Alan Hudson is on the editorial board of *Language, learning and curriculum* and *Second Language Learning and Acquisition Abstracts*.

Phyllis Wilcox is on the editorial board of *Sign Language Studies* and *Sign Language and Linguistics*.

Sherman Wilcox is the general editor of the journal *Evolution of Communication*, associate editor of *Sign Language Studies* and on the editorial board of *Journal of Interpretation*.

5. Other Data

- Enrollment

We continue to have very few undergraduate majors in linguistics per se: eight for the current year. However the Sign Language Interpreting Program is once again near capacity with about 32 majors, after a dip in enrollment due to faculty and administrative problems.

Enrollment at the graduate level is up, with 22 MA students and 13 Ph.D. students.

We had nine applicants for the Ph.D. program for fall of 2000; we accepted five of these and four have enrolled. Of eleven MA students admitted for fall of 2000, eight have accepted.

Enrollment in LING 101 is up to about 300 students per semester; about 200 other undergraduates enroll in Linguistics courses each semester.

- Fund Raising

This year our fundraising activities focussed on raising money for furniture and equipment for the new space occupied by the Sign Language Interpreting Program. We were able to raise a total of $11,603 in this effort.

We continue to receive annual contributions from Robert W. Bybee which are matched by the Exxon Foundation for a total of $10,000.

6. Staff Appointments

The only new staff appointment for the year was the half-time appointment of Darynda Jones to replace Ariane Batton as Administrative Assistant to the Coordinator of the Sign Language Interpreting Program.
7. Public presentations sponsored by the Department of Linguistics

Colloquia with outside speakers

Terry Janzen, University of Manitoba, ‘Word order in an ASL Narrative Text’ October 8, 1999

Nuria Sagarra, Department of Spanish and Portuguese, UNM, ‘Working memory and second language acquisition’ October 22, 1999

Roger Fouts, Central Washington University, ‘Ape language and the implications for science and ethics’ November 5, 1999


Doctoral dissertation defenses


MA Thesis defense

Catie Berkenfield, ‘The roles of grammaticization and frequency in describing the category structure of English that.’ November 12, 1999.

Dissertation proposal presentations


Brown Bag Series

Josep Maria Segimón, Centre d'Estudis de la Llegua de Signes Catalana, Barcelon, Spain
'Signed languages in Catalonia’ September 8, 1999.

Jill Morford and Caroline Smith, UNM, ‘Locating jobs and preparing a CV’ October 20, 1999.


Interviewee presentations


8. Future plans

The Sign Language Interpreting Program seeks to offer a master's degree in signed language interpreting. They are currently preparing a proposal. The State Department of Education supports this plan and has offered to contribute to the salary of a new assistant professor over a period of three years.
The Department of Mathematics and Statistics continued to meet the demands of its broadly defined missions in education, research, and service during the 1999-00 academic year.

1. Program Improvements

Curriculum and Course Changes: The department has been working with the Registrar for the last year to install I-TEL UNM pre-requisite checks for Math 120 through Math 181. This new system will enable the students to be routed electronically to the class that corresponds with their ACT/SAT scores as well as their previously completed classes. This should help considerably with retention and passing rates in our courses.

The revised descriptions for our curriculum are as follows: (1) In order to take Math 150, “the student must have a grade of C (not C-) or better in Math 121”; (2) The catalog has been changed to allow “credit for both Math 121 and 150.” This should help better prepare students for calculus.

Efforts to Strengthen Teaching: Dr. Arthur Bukowski was a team member on the New Mexico-CETP grant that allowed him a course release to survey existing programs for teaching algebra and pre-calculus classes. Our current course structure is rather classical and lecture based so these courses will be modernized to provide a better education for the students.

The department requests that all foreign students, who are teaching assistants, be tested for intelligibility at the Speech and Hearing Department. If the student has a low intelligibility level, the student is asked to take an accent reduction problems class in the Speech and Hearing Department as part of his/her course work.

TARC or ITARC is a required course for our new teaching assistants to enhance their teaching skills. Our class coordinators visit every new teaching assistant and part-time instructor’s class during the first four weeks of the semester to ensure that the instructor has good teaching methods. If an instructor is found to be deficient in these skills, then the coordinator works with the instructor by providing methods to enhance his/her skills.

Opportunities made available to students outside the classroom, such as honors programs, field schools, laboratory or other research opportunities, collaboration with faculty, internships: The Statistics Clinic, a consulting service directed by Professors Bedrick and Christensen, has been operational for two and one-half years. It has been staffed by statistics faculty and graduate students and offers statistical services without charge to students at UNM in support of their academic research. This service is funded by the College of Arts and Sciences, the Department of Mathematics and Statistics, the UNM Office of Research Services, and CIRT.

Efforts to Improve Student Recruitment and Retention: Ms. Roxanne Littlefield, our academic advisor, is on Associate Provost Peter White’s Core Retention Committee. This
committee is charged with improving the retention rate at the undergraduate level and with accommodating the entry-level student. Also, Provost Peter White has a faculty retention team called the Rapid Response Team. Ms. Laura Cameron, Lecturer III, is on this team that deals with issues of total enrollments, closed classes and general preparations for predicted number of freshmen.

2. Student Achievements


External Funding: Ben Jones - National Foundation Brain Imaging; Igor Nazarov - NASA; Alice Yuen – Albuquerque High Performance Computing Center & Sandia National Laboratories; Elizabeth Burroughs - Sandia National Laboratories; Melissa Morris – SNL & LANL; and Ann Kaul – SNL & LANL; and Hwa Chi Liang - LANL; Ruhai Zhou - Albuquerque High Performance Computing Center; and Paul Bennett - Albuquerque High Performance Computing Center.

Awards, Fellowships, Prizes: Anthony Malerich and Derek Martinez received a $1,500 scholarship from the department’s Efremyson Scholarship Fund. Anthony Malerich - NSF award to study in Japan during the summer 2000; Mei Qiu – one of five students who won the Ellis Ott Fellowship from the American Society for Quality Control; Elizabeth Burroughs – NSF graduate research fellowship; and Anthony Malerich -Teaching Assistant of the Year Award.
The Department of Physics and Astronomy and the Department of Mathematics and Statistics held a joint graduation ceremony on May 12, 2000. We awarded a total of 20 BS degrees, 12 MA degrees, and 1 Ph.D. degree for AY 1999-00. The number of BS and MA degrees were very close to last year’s numbers, and the Ph.D. degrees dropped from 11 to 1. The following awards were presented: Outstanding Graduate Teaching Assistant: Benjamin Jones, Tony Malerich, Derek Martinez, and Lyudmila Sackhanenko; Outstanding Graduating Seniors: George Bissias, Michael Goodrich, Isaac Block, and Kenneth Tapia; Professor Walter T. Kyner Award for an Outstanding Doctoral Student: Melissa Morris; and Outstanding Teaching Awards: Elizabeth Malloy, Cathy Gosler and Charles Boyer.

Community, University, or Professional Service: Anthony Malerich, Beth Burroughs, Andrey Glubokov, Dmitriy Panchenko, Melvin Lewis, Sarah Rich, Alice Yuen, Stanislaw Dolega, Derek Martinez, Nate Tymes. Laura Ring and Pablo Silva participated in grading for the PNM/UNM Math Contest. Anthony Malerich proctored for the Putnam contest.

Placement Upon Graduation: Amber Anderson graduated in December 1999 with a Ph.D. in statistics and is working as a statistician with SmithKline Beecham in Philadelphia, PA.

3. Faculty Achievements


Efroymovich, Sam "Best Fourier approximation and application in efficient blurred signal reconstruction,"
Collaborations with Faculty in Other Departments and/or Universities: **Edward Bedrick** - Joe Powell in Anthropology, UNM, Bill Gannon and Carla Restropo in Biology, UNM, Alok Bohara and Kishore Gawande in Economics, UNM, Bill Brooks and Bill Sibbitt at the Clinical and Magnetic Resonance Research Center, UNM, Chris Stidley and Kristine Tollestrup in Family and Community Medicine, UNM, Leah Albers in Nursing, UNM, Rick Crowell in Internal Medicine, UNM, Harriet Smith in Obstetrics and Gynecology, UNM, Cozette Wheeler in the Cancer Center, UNM, Susan Atlas at the High Performance Computing Center, UNM. **Vakhtang Poutkadaze** - Technical University of Denmark, Dept., Prof. Tomas Bohr, Ibaraku University; Dept of Mathematics (Japan), Prof. Shinya Watanabe; University of Chicago, Dept of Mathematics, Prof. Peter Constantin. **Thomas Hagstrom** - Brad Alpert, NIST Boulder; John Goodrich, NASA Glenn Research Center; Leslie Greengard; Courant S. I. Hariharan, The University of Akron; Jan Nordstrom, FFA (Aeronautical Research Institute of Sweden. **Alex Stone** - C. E. Baums (AFRL). **Wojciech Kucharz** - J. Bochnak in Amsterdam, K. Rusek in Poland, T. Mostowsk in Warsaw. **Krzysztof Galicki** - Prof. Paolo Piccinni, University of Rome "La Sapienza". **Jens Lorenz** - Prof. H. O. Kreiss, UCLA; KTH (Stockholm) Prof. W. J. Beyn, Universitaet Bielefeld, Germany; Prof. K.D. Edoh, Elizabeth City State Univ.; NC Prof. H. J. Schroll, NTNU Trondheim, Norway. **Charles Boyer** - Jacques Hurtubise from McGill Univ; Univ de Montreal, Centre de Recherche Matematiques (currently Director); R.J. Milgram from Stanford University. **Stanly Steinberg** - José Castillo: Grid Generation, Finite Volume Methods; Pedro Espinoza: Mimetic Methods, Nonlinear Elliptic and Parabolic PDEs; Hoon Hong: Quantifier Elimination Applied to Numerical PDEs; Mac Hyman: Mimetic Discretizations; Elaine Kant: Scicomp, Inc., AI and CA Technologies for Code Generation; Pat Knupp: Grid Generation; Richard Liska: Computer Algebra, Numerical; Tom Robey: Finite Elements; Misha Shashkov: Support Operator Discretizations; Burt Wendroff: Numerical Methods; Michael Wester: Computer Algebra; and Paulo Zingano, TVD and Algebraic Differential Equations; **Michael Nakamaye** - AMS meeting Austin Texas; AMS meeting Charlotte, NC; Colloquium at University of Utah; Number Theory Seminar at Brown; Number Theory Seminar, ETH Zurich.

The Statistics Clinic has a mission to improve the quality of research at UNM, as well as to enrich the education and training of statisticians through their involvement in statistical consulting. Consultants in the clinic met with clients over 377 times during AY 1999-00. We had appointments with clients from Psychology, Pharmacy, Biology, History, Education, Economics, Linguistics, Nursing, Sociology, Computer Science, Business, Physical Therapy, Anthropology, Geography, English, Parks and Recreation, Nutrition, Surgery, Neurology, Spanish and Portuguese, Public Health, and Family and Community Medicine. As in previous years, Biology made the most use of our services with large numbers of meetings with the Medical school, Anthropology, Education, Psychology, and Linguistics. In addition we worked with external agencies such as the New Mexico Lottery, The New Mexico Dept. of Fish and Wildlife, and the Albuquerque Transit Authority.

**New Grants or Contracts:** The following faculty members were awarded new grants: Professors Boyer, Buium, Efromovich, Galicki, Hagstrom (3), Loring, Sulsky (2), Stone, Poutkaradze (2), and Salter.

**Ongoing External Funding:** The following faculty members received ongoing external funding: Efromovich, Ellison, Embid, Hagstrom, Kapitula, Kolchinskii, Kovanis, Lorenz, Loring, Nitsche, Pereyra, Salter, Steinberg (3), Stone, Sulsky (2), and Wofsy.
Election to National Scholarly or Disciplinary Societies: **Edward Bedrick** - President Elect of the Western North American Region (WNAR of the International Biometric Society);

**Prizes, Awards, or Fellowships:** **Krzysztof Galicki** - NSF Award in Geometric Analysis, Contact Geometry and Einstein Manifolds, (with C. P. Boyer); Spring 2000 - UNM A&S Senior Professor Research Semester Award. **Cristina Pereyra** – visiting fellow at the Centre de Recerca Matematica, Barcelona, Spain (summer 1999). **Charles Boyer** - Outstanding Graduate Teaching award.

**Citations:** **Thomas Hagstrom** was cited in 19 published articles by other authors. Other authors cited **Stanly Steinberg** and P. Knupp 38 times in publications.

4. **Faculty Professional, Community, and University Service**


Served as Officers or Members of Key Committees in National or Regional Professional Organizations: **Laura Salter** - WNAR program chair for SSC-IMS-WNAR meeting to be held in June 2001; Program committee member for ICCS (International Conference on Computational Science) to be held in May 2001. **Alex Stone** – member, International Committee for EUROE meeting in Edinburgh. **Krzysztof Galicki** – “Holonomy Groups in Differential Geometry” Erwin Schrödinger Institute, Vienna, Austria; grant for the proposal funded by the Society of the International Erwin Schrödinger Institute (with D. Alekseevsky, and C. LeBrun).

Participated in Site Visits to Other Universities on Behalf of Granting Agencies, accrediting bodies, or program review organizations: **Thomas Hagstrom** served on an NSF panel reviewing ITR proposals.

Represented their discipline or the university before Legislative Bodies: None.

Spoken to Community Organizations Concerning Disciplinary or University Issues: None.

Participated in Outreach Activities (for example, guest lectures, classroom visits, demonstrations, science fairs) in Primary or Secondary Schools: **Cathy Gosler** - participated as a judge in the Northwestern New Mexico Regional Science Fair on March 17, 2000, and has given several math art presentations to school groups who visit the campus. **Stanly Steinberg** - participated as a judge in the Science Fair at Zia Elementary School.
Cristina Pereyra and Cathy Gosler continued the UNM Mathematics Contest with funding ($11,000 per year) from the Public Service Company of New Mexico Foundation. Prizes, including books, cash, and scholarships, were awarded at a banquet for contest winners in May 2000. Professor Serge Lang, Yale University, a world-renowned mathematician, gave an entertaining pair of general interest lectures in connection with the contest. Dr. Pereyra designed the exams and organized the public lectures for Professor Serge Lang. Luis Mata-Lorenzo, Laura Cameron, Cristina Pereyra, Cathy Golser, David Blankenbaker, Ralph DeMarr, and Adriana Aceves graded the exams with the help of many of our teaching assistants and high school teachers from Albuquerque. Dr. Arthur Bukowski contributed financial support to the contest. Phil Herlan is the state director of American Mathematics Competitions for New Mexico. This annual AMC contest is in its sixteenth year and covers material normally associated with the middle school mathematics curriculum. The participants are accelerated fifth and sixth grade students.

Given on-campus Tours, Workshops, Performance, or Other Activities for Community Members: Cathy Gosler and has given several math art presentations to school groups who visit the campus.

Served on Departmental, College, or University Committees or Held Administrative Positions Outside the Department: Alex Stone - Staff Benefits Committee. Laura Salter - Search Committee Member, UNM Mathematics and Statistics Department, 2000. Search Committee Member, UNM Biology Department, 1999. Edward Bedrick - Served on Medical School hiring committee for a Biostatisitician. Alex Stone - department liaison to MAA, member, UNM faculty-Staff Benefits Committee. Cristina Pereyra – Hiring Committee for two lecturer positions, Graduate Committee, member of the subcommittee responsible for writing and grading the Real Analysis Qualifying exam, reviewer for Mathematical Reviews; organized the Third New Mexico Analysis Seminar (joint NMSU/UNM) at NMSU, Las Cruces, NM.

5. Data

Undergraduate Majors per FTE Faculty: Our department had 122 majors FY 1999-2000. Thirty-three research faculty members divided by 122 = 3.70 students per FTE.

Undergraduate and graduate Student Credit Hours per Faculty: Our department had a total of 37,750 undergraduate student credit hours or 1,143.94 undergraduate student credit hours per faculty member. The graduate student credit hours were 1,135 or 34.30 graduate student credit hours per faculty member.

Grant/Contract/Award Dollars per FTE Faculty: Total research funding from July 1, 1999 to June 30, 2000 was $608,461. Thirty-three research faculty members divided by $608,461 = $18,438 per faculty member.

IDC Dollars per FTE Faculty: The IDC for CY 99 was $154,692. Thirty-three research faculty, members divided by $154,692 = $4,688 per faculty member.

Private Contributions: The department received $45,000 from an anonymous donor in Spring 2000.
Underenrolled Classes: There were a few underenrolled section among courses cross-listed with math but not taught by us, as well as a few sections of courses taught as overloads for the faculty member. The only true underenrolled courses were Math 309-001 (10 students) and Math 181-004 (9 students), both in Fall 1999, and Math 521-001 (4 students) in Spring 2000.

6. Faculty/Staff Appointments and Separations: Three professors, who were hired in spring 1999, began their appointments in fall 1999: Drs. Nakamaye, Poutkaradze, and Salter. There was one new hire to the tenure track faculty, Dr. Timothy Hanson, who will begin in fall 2000. The following lecturers were hired: Dr. Arthur Bukowski, Lecturer III, in August 1999; Dr. Kristin Umland, Lecturer III, January 2000; and Mr. Jurg Bolli, Lecturer II, January 2000. Professor Luis Mata-Lorenzo from La Universidad de Simon Bolivar was a visitor and Part-time Instructor in the department during the academic year 99-00. Dr. William Zimmer retired from the department at the end of spring semester 2000. Dr. Arthur Bukowski resigned his position as a Lecturer III in May 2000 to take a position at New Mexico School of Mining and Technology. Charles Mader, Systems Analyst II, resigned his position in April 2000 to take a position at CASAA. Susan Pinter, Technical Writer, resigned her position in June 1999 and accepted a position as Department Administrator in the Department of Anthropology. Trevor Bilmes was hired as an Accounting Technician effective September 1999. Linda Cicarella was hired as a Technical Writer effective August 1999. Kathleen Hall resigned her position as Administrative Assistant I in April 2000. She had been with the department for 19 years.

7. Future Plans: We would like to restructure the course numbering systems at the UNM Branch Colleges so that all math courses will carry the same catalog numbers as UNM main campus. We are desperate for more faculty. We have approval for three positions: (1) statistics, (2) applied analysis, and (3) applied computational mathematics. We need to hire in many consecutive years in order to come back to a critical mass. Regular faculty should be teaching courses from the level of calculus and beyond, but we have many part-time faculty members teaching calculus and even 300-level or graduate courses. We had a total of 34 part-time instructors who taught 74 sections in fall 1999, and 26 part-time instructors who taught 48 sections in spring 00. Graduate offerings are slim to nonexistent in key areas. Only tenure stream faculty can maintain the health of our programs. We need to develop a coherent strategic plan to guide our next several hires.

Advisement needs to be tightened up at both the graduate and undergraduate levels. The graduate committee, headed by Professor Aceves, and the undergraduate committee, headed by Professor Coutsias, will work with the staff to improve the situation. Students are taking too long to complete a degree; these efforts should help improve that situation.

We need to develop assessment for our huge service courses. These multi-section courses need to be better coordinated with respect to syllabi, homework, and exams. We may need to examine our extensive use of part-time faculty in those courses to see if improvements in staffing are possible.

The Plan I MS degree is new for our department. It should provide a means for an attractive terminal professional degree, but we need to work carefully on implementation.
Several undergraduate curriculum change proposals need to be discussed and implemented. A promising one is a fifth year teaching certificate program joint with College of Education, possibly evolving into a Master of Arts in Teaching. Some convergence of pure and applied mathematics programs seems possible.

We need to continue expanding our efforts for training TA's and part-time instructors.
Dept. of Philosophy  
Submitted by Barbara Hannan, Chair

Significant Developments During Academic Year 1999-2000

The Philosophy Department conducted an extensive international search for a promising young Assistant Professor in the field of 19th and 20th Century Continental Philosophy. This search culminated in the hiring of Iain Thomson (Ph.D 1999, University of California, San Diego). Prof. Thomson specializes in the philosophy of Martin Heidegger.

During the search process, we had several finalists come to campus and give talks. These included:

Iain Thomson (U. Cal. San Diego), “Heidegger’s Ontotheory” (12/16/99)

Michelle Kosch (Columbia), “Schelling’s Conception of Freedom” (12/20/99)

Alan Kim (McGill University), “Two Theories of Objective Being” (12/22/99)

Steven Affeldt (Johns Hopkins), “Moral Exercises in Wittgenstein’s Philosophical Investigations” (2/10/00)

Hans Lottenbach (Princeton), “Fichte’s Theory of Intersubjectivity” (2/14/00)

Iain Macdonald (McGill University), “Semblance and Truth in Art: Hegel, Adorno, and Yves Klein” (2/18/00)

These were an outstanding pool of applicants. Each of these talks provoked much discussion. In addition to search-related talks, the regular departmental colloquium series brought the following speakers to campus:

Denis McManus (University of Southampton and University of Chicago), “Wittgenstein, Meaning, and Metaphysics” (10/29/99)

Christopher Hookway (University of Sheffield), “Truth and the Convergence of Opinion: Some Pragmatist Themes” (11/10/99)

Michael Bratman (Stanford), “Valuing and the Will” (11/19/99)

C. Stephen Evans (Yale Univ. and Calvin College), “Kierkegaard’s View of the Self” (1/28/00)

Igal Kvart (Hebrew Univ. of Jerusalem), “A Theory of Cause” (2/7/00)

John Haugeland (University of Chicago), “Two Dogmas of Rationalism” (4/20/00)
Clifton Perry (Auburn University), "The Influence of Health Insurance on Medical Liability in Managed Care Organizations" (4/28/00)

Several speakers from UNM’s own faculty and graduate students also joined the colloquium series. These included:

Leora Weitzmann (UNM Visiting Professor), “Our Knowledge of Our Own Mental States” (3/3/00)

Fred Schueler (UNM Professor), “What’s Wrong With the Practical Syllogism” (9/17/99)

Steve Scholz (UNM Ph.D candidate), “Forgiveness as Absolution” (12/10/99)

As we do every year, we hosted the O’Neil Memorial Lectures in the History of Philosophy, an endowed lecture series. In 2000 our speaker was Terence Penner of the University of Wisconsin, Madison. He gave three talks:

1. “Two Belief/Desire Psychologies of Action and Their Ethical Consequences” (3/6/00)

2. “Kant, Reasons Theories, and Practical Reason” (3/7/00)

3. “Socratic Egoism With Some Incidental Remarks on Aristotelean Practical Reason” (3/8/00)

The University of New Mexico Philosophy Dept. also played host to the Pacific Division of the American Philosophical Association at its annual meeting in spring 2000. The meeting was held at the Hyatt Regency Hotel in downtown Albuquerque, and was attended by philosophers from all over the United States. The dates of this convention, featuring a full schedule of papers and seminars, were April 5-8, 2000.

Dan Zupan, one of our Ph.D students (and also an Army Airborne officer) successfully defended his dissertation in spring 2000. He wrote on “Autonomy and Noncombatant Immunity: An Investigation in Just War Theory.” This dissertation was judged excellent by Zupan’s committee, and Zupan was awarded his degree with distinction. Prof. Zupan will be teaching philosophy at the United States Military Academy at West Point.

Prof. John Bussanich, whom we were afraid we had lost to James Madison Univ. in Virginia, decided to come back to UNM in spring 2000. We are very pleased to have him back.

The Religious Studies Program, which is affiliated with the Philosophy Dept., was able to move out of the Humanities Building and into its own quarters in Hokona Hall. This freed up much-needed office space for philosophy faculty and graduate students. We hope this represents another step toward the creation of a separate Religious Studies Department.
Significant Plans and Recommendations for the Near Future

The Philosophy Department is currently experiencing difficulty covering all our courses with qualified faculty. Every semester we rely on temporary/part-time instructors to teach standard undergraduate courses such as Critical Thinking, Introduction to Philosophical Problems, Contemporary Moral Issues, Introduction to Existentialism, Professional Ethics, and so on. Some of these temporary/part-time people are only marginally qualified, but if we did not hire them, hundreds of students would not be able to take courses they want and need. The proliferation of temporary/part-time instructors across the university is a worrisome trend. The hiring of temporary/part-time instructors, while it may save the institution money in the short term, is detrimental in the long term to higher education. If young scholars perceive that their only future in academia is to be an overworked, poorly-paid, non-tenured instructor with no benefits and no respect, few talented people will enter academia, and the quality of higher education will continue to decline. The philosophy dept. seeks to hire more highly-qualified, tenure-track assistant professors so that we may continue to offer a full spectrum of quality courses while not exploiting the available pool of Ph.Ds. The hiring of Iain Thomson last year was a step in the right direction, but we need to continue on that path.

One initiative which I have taken on as a personal project is to acquire Prof. Clifton Perry of Auburn University, a distinguished medical ethicist and scholar of Native American law, as a "special opportunity" hire. Prof. Perry gave an impressive talk here last year, and also served on Dan Zupan's Ph.D committee. He has made it known that he very much desires to live and work in New Mexico, and his research interests complement two of New Mexico's strengths (our fine medical school, and our Native American programs). If Prof. Perry could be hired in a senior position, this would increase the prestige and visibility of the philosophy department, alleviate some of our teaching problems, and encourage interdisciplinary collaboration among the medical school, the law school, the Native American Studies program, and the philosophy department. I intend to work on this initiative during the coming year.

Another important future goal is the creation of a Religious Studies department entirely separate from the Philosophy Department. Currently, several of our faculty (Andrew Burgess, Fred Sturm, and John Bussanich) teach many of their courses in Religious Studies rather than Philosophy. This reduces the number of courses in Philosophy that may be offered in any given semester. Philosophy and Religious Studies are separate disciplines, with different training and commitments. The continued affiliation of the two at UNM is a source of conflict and strain. Ideally, the Philosophy Dept. would like to divorce itself from the Religious Studies program without losing any faculty lines, and see the creation of a Dept. of Religious Studies.

Appointments to Faculty/Staff

As mentioned above, Iain Thomson (Ph.D 1999 Univ. of California, San Diego) joined our faculty as Assistant Professor, effective fall 2000.
Separations of Faculty/Staff

Jennifer Nagel, an Assistant Professor on a half-time appointment, accepted a tenure-track position at the University of Toronto. Her husband Sergio Tenenbaum, an Assistant Professor on a regular tenure-track line, took a LWOP and went to the University of Toronto as a visiting assistant professor. It is unclear whether Nagel and Tenenbaum will return to UNM. (Nagel did not resign her half-time position here at UNM before accepting the tenure-track job at Toronto, so her situation is somewhat irregular. Like Tennenbaum, she is officially on leave. This arrangement was made by the former Chair Fred Schueler and the former Dean Michael Fischer.)

Publications by Faculty

Burgess, Andrew

Two articles:


Bussanich, John

Two articles:


Articles on “Happiness” and “Goodness” in Saint Augustine Through the Ages: An Encyclopedia, ed. Allen Fitzgerald (Eerdmann’s, 1999).

Several brief book reviews in Choice.

Goodman, Russell

Two substantial book reviews:


Hannan, Barbara

One article and one substantial book review:


Nagel, Jennifer

One article:


Schueler, Fred

One article:

“Why is Modesty a Virtue?” *Ethics,* July 1999 (pp. 835-841).

Tenenbaum, Sergio

One article:


Yaqub, Aladdin

One substantial book review:


Outside Professional Activities of Faculty

Burgess, Andrew

Member, Planning Committee for AAR/SBL regional Rocky Mountain convention.

Presented paper, "Patience and Expectancy in Kierkegaard’s 'Upbuilding Discourses 1843-44,'" at Research Seminar 1999 of the Soren Kierkegaard Center, Copenhagen, Denmark, August 1999.


Served as outside evaluator for Husain Sarkar, promotion candidate at Louisiana State University.

Served on selection committee for Fulbright Awards in five-country Scandinavian area.

**Bussanich, John**


Presented Invited Lecture Series, "Plotinus and Augustine in Late Antique Philosophy," Brigham Young University, March 1999.

Served as co-editor, *Ancient Philosophy* (journal).


**Goodman, Russell**


Served as reader for Vanderbilt University Press and SUNY Press.

**Hannan, Barbara**


Commented on paper, “Knowing What It’s Like: Phenomenal Consciousness and its

Served as referee for *Psyche*. Title of manuscript: “Functionalism and the Reification of Awareness.”

**Nagel, Jennifer**


**Schmitter, Amy**


Visiting Scholar, Univ. of Cal., Berkeley, 1999-2000 (on Sabbatical Leave from UNM).

**Schueler, Fred**


**Taber, John**


**Tenenbaum, Sergio**


Status of the Department

The number of faculty members remained constant at twenty-eight full-time tenured or tenure-track members. In addition, there were two full-time lecturers, Mr. J. Caffo and Mr. Boyd M. Odom. Mr. Odom is responsible for the undergraduate laboratories in Regener Hall while Mr. Caffo teaches several of the 100-level classes. Doctors Dimiduk and Cardimona were hired as part-time instructors. We were also fortunate to have Dr. Ledlow here as a visiting professor and available to teach one section each semester of Astro 101.

Space continues to be a major problem in this department. This summer a number of projects were begun to renovate graduate students offices to both improve working conditions and to make more efficient use of the existing space. Also renovation of some of the labs was begun to make more effective use of the space. This necessitated moving several projects to smaller laboratories and combining several projects into one room. In addition, two laboratories have had to undergo major renovations in order to comply with dust standards imposed by the research projects. The majority of these renovations have been financed with departmental funds. Although these projects have been accommodated with some sacrifice, we are fast approaching the position where we will be unable to accept further research projects if they require additional space. As it is, the building is already unsuited to some forms of research because of the inability to control dust and poor vibration isolation. The limits of the electrical power coming into the building is also being pushed.

The biggest concern remains the abatement of the asbestos ceiling tiles. Parts of the building have been without adequate cooling this summer and will probably suffer from inadequate heating this coming winter. The problem remains that access to many of the pipes, valves and blowers requires removal of the tiles which cannot be done until the tiles are abated and replaced.

In fall 1999 there were 112 graduate students in this department including those registered in the Optical Sciences Program. This was an increase of 16 graduate students over the previous year. One should not interpret this as an upward trend since the current enrollment for fall 2000 is 96. The difference is primarily due to the graduation of a number of PhD and Masters students.

We were advising approximately 64 undergraduates who declared physics or astrophysics as a major at the beginning of the 98/99 academic year. This represents a drop of 12 students from the previous year. These numbers are somewhat misleading because by the end of the academic year we were advising nearly 120 students who had declared their intent to major in physics or astrophysics.
One major problem is the aging of the faculty. There are only two assistant professors remaining in the department. One of these will be put forward for tenure and promotion this year with the other following a year later. In order to maintain a strong graduate and research program as well as a healthy department, it is imperative that we be permitted to hire several junior faculty over the next few years even if this means mortgaging these hires against future retirements. Another reason to hire is for the department to build expertise in new and developing areas of physics and astronomy.

Program Improvements

The department has continued to focus its efforts and finances on improving the undergraduate laboratories given in conjunction with the introductory sequences. These laboratory courses are Astr 101L, Phys 102L, Phys 106L, Phys 108L, Phys 151L and 152L as well as Phys 160L, 161L and 262L.

The department continued to spend a significant amount of time and money on the undergraduate laboratories associated with the introductory courses. Overall supervision of the upgrades remains the responsibility of Prof. John Panitz who continued as an Associate Chair. He is assisted by Boyd M. Odom and W. Miller. For the academic year 99/00 a new laboratory course, 161L was introduced. This filled a gap in the laboratory sequence for the calculus-based physics sequence. Professor Panitz created this course from scratch using the novel idea of a focused-concept laboratory. Preliminary indications based upon ICES scores and comments of students are that this is a successful laboratory. The introduction of this course necessitated a restructuring of the following course in the sequence, Phys 262L. The restructuring begun last year with plans to finish implementing the changes in fall 2000. Most of the upgrades and restructuring of the 150 and 160 sequence of laboratory courses were completed last academic year. As noted above, the only major work remaining is on 262L which will be completed next year.

The work on the new course Phys 161L continues and is aided by an NSF grant awarded to Prof. Panitz to develop this course. The additional funds available for equipment have permitted the introduction of further innovations that were either not possible under the previous plan or were to be implemented at a much later date.

Improvements in the astronomy 101L labs were also begun last year. As was true of the previous laboratory upgrades, this process is planned to occur over a two-year period. After a careful review of the current state of the 101 labs it was decided to completely scrap the previous labs and start from scratch. Professor Duric was excused from normal teaching duties and assigned to overseeing the design and implementation of the labs. Last year the first phase of the new process was completed. This included the purchase of new computers for the laboratories and the implementation of a web-based curriculum. Although there are some problems with specific exercises, the overall response by the students and TAs has been positive. There have even been requests from several other universities to use the new laboratory course at their institutions.

Although the majority of our efforts have directed towards our service courses and Astr 101L, we have not totally neglected the other 100 level laboratory courses. The only reason that they have not received the same attention as the service courses and Astr 101L is a lack of resources, monetary as well as personnel. After reviewing enrollment records for the last several years, it was noticed that there have been significant decreases
in the Musical Acoustics course, 108, and its corresponding laboratory, 108L, as well as Light and Color, 106 and 106L. It was decided to concentrate on 108 and 108L last year. Both the course and the corresponding laboratory course were redesigned with partial implementation occurring during the spring semester. Further work on these two courses is continuing.

Prof. Chandler designed a new course sequence that may ultimately replace the three-semester calculus-based physics sequence required for engineers or may serve as an advanced section of the older courses. This sequence reduces the number of semesters for the sequence from 3 to 2, but requires that students take both the laboratory course and a tutorial. Unlike the current courses, the laboratories as well as the tutorials are an integral part of the course. The tutorial sections are based upon those developed at the University of Washington. Because of the compression of material and the decision to delete certain topics, the laboratories for these courses required modifications. A presentation to the engineering departments met with cautious approval so the new sequence will be offered on a trial basis for the next two years so that its effectiveness can be assessed. Enrollments will be restricted to twenty students each semester during the trial. Implementation of the tutorials required that two TAs as well as two professors be sent to a training workshop during the summer of 2000.

Another change in the service courses was the introduction of web based homework. This was tested during the previous academic year to find out if it fit with our teaching philosophy and if the students liked it. The experiment was deemed enough of a success that it will be required in the fall for all 160 classes and will be continued for several others. One benefit has been that it reduced the number of hours of TA time that must be assigned for grading these courses.

Although we are beginning to see signs of improved enrollments, particularly at the undergraduate level, we are not yet convinced that we are successfully competing for the best graduate and undergraduate students on a national or international level. The previous year we started an aggressive advertising campaign for our graduate programs. This included redesigning a number of brochures and posters for our various degree programs and research groups. This was not a successful strategy.

Last year the departmental web page was completely redesigned. This was done so that the academic programs and research in the department were more clearly explained and so that the amount of paper produced in the department could be reduced. In order to improve access to the web, the Department of Physics and Astronomy and Department of Biology purchased a new computer to act as a web server. This machine is currently operational and jointly administered by the two departments. The new department web page was brought on line in the summer of 2000.

Our greatest success has been in increasing the number of undergraduate majors and then retaining them. Most of this success can be directly attributed to the undergraduate advisement scheme that was instituted roughly three years ago and the development of a comprehensive database. The advisement process assigns each declared major to one of a carefully chosen set of faculty advisors. Each student must meet with his or her advisor before registering. This is guaranteed to occur because a lock is put on each student’s registration which can only be removed by the advisor. During this meeting, the advisor
can access the student database which not only contains demographic information on the student but also the grades and comments entered by the advisor or the academic coordinator. Furthermore, each student is encouraged to meet with his or her advisor whenever they encounter a problem with their program. Another key to the successful operation of this program is our dedicated and competent academic advisor, Mary DeWitt. She not only keeps the database up to date but also insures that each student is in compliance with the department and university regulations.

The results of the new advisement process as well as assigning the best instructors to the introductory courses and the courses for physics and astrophysics majors has been satisfactory. In the fall of 1998, there were 74 majors being advised by the department. By the fall of the following year this number had dropped to 64 mostly due to graduating the largest class we had seen in the recent past. By the end of last academic year this number had grown to about 120 and is still increasing.

Last year, a new program to grant a MS in Optical Sciences and Engineering was completed and received overwhelming endorsement from the Departments of Physics and Astronomy and Electrical and Computer Engineering and is now proceeding through the various approvals required within the University. The program has also received strong support from the Air Force Research Laboratory, Sandia National Laboratory, Los Alamos and a wide range of industries as well as the New Mexico Optical Industry Association. The department is already receiving inquiries about this program from interested students. It is believed that this program will attract approximately 15 additional students per year.

Graduate recruitment remains our biggest problem. This includes not only quantity but quality.

Student Achievements

A number of our undergraduate and graduate students have received awards. Robert Ward was one of 40 seniors in the United States to win a Marshall scholarship. Robert graduated in May 1999 and went to Oxford to begin his graduate work in physics. Also, he was awarded a NSF grant to continue his graduate education after the Marshall scholarship runs out. Another undergraduate student, Mr. Mendel-Gleasen was selected by the Council for Undergraduate Research to present a poster on his research at the Undergraduates on the Hill in Washington, DC. The title of his poster was Studies of the Strong Force. In addition, Douglas Hope was one of four students in the United States who was awarded a NASA JPL Michelson Fellowship to pursue his graduate education.

Students who won departmental awards included:

1. Brian Oetiker, Durward Young, Jr. Award for best dissertation
2. Christopher R. Schultz, Feynman Award for Best Student in Contemporary Physics
3. Ian M. Hoffman, Nichole W. Hoffman, Matthew Semak, Mohit Adhikari, and Thien Trang Thi Dang, William G. Larson Award for Best Teaching Assistants
4. Robert G. Ward, Eoin Gray Award for Best Graduating Senior
Another graduate student, T. Burdullis performed exemplary service by coordinating and running the campus observatory. He not only hosted the Friday night open house but also held special sessions for public school classes and other private groups. He was assisted by all of the astronomy TAs and several undergraduate physics majors.

**Faculty Achievements**

Last calendar year the tenured or tenure-track faculty of the Department of Physics and Astronomy published 72 articles in refereed journals, 45 articles in conference proceedings, presented 84 papers at conferences of which 24 were invited and presented 35 seminars or colloquia outside of UNM. In addition, two faculty members were co-editors of books and one faculty member applied for two patents. A list of the publications is included in the appendix.

There were 51 grants or contracts active in the department during the academic year bringing in $3,777,284. This includes an NSF CAREER grant to Prof. Rand. A detailed list of the awards is included in the appendix.

The research activities in the department involved a wide range of collaborations both within this university and outside. Prof. Bassalleck works closely with Brookhaven National Laboratory and is responsible for the design and construction of the PHENIX detector for the new Relativistic Heavy Ion Accelerator that is just coming on line. Prof. Matthews is one of the major collaborators on two high-energy gamma ray experiments, Pierre Auger and HiRes. Prof. Duncan is working with both NASA and the Jet Propulsion Laboratory at the California Institute of Technology on a microgravity experiment, DYNAMX. It is worth noting that last November this fundamental physics experiment was advanced to space-flight status after a rigorous review and down selection. There are four professors in this department that are collaborating with the Air Force Research Laboratory at Kirtland Air Force Base on experiments. They are Profs. Rudolph, McIver, Gregory and Prasad. Both Prof. Henning and Prof. Price have strong collaborative projects with an observatory, CSIRO, in Australia. In addition there are collaborative projects between professors in this department and the Departments of Mathematics and Statistics, Electrical and Computer Engineering, and Biology as well as the High Performance Computing Center and the Foundation for Functional Brain Imaging.

The only outstanding award to a faculty member was the election of Prof. Sheik-Bahae as a Fellow of the Optical Society of America. In addition, two faculty members received adjunct appointments from other universities, Prof. Duncan at the California Institute of Technology and Prof. Kenkre at the University of Pune, India.

**Faculty Professional, Community, and University Service**

All faculty members served on at least one department committee. In addition, a number of faculty served on university committees. These were:

1. Prof. J. Panitz, Faculty Senate and Chair of A&S Senior Tenure and Promotion Committee
2. Prof. R. Duncan, Athletic Council
3. Prof. Bassalleck, Senate Graduate Committee and Chair of Honorary Degree Subcommittee
4. Prof. Seidel, Faculty Senate and A&S Junior Promotion and Tenure Committee
5. Prof. Ahluwalia, Research Allocations Committee
6. Prof. Finley, Department Liaison with CSEL
7. Prof. Chandler, Academic Freedom and Tenure
8. Prof. Diels, University Patent Committee
9. Dr. Dimiduk, Teaching Enhancement Committee
10. Prof. Zeilik, Student Outcomes Assessment Committee and Student Outcomes Coordinator

Several faculty members served in various capacities in professional or honorary societies:

1. Prof. Ahluwalia, Regional Coordinator for Sigma Xi
2. Prof. Dunlap, Zone Councilor for Society of Physics Students, American Physical Society
3. Prof. Prasad, Symposium Co-Chair, SPIE Regional Opto-Southwest Symposium, April 10-11, Albuquerque

All faculty members served as referees for one or more professional journals. In addition, nearly all faculty members participated in outreach programs. Several of the more notable contributions to outreach include:

1. The LodeStar program. Professors McGraw, Duric, Rand, Seidel and Gregory as well as many graduate students made the major contributions to this project. Their activities included visits to classrooms, participation in the Ask an Astronomer Program and numerous special viewing nights.
2. Prof. Seidel was a Co-PI on Research Experience for Undergraduates: The Los Alamos Summer School from NSF. She was also one of the two organizers of this summer school.
3. Profs. Wolfe and Dunlap also held a Research Experience for Undergraduates grant from NSF. This grant sponsored a summer research experience for undergraduates in this department. In addition to the principals, five faculty members not only worked with these undergraduates in this program but also supplied funds to support their stipends.
4. Prof. Deutsch organized a department open house in which both undergraduates from UNM as well as high school physics students were invited.

Data
1. Number of undergraduate majors per FTE
   1.1. At the beginning of the academic year—64 majors/28 faculty = 2.3 majors/FTE
   1.2. At the beginning of academic year 00/01—120 majors/28 faculty = 4.3 majors/FTE

2. Number of credit hours per FTE faculty = 13467 CR/30 faculty = 449 CR/FTE. In this case the two lecturers have been included

3. Grant/contract/award dollars per FTE faculty = $3,777,284/28 faculty = $130,251/FTE. This includes one research faculty member who has a funded contract.

4. IDC Dollars per FTE faculty = $392,070/29 faculty = $13,520/FTE. This includes one research faculty member who has a funded contract.

5. Private contributions were negligible.

Faculty/Staff Appointments and Separations

There were three changes in the staff. One of the machinists, John DeMoss retired in December. This position may remain vacant pending the outcome of a study of shop usage and the future role of the machine shop in the department. One of the front office staff also transferred and to a position with the DYNAMX project. She was replaced after a conventional search. Finally, the person responsible for the demonstrations in Regener Hall joined the LodeStar staff at the museum. He was replaced in May. Further details of the staff appointments and separations are in the appendix.

There were no changes in the number of faculty members.

Future Plans

The department of physics and astronomy will be focusing on several important projects next year. These are:

1. Completion of a long-range plan for the department. This plan is to include a comparison of this department with departments in peer universities as well as a comparison with other departments at UNM. It will identify strong points as well as deficiencies within the department. We are also interested in assessing the impact that this department has on the university, state and national level as well as looking at our teaching. Finally, we will assess the quality and effectiveness of the major research groups in the department. The outcome of this exercise will be a blunt assessment of the department, plans for addressing any weaknesses and the identification of research directions in which the department should consider moving.

2. Continue improving the undergraduate laboratory courses. The major improvements in 150 and 160 series laboratory courses will be completed this year. Work will continue on the upgrades to 102L, 106L and 108L with primary
emphasis on 108L. Also, the changes to Astro 101L are expected to be completed next year.

3. Develop a plan to improve the junior and senior laboratory courses and as well as the optics lab. Implementation of approved changes will begin in 2001/2002. We will also be assessing the demonstrations that are used in the Regener Hall for the introductory and service courses and developing a plan to repair and upgrade existing demonstrations as well as develop new ones.

4. Review of comprehensive exam. The current procedure was adopted five years ago. We now have enough date to assess its effectiveness and identified problems that must be addressed.

5. Review of graduate curriculum. Four years ago a new graduate curriculum was introduced. Several of the premises that lead to its adoption appear to be flawed and there are indications that the students are not learning the basic material as well as we feel they should. We will attempt to quantify these impressions and take corrective action.

6. Assessment procedure for undergraduate laboratories. Even though we feel that we have improved the undergraduate laboratories and there is circumstantial evidence to support this impression, there is no quantitative data to support it. A method for the assessing the effectiveness of the laboratories will be developed with implementation to begin in the spring semester.

7. A new advisement procedure for graduate students. This will be along the lines of our highly successful undergraduate procedure.

8. Development of new strategies for graduate student recruitment. There is a general impression that the quality of the average graduate student has been decreasing. This needs to be verified and methods developed to improve the quality of the applicants as well as convincing the top candidates to accept our offer.

9. Continue to push for the approval of the Masters Degree in Optical Science and Engineering.

10. Complete development of the department’s web page.
PROFESSORS


Cahill, Kevin, Ph.D., Harvard, 1967.


Chandler, Colston, Ph.D., California, Berkeley, 1967.


Durie, Nebojsa, Ph.D., Toronto, 1984.

Finley, Daniel, Ph.D., California, Berkeley, 1968.


Panitz, John A., Ph.D., Pennsylvania University, 1969.


Price, R. Marcus, Ph.D., Australian National University, 1966.


ASSOCIATE PROFESSORS


Duncan, Robert V., Ph.D., California, Santa Barbara, 1988.

Gold, Michael S., Ph.D., California, Berkeley, 1986.


Henning, Patricia A., Ph.D., Maryland, 1990.

Seidel, Sally C., Ph.D., Michigan, 1987.


ASSISTANT PROFESSORS

Deutsch, Ivan H., Ph.D., California, Berkeley, 1992.


UNIVERSITY PROFESSOR

Gell-Mann, Murray, Ph.D., Massachusetts Institute of Technology, 1951.

LECTURERS


Dimiduk, Kathryn, Ph.D., Stanford, 1983.

Odom, Boye M., M.S., University of Texas at El Paso, 1981.

RESEARCH PROFESSORS

Emin, David, Ph.D., Pittsburgh, 1968.

Lowe, James, Ph.D., Birmingham, 1959.

Wodkiewicz, Krzysztof, Ph.D., Rochester, 1977.

RESEARCH ASSOCIATE PROFESSORS


Moore, Gerald, Ph.D., Brandeis, 1969.

RESEARCH ASSISTANT PROFESSORS


VISITING ASSISTANT PROFESSOR

Ledlow, Michael J., Ph.D., University of New Mexico, 1994.

ACTIVE PROFESSORS EMERITI

Beckel, Charles L., Ph.D., Johns Hopkins University, 1954.

Bryant, Howard C., Ph.D., Michigan, 1960.

Bieterle, Byron D., Ph.D., California, Berkeley, 1967.

Hull, McAllister H., Ph.D., Yale, 1951.

Swinson, Derek B., Ph.D., University of Alberta at Calgary, 1965.

JOINTLY APPOINTED FACULTY

Brueck, Steven R. J., Ph.D., MIT, 1971 (primary appointment in Electrical Engineering and Computer Engineering (EECE)).

Jain, Ravinder K., Ph.D., California, Berkeley, 1974 (primary appointment in EECE).

Jungling, Kenneth, Ph.D., University of Illinois at Urbana-Champaign, 1970 (primary appointment in EECE).

Kelsey, Charles A., Ph.D., Notre Dame, 1962 (primary appointment in Radiology).

Osiński, Marek, Ph.D., Polish Academy of Sciences, 1979 (primary appointment in EECE).

ACTIVE ADJUNCT FACULTY

Herling, Gary H., Adjunct Professor, Ph.D., Yale, 1961.

MacCallum, Crawford, Adjunct Professor, Ph.D., University of New Mexico, 1962.

Stephenson, Gerard J., Adjunct Professor, Ph.D., Massachusetts Institute of Technology, 1964.
DEPARTMENT OF PHYSICS AND ASTRONOMY
1999-2000
John K. McIver, Chair

APPOINTMENTS TO FACULTY/STAFF

FACULTY
Odom, Boye M., Lecturer III, August 16, 1999

POST-DOCTORAL ASSOCIATES
Apostolova, Tzveta, February 1, 2000
Bruner, Nichelle, August 16, 1999
Gorelov, Igor, July 1, 1999

STAFF
Keirn, Amanda, Administrative Assistant I, July 26, 1999
Sexson, Nelson E., Instrumentation Tech, May 1, 2000
DEPARTMENT OF PHYSICS AND ASTRONOMY
1999-2000
John K. McIver, Chair

FACULTY/STAFF SEPARATIONS

FACULTY

Ledlow, Michael J., Visiting Research Assistant Professor, May 31, 2000

POST-DOCTORAL ASSOCIATES

Chigarev, Nikolay, December 1, 1999
Ehrlich, Jeffrey, November 15, 1999
Riley, Steven R., May 31, 2000
Straka, Petr, December 31, 1999

STAFF

DeMoss, John, Prototype Machinist, retired October 29, 1999
Gallegos, John A., Instrumentation Tech, transferred to LodeStar staff February 7, 2000
Ortiz, Sandra, Administrative Assistant II, transferred to DYNAMX staff May 11, 2000
Turner, Theodore S., Senior Research Scientist II, November 30, 1999
Ahluwalia, Harjit S.


Bassalleck, Bernd


Bryant, Howard C.


Studies of non-resonant excess photon detachment of negative hydrogen ions,” M. S. Gulley, Xin Miao Zhao, H. C. Bryant, Charlie E. M. Strauss, David J. Funk, A. Stintz, D. C. Rislove, G. A. Kyrala, W. B. Ingalls, and W. A. Miller,

Cahill, Kevin E.


Caves, Carleton M.


Chandler, Colston


General N-body theory of nonrelativistic quantum scattering, Colston Chandler and Archie G. Gibson, Few-Body Systems, Vol. 27, 207-249 (1999). This last paper was a review invited by the editor of the journal.

Deutsch, Ivan H.

Quantum logic gates in optical lattices, Gavin K. Brennen, Carlton M. Caves, Paul S. Jessen, and Ivan H. Deutsch, Physical Review Letters, 82, 1060 (1999). This article has been highlighted by:


Spatial correlation diagnostics for atoms in optical lattices, John Grondalski, Paul M. Alsing, and Ivan H. Deutsch, Optics Express, 5, 249 (1999).

15

Diels, Jean-Claude


Duncan, Robert V.


Science Requirements Document (Final) for Critical Dynamics in Microgravity (Official NASA Publication JPL D-18698), November 30, 1999.

Experiment Implementation Plan (Final) for Critical Dynamics in Microgravity (Official NASA Publication JPL D-17090), November 30, 1999.

Dunlap, David H.

Papers in Journals and Proceedings:


Volumes Edited:


Duric, Nebojsa

Referred:


Millimeter observations of variable radio sources in the galactic plane," Tsutsumi. T., and Duric, N., Adv.Space.Res. 23,
Non-refereed:


The square kilometer array and its optical and infrared counterparts, Duric, N., in *Science with the Square Kilometer Array*, eds. Taylor and Braun (1999).

Books edited:


Other:

Article on campus observatory for UNM’s “Inside Arts and Sciences.”

**Emin, David**


*Encyclopedia article:*

Seebeck effect, major article (50 pages) for *Wiley Encyclopedia of Electrical and Electronics Engineering*.

**Finley, James Daniel**


**Gold, Michael S.**


A measurement of b quark fragmentation fractions in the production of strange and light B mesons in p anti-p collisions at s**(1/2) = 1.8 TeV, F. Abe et al., the CDF Collaboration, *Phys. Rev. D* 60, 092005 (1999).

Measurement of the B0(d) B-bar0(d) oscillation frequency using dimuon data in p anti-p collisions at s**(1/2) = 1.8 TeV, F. Abe et al., the CDF Collaboration, *Phys. Rev. D* 60, 051101 (1999).
Search for $B_s^0$-anti-$B_s^0$ oscillations using the semileptonic decay $B_s^0 \rightarrow \psi l^+ X(\nu)$, F. Abe et al., the CDF Collaboration, Phys. Rev. Lett. 82, 3576 (1999).

Kinematics of $t\bar{t}$bar Events at CDF, F. Abe et al., the CDF Collaboration, Phys. Rev. D 59, 092001 (1999).

Search for third-generation leptoquarks from technicolor models in $p\bar{p}$bar collisions at $s^{1/2} = 1.8$ TeV, F. Abe et al., the CDF Collaboration, Phys. Rev. Lett. 82, 3206 (1999).

Measurement of the $B(s)0$ meson lifetime using semileptonic decays, F. Abe et al., the CDF Collaboration, Phys. Rev. D 59, 032004 (1999).

Searches for new physics in diphoton events in $p\bar{p}$bar collisions at $s^{1/2} = 1.8$ TeV, F. Abe et al., the CDF Collaboration, Phys. Rev. D 59, 092002 (1999).

Measurement of $Z_0$ and Drell-Yan production cross section using dimuons in $p$ anti-$p$ collisions at $s^{1/2} = 1.8$ TeV, F. Abe et al., the CDF Collaboration, Phys. Rev. D 59, 052002 (1999).

Search for new particles decaying to b anti-b in $p$ anti-$p$ collisions at $s^{1/2} = 1.8$ TeV, F. Abe et al., the CDF Collaboration, Phys. Rev. Lett. 82, 2038 (1999).

Measurement of the $B^0(d)$ - anti-$B^0(d)$ flavor oscillation frequency and study of same side flavor tagging of $B$ mesons in $p$ anti-$p$ collisions, F. Abe et al., the CDF Collaboration, Phys. Rev. D 58, 032001 (1999).

Measurement of the top quark mass with the collider detector, F. Abe et al., the CDF Collaboration, Phys. Rev. Lett. 82, 271 (1999).

Gregory, Stephen A.


Henning, Patricia A.


Herling, Gary H.


Junor, William


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Lowe, James

(a) Papers


(b) Published conference contributions


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Measurement of the $B_D^0 \bar{B_D^0}$ flavor oscillation frequency and study of same side flavor tagging of $B$ Mesons in $pp$ collisions, the CDF Collaboration, F. Abe, et al, Phys. Rev. D59, 032001 (1999).


Measurement of $Z^0$ and Drell-Yan production cross-section using dimuons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, the CDF Collaboration, F. Abe, et al, Phys. Rev. D59, 052002 (1999).

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Search for new particles decaying to $b\bar{b}$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, the CDF Collaboration, F. Abe, et al, Phys. Rev. Lett. 82, 2038-2043 (1999).

Search for third generation leptoquarks from technicolor models in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, the CDF Collaboration, F. Abe, et al, Phys. Rev. Lett. 82, 3206 (1999).

A search for $B_S^0 - \bar{B}_S^0$ oscillations using the semileptonic decay $B_S^0 \to \phi v$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV, the CDF Collaboration, F. Abe, et al, Phys. Rev. Lett. 82, 3576-3580 (1999).

Measurement of the $B^0 - \bar{B}^0$ oscillation frequency using dimuon data in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, the CDF Collaboration, F. Abe, et al, Phys. Rev. D60, 051101 (1999).

Measurement of the $B^0 \bar{B}^0$ flavor oscillations using jet charge and lepton flavor tagging in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, the CDF Collaboration, F. Abe, et al, Phys. Rev. D60, 072003 (1999).

Measurement of the associated $\gamma + \mu^\pm$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, the CDF Collaboration, F. Abe, et al, Phys. Rev. D60, 092003 (1999).

Measurement of $B$-quark fragmentation fractions in the production of strange and light $B$-mesons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, the CDF Collaboration, F. Abe, et al, Phys. Rev. D60, 092005 (1999).

Measurement of the $B^0 \bar{B}^0$ oscillation frequency using $D^*\bar{D}^*$ pairs and lepton flavor tags, the CDF Collaboration, F.


Search for the flavor changing neutral current decays $B^+ \rightarrow \mu^+\mu^-K^+$ and $B^0 \rightarrow \mu^+\mu^-K^0$, the CDF Collaboration, F. Abe, et al, Phys. Rev. Lett. 83, 3378-3383 (1999).


McIver, John K.

Although this was published in 1998 I did not receive word that it was published until the summer of 1999.


Panitz, John A.


Prasad, Sudhakar


Information dynamics in constrained image deconvolution, S. Prasad and D. Tyler, Selected Reprints and Summaries of the Fundamental Issues in Image Formation, Detection and Processing Workshop, UNM, February 6-7, 1999, 1-6.

Optics is for seeing clearly: The University of New Mexico story, S. Prasad and A. Guenther, SPIE's OE-Reports, August 1999, p. 7.


Price, R. Marcus


Rand, Richard J.


Rudolph, Wolfgang


Seidel, Sally C.

Measurement of b quark fragmentation fractions in the production of strange and light B mesons in p - p collisions at \( \sqrt{s} = 1.8 \) TeV, F. Abe et al., CDF Collaboration, Phys. Rev. D 60 (1999) 092005.

Measurement of the \( B^0 - \bar{B}^0 \) oscillation frequency using \( \ell^+ \ell^- D^* \) pairs and lepton flavor tags, T. Affolder et al., CDF Collaboration, Phys. Rev. D. 60 (1999) 112004.

Search for R parity violating supersymmetry using like sign dielectrons in \( p - \bar{p} \) collisions at \( \sqrt{s} = 1.8 \) TeV, F. Abe et al., CDF Collaboration, Phys. Rev. Lett. 83 (1999) 2133-2138.

Searches for new physics in diphoton events in proton-antiproton collisions at \( \sqrt{s} = 1.8 \) TeV, F. Abe et al., CDF Collaborations, Phys. Rev. D. 59 (1999) 092002.

Measurement of the \( B^0 - \bar{B}^0 \) flavor oscillation frequency and study of same side flavor tagging of B mesons in \( p - \bar{p} \) collisions, F. Abe et al., CDF Collaboration, Phys. Rev. D 59, (1999) 032001.
Search for the flavor changing neutral current decays $B^+ - \mu^+ \mu^- K^+$ and $B^0 - \mu^+ \mu^- K^{*0}$, T. Affolder et al., CDF Collaboration, Phys. Rev. Lett. 83 (1999) 3378-3383.

Measurement of the $B^0_d \bar{B}^0_d$ oscillation frequency using dimuon data in $p - \bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, F. Abe et al., CDF Collaboration, Phys. Rev. Lett. 60 (1999) 051101.

Measurement of $B^0 - \bar{B}^0$ flavor oscillations using jet charge and lepton flavor tagging in $p - \bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, F. Abe et al., CDF Collaboration, Phys. Rev. D 60 (1999) 072003.

Measurement of the associated $\gamma + \mu^+$ production cross section in $p - \bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, F. Abe et al., CDF Collaboration, Phys. Rev. D 60 (1999) 092003.

A search for $B^0 - \bar{B}^0$ oscillations using the semileptonic decay $B^0 \rightarrow \phi \tau^+ \tau^-$, F. Abe et al., CDF Collaboration, Phys. Rev. Lett. 82 (1999) 3576-3580.

A search for third generation leptoquarks from technicolor models in $p - \bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, F. Abe et al., CDF Collaboration, Phys. Rev. Lett. 82 (1999) 3206.

Kinematics of $t - \bar{t}$ events at CDF, F. Abe et al., CDF Collaboration, Phys. Rev. D. 59 (1999) 092001.

Search for a technicolor $\Omega$ particle in events with a photon and a $b$ quark jet at CDF, F. Abe et al., CDF Collaboration, Phys. Rev. Lett. 83 (1999) 3124-3129.


Measurement of $Z^0$ and Drell-Yan production cross-section using dimuons in $p - \bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, F. Abe et al., CDF Collaboration, Phys. Rev. D. 59 (1999) 052002.

Search for new particles decaying to $B - \bar{B}$ in $p - \bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV, F. Abe et al., CDF Collaboration, Phys. Rev. Lett. 82 (1999) 2038-2043.


Sheik-Bahae, Mansoor


Stephenson, Gerard J.


Wodkiewicz, Krysztof


Zeilik II, Michael


Gallegos, John A., Instrumentation Technician

Featured in UNM's Campus News "Spotlight" column which highlighted his contributions as the instrumentation technician responsible for classroom demonstrations.

Wonn, Marla F., Department Administrator

Serves as a volunteer on the Program Committee of the Mid-Rio Grande YWCA.

Serves as a member of the organizing committee for the newly formed UNM Department Administrator Professional Network.
Ahluwalia, Harjit S.

Sponsor: National Science Foundation  
FY00 Amount: $39,946  
Title: Galactic Cosmic Ray Modulation Studies at High Rigidities  
Dates: 6/1/99 - 5/31/02

Bassalleck, Bernd

Sponsor: Brookhaven National Laboratory  
FY00 Amount: $33,400  
Title: Station I PHENIX Muon Tracker  
Dates: 1/1/96 - 12/31/96

Sponsor: Brookhaven National Laboratory  
FY00 Amount: $52,000  
Title: Station I PHENIX Muon Tracker  
Dates: 1/1/96 - 12/31/96

Co-PI: David M. Wolfe  
Sponsor: Department of Energy  
FY00 Amount: $343,000  
Title: Strange Particles and Heavy Ion Physics  
Dates: 12/1/96 - 11/30/99

Boyd, Stephen T.

Sponsor: NASA - Lewis  
FY00 Amount: $89,000  
Title: New Phenomena in Strongly Counterflowing He-II Near T_A  
Dates: 10/1/96 - 9/30/00

Sponsor: Jet Propulsion Lab  
FY00 Amount: $4,900  
Title: Pilot Project for LTMP Charged Particle Heating  
Dates: 8/1/99 - 9/24/99

Brandt, John

Sponsor: Jet Propulsion Lab  
FY00 Amount: $10,290  
Title: The Planetary Astronomy Program/Management Operations Working Group  
Dates: 4/1/00 - 6/1/01
Bryant, Howard C.

Sponsor: National Science Foundation
FY00 Amount: $98,983
Title: Pan-American Advanced Study Institute: “Atoms and Molecules in a New Light”
Dates: 9/1/99 - 11/30/00

Caves, Carleton

Sponsor: Office of Naval Research
FY00 Amount: $100,000
Title: Theoretical Investigations in Quantum Information Science
Dates: 4/1/00 - 3/31/03

Deutsch, Ivan H.

Co-PI: P. Alsing
Sponsor: National Science Foundation
FY00 Amount: $19,992
Title: Quantum State Control of Atomic Motion in Optical Lattices.
Dates: 5/1/98 - 4/30/01

Sponsor: Office of Naval Research
FY00 Amount: $100,000
Title: Quantum Logic for Neutral Atoms in Optical Lattices
Dates: 4/1/00 - 3/31/03

Diels, Jean-Claude

Sponsor: National Science Foundation
FY00 Amount: $95,749
Title: Optical Instrumentation Photon Lifetime
Dates: 4/1/99 - 9/30/99

Dieterle, Byron

Sponsor: Department of Energy
FY00 Amount: $148,000
Title: Nuclear Physics at Intermediate Energies
Dates: 12/1/99 - 11/30/00

Duncan, Robert V.

Sponsor: Sandia National Laboratories
FY00 Amount: $25,000
Title: Statistical & Thermodynamic Models for Robotic Control
Dates: 2/1/98 - 9/30/98

Sponsor: Karmanos Cancer Institute
FY00 Amount: $42,113
Title: Development of a Distributed Impedance Analyzer
Duric, Nebojsa

Sponsor: Smithsonian Astrophysical Observatory
FY00 Amount: $18,656
Title: Proposal to Study the Hot Gas Interior of a Supergiant
Dates: 12/3/98 - 12/2/99

Co-PI: R. V. Duncan
Sponsor: National Renewable Energy Laboratory
FY00 Amount: $44,910
Title: Expert Panel Review of Solar Mirror R&D
Dates: 12/1/99 - 3/1/00

Gold, Michael S.

Sponsor: Fermi Laboratory
FY00 Amount: $3,000
Title: MOU: CDF SVX II Silicon Vertex Detector Upgrade Project
Dates: 3/12/98 - 6/30/99

Gregory, Stephen

Sponsor: Air Force Research Laboratory
FY00 Amount: $37,414
Title: IPA 082 for Steven Gregory: 2000-2001
Dates: - 2000-2001

Henning, Patricia

Sponsor: National Science Foundation
FY00 Amount: $35,320
Title: The Distribution of Optically Obscured Galaxies and Asymmetric Isolated Galaxies
Dates: 10/1/95 - 9/30/00

Junor, William

Co-PIs: N. Duric and S. Restaino
Sponsor: NASA - Washington
FY00 Amount: $9,640
Title: Catching the Perfect Wave: The Application of Adaptive Optics to Optical Interferometry in the 21st Century
Dates: 2/1/98 - 7/30/98

Kenkre, Vasudev M.

Sponsor: U.S.-Mexico Foundation
FY00 Amount: $9,985
Title: Collaboration between Mexican and USA Scientists via Consortium of the Americas for Interdisciplinary Science

Dates: 12/1/99 - 11/30/00

Ledlow, Michael J.

Sponsor: NASA - Washington
FY00 Amount: $50,200
Title: The X-Ray Properties of Rich Clusters from Z=0-0.2 Using the ROSAT All-Sky-Survey
Dates: 10/1/97 - 9/30/00

Matthews, John

Co-PIs: M. Gold and S. Seidel
Sponsor: Department of Energy
FY00 Amount: $24,000
Title: New Mexico Center for Particle Physics: Studies of Fundamental Interactions
Dates: 7/1/92 - 2/28/97

Co-PIs: M. Gold and S. Seidel
Sponsor: Department of Energy
FY00 Amount: $485,000
Title: New Mexico Center for Particle Physics: Studies of Fundamental Interactions
Dates: 7/1/92 - 2/28/01

Sponsor: Fermi Laboratory
FY00 Amount: $6,700
Title: Construction of Equipment Items: WBS#1.2.1 & 1.3.5
Dates: Not available

Sponsor: Fermi Laboratory
FY00 Amount: $18,770
Title: Construction of Equipment Items: WBS#1.2.1 & 1.3.5
Dates: Not available

Sponsor: Fermi Laboratory
FY00 Amount: $25,700
Title: Construction of Equipment Items: WBS#1.2.1 & 1.3.5
Dates: Not available

McGraw, John T.

Sponsor: NM Tourism Department
FY00 Amount: $10,000
Title: LodeStar Project
Dates: 12/28/99 - 6/30/00

McIver, John K.

Sponsor: Boeing Company
FYOO Amount: $31,815
Title: Solid-State Laser Materials for the Mid-Infrared
Dates: 10/1/99 - 9/30/00
Sponsor: Air Force Research Laboratory

FYOO Amount: $52,037
Title: IPA 156 for John Telle
Dates: 11/8/99 - 11/7/00
Sponsor: Air Force Research Laboratory

FYOO Amount: $53,493
Title: IPA 102 for James Welch 00-01
Dates: 3/1/00 - 2/28/01
Sponsor: Air Force Research Laboratory

FYOO Amount: $74,617
Title: IPA 207 for Dr. Hasselbeck, 2000-2001
Dates: 4/1/00 - 3/31/01
Sponsor: Air Force Research Laboratory

FYOO Amount: $51,866
Title: IPA 239 for John McCord
Dates: 4/19/00 - 4/18/00
Sponsor: Air Force Research Laboratory

FYOO Amount: $24,358
Title: IPA 241 for John McIver May-Aug 00
Dates: 5/15/00 - 8/15/00
Sponsor: Air Force Research Laboratory

Panitz, John A.

Sponsor: National Science Foundation
FYOO Amount: $65,287
Title: Visual Electricity and Magnetism: A Focused Concept Laboratory
Dates: 10/1/99 - 9/30/00

Prasad, Sudhakar

Sponsor: Air Force Office of Scientific Research
FYOO Amount: $12,235
Title: Information Dynamics in Image Deconvolution
Dates: 3/1/97 - 2/28/98

Rand, Richard J.

Sponsor: National Science Foundation
FYOO Amount: $286,979
Title: CAREER: The Interstellar Disk-Halo Connection in Edge-On Galaxies: Bringing Research to a Large Audience
Dates: 9/1/00 - 8/31/05

Rudolph, Wolfgang
Co-PI: J. McIver  
FY00 Amount: $24,000  
Title: Research on Optically Pumped Molecular Lasers  
Dates: 1/4/99 - 12/31/99

Sponsor: Anteon Corporation  
FY00 Amount: $9,427  
Title: Laser Physics and Engineering Course  
Dates: 4/1/00 - 6/30/00

Sponsor: Directed Energy Professional Society  
FY00 Amount: $9,487  
Title: Sealable Molecular Lasers  
Dates: 4/1/00 - 12/31/00

Seidel, Sally  
Co-PI: H. Bryant  
Sponsor: National Science Foundation  
FY00 Amount: $61,827  
Title: Research Experiences for Undergraduates: The Los Alamos Summer School Project  
Dates: 1/1/99 - 12/31/01

Sponsor: Brookhaven National Laboratory  
FY00 Amount: $30,000  
Title: Electrical Engineering for the ATLAS Experiment  
Dates: 3/1/00 - 9/30/00

Sharma, Mohinder Pau  
Sponsor: Air Force Research Laboratory  
FY00 Amount: $24,739  
Title: IPA 028 10/99 through 9/00  
Dates: 10/1/99 - 9/30/00

Sponsor: Air Force Research Laboratory  
FY00 Amount: $43,074  
Title: IPA 028 10/99 through 9/00  
Dates: 10/1/99 - 9/30/00

Sheik-Bahae, Mansoor  
Sponsor: National Science Foundation  
FY00 Amount: $40,000  
Title: Investigation of Femtosecond Dynamics and Optical Switching in Active Semiconductors  
Dates: 7/1/96 - 6/30/01

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# TEACHING LOAD REPORT

**DEPARTMENT OF PHYSICS AND ASTRONOMY**  
**1999-2000**  
John K. McIver, Chair

TOTAL 1999-2000 ENROLLMENT: 5,518  
TOTAL 1999-2000 STUDENT CREDIT HOURS: 13,467

## 1999 SUMMER SCHEDULE OF CLASSES

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DEPARTMENT TOTALS: 2883 6971

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DEPARTMENT TOTALS: 2493 6114
Over the last year department of political science students have won awards and recognition for their work from other universities, including a fellowship to study at Harvard for the year, presented papers at the major disciplinary conferences, published in refereed journals, and accepted tenure track positions at major research universities. Department faculty have published articles in the top refereed journals in the discipline, appeared on public television’s NOVA, and have received over $600,000 in outside funding from state agencies, national laboratories, and the National Science Foundation.

I. SIGNIFICANT DEVELOPMENTS

A. UNDERGRADUATE PROGRAM
The department graduated 84 majors. The annual commencement ceremony was hosted in the Grand Ballroom of the Student Union Building. Over 420 students and parents attended. Mr. David Archuleta, a Regent for the University of New Mexico, was the commencement speaker.

The department awarded summa cum laude honors to two students. David Pacheco, also the department’s commencement speaker, wrote a thesis titled “In Front of Our Own Eyes: A Public Interest View of Bureaucratic Corruption.” Colin Hunter’s senior thesis was titled “Judging Judicial Selection, Performance Evaluation, and Retention in New Mexico.” Colin also attended the Rice Undergraduate Research Conference in January 2000, and took second prize for his paper.

B. GRADUATE PROGRAM
The department awarded two (2) MA degrees and eight (8) PhD degrees this year. The number of graduate students is 13. The department admitted three incoming graduate students for the 2000-2001 academic year. The department plans to develop, in conjunction with Sandia National Labs, a Policy Analysis/Security Policy concentration at the MA level.

The department and Sandia National Laboratories continued their program for students to work part-time at Sandia. Two graduate students are now working at Sandia’s Cooperative Monitoring Center, an organization that uses advanced information, satellite and sensor technologies to help adversaries resolve their conflicts by effectively monitoring each side’s compliance with agreements. One student is examining the application of these tools for resolving conflicts in South America, such as the recent border war between Peru and Ecuador. Another student is looking at the application of these technologies to help resolve civil wars as a component of international peacekeeping efforts.

Student Achievements

Publications

Conference presentations
Randall Parish presented a paper co-written with Prof. Mark Peceny entitled “Kantian Liberalism and Democracy in Latin America,” at the Western Political Science Association (WPSA) Annual Meeting in March. In November, he presented “Non-Hegemonic Stability: Brazil and Southern Cone Integration” at the Seminar on NAFTA and Mercosur Integration in Buenos Aires, Argentina.

Nancy Carrillo presented a paper co-written with Prof. Lonna Atkeson entitled “Increasing External Efficacy: The Importance of Gender Diversity in State Governments” at the International Society of Political Psychology Annual Meeting in July. She also presented a poster titled “Cognitive Dissonance in a Primary Election” in at the Midwestern Political Science Association (MWPSA) Annual Meeting in April.

**Awards, Fellowships, Prizes.**

Randall Parish was a UNM “TA of the Year” for the 1999-2000 school year.

Dylan Lindsay received the Clifford Clogg Scholarship from the Summer Program In Quantitative Methods at the Inter-university Consortium for Political Science and Social Research in Ann Arbor, Michigan. Dylan also was selected to be a Predoctoral Fellow in the “Military Conflict as a Public Health Problem” Initiative at the Center for Basic Research in the Social sciences at Harvard University for the 2000-2001 academic year.

Mary Bellman received the Title VI Foreign Language and Area Studies fellowship for a second year from the Latin American Institute (LAI). She also received a Field Research Grants from the LAI for dissertation research in Central America.

Francois Gelineau, Jeffrey Drope, and Doug Hecock each received the Ph.D. Fellowship from the Latin American and Iberian Institute.

**Placement Upon Graduation**

Judith Palier, Ph.D., Fall 1999. Assistant Professor of political science at San Juan Community College in Farmington, NM.

Robert Wright, Ph.D., Fall 1999. Director of the Social Science Program at the Santa Fe Community College in Albuquerque. Served one year in a civilian instructor position at the United States Air Force Academy.

Diane Prindeville, Ph.D., Fall 1999. Assistant Professor at New Mexico State University Department of Government.

Moises Esquivel-Arce, Ph.D., Spring 2000. Assistant Professor at Louisiana State University, starting Fall 2000.

Caroline Beer, Ph.D., Spring 2000. Assistant Professor at the University of Vermont, starting Fall 2000.

Erik Wibbels, Ph.D., Spring 2000. Assistant Professor at the University of Washington, starting Fall 2000.

Sidney Cullipher (e-mailed)

Kristin Kenyon, Ph.D. candidate. Manager with InterSurvey, Inc., an internet polling company outside of San Francisco.

Jennifer Mathews-Lucas, MA, Spring 1999, works at the Tyson Organization, a political consulting firm in Ft. Worth, TX.

**C. INSTITUTE FOR PUBLIC POLICY**

Hank Jenkins-Smith and UNM research on public attitudes about global climate change was featured in a new NOVA and FRONTLINE program on the environmental debates about global warming. Focus groups conducted by the UNM Political Science Department’s Institute for Public Policy explored public response to the debate, and illustrated some of the political difficulties facing proponents of policies to address global climate change. The program aired April 18 on KNME Channel 5.
D. SPEAKERS
The department continued its colloquium speaker series with talks given by the following faculty, graduate students, and visiting speakers:

September 13, 1999 – Mary Bellman, “Unionization in the Central American Maquilas: Lessons from Unlikely Victories.”


September 26, 1999 – Caroline Beer, “Democracy and Legislative Institutional Change in the Mexican States.”

September 27, 1999 – Erik Wibbels, “Federalism and the Politics of Macroeconomics Reform.”

October 4, 1999 – Jennifer Mathews-Lucas

October 11, 1999 – Randall Parish, “Instituting Foreign Relations: Political Institutions and Foreign Policy in Latin America.”

October 18, 1999 – Walter Dale Mason, UNM-Gallup, “Attacks on Tribal Sovereignty; The Politics and Ideology of Federalism.”

October 25, 1999 – Barry Ames, University of Pittsburgh, “The Role of the Legislative Party in a ‘Weak’ Party System: The Case of Brazil.”

November 1, 1999 – Dylan Lindsay, “Talking in Time: Third Party Intervention and Civil War Duration and Outcome.”

November 8, 1999 – Moises Arce, “Political Consequences of Market Reform in Peru.”

November 15, 1999 – Christina Schatzman


February 14, 2000 – Max Cameron, University of British Columbia, “Threats to Democracy in Latin America.”

February 28, 2000 – Francois Gelineau

March 27, 2000 – Richard Waterman


April 24, 2000 – Michael Alvarez, California Technical Institute

E. INTERNSHIPS
In addition to the Sandia opportunities, eleven undergraduate students were placed in internships with the New Mexico State Legislature working under the close supervision of Adjunct Professor Gilbert K. St. Clair. Both students and Legislature staff considered the internship a success. Legislative members of both parties commented favorably on the interns assigned to them.
F. SCHOLARSHIPS
Thirteen undergraduate scholarships were awarded this year.

II. SIGNIFICANT PLANS
A. RECRUITMENT
The department plans recruitment of one new faculty member in the area of international relations. The department will continue its efforts to increase the pool of applicants to the graduate program, including an innovative web page, and sending select faculty members to national recruiting events.

III. APPOINTMENTS TO FACULTY/STAFF
Joann Buehler was hired on as Administrative Assistant in March, 2000.

IV. SEPARATIONS FROM FACULTY/STAFF
Anne Burtnett left the department in December, 1999 for a position at Women Studies at UNM. Andrew Enterline left the department for a position at the University of North Texas in July, 2000.

V. PUBLICATIONS
During the period July 1, 1999 to June 30, 2000, department faculty published in the top three journals of the discipline - the *American Political Science Review*, the *American Journal of Political Science* and the *Journal of Politics*.


Mark Peceny — Democracy at the Point of Bayonets, Penn State University Press.


VI. NOTEWORTHY OUTSIDE PROFESSIONAL ACTIVITIES OF FACULTY

Fred Harris and Kenneth Roberts collaborated with UNM Common Cause to sponsor a UNM Forum on Campaign Finance Reform on January 26, 1999 in Dane Smith Hall.

Kenneth Roberts was invited to Venezuela by the Carter Center’s Election Observation Delegation in May, 2000.

Edited or Served on Editorial Boards of Journals

F. Chris Garcia served on the editorial boards of Social Science Quarterly, Political Research Quarter, and the University Press of Virginia’s book series on “Race, Ethnicity, and Politics.”

Fred Harris served on the editorial board of the Civic Arts Review, published by the Arneson Institute of Politics, Ohio Wesleyan University.


Christine Sierra served on the editorial board for PS: Political Science and Politics.

**Served as officers or members of key committees in national or regional professional organizations**

F. Chris Garcia served as Consultant-Evaluator for the commission on Institutions of Higher Education, North Central Association of Colleges and Schools.

Fred Harris served as member and co-chair of the Board of Trustees for the Milton S. Eisenhower Foundation, Washington, D.C. He also served as the State Chair for New Mexico Common Cause and International Advisor for Americans for Indian Opportunity.

Hank Jenkins-Smith served on the National Academy of Sciences Committee for Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons. He was also a National Science Foundation grant reviewer.

Deborah McFarlane served as Co-chair of the Population, Family Planning, and Reproductive Health (PFPRH) section of the APSA, as well as Chair of the Awards Committee, and Co-chair of the History Committee of said section. For the Midwestern Political Science Association, she was a member of the Herbert Simon Award Committee.

Shane Phelan served as Chair of the APSA Committee on the Status of Gays and Lesbians in the Profession. She was also a member of the NWSA Plenary Committee.

Christine Sierra served as a consultant to The White House Project, a non-profit, non-partisan, national campaign to raise public awareness of women’s leadership in American Politics. She was also a member of the selection committee to recommend vice-presidential candidates for the Ballot Box Initiative. She was a roundtable participant of "Leadership, Gender, and the Presidency" at the APSA annual meeting. She was co-president of the APSA with James Jennings, organizing the section on Race, Ethnicity, and Politics. Prof. Sierra currently serves on the Executive Council of the APSA for 2000-2002.

Joseph Stewart served as Chair of the Nominations Committee for the Southern Political Science Association. For the Southern Social Science Association, he is a member of the Editorial Policies Committee. For the Western Political Science Association, he is a member of the Executive Council. He also serves on the College Board for the Southwestern Regional Office of the Advanced Placement Advisory Council.

**Represented their discipline or the university before legislative bodies**

Lonna Atkeson made a presentation on campaign finance reform for the Campaign Finance and Reform Committee of the New Mexico Legislature on July 30, 1999.

**Participated in outreach activities (guest lectures, classroom visits, demonstrations) in primary or secondary schools**

Mark Peceny made a presentation to the 7th grade social studies classes at McKinley Middle School in October 1999 entitled "US Military Interventions."

**Given on-campus tours, workshops, performances, or other activities for community members**

Fred Harris, in collaboration with the Albuquerque Teachers Institute lead a four-week seminar titled "Principles of US Government." Twelve public school teachers were enrolled in the course, held in June, designed to give them ideas for political curriculum development.
Shane Phelan presented "Transgendered Lessons for Lesbians and Gays," at Forward Motion: FTM Cultures, Lives, and Advocacy Conference in Burbank, California, October 1999. She also presented "Studying Your Own Program," with Ann Nihlen, Carmen Salazar Lowar, and Monica Torres) at the National Women’s Studies Conference in Albuquerque.

Kenneth Roberts and Fred Harris, in collaboration with Re-Visioning New Mexico and UNM Common Cause, hosted a UNM Forum on Campaign Finance Reform on January 26, 2000, open to the public.

Kenneth Roberts made a presentation to the Jubilee 2000 International Debt Relief Campaign, Maryknoll Western Regional Conference in Albuquerque in September 1999. He also helped to organize a New Mexico Steering Committee for the Jubilee 2000 International Debt Relief Campaign.

VII. OUTSIDE-SPONSORED RESEARCH


Hank Jenkins-Smith, University of Rochester, $45,833. Title: Informing Contingent Valuation Methods from Internet Surveys. May 1, 1999 – April 30, 2000.


The Good, the Better, and the Best in Political Science

Michael J. Ballard, University of New Mexico
Neil J. Mitchell, University of New Mexico

There is no rhadamanthine solution to the problem of comparing the research performance of departments, and there is no shortage of interest in the topic. Institutionally, a favorable ranking provides graduate and faculty recruitment benefits. Individually, rankings provide an outlet for the competitive spirit lurking behind good academic manners. Here, we provide a measure of political science department productivity that, while not capturing the whole of the story, has some advantages over other rankings.

The recent National Research Council’s (NRC) rankings of research doctorate programs in the United States has generated some critical analyses by political scientists. The principal component of the NRC’s rankings was department reputation, constructed from the perceptions of faculty evaluators in the spring of 1993 (National Research Council 1995). Analyses of the NRC rankings demonstrated that some of the more important factors accounting for the variation in reputation are department size and the overall reputation of the university (Katz and Eagles 1996; Jackman and Siverson 1996; Lowery and Silver 1996). In other words, there are extraneous influences on these reputation-based rankings that complicate their interpretation, at least as indicators of faculty quality and productivity.

The NRC study had data on number of publications, but, noting that these data do not control for journal quality, Miller, Tien, and Peeler (1996) focused on publications in the American Political Science Review, as well as on citations. While a welcome supplement to the reputational analyses, their focus on the discipline’s preeminent journal itself represents an overcorrection for the problems with the NRC data. This ranking leaves out much high-quality research. As with any discipline, political science has a broad range of refereed journals, several of which can claim a visibility and authority comparable to the American Political Science Review. These journals are included in this analysis.

In this way we follow the lead of Welch and Hibbing (1983; see also McCormick and Bernick 1982), although with a somewhat different list of journals. Drawing on Garand’s rankings (1990), political science journals that achieved a mean rating by a random sample of political scientists of 6 or above on a 0 = poor to 10 = outstanding scale, and a proportion familiar score of 0.5 or above, are included in the analysis. Thus, our analysis is based upon articles published in American Political Science Review, Journal of Politics, American Journal of Political Science, World Politics, Comparative Politics, British Journal of Political Science, Western Political Quarterly/Political Research Quarterly, Polity, and Political Science Quarterly. Faculty publications in the form of articles, research notes, and controversies (APSR) are included for the period 1986–96, discounting for the number of coauthors. Thus, a department receives a 1 for each article, research note or controversy authored by one of its faculty, .5 if coauthored (with someone from a different department), and so on.

Table 1 presents the department research performance rankings. Departments are ranked by a weighted total publication score over the average number of full-time faculty members over this period (WTFAC). Relatively small differences in the publication scores can lead to rank changes for the top fifty, but the best or most productive five departments do separate quite clearly from the rest.

Publications are weighted for the quality of the journal. For this quality weighting, we employ Garand’s “journal impact” measure (1990). For faculty size, we averaged the data reported for each department in the American Political Science Association, Graduate Faculty and Programs in Political Science (1986, 1992, 1995). Per capitalizing publications is necessary to control for the distortion of sheer faculty size on the measurement of faculty research performance.

How does this measure of research performance compare with the perceptions of research performance reported in the NRC study? While most of the top fifty publishing departments are in the NRC top 50, only one graduate program receives the same ranking by either measure, and there is no statistically significant relationship between the two measures. Examining column five (CHANGE), one can see the impact of the more objective measure. Some universities, including Cal Tech, Carnegie-Mellon, Texas A&M (the leading department by raw publication score), the University of New Mexico, Marquette, and West Virginia, were unranked by the NRC. For others that were included, like SUNY-Stony Brook, Iowa,
Rankings are a lamentable understatement of the research performance of their political science faculties. These are exactly the type of departments that the earlier analyses of the NRC rankings (Katz and Eagles 1996; Jackman and Siverson 1996; Lowery and Silver 1996) suggest would be undervalued by the subjective measure relatively small and located in universities with little cachet. The big losers, moving from the subjective to the objective measure, are generally larger departments in more well-known universities; that is departments whose faculty are not driven to write shamelessly self-serving articles in PS.

Research is disseminated in books in addition to journal articles, other journals may deserve inclusion, and one could also make an argument for incorporating citations as an additional measure of research impact (see Miller, Tien, and Peebler 1996). But if rankings are unavoidable, then let them reflect actual rather than perceived research, departmental achievements as distinct from university prestige, and faculty productivity rather than departmental size.

Notes

1. We focused on political science journals to reduce the likelihood of including the publications of non-political science faculty, while recognizing that journals from other disciplines (American Sociological Review) and interdisciplinary journals (Social Science Quarterly) achieve good ratings. It is likely that there is some remaining measurement error because we relied on the affiliation and faculty status information listed in the journals. The Journal of Conflict Resolution was not included, since from 1989 to 1996 Information on authors’ department affiliation and status was omitted.

2. There is a significant relationship, .63 $p < .01$, between our measure and the Miller, Tien, and Peebler’s (1996) number of APSR authors measure expressed as a ratio of the potential number of authors (faculty size).

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ANNUAL REPORT
1999-2000
DEPARTMENT OF PSYCHOLOGY
Michael J. Dougher, Ph.D.
Professor and Chair

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DEPARTMENT OF PSYCHOLOGY

STATEMENT OF MISSION

The Department of Psychology shares with other academic departments at the university its raison de'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

Michael Dougher served the second year of his second four-year term as Chair of the Department. The Department continued with the administrative structure adopted in 1995, which is depicted in the organizational chart on the following page.

With the exception of Harold Delaney, who was on sabbatical leave during the fall semester, the Department’s major administrative committee, the Planning and Policy Committee remained the same as last year. Richard Harris served Associate Chair for Graduate Education and Area Head for the Developmental/Social/Personality and (in Harold Delaney’s absence) Quantitative areas; Gordon Hodge served as Associate Chair for Undergraduate Education, Mark McDaniel served as Area Head for the Cognitive/Learning area and Rob Sutherland served as Area Head for the Behavioral Neuroscience area.

As in past years, the governance and functioning of the Department relied heavily on a number of faculty members who served effectively on other departmental committees. A listing of the committee memberships for the 1999-2000 academic year is given in Appendix A. Particularly noteworthy was the very important and time-consuming work of the Graduate Admissions Committee (chaired by Mark McDaniel), the Faculty Search Committee (jointly chaired by Rob Sutherland and Mark McDaniel), and the Faculty Salary Committee (chaired by Mark McDaniel). The Admissions Committee was faced with the task of selecting the very best applicants from a pool of roughly 200. 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. There is nothing a department does that is more important than hiring new faculty, and those who served on the Faculty Search Committee deserves many thanks for their hard work and congratulations on the excellent outcome of their efforts. Finally, the Faculty Salary Committee is given the unenviable task of ranking the performance of each member of the faculty in order to determine the allocation of salary increases. As they have done in the past, the committee did an excellent job and carried out their task with in a professional, sensitive, and respectful way.

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 is quite literally a world-class collection of literature concerned with the psychology of learning and is a tremendous resource to the Department. This year the Quad-L Trust supported a visit by Bruce Overmeir, Professor of Psychology at the University of Minnesota, who delivered the 12th annual Quad-L lecture. The title of Professor Overmeier’s talk was “Expectations: From the Animal Laboratory to the Clinic.” Rob Sutherland, who serves as faculty advisor to the Quad-L, coordinated the selection process for the Quad-L Lecture and arranged for Dr. Overmeier’s visit.

B. Undergraduate Education

Stated simply, the undergraduate education productivity of the Department’s faculty and staff is enormous and among the highest in the College. As of the spring semester, the Department had a total of 590 majors, which is 14.25% of the number (4140) of majors in the College of Arts & Sciences. The Department offers a wide variety of courses, ranging from introductory psychology to advanced courses in learning and memory, abnormal psychology,
evolutionary psychology, mathematical psychology, and cognitive neuroscience. Students are exposed not only to some of the best lecturers at the University but also to advanced laboratory courses in which they design experiments and have “hands-on” contact with human and non-human subjects.

The popularity of psychology courses has remained very high. Part 1 of Appendix B presents the Department’s enrollment summary statistics for 1999-2000 as well as for the preceding four years. Actual enrollments per course and total student credit hours for the 1999-2000 fall, spring and summer semesters are presented in Appendix C. Total enrollment in our undergraduate courses was 7,534 students, amounting to nearly 21,500 Student Credit Hours. While there was a decrease in the number of students enrolled in psychology courses relative to last year, that decrease occurred primarily in our introductory labs and upper division courses. This reduction was due to the Department’s decision two years ago to eliminate the introductory labs and reduce the number of upper division courses we offer in order to bring that number more in line with our faculty FTE. The few introductory lab sections we did offer this year were to accommodate those students who entered the university under the old catalog and needed the introductory labs to fulfill graduation requirements. Lower enrollments in the upper division courses were also the result of the overall drop in university enrollments a few years ago. However, in line with increases in freshman enrollments the last two years, enrollments in introductory courses (2089) increased slightly over the previous year and were at a five-year high. As we intended when we revamped our undergraduate curriculum two years ago, enrollments in our advance labs increased substantially over the previous two years, and we expect that trend to continue. Despite the relatively large number of courses offered by the Department, we have been able to cut back significantly on the number of part-time and graduate
student instructors in our undergraduate program over the past several years. Only seven individuals (not counting graduate students) were hired as part-time instructors during 1999-2000, and one of those, Dan Matthews is the Director of our Psychology Clinic. These instructors are listed in Appendix D. Most of these instructors have taught for us before and they were selected again because of their commitment to teaching and excellent classroom skills.

During the past year, non-regular faculty taught 28 of the 66 regular undergraduate courses (excluding labs and independent study) offered by the Department during the regular academic year (i.e., excluding summer). Graduate students taught twenty-two of those courses and six were taught by part-time instructors. Graduate students in our Department have a teaching requirement and many choose to satisfy that requirement by teaching their own course. To enhance the effectiveness of their teaching, all graduate student instructors are required to take a course in teaching before they are assigned their own course, and all graduate student instructors are assigned a faculty member to serve as a teaching mentor. Overall, the Department feels it is doing very well in achieving the combined objectives of training our graduate students to become good teachers, maximizing the number of undergraduate courses taught by regular faculty, and maintaining the teaching excellence that has been the hallmark of our Department.

The flagship for quality education in our Department remains our Psychology Honors Program, which has been in existence for over 26 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 E lists our 1999-2000 honors students along with the titles of their research theses, the names of their faculty supervisors, and the level of honors awarded to them by the department. Gordon Hodge deserves special mention for his role as the instructor for the senior honors seminar. He did an
absolutely outstanding job of helping the students prepare their research projects for presentation to an assembly of faculty, students, and parents. By all accounts, these were some of the finest presentations in memory.

For the 11th consecutive year, the Department hosted a spring commencement ceremony for its graduating students. The commencement address, delivered by Professor Harold Delaney, was entitled “The University and the American Dream.” This continued the tradition of having a senior faculty member in the Department deliver the commencement address. Previous addresses have been delivered by Frank Logan, Bill Gordon, Sam Roll, John Gluck, Henry Ellis, Bill Miller, Kristina Ciesielski, Mark McDaniel, Dennis Feeney, Richard Harris, and Robert Sutherland. Department Administrator, Candace Blashak, organized the ceremony and she and her staff handled all of the arrangements. Counting the faculty, the graduates, their families and friends, almost a thousand people attended the ceremony. Needless to the say this is a huge and costly (over $4000) undertaking for the Department, but judging by the very positive comments from both the graduates and faculty, it is well worth the expense and effort.

C. Graduate Education

During the past academic year, the Department awarded five Ph.D. degrees. The names of the degree recipients along with the titles of their dissertations and the names of their faculty advisors can be found in Appendix F. This brings the total of Ph.D. degrees awarded by the Department to 270. In addition, the Department awarded 9 Master of Science degrees this year. These degree recipients along with the titles of their theses and faculty advisors are also listed in Appendix F.

The graduate program remained relatively unchanged from the previous five years. The faculty used the criteria and guidelines that were revised last year 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, and the performance of some merited
special recognition. Seth Friedman received the Benjamin Haught Award in recognition of
outstanding research by a graduate student and Rich Ogle and John Dencoff won awards for
outstanding teaching associate and teaching assistant, respectively. In addition, a number of
students received department commendation for exemplary research productivity. The names of
these students are listed in Appendix G.

Fortunately, the Department was able again this year to financially support all graduate
students who requested aid and were in good standing. In part, this was due to the availability of
research assistantships made possible by extramural funding obtained by the faculty as well the
availability of research and clinical positions outside the Department. However, most of the
students who receive aid in our Department work as teaching assistants (TAs). This presents a
problem because the ratio of the number of courses needing TAs to the number of TAs we are
able to fund is too high and creates an excessive workload for our TAs. The Department simply
does not receive adequate TA/GA funding to cover its needs. We are in clear need of at least
three more TA positions. In addition to an insufficient number of TA lines, our TA stipends are
too low relative to our peer institutions. This places us at a real disadvantage in trying to
compete with other institutions for the best graduate students.

After a substantial decrease last year, the number of graduate students enrolled in the
Department this year declined by just one (from 93 to 92). The previous years’ decreases was
the result of a decision made by the clinical faculty a few years ago to reduce the number of
admissions to the clinical program. They also reflect the Department’s efforts to facilitate our
students’ progress toward their degrees and to provide them with clear guidelines and
expectations regarding their degree progress. The positive result is that we have a more
reasonable faculty to graduate student ratio, a more balanced graduate-training load across
faculty, and a better balance between clinical and experimental graduate students.

Although still relatively large, the number of applications to the graduate program
dropped from 157 last year to 138 this year. More concerning, this is the fifth year in a row that
the number of applications has decreased. By far, the biggest drop has been in the number of
applications to the clinical program. This decline is part of a national trend. Almost all Ph.D.-
granting clinical psychology programs are reporting decreases in applications, some as high as
40%. The major reason offered for these decreases is the increasing role played by managed
care in mental and behavioral health settings. This has resulted in a substantially reduced
demand for doctoral level clinical psychologists to provide direct clinical services, especially
psychotherapy. In response, psychology departments are seeing fewer applications from students
whose primary interests are in delivering clinical services and providing psychotherapy. There
has not, however, been a corresponding decrease in the number of applications from students
whose primary interests are in clinical research. In addition, while the number of applications to
clinical programs is down nationally, the qualifications of these applicants, as measured by GRE
scores and GPA, have not declined and, in fact, remain quite high.

In the face of declining numbers of applications, the Admissions Committee under the
leadership of Mark McDaniel redoubled its efforts to attract the very best applicants to our
graduate program. Their efforts paid off in that we were able to admit 14 very good students to
our program this year. These students and their advisors are listed in Appendix H.
Despite the decline in the number of applications to our graduate program, the Department continues to receive nearly one-fourth of all the applications to departments in the College and to have an acceptance rate that is markedly below the College average. Admission to our doctoral program is still highly competitive, and this allows us to select students who are highly qualified and share the research interests of our faculty.

As mentioned in the '97-98 Annual Report, the Clinical Program was awarded a full seven years accreditation by the American Psychological Association APA). A yearly report on the Clinical Program is required by APA to maintain our accreditation, and that report, prepared by John Gluck, is attached as Appendix I. As this report indicates, the clinical program continues to do well and validates APA’s decision to grant it seven years accreditation. Thanks to John Gluck for his hard work in preparing this report.

D. Faculty

At the beginning of the academic year, the Department had 24 voting faculty members (22 FTE), including Bill Gordon, who is currently serving as President of the University, and Bill Miller, who is supported by a senior Research Scientist Award from NIAAA. As mentioned previously, the Department hired Claudia Tesche as a professor in the behavioral neuroscience area. Dr. Tesche received her Ph.D. in physics from the University of California, Berkeley in 1979, and has been working at the Brain Research Unit at Helsinki University since 1992. This is the first faculty member hired by the Department with a doctoral degree in a field other than psychology, but Dr. Tesche’s expertise and international reputation as a behavioral neuroscientist makes her an outstanding addition to our faculty.

It was already mentioned that Dr. Tesche’s hire was made possible through the Department’s collaboration with the National Foundation for Functional Brain Imaging. This
was the first time the Department entered into a joint-hiring arrangement with an extra-departmental entity, and there were some concerns about this how process would work. In the end, the process worked extremely well and sets an excellent precedent for future collaborative endeavors. The Department thanks both Ed Flynn and Chris Wood from the National Foundation for Functional Brain Imaging for their cooperation, support, and professionalism during the hiring process.

The Department and College also entered into a novel arrangement this year with Holly Waldron. Dr. Waldron has been very successful in obtaining extra-mural funding for her research investigating alternative treatments for adolescent substance abuse. In order to accommodate this research, Dr. Waldron founded the Center for Family and Adolescent Research (CFAR). This year, Dean Fischer granted CFAR College Center status and allowed Dr. Waldron to be relieved of her classroom teaching responsibilities in order to administer CFAR. In return, Dr. Waldron paid her salary from her grants and released her university salary back to the College in order to hire a visiting professor to cover her teaching load. This arrangement was mutually beneficial to all the concerned parties and was made possible by Dean Fischer’s flexibility and willingness to explore creative alternatives to meet the needs of the College, Department, and individual faculty.

Earlier this year, Richard Harris announced that he would retire at the end of this year. Dick joined the Department in 1968 and has served the Department, the University, and the profession very well in a number of capacities over his career. He will be missed by all of us, and we wish him well in his retirement.
Five members of our faculty were on sabbatical leave this year. Harold Delaney was on leave during the fall semester, and Lynette Cofer, Dennis Feeney, Eligio Padilla, and Jane Smith were on leave during the spring semester.

Part 1 of Appendix B shows that the Department’s faculty FTE has remained constant over the past three years despite our continuing need to hire more faculty. Although we were able to hire Sarah Erickson last year to replace Judy Arroyo (who left at the end of ‘96-97) and Claudia Tesche this year to replace Peder Johnson (who retired at the end of ‘96-’97), Jack Blanchard’s resignation last year still leaves us down two FTE from 1996-1997. Add in Dick Harris’ resignation, and next year the Department will be down three FTE from 1996-1997.

Given the high student demand for our courses, the faculty’s already heavy teaching load, and the need to maintain excellence in research and scholarly productivity, it is imperative that we hire three full-time regular faculty as soon as possible. We not only need to replace Jack Blanchard and Dick Harris, we need to add to our Developmental and Social areas. Both areas attract large numbers of students to their classes, and any psychology department simply must have adequate representation in these core areas if it is to remain viable. The lack of faculty representation in developmental psychology will become particularly acute after next year because this year Kathy Stansbury, a developmental psychologist, was denied tenure.

The research activities of the faculty are summarized in Part 2 of Appendix B. It is particularly noteworthy that our extramural support has increased in each of the last five years and this year was at an all time high of $2,611,183. This was the fourth straight year that our extramural funding exceeded $2 million dollars and these years were preceded by seven straight years with funding levels just below $2 million dollars. This is certainly an outstanding accomplishment. No detailed commentary regarding faculty research will be presented here.
inasmuch as these data have been provided in each faculty member's Annual Biographical Supplement. In addition, a list of the faculty and their research interests is presented in Appendix K. It should be pointed out, however, that our faculty continue to excel in their research 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.

This year, the University gave special recognition to the achievements of two members of our faculty. Steve Gangestad was named a Regents Professor, and Bill Miller was named a Distinguished Professor, the highest recognition of faculty excellence given by the University. Both of these awards were well deserved and the Department congratulates both Dr. Gangestad and Dr. Miller for their special achievements. The Department is also pleased to note that Dr. Miller is the third member of the Psychology Department to have been named Distinguished Professor. He joins Robert Grice and Henry Ellis in having received this prestigious honor.

By whatever metric one might wish to apply, the faculty of the Department of Psychology is very good. However, a persistent threat to the quality of our faculty is salary inequity. The salaries of some of our faculty are as much as 20% below national and regional norms. The situation was hardly improved this year by salary increases that averaged only 3.2%. The problem of salary inequity at UNM has existed for many years, and it will take several successive years of substantial salary increases before our faculty is compensated at a level comparable to our peers. While this problem is fully acknowledged by the central administration, and while the Dean has made several recent efforts to enhance the salary of our faculty, much more needs to be done. **There should be no doubt that the highest priority for the Department is to see faculty salaries increased to the level of regional norms**
immediately and to the level of national norms in the near future. This is the only way to preserve the excellence of our Department.

**Professional Appointments.** In addition to the part-time faculty who served the Department this year, 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: Nancy Handmaker, Theresa Moyers, and Miguel Villanueva. Drs. Handmaker and Moyers were hired to cover Bill Miller’s teaching load while he fulfills the obligations of his senior Research Scientist Award, and Dr. Villanueva was hired to cover Holly Waldron’s teaching load while she serves as Director of CFAR.

This year the Department awarded research faculty status to six individuals: Janet Brody, P. W. Kodituwakku, Robert Meyers, Natasha Slesnick, Scott Tonigan, and Carolina Yahne. Research faculty status is granted to individuals who have excellent research records, provide research opportunities for our students, and hold extra-mural funding. This past year the Department decided to more actively encourage applications for research faculty positions because it a) extends the range of research opportunities for our students, b) makes the faculty more aware of psychology related research outside of the Department, c) fosters collaborative research, d) provides the advantages of faculty status and university affiliation to researchers outside the University, and e) provides financial resources to the Department that are used to facilitate research by regular faculty and graduate students. The Department is very pleased to include these individuals on our list of research faculty and we fully intend to add to this list in the future.
In addition to our visiting and research faculty, a number of individuals were awarded professional titles based on their service to the department. The 1990-2000 list of visiting faculty, research faculty, and professional appointments is included as Appendix L. The department is grateful to these individuals for their willingness to contribute their time and knowledge to the education and training of our students.

A number of psychologists from other universities and the private sector further enriched our educational programs by presenting research colloquia to our faculty and students. Appendix M presents a record of this colloquium series. Special thanks go to the Colloquium Committee, Mark McDaniel, Rob Sutherland, and Akaysha Tang for their efforts in arranging an outstanding colloquium series.

E. Department Clinic

A separate Annual Report of the Department of Psychology Clinic is presented in Appendix L. Once again this year the Clinic met its primary goals of providing quality training to our Clinical graduate students and affordable, high quality psychological services to the community. The report shows that the Clinic provided many hours of therapy and intakes, and involved approximately 30 graduate students in the provision of those services. This was the second year of operation of the ADHD assessment program under the very able direction of Dan Matthews and Melissa Behrens-Blake. Finally, for the eighth consecutive year, the Clinic was able to operate within its allocated budget. This is a tribute to the able and caring leadership of Dan Matthews and the effective support of his Administrative Assistant, Wanda Sharts.

F. Staff

The Department of Psychology continues to benefit from an extremely competent support staff. This year there were some changes in the titles and responsibilities of several members of
our office staff that resulted from the transfer of Dee Ann Quintana and her staff from the
Department to CASAA. In particular, Stan Bennett was promoted from Accounting Tech to
Supervisor, Administrative Support, and Louis Carrillo will soon be promoted from
Administrative Assistant I to Administrative Assistant II. In addition, Pat Sharp was promoted to
Research Engineer I. Beth Isbell joined the Department as our new Academic Advisor and is
performing outstandingly in that role. In order to better inform those who may not be familiar
with the important duties of the fourteen staff in our department, Appendix M presents a brief
job description of each member of the administrative, instructional, research, and clinical support
staff. It should be mentioned that this staff is not rigidly bound by these formal descriptions and
willingly shares responsibilities in an effort to best serve the needs of the Department.

The core administrative support staff (Candace Blashak, Stan Bennett, Beth Isbell, Nancy
Chavez, and Louis Carrillo) skillfully handle 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. Stan Bennett faced some real challenges in taking on the increased
responsibilities associated with his new position, but he has mastered the job and the transition
occurred without disruption. As already mentioned, the success of the Psychology Clinic is due
in large measure to the administrative skills of Dan Matthews, who completed his twelfth year as
Clinic Staff Director this spring. Dan continues to be effectively assisted in his duties by Wanda
Sharts, the Administrative Assistant. Our research support staff again includes Gilbert Borunda,
Senior Lab Animal Technician; Dr. Linda Contos, Veterinarian, Ector Estrada, Animal Research
Coordinator, DeLaine King, Supervisor, Lab Animal Husbandry, and Patrick Sharp, Research
Engineer. 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 grateful to them.

G. Space

As has been highlighted in the Department’s Annual Report for the past eleven years, our department is not well accommodated by its current space allocation. We need a new building. Currently, we have insufficient staff space in order to function optimally and are unable even to house all of our faculty in faculty offices. Furthermore, during the past few years we have had to continue to convert graduate student offices into faculty research space. Even with this, we do not have sufficient, suitable research space in the building to accommodate the high level of faculty research activity that has been attained in recent years. Although our need for additional faculty is well documented and while our extramural funding and research output is rising dramatically, the size of our current building places severe limitations on our ability to grow and to reach our full potential as a department. The Department’s request for a new building is now acknowledged on the University’s Capital Projects list. However, there is little indication that funds will become available to initiate this project in the foreseeable future.

The Department continues to need financial support in order to initiate a furniture replacement program that would replace 50% of its classroom and laboratory furnishings per year over the next five years. The majority of our current furnishings came with the original building more than 20 years ago. It has become increasingly worn and much of it is in disrepair.

II. Future Plans and Comments

The collaborative effort between the Department and the National Foundation was important not just because we were able to add an outstanding faculty member to our
Department, but because it establishes a new path of growth for the Department. The University's recent financial stagnation and resulting restrictions placed upon the College and Department have had very tangible, debilitating effect on the hopes, enthusiasm, and expectations of our faculty. Some wondered whether we would ever be able to realize the goals and objectives that just a few years ago seemed so clearly attainable. This hire suggests that we may yet attain those goals, but it also clearly indicates that if we are to do so we must explore new and creative ways to keep the Department moving forward. To be successful, these explorations will require a good deal of creativity, flexibility and cooperation between the College and the Department, between the Department and other university departments, and, most importantly, within our own Department. Very difficult decisions need to be made regarding how best to allocate our limited resources, and these will require open, frank, and collegial discussions. But our faculty has already shown both a willingness and an ability to that. Recently, the opportunity arose to pursue another joint-hiring arrangement with the National Foundation. To satisfy the needs of both the Department and the Foundation, it was decided that the position should be at the senior level and the person hired should be conducting research in the area of experimental psychopathology. Interim Dean Fritz Allen enthusiastically endorsed the idea and, because the arrangement with the Foundation allows the College to postpone for two years its salary obligations for this position, he approved our request to be able to search for two more faculty members in addition to this one. Thus, next year we will be searching to fill three faculty positions: one in clinical at the senior level, and one each in the developmental and social areas at the junior level. In order for us to have come to that decision, many of our faculty members had to put aside their short-term, individual interests in favor of the long-term more general interests of the Department. In addition, we had to have a Dean who was creative and
flexible enough to find new ways to help the Department grow. Fortunately for the Department, we had both.

I very much appreciate the commitment of all of the faculty and staff who were willing to devote their time and talent this past year on behalf of the Department. There are always those who go way beyond the call of duty and deserve special thanks. These include: Harold Delaney, Steve Gangestad, John Gluck, Dick Harris, Gordon Hodge, Mark McDaniel, and Rob Sutherland. John Gluck will be stepping down as the Director of Clinical Training and will be replaced next year by Ron Yeo. John did a great job as DCT and his efforts are well appreciated. Gordon Hodge will be going on sabbatical leave next year and stepping down as Associate Chair for Undergraduate Training. He will be replaced in that role by Harold Delaney. Many thanks to Gordon for performing so well in that difficult role. Thanks to all of those who served on critical departmental committees, especially the Admissions Committee, the Salary Committee, and the Faculty Search Committee. Many thanks also to all the staff who do their jobs so well so consistently. This is an experienced group who, though largely unacknowledged, deftly handles the myriad details of the day to day operation of the Department as well as the acute demands of the occasional crisis.

Unfortunately, the University lost yet another first-rate administrator when Michael Fischer left to take the job of Provost at Trinity University. He was an outstanding Dean and, even in these times of financial difficulty, he always found ways to support the Department. The Department will miss him as Dean, and I will miss him as a friend. While Michael Fischer’s departure is certainly a loss to the Department, we are fortunate to have Fritz Allen as his replacement. Dean Allen has been an extraordinarily quick study and has already shown the
vision and leadership qualities of a seasoned veteran. The Department looks forward to working with Dean Allen in the coming year.

Finally, I would like to thank all of my friends and colleagues in the Department whose energy, counsel, knowledge, and support make the Department a better place to be.
APPENDIX A

COMMITTEE ASSIGNMENTS AY 1999-2000

Ad-hoc Committee on Teaching Evaluation: Sutherland, Gangestad, Hodge, Smith
Admissions: McDaniel, Ciesielski, Gangestad, Goldsmith, Roll, Yeo
Animal Facilities and Use: Contos, Feeney, Gluck, Sutherland, Tang
Awards: Hodge, Gluck, Harris, Yeo
Behavioral Neuroscience: Sutherland, Ciesielski, Gangestad, Egly, Feeney, Hodge, Stansbury, Tang, Yeo
Clinical: Gluck, Ciesielski, Dougher, Erickson, Miller, Padilla, Roll, Smith, Waldron
Cognitive/Learning: McDaniel, Amrhein, Delaney, Dougher, Egly, Goldsmith, Sutherland, Tang
Colloquium: McDaniel, Sutherland, Tang
Computer Use: Goldsmith, Amrhein, Delaney, Harris
Developmental and Social: Harris, Amrhein, Ciesielski, Cofer, Erickson, Gangestad, Gluck, Roll, Stansbury
Faculty Search Committee: McDaniel, Sutherland, Ed Flynn, Fernando Valenquela
Faculty Raise Committee: McDaniel, Amrhein, Gangestad, Sutherland
Honors: Delaney, Amrhein, Hodge
Human Subjects: Egly, Erickson, Stansbury, Tang
Policy and Planning: Dougher, Delaney, Gluck, Harris, Hodge, McDaniel, Sutherland
Quantitative: Delaney, Amrhein, Gangestad, Goldsmith, Harris
Psychology Club: Hodge
# APPENDIX B

-Part 1-

## DEPARTMENT OF PSYCHOLOGY SUMMARY STATISTICS

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## APPENDIX B, Part 1 (continued)

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Research Activities

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General Information

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*Extramural funds budgeted for expenditure during a single AY.
DEPARTMENT OF PSYCHOLOGY CURRENT OUTSIDE-SPONSORED RESEARCH AMOUNTS FUNDED FOR THE CURRENT GRANT YEAR 1999 - 2000

Jack Blanchard - Principal Investigator
Anhedonia & Emotion in Schizophrenia, NIMH; $46,336; 5/1/98-4/30/99

Kristina Ciesielski – Principal Investigator
Neuroimaging and Neurobehavioral Development Models of Functional Brain Subsystems Subserving Memory and Attention in Children; $57,290; 9/2/99-8/31/00

Lynette Cofer – Principal Investigator
Morningness-Eveningness, Alcohol Use and Development, NIAAA; $144,265; 3/1/00-2/28/01

Dennis Feeney - Principal Investigator
Effect Bone Morphogenic Protein OP-1 on Recovery After Sensimotor Cortex Injury in Rats, Creative Biomolecules; $81,377; 3/1/99-6/30/00

Tim Goldsmith - Principal Investigator
Training and Assessing Aircrew Skills: Methods to Achieve Reliable and Valid Performance Data, FAA; $137,000; 5/2/00-5/1/01

Mark McDaniel - Principal Investigator
Cognitive Analysis of Coding Schemes for Speech Protheses, NIDCD; $130,999; 5/1/00-4/30/01

William Miller - Principal Investigator
Modeling & Modifying Motivation for Change, NIDA; $221,066; 7/1/98-6/30/99 (Co-PI, Paul Amrhein)
Behavioral/Pharmacologic Treatment of Alcoholism, NIAAA; $237,257; 9/1/98-8/31/99
NIH Research Scientist Award, NIAAA; $92,202; 8/1/98-7/31/99
William Miller - Principal Investigator (cont.)

Programatic Treatment Innovation Research, NIAAA; $90,242; 8/1/98-7/31/99

Alcohol & Drug Abuse Prevention and Treatment Evaluation, NIAAA, Predoctoral National Research Service Award (NRSA); $106,674; 7/1/98-6/30/99

Strategies for Matching Clients to Treatments, NIAAA, No Cost Extension; 9/1/96-8/31/98

Unilateral Family Intervention for Drug Problems, NIDA; $264,294; 9/1/98-8/31/99

Clinical Trial of Interventions with Significant Others, NIAAA, $88,739; 2/1/98-1/31/99

Natasha Slesnick - Family Therapy Outcome for Runaway Adolescents, NIAAA; $160,694; 9/28/98-8/31/99

Treatment Outcome for Runaway Adolescents, NIDA; $96,634; 9/1/98-7/31/99

Kathy Stansbury - Principal Investigator

Developmental Mechanisms in Emotion Regulation, NIMH; $106,837; 3/10/00-2/28/01

Robert Sutherland - Principal Investigator

ARND: Cortical Plasticity & Learning, NIAAA; $189,808; 2/1/00-1/31/01

A Combined EEG/MEG/MRI/SPECT Imaging Study of Pathological Gamblers; $76,360; 5/1/00-7/31/01

A Combined EEG/MEG/MRI/SPECT Imaging Study of Pathological Gamblers, NCRG; $76,360; 5/1/98-11/1/99

Holly B. Waldron - Principal Investigator

Drug Abuse Treatments for Adolescents, NIDA; No Cost Extension; 7/1/99-6/30/00

Efficacy of Treatments for Adolescent Problem Drinking, NIAAA; $401,512; 9/28/98-8/31/99

Engaging Resistant Adolescent Substance Abusers in Treatment, NIDA; $277,559; 1/20/99-12/31/99

Drug Use & HIV Risk: Treatment of Hispanic and Anglo Youth, NIDA; $487,647; 7/1/00-6/30/05
APPENDIX B, Part 2 (continued)

Michael Wilcox - Principal Investigator

Analog Implementation of High Resolution Retinal Information Processing, Office of Naval Research; $140,000 - 4/16/98-7/14/99
## Appendix C

### Department of Psychology Course Offerings

**AY 1999-2000**

### Summer 1999

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**Total** | **3,422** | **10,349**

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**Total** | **3,374** | **11,396** |
### APPENDIX D

#### PART-TIME FACULTY HIRED DURING AY 1999-2000

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## MASTER'S DEGREES AWARDED AY 1999-2000

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<td>Andrea Sherwood</td>
<td><em>Neurocognitive and Symptom Correlates of Social Functioning in Schizophrenia</em></td>
<td>Ron Yeo, Ph.D.</td>
</tr>
<tr>
<td>Christopher Woodruff</td>
<td><em>Effects of Object on the Distribution of Attention</em></td>
<td>Rob Egly, Ph.D.</td>
</tr>
</tbody>
</table>
APPENDIX G

GRADUATE STUDENTS RATED EXEMPLARY IN RESEARCH PRODUCTIVITY
AY 1999-2000

Behavioral Neuroscience
Carrie Cole
Jennifer Jones
Sandra Moses
Laura Rowland
Lisa Thomson
Ying Wu

Cognitive Neuroscience
Joel Bish
Derek Hamilton
Tim Martin

Cognitive/Learning
Amanda Price
David Trumpower
Chad Woodruff

DPS
Chris Edgar
David Haley

Clinical
Nicole Gendler
Patty Juarez
Marianne Lanoue
Melissa Meade
Erica Miller
Rick Perkins
Dan Squires
Scott Walters
Paula Wilbourne
### APPENDIX H

**GRADUATE STUDENTS ACCEPTED FOR AY 1999-2000**

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADVISOR</th>
<th>AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jordan Bell</td>
<td>John Gluck, Ph.D.</td>
<td>Clinical</td>
</tr>
<tr>
<td>New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ana Bisono</td>
<td>Holly Waldron, Ph.D.</td>
<td>Clinical</td>
</tr>
<tr>
<td>New York</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ira Driscoll</td>
<td>Rob Sutherland, Ph.D.</td>
<td>Behavioral Neuroscience</td>
</tr>
<tr>
<td>New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courtney Dornburg</td>
<td>Mark McDaniel, Ph.D.</td>
<td>Cognitive</td>
</tr>
<tr>
<td>New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brandi Fink</td>
<td>Michael Dougher, Ph.D.</td>
<td>Clinical</td>
</tr>
<tr>
<td>Washington</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christine Garver</td>
<td>Steve Gangestad, Ph.D.</td>
<td>DPS/Evolutionary</td>
</tr>
<tr>
<td>Texas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jennifer Hettema</td>
<td>Bill Miller, Ph.D.</td>
<td>Clinical</td>
</tr>
<tr>
<td>New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lisa Hetter</td>
<td>Sarah Erickson, Ph.D.</td>
<td>Clinical</td>
</tr>
<tr>
<td>New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stacy Hendrickson</td>
<td>Tim Goldsmith, Ph.D.</td>
<td>Cognitive</td>
</tr>
<tr>
<td>New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Margaret Hoskinson</td>
<td>Dennis Feeney, Ph.D.</td>
<td>Behavioral Neuroscience</td>
</tr>
<tr>
<td>Texas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eric Jackson</td>
<td>Rob Sutherland, Ph.D.</td>
<td>Behavioral Neuroscience</td>
</tr>
<tr>
<td>North Carolina</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jaime Milford</td>
<td>Jane Smith, Ph.D.</td>
<td>Clinical</td>
</tr>
<tr>
<td>Georgia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melody Pearson-Bish</td>
<td>Holly Waldron, Ph.D. and Bill Miller, Ph.D.</td>
<td>Clinical</td>
</tr>
<tr>
<td>New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glenn Scheyd</td>
<td>Steve Gangestad, Ph.D.</td>
<td>DPS/Evolutionary</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Texas</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AMERICAN PSYCHOLOGICAL ASSOCIATION
COMMITTEE ON ACCREDITATION

2000 Annual Report for Doctoral Program

Date Submitted _______________

College/University/School University of New Mexico

Department or Division Psychology

Name of Regional Accrediting Body North Central

Current Regional Accreditation Status Accredited

Director of Training/Program Director John P. Gluck

Telephone 505-277-3420 E-mail jgluck@unm.edu

Fax 505-277-1394

Signature of Director of Training/Program Director

Name of Person Completing this Form John P. Gluck

Q1 Program specialty (circle most appropriate response):

1. Clinical
2. Counseling
3. School
4. Combined (specify): ________________
5. Other (specify): ________________

Q2 Indicate the orientation of your current working and/or training environment (choose only one).

X. Research-oriented Ph.D. program (the majority of program graduates engaged in more research activities than practice activities in their initial jobs).

Equal-emphasis Ph.D. program (the majority of program graduates engaged in equal proportions of research and practice activities in their initial jobs).

Practice-oriented Ph.D. program (the majority of program graduates engaged in more practice activities than research activities in their initial jobs).

Practice-oriented Psy.D. program (the majority of program graduates engages in more practice activities than research activities in their initial jobs).
Q3 Indicate type(s) (e.g., Ph.D., Psy.D., Ed.D.) and number of degrees granted by your program in the 1998-99 academic year (September 1-August 31):

<table>
<thead>
<tr>
<th>TYPE OF DEGREE</th>
<th>NUMBER OF DEGREES AWARDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ph.D.</td>
<td>1</td>
</tr>
<tr>
<td>2. Psy.D.</td>
<td>0</td>
</tr>
<tr>
<td>3. Ed.D.</td>
<td>0</td>
</tr>
</tbody>
</table>

Q4 What was the average number of years to complete the program for students who graduated in 1998-99?

6

Q5 For the 1999-2000 academic year:

1. Number who applied to program

111

2. Number who were offered admission

3

3. Number offered admission who enrolled in program

3

Q6 Total number of students enrolled in the program for 1999-2000:

57
Q7 To date in 1999-2000, how many of your students:

1. applied for internships for 2000-01
   
2. were placed in an internship for 2000-01
   
   (2a) Of those placed, how many were placed with an accredited program?
   
   (2b) Of those placed, how many were placed with a non-accredited program?
   
   (2c) How many received full-time funded internships?
   
   (2d) How many received full-time unfunded internships?
   
   (2e) How many received part-time funded internships?
   
   (2f) How many received part-time unfunded internships?

3. have not been accepted by an internship for 2000-01

PLEASE PROVIDE INFORMATION AS DESCRIBED IN TABLES 1-7:

| Table 1 | Student Demographic Information |
| Table 2 | Student Professional Activities |
| Table 3 | Faculty Demographic Information |
| Table 4 | Faculty Professional Activities |
| Table 5 | Students Admitted to the Doctoral Program |
| Table 6 | Students Who Dropped Out of the Program |
| Table 7 | Students Graduated from the Program |
Please identify the number of students enrolled in the program during 1999-2000 (including those on internship) by academic year of entry, who are:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>African American/Black</td>
<td>M</td>
<td>F 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caucasian</td>
<td>M 1</td>
<td>F 1+</td>
<td>2</td>
<td>2</td>
<td>7</td>
<td>4</td>
<td>6</td>
<td>26</td>
</tr>
<tr>
<td>Hispanic/Latino</td>
<td>M</td>
<td>F</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>M</td>
<td>F 1</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>American Indian/Alaska Native</td>
<td>M</td>
<td>F</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-ethnic* (individuals identifying with more than 1 of the above categories)</td>
<td>M</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Number Currently Enrolled for Each Year of Entry</td>
<td>M 1 2 3 7 5 5 8</td>
<td>F 2 2 4 4 6 5 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total Number Subject to Americans with Disabilities Act | M 0 0 0 0 1 0 0 | F 0 0 0 0 0 0 0 | |
| Foreign Nationals (individuals who are not U.S. Citizens or who are not Resident Aliens) | M 0 0 0 0 0 0 0 | F 0 0 0 0 0 0 0 | |

1 Academic Year (September 1—August 31).
2 For those individuals who are categorized as multi-ethnic, be sure to only include them in this category and not in other ethnicity categories.
Please identify the number of students enrolled in the program during 1999-2000 (including those on internship) by academic year of entry, who are:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Members of professional/research societies (including student affiliates)</td>
<td>1²</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>Authors/co-authors of papers or workshops at professional meetings²</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>20</td>
</tr>
<tr>
<td>Authors/co-authors of articles in professional and/or scientific journals²</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>17</td>
</tr>
<tr>
<td>Involved in grant-supported research (e.g. RA's)</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>11</td>
</tr>
<tr>
<td>Involved in teaching (on ongoing basis; e.g. TA's)</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Involved part-time in delivery of professional services on or off campus (including externship &amp; practicum placements, excluding internship)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

¹ Academic Year (September 1—August 31).
² Work published (or in press)/presented during 1999-2000 academic year only. Books may be included.

Please complete the entire table. Zero values should be coded with a "0". Use a dash or "n/a" to indicate missing or non-relevant data.
### Table 3
Faculty Demographic Information

Please complete the entire table. Zero values should be coded with a "0". Use a dash or "n/a" to indicate missing or non-relevant data.

For the 1999-2000 academic year, please identify the number of faculty who are:

<table>
<thead>
<tr>
<th></th>
<th>Core Program Faculty&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Other Program Faculty&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Other Contributors&lt;sup&gt;3&lt;/sup&gt;</th>
<th>Row Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>African American/Black</strong></td>
<td>0 0 0</td>
<td>0 0 0</td>
<td>0 0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Caucasian</strong></td>
<td>4 0 4</td>
<td>0 1 2</td>
<td>8 7</td>
<td></td>
</tr>
<tr>
<td><strong>Hispanic/Latino</strong></td>
<td>2 1 1</td>
<td>0 0 0</td>
<td>4 7</td>
<td></td>
</tr>
<tr>
<td><strong>Asian/Pacific Islander</strong></td>
<td>0 0 0</td>
<td>0 0 0</td>
<td>0 0</td>
<td></td>
</tr>
<tr>
<td><strong>American Indian/Alaska Native</strong></td>
<td>0 0 0</td>
<td>0 0 0</td>
<td>0 0</td>
<td></td>
</tr>
<tr>
<td><strong>Multi-ethnic&lt;sup&gt;4&lt;/sup&gt;</strong> (individuals identifying with more than 1 of the above categories)</td>
<td>0 0 0</td>
<td>0 0 0</td>
<td>0 0</td>
<td></td>
</tr>
<tr>
<td><strong>Total Number of Faculty</strong></td>
<td>6 1 6</td>
<td>0 1 0</td>
<td>13 15</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Total Number Subject to Americans with Disabilities Act</strong></th>
<th>M 0 0 0</th>
<th>F 0 0 0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foreign Nationals</strong> (individuals who are not U.S. Citizens or who are not Resident Aliens)</td>
<td>M 0 0 0</td>
<td>F 1 0 0</td>
</tr>
</tbody>
</table>

<sup>1</sup>Faculty who are committed for approximately 50% or more of their time to the program.

<sup>2</sup>Faculty other than those identified as the program’s “core” faculty, but who have responsibilities within the program for teaching, advising, etc. This would include other faculty within the department and university that teach program courses.

<sup>3</sup>Individuals that have a role in the program but to a more limited extent. This would include people who present seminars, provide practicum supervision, and teach as adjunct faculty.

<sup>4</sup>For those individuals who are categorized as multi-ethnic, be sure to only include them in this category and not in other ethnicity categories.
Table 4
Faculty Professional Activities

Please complete the entire table. Zero values should be coded with a "0". Use a dash or "n/a" to indicate missing or non-relevant data.

For the 1999-2000 academic year, please identify the number of faculty who are:

| Members of Professional/Research Societies | Core Program Faculty | Other Program Faculty | Other Contributors
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10 (100%)</td>
<td>2 (100%)</td>
<td>5 (83%)</td>
<td></td>
</tr>
<tr>
<td>Authors/co-authors of papers at professional meetings⁴</td>
<td>10 (100%)</td>
<td>2 (100%)</td>
<td>2 (30%)</td>
</tr>
<tr>
<td>Authors/co-authors of articles in professional and/or scientific journals⁴</td>
<td>9 (90%)</td>
<td>1 (50%)</td>
<td>2 (30%)</td>
</tr>
<tr>
<td>Recipients of grants or contracts</td>
<td>2 (20%)</td>
<td>1 (50%)</td>
<td>0</td>
</tr>
<tr>
<td>Involved in undergraduate teaching</td>
<td>8 (80%)</td>
<td>2 (100%)</td>
<td>2 (30%)</td>
</tr>
<tr>
<td>Involved in masters teaching</td>
<td>10 (100%)</td>
<td>1 (50%)</td>
<td>2 (30%)</td>
</tr>
<tr>
<td>Involved in doctoral teaching</td>
<td>10 (100%)</td>
<td>1 (50%)</td>
<td>2 (30%)</td>
</tr>
<tr>
<td>Involved in research supervision</td>
<td>10 (100%)</td>
<td>1 (50%)</td>
<td>6 (100%)</td>
</tr>
<tr>
<td>Involved in professional service supervision (including practicum)</td>
<td>10 (100%)</td>
<td>2 (100%)</td>
<td>6 (100%)</td>
</tr>
<tr>
<td>Engaged in delivery of professional services</td>
<td>3 (30%)</td>
<td>0</td>
<td>6 (100%)</td>
</tr>
</tbody>
</table>

¹Faculty who are committed for approximately 50% or more of their time to the program.
²Faculty other than those identified as the program's "core" faculty, but who have responsibilities within the program for teaching, advising, etc. This would include other faculty within the department and university that teach program courses.
³Individuals that have a role in the program but to a more limited extent. This would include people who present seminars, provide practicum supervision, and teach as adjunct faculty.
⁴Work published (in press)/presented during 1999-2000 academic year only (September 1—August 31). Books may be included.
Table 5
Students Admitted to the Doctoral Program

Please provide the following information for ALL students admitted to the program for academic year 1999-2000. DO NOT PROVIDE STUDENT NAME; instead, please number students by year of admission (i.e., 99.001, 99.002, 99.003, etc.).

<table>
<thead>
<tr>
<th>Identification Number</th>
<th>Undergraduate Institution</th>
<th>Year of Undergraduate Degree</th>
<th>Undergraduate GPA (4 pt. Scale)</th>
<th>Other Admissions Data</th>
<th>Graduate Semester-Hour Equivalent Credits Transferred (if applicable)</th>
<th>Part- or Full-time Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>99-006</td>
<td>UNM</td>
<td>1999</td>
<td>3.62</td>
<td>710</td>
<td>560</td>
<td>570</td>
</tr>
<tr>
<td>99-008</td>
<td>Emory University</td>
<td>1998</td>
<td>3.301</td>
<td>570</td>
<td>650</td>
<td>580</td>
</tr>
<tr>
<td>99-010</td>
<td>UNM</td>
<td>1995</td>
<td>3.68</td>
<td>630</td>
<td>760</td>
<td>660</td>
</tr>
</tbody>
</table>
Table 6
Students Who Dropped Out of the Program

Please provide the following information for ALL students who dropped out of the program during academic year 1998-99. DO NOT PROVIDE STUDENT NAME; instead, please number students by year of admission (i.e., 89.001, 92.001, 92.002, etc.).

<table>
<thead>
<tr>
<th>Identification Number</th>
<th>Date Left Program</th>
<th>Reason for Leaving</th>
</tr>
</thead>
<tbody>
<tr>
<td>98.001</td>
<td>6/2000</td>
<td>Family move</td>
</tr>
</tbody>
</table>
Students Graduated from the Program

Please provide the following information for ALL students who graduated from the program during the 1998-99 academic year. If you do not have information on a particular graduate, please place “unknown” in the appropriate space. DO NOT PROVIDE STUDENT NAME; instead, please number students by year of entry (i.e., 89.001, 89.002, 89.003, etc.). If employment is in a postdoctoral residency, leave “employment setting” blank and indicate corresponding code under “postdoctoral setting.” Please use the codes provided in the appendix following this table for internship setting (column 1), postdoctoral/employment setting (column 2), and postdoctoral/employment activity (column 3). Feel free to duplicate this page to list all students who graduated from the program.

<table>
<thead>
<tr>
<th>Identification Number</th>
<th>Internship Setting Code</th>
<th>Postdoctoral Setting Code(s)</th>
<th>Postdoctoral Title/Activity Code(s)</th>
<th>Employment Setting Code</th>
<th>Employment Title/Activity Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>94.001</td>
<td>3</td>
<td>3</td>
<td>2, 3, 4, 5, 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*If applicable, please provide multiple codes.*
### Appendix

**Codes for Internship Setting, Employment Setting, and Activity**

<table>
<thead>
<tr>
<th>Column 1—Internship Setting Codes</th>
<th>Column 2—Employment/Postdoctoral Setting Codes</th>
<th>Column 3—Activity Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Community Mental Health Center</td>
<td>1. Community Mental Health Center</td>
<td>1. Administration</td>
</tr>
<tr>
<td>3. Medical Center</td>
<td>3. Medical Center</td>
<td>3. Consultation</td>
</tr>
<tr>
<td>4. Military Medical Center</td>
<td>4. Military Medical Center</td>
<td>4. Psychotherapy</td>
</tr>
<tr>
<td>5. Private General Hospital</td>
<td>5. Private General Hospital</td>
<td>5. Research</td>
</tr>
<tr>
<td>7. Veterans Affairs Medical Center</td>
<td>7. Veterans Affairs Medical Center</td>
<td>7. Teaching</td>
</tr>
<tr>
<td>8. Private Psychiatric Hospital</td>
<td>8. Private Psychiatric Hospital</td>
<td>33. Other (e.g., community-based intervention)—please specify</td>
</tr>
<tr>
<td>9. State/County Hospital</td>
<td>9. State/County Hospital</td>
<td></td>
</tr>
<tr>
<td>12. University Counseling Center</td>
<td>12. University Counseling Center</td>
<td></td>
</tr>
<tr>
<td>13. Medical School</td>
<td>13. Academic Teaching Position</td>
<td></td>
</tr>
<tr>
<td>14. Consortium</td>
<td>13a. doctoral program</td>
<td></td>
</tr>
<tr>
<td>13b. masters program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13c. 4-year college</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13d. community/2 yr. College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13e. adjunct professor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. Independent Practice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15. Academic Non-Teaching Position</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. Medical School</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33. Other (e.g., consulting)—please specify</td>
<td></td>
<td></td>
</tr>
<tr>
<td>44. Student</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99. Not Currently Employed</td>
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<td></td>
</tr>
</tbody>
</table>
AMRHEIN, PAUL C.

Cognitive psychology: psycholinguistics; picture-word processing; aging, cognition and motor control. Current language research concerns the representation and function of pragmatic, semantic and syntactic information in discourse. Ongoing picture-word processing research concerns the development of 'hybrid' models that account for cognitive processes involved in episodic and semantic memory-production tasks (i.e., drawing, writing, speaking) in monolinguals and bilinguals. Current aging research concerns age- and dementia-based changes in cognitive processes that pertain to the preparation and execution of movements, and picture-word processing.

CIESIELSKI, KRISTINA T.

Associate Professor. Ph.D. Polish Science Academy (Nencki Institute of Experimental Biology), 1978.
Cognitive and clinical neuropsychology; brain event-related potentials; MRI and brain morphometry; development of normal and disordered human brain. Experimental approach is based on information-processing models and neuropsychological models of cognition, and integrates neurobehavioral, electrophysiological, neuroimaging and modeling techniques. A major goal is to describe the normal and pathological development of the frontal-cerebellar subsystem in humans with a particular focus on changes in mechanisms of selective inhibition.

COFER, LYNETTE FRIEDRICH

Professor. Ph.D. Cornell University, 1965.
Developmental psychology, human circadian rhythmicity as a mediator of personality development and cognitive performance, social development and gender differences, mediation of television effects, analyses of theoretical and empirical approaches to applied developmental research and family public policy. Current research includes analyses of Swedish longitudinal data base and new data collection in Sweden on individual differences in circadian rhythmicity and personality development and school performance.
DELANEY, HAROLD D.
Professor and Associate Chair for Undergraduate Education. Ph.D. University of North Carolina, 1975.
Methodology, quantitative. Current research is in statistical methods, particularly those that are useful in investigations involving individual difference variables. Issues in experimental design and philosophy of science are also of interest. Interests in substantive areas include the psychology of religion, and individual differences in values and in cognition.

DOUGHER, MICHAEL J.
Professor and Department Chair. Ph.D. University of Illinois at Chicago, 1980. Experimental and clinical behavior analysis. Primary research focuses on the experimental analysis of complex human behavior including stimulus equivalence and rule-governed behavior. Other interests include contextualistic methods of psychotherapy and psychotherapy research, and integrative psychotherapies.

EGLY, ROBERT
Assistant Professor. Ph.D. Arizona State University, 1990. Cognitive neuroscience. My research focus is on understanding the cognitive processes and neural systems of visual attention and perception. A major component of my research program is the use of neurological patients (e.g., stroke, tumor, trauma) to identify the brain structures that control attending and perceiving in normal cognition, and to examine how various neuropathologies affect attending and perceiving.

ERICKSON, SARAH
Assistant Professor. Ph.D. Stanford University, 1994. Clinical child psychology. Primary research interests are located within pediatric psychology and focus on children’s adaptation to chronic illness; development and evaluation of clinical interventions for children and adolescents with families; adolescent coping; adolescent coping as it pertains to health outcomes; and eating disorder development and prevention interventions. Other interests include AIDS caregiving and bereavement; validity issues related to self-report methods; development and evaluation of adolescent substance abuse interventions; and childhood obesity prevention and intervention.
FEENEY, DENNIS M.
Professor (and Professor of Physiology). Ph.D. University of California, Los Angeles, 1968.
Behavioral neuroscience, brain injury, recovery of function and epilepsy. In my laboratory we are conducting interdisciplinary studies of experimental brain injury in animals using a variety of methods, including electrophysiology, liquid chromatography, pharmacology, histological and behavioral measurements. Our goal is to understand and enhance behavioral recovery after brain damage in humans, and determine what commonly prescribed drugs may slow behavioral recovery.

GANGESTAD, STEVEN W.
Evolutionary psychology; social/personality psychology. General interests concern the ways in which humans' current psychological design is a product of evolutionary selection. Current research generally concerns this issue in regard to phenomena that occur within close relationships such as sexual relationships, friendships, and familial relationships. Other research concerns the developmental expressions of adaptations. Additional interests include individual differences, behavior genetics, psychometric theory, and philosophy of science.

GOLDSMITH, TIMOTHY E.
Assistant Professor and Associate Chair for Graduate Education. Ph.D. New Mexico State University, 1984.
Applied cognitive psychology, human factors, and statistics. My present research is focused on developing and validating methods for assessing and representing knowledge and skill. Under a grant from the FAA, I am currently attempting to improve the training and assessment of commercial airline pilots. Other research interests of mine include: psychological scaling, similarity, computer modeling, and human decision making.

GLUCK, JOHN P.
Clinical psychology, general experimental psychology. Interests include value changes during psychotherapy and the effects of early experience on development. In addition, I am very interested in the general area of bioethics, particularly professional clinical conduct and the ethics of human and animal research.
HANDMAKER, NANCY
Visiting Assistant Professor. Ph.D. University of New Mexico, 1993.
Clinical psychology: specializing in addictions treatment, dual disorders, brief interventions as consultation/liaison in primary health care settings, alcohol and drug treatment in primary health care, cognitive-behavioral therapy. Research interests include treatment approaches for mentally ill substance abusers, brief interventions in primary health care, the efficacy of preventive interventions in prenatal health care of alcohol-related neurodevelopmental disorders, the impact of prenatal alcohol exposure on the developing brain and associated functional deficits.

HARRIS, RICHARD
Professor. Ph.D. Stanford University, 1968.
Experimental social psychology, game theory, equity theory. Primarily interested in relatively formal (mathematical and computer simulation) models of social psychological phenomena, with emphasis so far on post-decision dissonance reduction, experimental games, and equity theory. A secondary interest is in the development of multivariate statistical techniques.

HODGE, GORDON K.
Presidential Teaching Fellow, Associate Professor, and Associate Chair for Undergraduate Education. Ph.D. University of California, Los Angeles, 1977.
Psychopharmacology, behavioral neuroscience, and teaching technologies. Current research is directed toward developing multimedia technologies for teaching in general and for the teaching of psychology in particular. This includes development and authoring of CD-ROM disks for use by both faculty in the classroom and students studying independently, as well as publishing on the World Wide Web.

MC DANIEL, MARK A.
Cognitive. Major research interests center on how encoding and retrieval processes influence learning and memory. Current projects are focused on 1) text processing and memory; 2) recall processes; 3) investigating prospective memory processes in younger and older adults and neuropsychological underpinnings; 4) understanding how people learn functional relations between stimulus and response variables; and 5) investigating causal concept learning in multivariate environments.

MILLER, WILLIAM R.
Regents Professor (and Professor of Psychiatry) and UNM Center on Alcoholism, Substance Abuse, and Addictions. Ph.D. University of Oregon, 1976.
Treatment, prevention, and assessment of addictive behaviors; program evaluation research; cognitive-behavior therapies; motivation and self-regulation; psychology and spirituality.
PADILLA, ELIGIO R.
Associate Professor (and Associate Professor of Psychiatry). Ph.D. University of Washington, 1974.
Clinical, cross-cultural and community. Current work focuses on higher educational policy and practice and the validity of traditional instruments for the assessment of intelligence among minority populations.

ROLL, SAMUEL
Professor (and Professor of Psychiatry). Ph.D., ABPP, ABFP. Pennsylvania State University, 1968.
Clinical psychology, developmental psychology, forensic psychology. Using a psychoanalytic framework as a base, I am exploring cultural influences on the development of personality and cognition. This involves work in the area of dreams, early memories, cognitive assessment, personality assessment and psychotherapy. My research involves Anglo, Chicano, American Indian and South American subjects.

SMITH, JANE E.
Associate Professor. Ph.D. State University of New York at Binghamton, 1985.
Clinical psychology. Research interests: psychophysiological assessment, assessment and treatment of eating disorders (bulimia, obesity and anorexia), alcoholic homeless individuals, dual diagnosis (substance abuse and chronic mental illness) and implosive (flooding) therapy.

STANSBURY, KATHY
Assistant Professor. Ph.D. University of California, Los Angeles, 1990.
Developmental psychology and behavioral neuroscience; emotional and neurohormonal development. My work focuses on developmental competencies, and individual differences in social, emotional, and neurohormonal domains in preschool age children. More specifically, how do children learn to regulate their emotional states and what impact does this process have on later developing skills? In creating and testing a model of these developmental processes, I have made use of several different paradigms, such as children’s entry into new peer and social situations, and commonly occurring frustration situations, and studied a variety of systems that may be contributing to this development, including caregiver relationships, temperamental differences, psychophysiological factors (primarily hypothalamic-pituitary-adrenocortical hormones), behavioral-risk contexts, and differences in linguistic skills. I am also interested in prenatal influences on brain development and later behavior, depression and neurohormones in mothers and children, and developmental psychoneuroimmunology, as well as in basic theoretical questions in the area of emotion in humans.
SUTHERLAND, ROBERT J.
Professor of Psychology and Neuroscience. Ph.D. Dalhousie University, 1980. Cognitive and behavioral neuroscience, neuropsychology, learning and memory. Primarily interested in exploring the anatomical and functional organization of memory and related cognitive processes. The research includes combinations of behavioral analyses, electrophysiological recording, neurotoxins, and neuropharmacological techniques. Other goals are to understand in detail the function of the hippocampal formation, the nature of amnesic symptoms in Alzheimer's disease, Korsakoff's syndrome, epilepsy, cerebral trauma, and other disorders. We also explore factors related to cognitive recovery after brain damage.

TANG, AKAYSHA C.
Assistant Professor. Ph.D. Harvard University, 1995. Cognitive neuroscience, behavioral neuroscience, computational neuroscience. My research focuses on the role of neuromodulation in cognitive functions, specifically, learning and memory, and neural coding. A combination of behavioral, electrophysiological, and computational methods is used to study the effect of neuromodulators/neurotransmitters, such as Ach and GABA, at the cellular, network, and behavioral levels. Examples of specific research questions on learning and memory include: how are learning and memory affected in rats treated with the GABAb agonist baclofen (behavioral study)? How are synaptic transmission and neuronal excitability affected by the same treatment (brain slice electrophysiology)? How can the cellular effects be related to the effects on learning and memory (computational models)?

VILLANUEVA, MIGUEL
Visiting Research Assistant Professor. Ph.D. Pacific Graduate School of Psychology, 1997. Captain, U.S. Army Medical Service Corps. Clinical Psychology: Traumatic stress reactions and program development in minority and rural communities. Ongoing research activities include both civilian and military-related tracks. Currently developing a theoretical understanding of PTSD in Native American veterans and the impact of traumatic stress related disorders (PTSD, substance use) on Native families, as well as developing clinical interventions which integrate traditional medicine with western, manualized treatment protocols. Research on military related issues include domestic violence, combat stress reaction, and officer and enlisted personnel retention issues.
WALDRON, HOLLY B.
Clinical psychology. Research interests focus on family interaction theories of psychopathology, family therapy process and outcome, and developing and evaluating effective assessment and treatment strategies for adolescent substance abuse and related behavior problems. Current research projects include evaluating cognitive-behavioral and family-based interventions for disturbed adolescents and examining family communication behaviors and cross-cultural variations in families of disturbed and nondisturbed adolescents.

YEO, RONALD A.
Professor and Director of Clinical Training. Ph.D. University of Texas, Austin, 1983.
Clinical and experimental neuropsychology. Research interests include individual differences in brain organization, neuroimaging, cerebral lateralization, genetic and environmental factors influencing brain development, and the neuropsychological bases of neurodevelopmental disorders.
# APPENDIX K

## PERSONS HOLDING PROFESSIONAL TITLES IN PSYCHOLOGY

1999 - 2000

<table>
<thead>
<tr>
<th>Name and Address</th>
<th>Phone</th>
<th>Professional Title</th>
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</thead>
<tbody>
<tr>
<td>Janet Brody, Ph.D.</td>
<td>842-8932</td>
<td>Research Assistant Professor</td>
</tr>
<tr>
<td>Center for Adolescent and Family Research</td>
<td></td>
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</tr>
<tr>
<td>2350 Alamo SE, Bldg. 2</td>
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<tr>
<td>Albuquerque, NM 87106</td>
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</tbody>
</table>

| Phillip W. Day, D.V. M.               | 277-3936 | Assistant Professor (PT)                    |
| Director, Animal Resource Facility   |          |                                             |
| University of New Mexico              |          |                                             |
| School of Medicine                    |          |                                             |
| Basic Medical Science Building, G32   |          |                                             |
| Albuquerque, NM 87131                 |          |                                             |

| Charles H. Elliott                    | 843-2190 | Clinical Associate                          |
| 403 Dartmouth SE                      |          |                                             |
| Albuquerque, NM 87106                 |          |                                             |

| William E. Foote, Ph.D.               | 255-9494 | Clinical Assistant Professor                |
| 4308 Carlisle NE, Suite 208          |          |                                             |
| Albuquerque, NM 87107-4849           |          |                                             |

| Nancy Handmaker, Ph.D.                | 277-8947 | Visiting Assistant Professor                |
| Department of Psychology              |          |                                             |
| University of New Mexico              |          |                                             |
| Albuquerque, NM 87131                 |          |                                             |

| Mary Harris, Ph.D.                    | 277-2925 | Professor (Secondary appointment)           |
| Education Foundations                 |          |                                             |
| University of New Mexico              |          |                                             |
| Albuquerque, NM 87131                 |          |                                             |

| Reid Hester, Ph.D.                    | 884-3002 | Clinical Associate                          |
| 4300 San Mateo NE                     |          |                                             |
| Albuquerque, NM 87110                 |          |                                             |

| Frances Koenig, Ph.D.                 | 242-0439 | Clinical Associate                          |
| 121 Wellesley SE                      |          |                                             |
| Albuquerque, NM 87106                 |          |                                             |
# APPENDIX K (continued)

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<thead>
<tr>
<th>Name and Address</th>
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<th>Professional Title</th>
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<tbody>
<tr>
<td>P. W. Kodituwakku, Ph.D.</td>
<td>768-0144</td>
<td>Research Assistant Faculty</td>
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<td>CASAA</td>
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<tr>
<td>Marcia Landau, Ph.D.</td>
<td>266-8488</td>
<td>Clinical Associate</td>
</tr>
<tr>
<td>300 San Mateo Blvd. NE, Suite 805</td>
<td></td>
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<tr>
<td>Albuquerque, NM 87108</td>
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<tr>
<td>Milton Lasoski, Ph.D.</td>
<td>266-3070</td>
<td>Clinical Associate</td>
</tr>
<tr>
<td>1817 Morningside Drive NE</td>
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<td>Albuquerque, NM 87110</td>
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<tr>
<td>George Luger, Ph.D.</td>
<td>277-3204</td>
<td>Professor</td>
</tr>
<tr>
<td>Department of Computer Science</td>
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<td>(Secondary appointment)</td>
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<tr>
<td>University of New Mexico</td>
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<td>Albuquerque, NM 87111</td>
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<tr>
<td>Charlene McIver, Ph.D.</td>
<td>265-8800</td>
<td>Clinical Associate</td>
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<tr>
<td>4600-A Montgomery NE, 102</td>
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<td>Albuquerque, NM 87109</td>
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<tr>
<td>Robert Meyers</td>
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<td>Research Associate</td>
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<tr>
<td>John Moulton, Ph.D.</td>
<td>255-0274</td>
<td>Research Associate</td>
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<tr>
<td>924 Girard NE</td>
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<td>Professor</td>
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<td>Albuquerque, NM 87106</td>
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<tr>
<td>Theresa Moyers, Ph.D.</td>
<td>768-0268</td>
<td>Visiting Assistant Professor</td>
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<tr>
<td>Department of Psychology</td>
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<tr>
<td>University of New Mexico</td>
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<td>Albuquerque, NM 87131</td>
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<tr>
<td>John Owen, Ph.D.</td>
<td>260-7553</td>
<td>Clinical Associate</td>
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<tr>
<td>4001 Indian School Road NE</td>
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<td>Albuquerque, NM 87110</td>
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<td>Name and Address</td>
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<tr>
<td>Natasha Slesnick, Ph.D.</td>
<td>768-0146</td>
<td>Research Assistant Professor</td>
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<tr>
<td>Center on Alcohol and Substance Abuse</td>
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<tr>
<td>Edward W. Snyder, Ph.D.</td>
<td>265-1711 ext. 2270</td>
<td>Clinical Associate</td>
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<tr>
<td>Psychology Service</td>
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<tr>
<td>Veterans Administration Medical Center</td>
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<tr>
<td>2100 Ridgecrest Drive SE</td>
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<td>Albuquerque, NM 87108</td>
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<tr>
<td>Scott Tonigan, Ph.D.</td>
<td>768-0266</td>
<td>Research Assistant Professor</td>
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<tr>
<td>Miguel Villanueva, Ph.D.</td>
<td>277-4927</td>
<td>Visiting Assistant Professor</td>
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<td>Department of Psychology</td>
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<tr>
<td>Albert V. Vogel, M.D.</td>
<td>277-4763</td>
<td>Associate Professor</td>
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<td>(Secondary appointment)</td>
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<tr>
<td>Department of Psychiatry</td>
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<td>University of New Mexico</td>
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<tr>
<td>School of Medicine</td>
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<tr>
<td>2400 Tucker NE</td>
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<tr>
<td>Albuquerque, NM 87131</td>
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<tr>
<td>Carolina Yahne, Ph.D.</td>
<td>768-0158</td>
<td>Research Assistant Professor</td>
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APPENDIX L

DEPARTMENT OF PSYCHOLOGY COLLOQUIA AY 1999-2000

Colloquium Presented By

Richard Harris, Ph.D.
Professor of Psychology
University of New Mexico
Albuquerque, New Mexico

Steve Gangestad, Ph.D.
Professor of Psychology
University of New Mexico
Albuquerque, New Mexico

Mark McDaniel, Ph.D.
Professor of Psychology
University of New Mexico
Albuquerque, New Mexico

Amanda Price
Jackie Griego
Department of Psychology
University of New Mexico
Albuquerque, New Mexico

Michael Thomas, M.S.
Department of Psychology
University of New Mexico
Albuquerque, New Mexico

George Lugar, Ph.D.
Professor of Computer Science
University of New Mexico
Albuquerque, New Mexico

Plyadasa Kodituwakku, Ph.D.
Professor of Psychiatry
Center for Alcohol and Substance Abuse Addictions
Albuquerque, New Mexico

Colloquium Title

“Graduate-student research involvement: A 98-99 retrospective”
September 10, 1999

“Fluctuating asymmetry and mating attractiveness in a rural Dominican village”
September 17, 1999

“Holding intentions before execution: When age matters”
September 24, 1999

“ Implicit Learning: Two Perspectives”
October 1, 1999

“Prenatal alcohol exposure and adult hippocampal function”
October 8, 1999

“Interdisciplinary research in Cognitive Science at UNM” and “Artificial Intelligence: Diagnostic skills of human experts”
October 22, 1999

“Is there a unique cognitive profile associated with Fetal Alcohol Syndrome?”
October 29, 1999
Appendix L (continued)

Kathy Stansbury, Ph.D.
Assistant Professor of Psychology
University of New Mexico
Albuquerque, New Mexico

"How stress and hormones could help you find your mom"
November 5, 1999

Tony Biglan, Ph.D.
Professor of Psychology
Oregon Research Institute
Portland, Oregon

"Preventing youth behavioral problems"
November 11, 1999

Ron Yeo, Ph.D.
Professor of Psychology
Bill Horan
Department of Psychology
University of New Mexico
Albuquerque, New Mexico

"Neurodevelopmental perspectives on individual differences in intelligence"
"Diagnostic differences in the temporal stability of social anhedonia: A longitudinal study of Schizophrenia and Major Depressive Disorder"
November 12, 1999

Akaysha C. Tang, Ph.D.
Assistant Professor of Psychology
University of New Mexico
Albuquerque, New Mexico

"Enhancing cognitive development through early life experience (How to make rats smart?)"
November 19, 1999

Mark McDaniel, Ph.D.
Professor of Psychology
University of New Mexico
Albuquerque, New Mexico

"While you were partying, I was figuring out the word frequency effect"
December 3, 1999

Scott Makeig, Ph.D.
Computational Neurobiology Laboratory
Salk Institute
Department of Neurosciences
University of California
San Diego, California

"Blind source separation and functional electromagnetic brain imaging"
December 13, 1999

C. Stephen Evans, Ph.D.
Professor of Philosophy
Dean of Research and Scholarship
Calvin College
Grand Rapids, Michigan

"Faith commitments and scientific psychology"
January 28, 2000
Appendix L (continued)

J. Bruce Overmier, Ph.D.
Professor of Psychology
University of Minnesota
Minneapolis, Minnesota

Melissa Guynn, M.A.
Department of Psychology
University of New Mexico
Albuquerque, New Mexico

Rob Sutherland, Ph.D.
Professor of Psychology
University of New Mexico
Albuquerque, New Mexico

Michael A. Zarate, Ph.D.
Professor of Psychology
University of Texas at El Paso
El Paso, Texas

Joan Bybee, Ph.D.
Professor and Chair of Linguistics
University of New Mexico
Albuquerque, New Mexico

Claudia Tesche, Ph.D.
Department of Psychology
Helsinki University of Technology
Helsinki, Finland

Brett Clementz, Ph.D.
Department of Psychology
University of California at San Diego
San Diego, California

David Pogge, Ph.D.
Department of Psychology
Albert Einstein College of Medicine
Four Winds Hospital
Bronx, New York

*The Thirteenth Annual Quad-L Lecture*
"Expectations: From the animal laboratory to the clinic"
January 28, 2000

"Association and other theoretical underpinnings of prospective memory"
February 4, 2000

"A medley of hippocampus, learning, and memory"
February 11, 2000

"A neurological approach to person perception"
February 18, 2000

"Generative vs. functional theories in linguistics: The great past tense debate and other Linguistic wars"
March 3, 2000

"Using MEG to study cognition in normal human subjects"
March 9, 2000

"EEG and MEG studies of auditory evoked response suppression in schizophrenia"
March 23, 2000

"An actuarial analysis of Rorschach variables in adolescent psychiatric patients"
March 24, 2000
Appendix L (continued)

Janice Hoesing, Ph.D.
Department of Psychology
University of New Mexico
Albuquerque, New Mexico

"Does the mind have a sex?"
"The example of spatial navigation"
March 31, 2000

Kristina T. Ciesielski, Ph.D.
Associate Professor of Psychology
University of New Mexico
Albuquerque, New Mexico

"Inhibitory brain subsystems in children"
April 7, 2000

Derek Hamilton
Department of Psychology
University of New Mexico
Albuquerque, New Mexico

"Spatial learning and memory systems in human and non-human animals"
April 13, 2000

Jane E. Smith, Ph.D.
Associate Professor of Psychology
University of New Mexico
Albuquerque, New Mexico

"Body image treatment for compulsive and non-compulsive exercisers"
April 14, 2000

Jackie Griego
Department of Psychology
University of New Mexico
Albuquerque, New Mexico

"Hardcore inductive/deductive theoretical cognitive psychology"
April 21, 2000

Steven Maier, Ph.D.
Department of Psychology
University of Colorado
Boulder, Colorado

"Immune system regulation of the brain: Implications for understanding sickness, stress, and depressed mood"
April 28, 2000

Tracy Simpson, Ph.D.
Department of Psychology
University of Washington
Seattle, Washington

*Benjamin Haught Memorial Lecture*
"Functional roles of alcohol use among women: Some not so surprising surprises"
April 28, 2000

Scott Walters, M. A.
Department of Psychology
University of New Mexico
Albuquerque, New Mexico

*Sigma Xi Research Lecture*
"Alcohol on campus: What (if anything) have we learned about prevention?"
May 4, 2000
Appendix L (continued)

John Cronly-Dillon, Ph.D.
Professor of Visual Neurobiology
University Manchester, UMIST
Manchester, England

"Hearing visual images: A study in cross-modality transfer"
May 5, 2000

Susan Brownmiller, Ph.D.
Journalist and author
New York City, NY

"The women's revolution and the campaign against rape"
May 7, 2000

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<thead>
<tr>
<th>COLLOQUIA COSPONSORED BY CASAA AY 1999-2000</th>
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<tr>
<td><strong>Colloquium Presented By</strong></td>
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<tr>
<td>Richard M. Ryan, Ph.D.</td>
</tr>
<tr>
<td>Professor of Psychology and Psychiatry</td>
</tr>
<tr>
<td>University of Rochester</td>
</tr>
<tr>
<td>Rochester, New York</td>
</tr>
<tr>
<td>Angelica K. Thevos, Ph.D., MSW</td>
</tr>
<tr>
<td>Department of Psychiatry and Behavioral Sciences</td>
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<tr>
<td>Medical University of South Carolina</td>
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<td>Charleston, South Carolina</td>
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<tr>
<td>Alison Snow Jones, Ph.D.</td>
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<td>Center for Injury Research and Policy</td>
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<td>Johns Hopkins School of Public Health</td>
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<td>Baltimore, Maryland</td>
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<td>Linda C. Sobell, Ph.D.</td>
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<td>Center for Psychology Studies</td>
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<td>Nova Southeastern University</td>
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<td>Fort Lauderdale, Florida</td>
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<tr>
<td>Kathleen M. Carroll, Ph.D.</td>
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<td>Substance Abuse Treatment Unit</td>
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<td>Yale University School of Medicine</td>
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<td>New Haven, Connecticut</td>
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<td><strong>Colloquium Title</strong></td>
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<tr>
<td>&quot;The role of autonomy in motivation and behavior change: A self-determination theory perspective&quot;</td>
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<tr>
<td>August 30, 1999</td>
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<td>&quot;Using motivational interviewing to encourage safe water behaviors in developing countries&quot;</td>
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<td>October 11, 1999</td>
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<td>&quot;Is outcome affected by treatment duration? Evidence from the treatment of batterers&quot;</td>
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<tr>
<td>February 7, 2000</td>
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<tr>
<td>&quot;The evolution of studies of natural recovery from substance abuse&quot;</td>
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<tr>
<td>February 28, 2000</td>
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<tr>
<td>&quot;Psychotherapy and Pharmacotherapy for cocaine dependence: Do our treatments do what we think they do?&quot;</td>
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<tr>
<td>April 17, 2000</td>
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</table>
Appendix L (continued)

Andrew Christensen, Ph.D.
Department of Psychology
University of California at Los Angeles
Los Angeles, California

"Gender, power, and marital conflict"
May 1, 2000
The Department of Psychology Clinic continues to be a valuable and challenging part of the Psychology Department's educational environment. On the one hand, it is a fully functioning outpatient mental health clinic, providing quality therapeutic and assessment services to the Albuquerque community. At the same time, it is a training facility where graduate students in clinical psychology receive practical experience in this area. The challenge is to keep both missions functioning at a high level of excellence; neither training nor services can be seen as secondary if the Clinic is to fulfill its function.

The nature of the challenge may be seen in the fact that the combined services provided at the Clinic would provide a reasonable workload for two or three full-time clinicians. Here, however, those services are provided by 28 student-clinicians at various stages of training and performing different functions. All of them must follow ethical and professional standards of practice of psychology. The reason this is possible is the academic preparation and clinical supervision provided by the Department's faculty, especially the clinical faculty. Each student-clinician, carrying a caseload of two or more cases, receives at least one hour of face-to-face supervision per week individually or in small groups. Because of bright and responsible graduate students, competent educational preparation, and dedicated faculty the Clinic is a place where its twofold mission can be carried out without contradiction.

SERVICES

Individual adult therapy remains the primary service of the Clinic, with a patient/client population that is varied in terms of age, ethnicity, employment status, education and presenting problems. Generally the severity of referral issues is from mild to moderate. There is a frequent misperception that we serve primarily a University population; in fact, our referrals come from other agencies and practitioners, the Court, and self-referrals providing a cross-section of the community. Because of a sliding fee scale ($10 to $60 per hour), we do have a selection factor toward low-income individuals, but even this is not universal. The Clinic has had increased involvement in family, child and couples therapy over the years along with our individual work.

The closing of outpatient therapy services by the New Mexico Hospital Mental Health Center in 1990 produced an apparently permanent waiting list of referrals, changing our intake procedures and, to some extent, affecting our services. This presents a challenge to our existing commitment to long-term therapy as a valuable service and training modality. Student-clinicians are encouraged to provide time-limited therapy after developing experience in an open-ended timeframe in preparation for their future work on internship and thereafter.
At the same time, we continue to see the value of long-term treatment where this is appropriate, both in terms of proper treatment and for excellence of training. Clinical faculty provide supervision options in behavioral, cognitive-behavioral, existential, psychodynamic, family systems, and humanistic approaches with neuroscience, cross-cultural and developmental influences. The tension among therapy models, rationales and methods to which students are exposed reflects an educational value of the department. Experiencing and reflecting on these diverse aspects of therapy and assessment will, we believe, prepare students for the difficult challenges now facing the profession of clinical psychology whether in academic or treatment settings. Quite properly, for our research-based discipline, issues of empirical support and measurement of outcomes are of ongoing concern at the Clinic.

This year ends the second full year of operation of our ADHD assessment program. As ADHD has been classified as a disability under the Americans with Disabilities Act and with more concern about this diagnosis, schools, businesses and individuals are turning to psychologists for better assessment. Clinic personnel Melissa Behrens-Blake, M.S., Angela Caswell-Kilman, and Dan Matthews, Ph.D. have collaborated with Sigifredo Saenz, M.S.W. of the UNM Counseling Assistance and Referral Service to develop and carry out a program which draws from previous experience at UNM with an adult population and on current research and theory. Our assessment team this year has also included Michael Villanueva, Ph.D., a visiting professor, and Stephen Poland, Ph.D. whose achievement as a school psychologist has been recognized by the American Board of Professional Psychology. This project is now funding one graduate assistantship at the Clinic, and we hope that it may provide paid work for others as it develops.

Dr. John Gluck has completed his assignment as Associate Chair for Clinical Training (Director of Clinical Training) as the fall semester begins. Dr. Gluck initiated twice monthly Clinic Rounds as a way for students to share their cases, questions and clinical issues and also to introduce psychologists from the community to present case material and enhance student education. These have been well received by student-clinicians, and will continue as part of the Clinic’s program. Dr. Gluck’s efforts and interests in (among other things) the areas of general clinical training, support for students including during the internship application process and in particular his influence in the areas of clinical and research ethics have greatly benefited the students and the program. We welcome and look forward to Dr. Ron Yeo’s influence and efforts in the role of DCT. In particular, as neuroscience informs and enriches our understanding of all aspects of behavior, we anticipate a continued and increasing integration of this knowledge and understanding to clinical applications.

PERSONNEL

The staff of the Clinic includes Dan Matthews, Director (since fall 1988); Wanda Sharts, Office Manager (who moved from the Department in June 1991); Angela Caswell-Kilman, Graduate Assistant for the ADHD program; Melissa Behrens-Blake, our educational diagnostician; and Gloria Lucero, office staff on work-study.
Gloria Lucero joined our staff this year. She is studying sociology and criminology and hopes to go to graduate school in counseling. Her interests fit with some of her experiences at the Clinic and her presence on our staff has been mutually beneficial. She is a reliable and conscientious worker with a good ability to deal with our clients and Clinic business.

Angela Caswell-Killman is beginning her second year in our graduate assistant position on the ADHD assessment team. She performed the work at a high level of excellence and added her interest and knowledge in development and neuroscience to enrich our evaluations. We have ended up testing more children than we had expected, and Ms. Caswell-Killman's background and interest in children have suited her well for this work. She is notably a person to whom you should not ask a question if you don't want an answer--when issues arise in our team meetings she is likely to have abstracts and articles on our desks the next day or the following meeting. We enjoy learning with her and from her.

The 1997 addition to our staff of Melissa Behrens-Blake has proved mutually beneficial. Ms. Blake is an educational diagnostitian specializing in the assessment of adult learning disabilities and the educational portion of ADD/ADHD evaluations. She What began as an administrative arrangement to share space has become a valued working relationship with compatible aims. Ms. Behrens-Blake has knowledge and skills that complement and enhance the services and training we have traditionally provided. She has a strong interest in the neurological bases of the conditions she assesses and has provided consultation for our students and with our clients. The community's need for an ADHD assessment program (see above) was brought to our attention by Ms. Blake, and she has been one of three prime movers in its development.

Wanda Sharts reorganization of the Clinic continues to provide a steady foundation for our work here. She has provided not only an increase in the efficient operation of the Clinic, but also a calm and quieting presence that facilitates all our efforts in a sometimes stressful work environment. Her duties are numerous and varied, and she carries out each with productively and graciously.

I (Dan Matthews) am close to completing my twelfth year as Clinic Director. I remain active in New Mexico Psychological Association, serving this year as legislative co-chair and working with the Task Force on the Professional Psychologist Act and the Diversity and Social Responsibilities Council. Those roles have kept me involved with the changing status of psychology under movement to managed health care and with legislative and regulatory issues affecting our profession. My knowledge of the academic and practice environments our students will be moving into is enhance by this involvement and I am able to influence the practice environment in New Mexico. I continue to enjoy the Case Formulation practicum for first year students, Pre-Clinical Practicum for second year students, and group as well as individual supervision of student-clinicians. I also taught the Practicum in Psychological Assessment for the second time, which was a challenge and enriching experience. My own clinical work is entirely through the Clinic, where I provide therapy, assessment and consultation services. I am working closely with the ADHD team and refreshing my knowledge of theory, research and assessment in that area.
This is the time each year that we experience the loss of our "senior staff" - those who graduate or go on internship. This year, a large group have terminated or transferred their Clinic work and left for internship: Rex Jung, Bill Horan, Erica Miller, Rich Ogle, Lorraine Torres, Kamilla Venner, Denise Walker, Vern Westphal. Their work in the Clinic, their support for other students and the regular contacts in conversation and supervision are already sorely missed. UNM students continue to do very well in obtaining their chosen sites for internship placements in spite of a dwindling availability of such placements.

Finally, the quality of our services depends critically on the efforts of our clinical faculty and adjunct faculty who supervise therapy and assessment cases and support the knowledge, professional development and personal growth of the student therapists. These individuals deserve special thanks (they are listed elsewhere in this report, and need not be individually named here).

PHYSICAL SETTING

Located at 1716 Las Lomas NE in a converted residence, the present building has offices for our three full-time staff, five therapy rooms, a waiting area and a student work space. Three therapy rooms are equipped for videotaping and live supervision is possible through remote video. A large converted garage is available for future use as classroom/research/group-therapy space, and has received some use for research and training. Clinic funds allowed the purchase of new furniture throughout the building and the remodeling of the building for our use, though minimal, made it into livable and workable space. Like our previous location, the homelike setting presents an inviting and comfortable environment for our clients and our work.

The building is also a work-in-progress. It lacks the observation room of our previous building and videotape equipment is currently awkwardly placed within two of the rooms rather than in remote locations. One therapy room is quite small (necessitated by the remodeling of the building) and would be improved with a borrowed light window and translucent glass door. We have only recently been given a firm commitment by the University that we will stay in this location, and remodeling is depending on need and finances.
RESEARCH

Almost continuously over the past seven years, students and faculty are using the Clinic facilities for their research. This year, Rich Ogle ran about 80 research participants for his dissertation at the Clinic, primarily because of his need for place where research participants can be comfortable for sometimes extended periods of time. Colleen Colbert, a doctoral student in education and David Weer of our department are working on a learning disabilities study with the data collected by Melissa Behrens-Blake in her educational diagnostic work. We anticipate similar data collection and summary for our own purposes and possible publication to begin for the ADHD project this coming year. We welcome two undergraduate students from Dr. Jane Smith's Clinical Research class to these projects and look forward to their assistance and involvement in the Clinic research efforts.

AGORA

As this is written, arrangements are being finalized for Agora, a student-run crisis service, to move into our infrequently used converted garage. They will be administratively under the Clinic, but have their own program and administrative structure. We look forward to interacting with the staff and volunteers of Agora, sharing space with them, and finding ways in which we may support and enhance their efforts.

SUMMARY

The Department of Psychology Clinic continues to be a pleasant and supportive environment for providing psychological services to the Albuquerque community. Each year, some of our services remain the same and we take on new projects while completing others. The Clinic is a congenial setting to develop the experience and skill of being a therapist and psychological evaluator. Through the efforts of faculty, student-clinicians, supervisors and staff, an atmosphere is maintained that is supportive of this sometimes stressful work. It is a good place to work, learn and grow--for student-clinicians, faculty and staff.

Prepared by

Dan Matthews, Ph.D. Clinic Director
and his assistant
Wanda Sharts
APPENDIX N

SUPPORT STAFF
DEPARTMENT OF PSYCHOLOGY
AY 1999 - 2000

ADMINISTRATIVE SUPPORT STAFF

Department Administrator: Candace Blashak
Assists the Department Chair; administers all personnel and budgetary decisions necessary to execute University policies and procedures set by the Department Chair and faculty; oversees all budgetary activities in the Department; hiring and supervision of all staff; assists in hiring students, and technical personnel; coordinates with various University administrators on a variety of complex matters, including faculty contracts, student financial aid, staff compensation, and other matters; drafts policies, procedures, correspondence for the Chair; takes minutes at faculty meetings. Office management, preparation of a variety of administrative and instructional documents, faculty recruitment, tenure and promotion files, coordination of the department convocation activities, departmental receptions, and other special events. Bookholder and Paymaster.

Supervisor, Administrative Support: Stan Bennett
Maintains records of fiscal and budgetary controls, ledgers, and other transactions for the Department. Processes routine financial documents and accounting transactions. Reconciles accounting records and analyzes routing accounting data. Serves as department bookholder. Assists in the development and coordinates the maintenance of area budgets. Processes part-time and full-time faculty contracts, GA and TA contracts. Building key coordinator. Responsible for the monthly tagging of department inventory and maintains inventory control.
Academic Advisor: Beth Isbell
Serves as department's graduate admissions coordinator; primary liaison with public and prospective graduate and undergraduate students; responsible for administering student degree checks, counsels and advises graduate and undergraduate students in Psychology program regarding policies, requirements, academic standing, and related matters; maintains all graduate student files and records; coordinates comprehensive examinations and thesis and dissertation defenses; interfaces with Graduate Studies Office in policy areas; coordinates with Scheduling Office, Continuing Education Office, regarding department class schedules; assists top administration with hiring part-time faculty; is official liaison between department and visiting faculty; coordinates with Graduate Studies Office, College of Arts and Sciences, Curriculum Change Committee, and Office of Scheduling regarding revisions for University catalogs; prepares reports for outside agencies such as the American Psychological Association as requested. Performs other duties as requested by the department chair or department administrator.

Editorial Tech: Nancy Chavez
Edits and word processes complex manuscripts and grant proposals; provides word processing for department faculty; prepares department annual report; writes and edits department quarterly newsletter; prepares information for “Faculty Publications and Creative Works”; serves as department representative for the United Way drive; is a bookholder with back-up duties for department administrator, academic advisor, and administrative assistant and is a paymaster.

Administrative Assistant: Louis Carrillo
Represents the department as first point of public contact; directs telephone calls and foot traffic as appropriate; has responsibility for maintaining supplies inventory, security of classroom equipment inventory, and maintenance of office copier; backup for Academic Advisor, back-up for Editorial Assistant for typing of syllabi, exams and correspondence; maintains department classroom schedule, and supervises two student employees, first contact for building keys.

RESEARCH SUPPORT STAFF

Research Engineer: Patrick Sharp
Supports faculty, staff and graduate students with computer needs; responsible for electronic design, fabrication, troubleshooting, installation, computer upgrades, consulting, repair, and preventive maintenance for a vast assortment of electronic equipment; fabricates wood and metal products using a variety of equipment; responsible for annual department equipment inventory; advises Chair and department faculty regarding purchase, installation and maintenance of electronic equipment.
Appendix N (continued)

Supervisor Animal Husbandry: Ector Estrada
Supervises the daily operations of the Psychology Department's animal colony, including animal husbandry and environmental control; functional supervisory responsibility for the other Animal Technician IV and two student employees; works with department's veterinarian in treatment of laboratory animals and in monitoring compliance with the Animal Welfare Act; works under general supervision of Department Chair, Veterinarian, and Chair of Animal Care and Use Committee.

Senior Laboratory Animal Technician: Gilbert Borunda
Under limited supervision, maintains and breeds laboratory animals and functions as a section leader of student assistants; primarily responsible for daily care and preparation for surgery of laboratory animals; assists department veterinarian in all animal treatment; back-up for senior Laboratory Animal Technician IV.

Animal Research Coordinator: DeLaine King
Coordinates and supports all operational facets of a laboratory animal research facility, ensuring optimum usage of facilities and equipment, in compliance with all federal and state regulations pertaining to the conduct of animal research. Carries out specified research/experimental protocol and procedures as appropriate, and trains, guides, and oversees the activities of students engaged in animal research.

Veterinarian: Linda Contos, DVM
Provides preventive, acute and on-call medical treatment to a variety of departmental laboratory animals; provides professional management of animal research facility and monitors compliance with the Animal Welfare Act; provides relevant instruction to faculty, graduate and undergraduate students concerning care and treatment of laboratory animals; reports to Department Chair and Chair of Animal Use and Care Committee.

PSYCHOLOGY CLINIC SUPPORT STAFF

Clinic Director: Daniel Matthews, Ph.D.
Has overall administrative and fiscal responsibility for the Clinic and executes Clinic policies as set by the Department faculty; reports to the Department Chair through the Associate Chair for Clinical Training. Duties include triage of referrals to the Clinic, supervision of doctoral students, report writing, community relations and some direct clinical services, including assessment.
Appendix N (continued)

Administrative Assistant: Wanda Sharts
Works under general supervision and in support of Psychology Clinic Director, Psychology Department Chair, and Department Administrator. Assists in the formulation of Clinic policies and procedures; performs a wide variety of duties in the areas of budget, personnel, payroll, and related matters, and performs administrative work at the paraprofessional level; supervises student employee.

Certified Educational Diagnostician: Melissa Behrens-Blake
Participates in research projects conducted through the Department of Psychology as related to general disorders of neurological processing (including but not limited to dyslexia, learning disabilities, traumatic brain injury, schizophrenia and stroke/aphasia). Responsibilities include conducting extensive educational diagnostic evaluations as directly related to the specific requirements of the research project. Also serves as certified educational diagnostician in the department’s Psychology Clinic with diagnostic evaluations to be integrated into the client's overall treatment program.
I am pleased to submit this report covering the fourth and final year of my second term as department chair. The 1999/00 academic year witnessed several important developments with respect to our faculty and students.

A. Significant Achievements

Among the achievements and accomplishments of the Sociology Department in 1999/00, there are several of which we are especially proud.

The Sociology Convocation was held in the Student Union Ballroom on Saturday, May 13th at 3:30 p.m. A total of 67 undergraduates received Bachelor of Arts degrees from the Department of Sociology with the following substantive breakdown: 30 Sociology majors; 37 Criminology majors. An estimated 850 persons were in attendance including family and friends. This year, the Department heard presentations from three Sociology graduating seniors, Robert Borbely, Brendan McDonald, and Tiffany Nelson. Jodi Chapman was awarded the McGee award for an essay by a Sociology student. The Department also awarded honors to two Sociology Honors students; Jodi Chapman (summa cum laude) and H. Jill Davis (cum laude). In addition, the Department recognized the accomplishments of graduating seniors with grade point averages above 3.50: Tamara Bertell, Robert Borbely, Jodi Chapman, Bridget Conlon, Emily Finnan, Heidi Greco, Laurie Lister, Sara Mongomery, Tiffany Nelson, Victor Rivera, and Karen Thalhammer. Emily Finnan was featured on the UNM homepage for June 26, 2000 as being selected to serve in Americorps in San Diego. She was a Clauve Outstanding Senior and served as an Alumni Trailblazer. Master of Arts degrees were awarded to Deanna Archuletta-Loeser, Jerry Daday, Sylvanna Falcón, Gwen Hunnicutt, Denise Hunter-Gilbert, Juanita Spitler, Lora Stone, and Gloria Vaquera. A Ph.D. degree was awarded to Andrea Hoplight Tapia.

Dr. Felipe Gonzales was featured in the Winter 1999 edition of UNM's "Inside Arts & Sciences" newsletter. The article on Dr. Gonzales discussed his participation in special initiative designed to promote the professional development middle and high school teachers in New Mexico titled "Albuquerque Teachers' Institute." He led a seminar on the "Political Culture of New Mexico." In order to prepare for the seminar, Dr. Gonzales attended two national conferences at Yale University.

Research professor and former faculty member Gary LaFree was featured in the October 27, 1999 UNM News Minute #9, named one of six U.S. criminologists invited to address governors from Italian cities on rising crime rates in Italy.
Professor Beverly Burris co-presented a colloquium with Dean Michael Fischer titled, “The Privatization of the Public University and the Decline of the Professoriat” on April 19th, 2000 as part of the Cultural Studies Colloquia Series.

Dr. Phil May was profiled in the UNM Campus News on August 2, 1999. The article discussed Dr. May’s nine-year tenure as Director of the Center for Alcoholism Substance Abuse and Addictions (CASAA).

Professor George Huaco was profiled in the UNM Campus News on April 24, 2000. The article discussed Dr. Huaco’s views on inheritance laws, family size limits, and his new book titled, “Marx and Sociobiology.”

The Department of Sociology held its annual faculty retreat on September 24, 1999. The retreat focused on planning for the next three to five years.

B. List of Faculty Publications, Research, Committee Participation

Dodd H. Bogart

Committee Participation

Member, Undergraduate Committee

Research and Creative Work


Lisa Broidy

Publications

Beverly H. Burris

Publications


Richard M. Coughlin

Publications


Research and Creative Work

Work in progress: Revision of paper on attitudes toward the welfare state in Sweden in the 1990s

In press: Revised and expanded article on “Convergence Theories,” in Encyclopedia of Sociology.

Committee Participation

Chair, Executive Committee
Member, Recruitment Committee

Robert A. Fiala

Research and Creative Work


Submitted (with Susan Tiano) “Maquila Employment and Fertility in Mexicali Mexico: A Study of Productive and Reproductive Relations.” Currently under revision.

Reanalyzed expanded data set using cross-national data on employment and higher education. Preliminary results presented at professional meeting.

Committee Participation

Chair, Curriculum Committee

Felipe Gonzales

Publications


Research and Creative Work


C. Showcase of regional culture at the 2000 Smithsonian Folk Life Festival in Washington D.C. The showcase was fund by a $110,000 grant from the New Mexico State Legislature.

D. Article accepted for publication. “La Junta de Indignación: Hispano Repertoire of Collective Protest in New Mexico, 1884-1933.” The Western Historical Quarterly.

E. Book proposal submitted. Collected Essays on Hispanic Identity and Politics in New Mexico, to the University of New Mexico Press.


Committee Participation

Member, Executive Committee
Chair, Recruitment Committee

Jane C. Hood

Publications


Research and Creative Work


In press: articles on “case study analysis” and “cult of domesticity” for Encyclopedia of Feminist Thought edited by Lorraine Code to be published by Routledge.

Work in progress: Final revision of Perspectives on Gender (an anthology for Wadsworth); two articles and a monograph on sampling for ethnographic studies, one article on the history of the male provider role.

Committee Participation

Chair, Undergraduate Committee
George Huaco

Publications


Committee Participation

Member, Curriculum Committee
Member, Graduate Committee
Coordinator, Reading Room/Library

Miguel E. Korzeniewicz

Research and Creative Work

Preparation of a written manuscript and multimedia materials on Nike Corporation.

Raymond V. Liedka


Research and Creative Work

Guggenheim Foundation. $27,197 “Cross-National Study of Prisons and Crime Control.”

Committee Participation

Member, Undergraduate Committee
Chair, Research and Computer Use Committee

Phillip A. May

Publications

Research and Creative Work

Lectures, Presentations, and Conferences

July 7th - "Fetal Alcohol Syndrome" presentations, Pine Ridge, South Dakota.

August 9th  NIMH Review, Washington, D.C.
August 18th - 20th  "Epidemiology of Drinking among Plains Indians," the Flathead Reservation, Montana.

September 8th - 10th  Healthy Nations, Tulsa, Oklahoma.

October 5th - 6th  "Epidemiology of Drinking among Plains Indians," Cheyenne River Sioux Reservation, South Dakota.


November 10th - 13th  With Phyllis Trujillo, planned and hosted the Annual National Colloquium for the NIMH Career Opportunities in Research Program in Albuquerque at the Sheraton, Old Town. Programs, faculty and students from universities around the country attended (over 200 participants).


December 17th  Site Visit for FAS research, Howard University, Washington, D.C.
December 20th  Navajo IRB Conference, Albuquerque, NM.

January 7th  U.S. Department of Justice Meeting, Consultant to Janet Reno, Attorney General of the U.S. on: American Indian Alcohol use and Abuse, Washington, D.C.

January 11 - 20th  FASER Staff Training, Albuquerque, NM

February 3rd  UNM Department of Family & Community Medicine - MEP Training
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<th>Date</th>
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<tr>
<td>February 22nd - 24th</td>
<td>American Indian Suicide Prevention Network Workshop - Albuquerque, NM</td>
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<td>March 1st</td>
<td>Medical School FAS lecture, 1st year medical students, UNM</td>
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<td>March 6th</td>
<td>NIMH Meeting, COR Planning Committee, Washington, D.C.</td>
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<td>March 6th - 7th</td>
<td>NIAAA, FAS-DC Planning Meeting, Washington, D.C.</td>
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<td>March 16th - 17th</td>
<td>Healthy Nations, Denver, CO.</td>
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<tr>
<td>March 20th - 24th</td>
<td>FASER Developmental Clinic, Sisseton, SD.</td>
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<td>April 11th - 13th</td>
<td>Visit to Flathead Reservation to oversee research project.</td>
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<td>April 25th - 28th</td>
<td>Department of Justice, Tribal Initiative Training for Drug Courts, San Diego, CA. Two presentations with J.P. Gossage, Ph.D., “Alcohol Use and Abuse among Plains Indians” and “FAS among American Indians.”</td>
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<td>May 18th - 19th</td>
<td>Suicide Network Conference, Presenter “History of Suicide Research among American Indians,” Minneapolis, MN.</td>
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<td>June 7th - 8th</td>
<td>Navajo Nation Regional Behavioral Health Summit, Presenter</td>
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<td>June 19th - 22nd</td>
<td>College on Problems of Drug Dependence (CPDD), Presenter, San Juan, Puerto Rico. Two presentations, “Maternal Risk Factors Associated with the Prevalence of Alcohol in the Western Cape of South Africa” and “Alcohol Use and Abuse and Traditionality among Plains Indians.”</td>
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<td>June 26th - 28th</td>
<td>Research Society on Alcoholism (RSA), oral presentation “The Epidemiology of FAS and Maternal Risk Factors in the Western Cape Province of South Africa.” Denver, CO.</td>
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**Posters**

An Epidemiological Analysis of a Second Wave of Data from Children with Fetal Alcohol Syndrome and Controls in the Western Cape, South Africa. P. May; J. Gossage; L. Brooke; J. Croxford; D. Viljoen.

The Maternal Risk Factors from a Second Wave of Data from Mothers of Children with Fetal Alcohol Syndrome in the Western Cape, South Africa. P. May; J. Gossage; L. Brooke; J. Croxford; D. Viljoen.

Deficient Phonological Working Memory and Grammar Comprehension in Children with Fetal Alcohol Syndrome. C.C. Adnams; P.W. Kodituwakku; A. Hay; A. Kitching; P.A. May; D. Viljoen.

An Association Between Deficient Verbal Processing and Behavioral Problems in Children with Fetal Alcohol Syndrome. A. Hay; C.C. Adnams; P.W. Kodituwakku; L. Hendricks; C. Snell; P.A. May; D. Viljoen.

c) Grants Currently Funded


University of New Mexico, $120,000, “Supplement (from Associate Provost for Research and Arts and Sciences) to the New Mexico Access to Research Careers Program,” July, 1995-June, 2000. FY 1999 = $26,000.


d) Committees/Professional Societies

Member, Minority Scholarship Committee, American Sociological Association, 1996-1999.


Research Associate, American Indian and Alaska Native Mental Health Research Center, University of Colorado, Health Sciences Center.


Gilbert W. Merkx

Publications


Research and Creative Work


Committee Participation

Director, Latin American Institute
Chair, UNM Campus Planning Committee
Member, UNM Committee on Governance
Advisory Committee to the Associate Provost for Research
Provost’s Ad Hoc Committee on Library Issues
Chair, Latin American Institute Grants and Awards Committee
Latin American Institute Policy Committee

John M. Roberts, Jr.

Publications


Committee Participation

Member, Research and Computer Use

Art St. George

Research and Creative Work

Research on high-performance computing and web-based education

Paul Steele

Publications


Committee Participation

Member, Arts & Sciences Starkey Award Committee
Member, Athletic Council
Member, Faculty Senate Curricula Committee
Member, Sociology Department Curriculum Committee
Member, Sociology Department Research and Computer Use Committee
Research and Creative Work

College of Arts and Sciences, Freshman Seminar
National Evaluation of Children's Advocacy Centers
Assessment of Early Family Intervention on Child Abuse, Neglect and Delinquency
Evaluation of therapeutic models for incarcerated juvenile delinquents
Research on the impact of social movements on the institution of work in the United States

Susan B. Tiano

Publications


Research and Creative Work

Completed a two-year project under contract with the City of Albuquerque, resulting in a large data set on the nonprofit sector and a lengthy report titled, “Nonprofit Agencies and Social Support in the Albuquerque Community,” which was submitted to Department of Family and Community Services, in November.

Spent 6 weeks (from September to mid-October) in Ekaterinberg, Russia, collecting data for a study of the strategies women use to cope with the effects of economic crisis.


Bert Useem

Publications


Research and Creative Work

Completed:

In Progress:

Nelson P. Valdés

Publications


Committee Participation

Member, Research and Computer Use Committee
Member, UNM Y2K Committee

Richard L. Wood

Publications


Research and Creative Work

Committee Participation

Chair, Graduate Committee

C. Graduate Program

Awarded Doctoral Dissertations & Master Theses
Sociology Department/Summer '99, Fall '99, Spring '00

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<thead>
<tr>
<th>Author</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PhDs:</strong></td>
<td></td>
</tr>
<tr>
<td>Andrea Hoplight Tapia, Ph.D.</td>
<td>Subcultural Responses to Y2K</td>
</tr>
<tr>
<td><strong>MAs:</strong></td>
<td></td>
</tr>
<tr>
<td>Deanna Archuleta-Loeser, M.A.</td>
<td>Baby Bottles and Baby Boomers: Determinants of Breast Feeding, 1945-1965</td>
</tr>
<tr>
<td>Jerry Daday, M.A.</td>
<td>From Technocracy to Teamwork: A Case Study of Corporate Culture and Organizational Structure at the SYS Corporation</td>
</tr>
<tr>
<td>Sylvanna Falcon, M.A.</td>
<td>Cruzando La Frontera: Human Rights Violations at the U.S.-Mexico Border</td>
</tr>
<tr>
<td>Gwen Hunnicutt, M.A.</td>
<td>A Time Series Analysis of Cross-National Female Conviction Rates: A Test of the Economic Marginality Hypothesis</td>
</tr>
<tr>
<td>Juanita Spitler, M.A.</td>
<td>A Discursive Production of the &quot;Anorexic Woman&quot;</td>
</tr>
<tr>
<td>Lora Stone, M.A.</td>
<td>The Emergence of the Franciscans: A Sociological Analysis</td>
</tr>
<tr>
<td>Gloria Vaquera</td>
<td>Low Graduate Degree Production Among Hispanics: An Issue of Social, Cultural, and/or Human Capital</td>
</tr>
</tbody>
</table>
The graduate program in Sociology continued to make progress with 18 new admissions and 1 readmit for 1999/00. Out of those 18 admitted, 7 students joined the program with 3 being supported during their first semester on GA/TA assistantships. The Sociology Graduate Student Association (SGSA) remained active with Betsy Erbaugh and Andrea Hoplight Tapia serving as co-presidents.

The following graduate students presented papers at the Pacific Sociological Association in San Diego, California in April 2000: Betsy Erbaugh (Women's Community Organizing as Social Movement), Andrea Hoplight Tapia (Subcultural Millennial Responses to the Y2K Problem), Gwen Hunnicutt (A Time Series Analysis of Cross-National Female Conviction Rates: A Test of the Economic Marginality Hypothesis), Li Ting (Anomie and Domestic Violence in China), Karen McCue (Students' Attitudes Towards Restructuring), Wayne Pitts (Adult Community Corrections in New Mexico, 1990-1999: Obstacles to Effective Evaluation), Juanita Spitler (Transgressing the Individual-Society Dichotomy: Post-Structuralism and the Anorexia Nervosa), Gwen Hunnicutt (A Time Series Analysis of Cross-National Female Conviction Rates: A Test of the Economic Marginality Hypothesis), Karen McCue (Students' Attitudes Towards Restructuring), Wayne Pitts (Adult Community Corrections in New Mexico, 1990-1999: Obstacles to Effective Evaluation), Juanita Spitler (Transgressing the Individual-Society Dichotomy: Post-Structuralism and the Anorexia Nervosa), Lora Stone (The Emergence of the Franciscans in the 13th Century: A Sociological Analysis), Gloria Vaquera (Low Graduate Degree Production Among Hispanics: An Issue of Social, Cultural, and/or Human Capital), and Warren Wylupski (Joining the Club: The Social-Fitness of a Non-Competitive, Leisure Bicycle Club). This represents the largest contingent of UNM Sociology students ever to present at professional meetings.

The Sixth Annual Graduate Student Colloquium was held on March 31, 2000 at 9:30 a.m. in the Sociology Commons. The presenters were as follows: Deanna Archuleta-Loeser (Baby Bottles and Baby Boomers: Determinants of Breastfeeding, 1945-1965), Betsy Erbaugh (Women, Community Organizing and Identity Transformation), Sylvanna Falcón (Cruzando La Frontera: Human Rights Violations at the U.S.-Mexico Border), Gwen Hunnicutt (A Time Series Analysis of Cross-National Female Conviction Rates: A Test of the Economic Marginality Hypothesis), Denise Hunter-Gilbert (Intellectual Property: Who Owns It? A Case Study Analysis of IP Agreements and Ideology in a Corporate Setting), Lora Stone (The Emergence of the Franciscans in the 13th Century: A Sociological Analysis).

Rebecca Frerichs received an ASA Student Forum Travel Award. Debra Allnock continued a research position with the Department of Energy's Russian Technopark Project, an international and interdisciplinary project to study the preservation of high-tech and scientific professions in the former USSR. Debra will be moving to England to continue her dissertation study.

The graduate program in Sociology now includes a series of workshops on issues in teaching, sponsored by the Graduate Committee, and a brown bag lunch series of professional issues, sponsored by SGSA.

Lisa Donaldson, a current doctoral student, has been hired as interim dean at San Juan Community College.
The graduate program lost a current and a former graduate student during the past year. Doctoral student Leo Griego passed away April 5, 2000 at the age of 38. He had been serving as dean of humanities at San Juan Community College while finishing his dissertation. Leslie Shaheen, who left the doctoral program 2 years ago, died from injuries received in an automobile accident in February, 2000. She is survived by her daughter, Tiana.

D. Appointments

Dr. Richard Coughlin continued to serve as the Chair of Sociology.

Dr. Felipe Gonzales continued to serve as the Director of the Southwest Hispanic Research Institute.

Dr. Phillip May continued to serve as the Director of the Center for Alcoholism, Substance Abuse and Addictions.

Dr. Gil Merkx continued to serve as the Director of the Latin American Institute.

Dr. Bert Useem served as the Director of the Institute for Social Research (ISR).

Dr. Nelson Valdés continued to serve as the Director of the Latin American Data Base.

E. Leaves of Absence, Sabbaticals, Departures

Dr. Gary LaFree retired from the department in December of 1999. He joined the faculty in the Department of Criminology and Criminal Justice at the University of Maryland.

Dr. Miguel Korzeniewicz and Dr. Susan Tiano took sabbatical leave during the 1999-00 academic year.

F. Colloquia Series

Dr. David Livingstone, Professor of Sociology at the University of Toronto gave a colloquium titled, “Employment and Lifelong Learning in the Knowledge Society: The Growing Challenge of Underemployment” on Friday, November 5 at 2 pm in the Commons Room.
The Institute for Social Research (ISR) is a unit of the Department of Sociology, College of Arts and Sciences. Founded in September 1987, ISR operates entirely on contracts and grants from funding sources outside the University. Grant funds are secured by two sorts of affiliates: faculty members in the Department and Ph.D. researchers with staff-appointments at ISR. Numerous graduate and undergraduate students work at ISR, gaining significant, first-hand experience in conducting research.

The ISR Director and the Executive Committee are responsible for the overall operation of the Institute. Bert Useem, a professor in the Sociology Department, served as ISR Director in 1999/2000. The members of the executive committee were:

Richard Boyle, Ph.D.
Susan Brumbaugh, Ph.D.
Pete DiVasto, Ph.D.
Paul Guerin, Ph.D.
Gary LaFree, Ph.D.
Raymond Liedka, Ph.D.
Shannon Morrison, Ph.D.
Amelia Rouse, Ph.D.
Paul Steele, Ph.D.
Richard Wood, Ph.D.

Currently, ISR has two administrative staff members. Judith Bernhard is responsible for helping prepare grant applications and overseeing the operation of the front office. Carolyn Souther is responsible for preparing monthly budget reports on the approximately thirty-five active ISR accounts. This staffing level represents a reduction compared to the previous year, and has achieved considerable cost savings.

During this past year, Gary LaFree and Peter DiVasto left ISR through formal retirement. Dr. DiVasto was the Institute’s first director; Dr. LaFree was Dr. Useem’s immediate predecessor. In addition, the former Research Coordinator, Robert Wilson, left ISR to pursue other business interests.

On any given day at ISR, there are numerous graduate and undergraduate students working on dozens of funded projects. Graduate students often take on significant project responsibilities, including data collection and analysis. A common occurrence is for an undergraduate student to work in the front office, assisting the overall operation of the Institute. She or he then gets picked up to work on projects. In recent years the ISR has achieved standardized pay scales for all student employees. These scales give automatic raises for academic achievement. ISR is a place where students learn and gain confidence in their abilities.
ISR Researchers and Groups

Some of ISR’s research activities take place in designated centers; others involve PIs conducting individual projects.

Dr. Richard Boyle, Program Evaluation Research Center (PERC)
A Senior Research Scientist II, Dr. Boyle brings a background in Mathematical Sociology to his research on programs designed to help children living in low income or high risk families. Under Boyle’s direction, PERC evaluated three programs directed by Dr. Andrew Hsi of the Pediatrics Department, UNM Health Sciences Center: Starting Early Starting Smart (SESS), Los Pasos, and Grandparents and Relatives Outreach (GRO). These are all four-year programs providing home visiting, case management, and clinical medical services for infants age 0-3. PERC also is conducting a study for the City of Albuquerque (Evaluation of Child Development Programs) that is tracking children who attended preschools in Albuquerque between 1990 and 1996. Finally, PERC evaluated the statewide operation of the Police Athletic League (PAL) programs.

Dr. Susan Brumbaugh
Dr. Brumbaugh, holding a 1995 Ph.D. from the University of California, Riverside, specializes in quantitative methodology and large-scale organizations. Last year, she worked on three projects. First, she was the research director for the Criminal and Juvenile Justice Coordinating Council, which serves as a criminal justice policy resource for the state of New Mexico. Second, Dr. Brumbaugh was the Co-Principal Investigator of a project funded by the National Institute of Justice. Using time series analysis, this project studied the factors affecting New Mexico’s female prison population over a ten-year period. Third, Dr. Brumbaugh did analysis and writing on project on the interface between jails in prisons in New Mexico for ISR’s Statistical Analysis Center.

Dr. Paul Guerin, Center for Applied Research and Analysis
The Center for Applied Research and Analysis (CARA), under the direction of Paul Guerin, currently had 12 major ongoing projects and six smaller ones. The 12 were:

- Arrestee Drug Abuse Monitoring Program (ADAM). This program informs policy makers, law enforcement agencies, treatment providers, and the general public regarding the relationship between drugs and crime. Additionally, the program tracked the changing trends in drug use and criminal activity.

- Drugs and Alcohol and their Connections with Domestic Violence. This research assembled data regarding the link between domestic violence and substance abuse. The foci included: (a) whether acts of family violence committed while the offender is under the influence of illicit psychoactive substances? (b) which substances are most strongly associated with incidents of domestic violence? (c) are battering incidents more severe when drug or alcohol have been used the offender?
• Albuquerque Local Weed and Seed Project. This project conducted an independent assessment of the effectiveness of the Weed and Seed services provided in two Albuquerque neighborhoods.

• Public Housing Drug Elimination Program. This project assessed the effectiveness of the federally funded Public Housing Drug Elimination Program.

• Public Housing Drug Elimination Program Public Housing Resident Survey. This project conducted a survey of public housing residents following guidelines established by the federal Department of Housing and Urban Development.

• Residential Substance Abuse for State Prisoners Program. This National Institute of Justice-funded work examined prison-based therapeutic communities for drug offenders.

• Third Judicial District Court Adult Drug Court Evaluation. This project determined whether the goals of drug courts were being achieved. It also collected information regarding the type of client that can benefit most from the drug court program.

• Metropolitan Criminal Justice Coordinating Council (MCJCC) Research. This project created a flow chart of the criminal justice process in Bernalillo County; profiled inmates held in jail; conducted a feasibility study for an integrated criminal justice information system; and studied mental health issues of jail inmates, leading towards the goal of meeting the requirements of the federal court order.

• Community Corrections Program, Probation and Parole Division Research. The goals of this research were to: (a) continue a risk/needs validation study; (b) complete a unit cost study; (c) monitor a work load system; (d) complete the analysis of a probation and parole office survey; (e) plan a performance based evaluation system; (f) analyze community corrections program client data.

• Second Judicial District Court Juvenile Drug Court Evaluation. This project conducted a process evaluation of the implementation of a drug court program and an outcomes assessment of the clients at discharge from the program.

• Second Judicial District Court Adult Drug Court Outcome Study. This two-year study examined the effectiveness of drug courts in reducing recidivism and illicit drug use, and in increasing measures of social stability, such as employment.

• Third Judicial District Court Juvenile Drug Court Outcome Study. This one-year study examined the effectiveness of drug this drug court along the same lines as immediately above.
Dr. Raymond Liedka
A member of the Sociology faculty, Dr. Liedka received grants from the National Science Foundation, the National Institute of Justice, and the Harry Frank Guggenheim Foundation to study the effects of prison on aggregate crime rates. Working with Dr. Bert Useem and Dr. Anne Piehl (Kennedy School of Government, Harvard University), he is currently writing a book titled “Prison and Crime Control,” which promises to be the most comprehensive study to date of the impact of prison rates on aggregate crime rates.

Dr. Shannon Morrison
Dr. Morrison was the Principal Investigator for the New Mexico Police Athletic League (NMPAL) project, a recreation-oriented juvenile crime prevention program that relies heavily upon athletics and recreational activities to create and cement the bond between the police officers and youth in the community. In addition, Morrison was the Principal Investigator for the evaluation of the “Weed and Seed” site. The purpose of this program funded by the National Institute of Justice is to reduce crime in targeted neighborhoods and create partnerships within them. Dr. Morrison’s evaluations focus on the success of criminal cases arising from program.

Dr. Amelia Rouse
In the past year Dr. Rouse has been involved in three projects. One is the evaluation of the effectiveness of the Project Estrella, a demonstration after-school program that provides disadvantaged students with help in their mathematics and science education. The measured outcomes are retention in school and non-involvement in the juvenile justice system. The evaluation is being supported by grants from the Office Juvenile Justice and Delinquency Prevention, U.S. Department of Justice.

In the Sandoval County Community Oriented Policing Efforts (SCCOPE II) project, Dr. Rouse collected data about public attitudes toward and knowledge of community policing. She (along with two collaborators) reported the study's findings at a series of meetings with the heads of local law enforcement agencies, a press conference, and final report. In a third project, conducted for the state's Workers' Compensation Administration, Dr. Rouse gathered information from participants in their administrative court. After several months observing mediations and court hearings Dr. Rouse conducted focus groups with attorneys, claims adjusters, and pro se litigants.

Dr. Bert Useem
In addition to serving as Director of ISR, Dr. Useem is working with Dr. Liedka on the prison/crime project. He also completed a study, funded by the University’s Research Allocation Committee, that examines prison riots in New Mexico and the New York City Department of Correction.
Dr. Richard Wood, APD/UNM Partnership,

Richard Wood heads the APD-UNM Partnership, a research collaboration funded by the National Institute of Justice. This research partnership conducted ethnographic research on the key organizational dynamics within the changing world of policing. It brought together researchers from ISR, sworn and civilian police professionals from all levels within APD and, through written reports and conference papers, police scholars and leaders in Washington, DC and around the country. The Research Partnership produced a written report on the state of community policing in Albuquerque, presented papers at several national conventions, produced a series of short papers on emerging issues within policing, and hosted an on-going series of focus groups to generate discussion and long-term change within the Albuquerque Police Department.

Drs. Paul Steele and Gary LaFree. The Statistical Analysis Center (SAC),

Located at ISR for the last 12 years, the New Mexico SAC is supported by a grant from the Federal Bureau of Justice Statistics, which funds similar centers throughout the United States. Recent changes in the Bureau of Justice Statistics funding criteria allow the SAC to propose specific research projects with appropriate budgets. This change has had the positive effect of allowing the New Mexico SAC to engage in specific research that is of interest to New Mexico criminal researchers and policy makers. Dr. Gary LaFree served as SAC Director in 1999/2000. It is planned that Dr. Paul Steele will become the next SAC director, pending funding agency approval. At present, the SAC is engaged in a study of driving while under the influence of (non-alcohol) drugs, and an assessment of the implementation of the EQUIP program, a cognitive change model for juvenile offenders.

PROJECT STAFF

With the expansion of the number of projects, ISR has had the opportunity to hire several full-time project staff.

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Project or Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Hyde</td>
<td>MA, UNM</td>
<td>CARA</td>
</tr>
<tr>
<td>Martha Fernandez</td>
<td>BA, UNM</td>
<td>SAC, CJJCC</td>
</tr>
<tr>
<td>Elena Letourneau</td>
<td>BA, World College West</td>
<td>PERC</td>
</tr>
</tbody>
</table>

GRADUATE STUDENTS AT ISR

A central goal of ISR is to enhance the educational experience of UNM graduate students, as well as to help support their studies through paid employment. Students working on ISR projects were:

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree Working Toward</th>
<th>Project PI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brault, Paul</td>
<td>M.M.</td>
<td>Front Office</td>
</tr>
<tr>
<td>Carrier, Laurel</td>
<td>J.D.</td>
<td>Guerin</td>
</tr>
<tr>
<td>Damon, Nell</td>
<td>Ph.D.</td>
<td>Steele/Boyle</td>
</tr>
<tr>
<td>Derkas, Erika</td>
<td>Ph.D.</td>
<td>Guerin</td>
</tr>
</tbody>
</table>
Denman, Kristine Ph.D.
Frerichs, Rebecca Ph.D.
Hunnicutt, Gwen Ph.D.
Littlefield, David M.A.
Long, Tony M.A.
Olson, Colin M.A.
Pitts, Kim Ph.D.
Pitts, Wayne Ph.D.
Rioux, Jennifer Ph.D.
Roberts, Aki Ph.D.
Spitler, Juanita Ph.D.
Vaquera, Gloria Ph.D.
Woerle, Sandra Ph.D.

Guerin/Steele
Guerin
LaFree
LaFree/Steele
Guerin/Boyle
Boyle
Morrison
Guerin
Guerin
LaFree/Useem
Boyle/Guerin
Guerin
Guerin

UNDERGRADUATE STUDENTS AT ISR
ISR is able to provide undergraduates research experience and employment. The following students worked at ISR.

Name                        Project PI
Bennett, Richard           Guerin
Busich, Matt               Boyle/Guerin
Coca, Lawrence             Front Office/LaFree
Conlon, Bridget            Guerin
Cubbage, Jason             Morrison
Englebretson, Elizabeth    Guerin/Boyle
Goertz, Miriya             Guerin
Griego, Valerie            Steele
Gutierrez, Emmanuel        Guerin
Jaurqui, Manny             Boyle
Lightle, Melanie           Guerin
Lucero, Amanda             Front Office
Lucero, Cynthia            Steele
Marquart, Felicitas        Guerin
Ruiz, James                Boyle/Rouse
Smith, Jennifer            Guerin
Smith, Lindsey             Front Office/Guerin
Straw, Melissa             Guerin
Tsosie, Christopher        Guerin
Ulibarri, Billy            Guerin
Walters, Brandon           Guerin
The ISR currently has 30 active contracts and grants, totaling about $2.5 million. The following grants were active in the last fiscal year.

<table>
<thead>
<tr>
<th>PI</th>
<th>Project Title</th>
<th>Funding Agency*</th>
<th>Amount</th>
<th>F&amp;A Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard Wood</td>
<td>Community Policing</td>
<td>NIJ</td>
<td>$177,124</td>
<td>26%</td>
</tr>
<tr>
<td>Gary LaFree and Susan Brumbaugh</td>
<td>Female Prison Population</td>
<td>NIJ</td>
<td>51,548</td>
<td>26%</td>
</tr>
<tr>
<td>Gary LaFree</td>
<td>World Homicide Rates</td>
<td>HFG</td>
<td>34,538</td>
<td>0%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Residential Substance Abuse Treatment</td>
<td>NIJ</td>
<td>100,000</td>
<td>26%</td>
</tr>
<tr>
<td>Gary LaFree</td>
<td>Big City Crime Trends</td>
<td>CM</td>
<td>44,188</td>
<td>47%</td>
</tr>
<tr>
<td>Bert Useem and Raymond Liedka</td>
<td>Prisons &amp; Crime Control</td>
<td>NSF</td>
<td>148,079</td>
<td>47%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Public Housing Drug Elimination Program</td>
<td>COA</td>
<td>42,507</td>
<td>8%</td>
</tr>
<tr>
<td>Shannon Morrison</td>
<td>Weed &amp; Seed Evaluation</td>
<td>JRSA</td>
<td>31,466</td>
<td>24%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Third Judicial Court Drug Court</td>
<td>AOC</td>
<td>12,301</td>
<td>20%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Community Corrections</td>
<td>NMCD</td>
<td>164,165</td>
<td>20%</td>
</tr>
<tr>
<td>Susan Brumbaugh</td>
<td>Criminal &amp; Juvenile Justice</td>
<td>CJJCC</td>
<td>100,000</td>
<td>20%</td>
</tr>
<tr>
<td>Gary LaFree</td>
<td>DWI Offenders</td>
<td>BJS</td>
<td>50,000</td>
<td>26%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Arrestee Drug Abuse Monitoring</td>
<td>Abt Assoc (NIJ)</td>
<td>91,384</td>
<td>47%</td>
</tr>
<tr>
<td>Paul Steele</td>
<td>Evaluation of EQUIP</td>
<td>JRSA</td>
<td>15,000</td>
<td>26%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Evaluation of 3rd Judicial Drug Court</td>
<td>AOC</td>
<td>28,892</td>
<td>20%</td>
</tr>
<tr>
<td>Bert Useem and Ray Liedka</td>
<td>Cross-National Study of Prisons</td>
<td></td>
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<tr>
<td>Amelia Rouse</td>
<td>&amp; Crime Control</td>
<td>HFG</td>
<td>28,187</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>Worker’s Compensation Focus Group</td>
<td>NMDOL</td>
<td>9,975</td>
<td>20%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Local DWI Grant Program</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Statewide Evaluation</td>
<td>NMCYFD</td>
<td>75,000</td>
<td>20%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Weed &amp; Seed</td>
<td>COA</td>
<td>15,000</td>
<td>8%</td>
</tr>
<tr>
<td>Shannon Morrison</td>
<td>Police Athletic League</td>
<td>NIJ</td>
<td>333,333</td>
<td>24%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Domestic Violence</td>
<td></td>
<td>41,428</td>
<td>24%</td>
</tr>
<tr>
<td>Amelia Rouse</td>
<td>Project Estrella (A Demonstration After School Program)</td>
<td>NIJ</td>
<td>250,000</td>
<td>24%</td>
</tr>
<tr>
<td>Name</td>
<td>Project Description</td>
<td>Funding Agency</td>
<td>Amount</td>
<td>Percent</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------------------------------------------------</td>
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</tr>
<tr>
<td>Paul Guerin</td>
<td>Evaluation of 3rd Judicial Adult Drug Court</td>
<td>AOC</td>
<td>37,500</td>
<td>24%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Process Evaluation of 2nd Judicial District Juvenile Court</td>
<td>2nd Judicial District Court</td>
<td>31,571</td>
<td>24%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Evaluation 2nd Judicial District Court Adult Drug Court</td>
<td>AOC</td>
<td>69,632</td>
<td>20%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>8th Judicial District Drug Court Database</td>
<td>AOC</td>
<td>6,596</td>
<td>20%</td>
</tr>
<tr>
<td>Richard Boyle</td>
<td>Evaluation of Child Development Programs</td>
<td>COA</td>
<td>33,643</td>
<td>20%</td>
</tr>
<tr>
<td>Paul Guerin</td>
<td>Evaluation Bernalillo County Metro Drug Court</td>
<td>BC</td>
<td>20,000</td>
<td>20%</td>
</tr>
<tr>
<td>Richard Boyle</td>
<td>Los Pasos</td>
<td>AIA</td>
<td>39,680</td>
<td>24%</td>
</tr>
<tr>
<td>Richard Boyle</td>
<td>Starting Early, Starting Smart</td>
<td>SAMHSA</td>
<td>140,383</td>
<td>24%</td>
</tr>
</tbody>
</table>

* Funding Agency Abbreviations
  AIA, Abandoned Infants Assistance
  AOC, Administrative Office of the Courts, State of New Mexico
  BC, Bernalillo County
  BJS, Bureau of Justice Statistics
  CJJCC, Criminal and Juvenile Justice Coordinating Council, State of New Mexico
  CM, Carnegie Mellon
  COA, City of Albuquerque
  HFG, Harry Frank Guggenheim Foundation
  JRSA, Justice Research Statistics Association
  NIJ, National Institute of Justice, U.S Department of Justice
  NMCD, New Mexico Corrections Department
  NMDOL, New Mexico Department of Labor
  NSF, National Science Foundation
  SAMHSA, Substance Abuse Mental Health Services Administration
# Department of Spanish and Portuguese

Chair: John M. Lipski  
Department Administrator: Rosario Johnson

## Annual Report  
July 1, 1999-June 30, 2000

## I. TEACHING FACULTY AND STAFF

### A. Tenured and Tenure Track Faculty

<table>
<thead>
<tr>
<th>Spanish</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Garland Bills</td>
<td>Professor</td>
</tr>
<tr>
<td>Anthony Cárdenas</td>
<td>Professor</td>
</tr>
<tr>
<td>John Lipski</td>
<td>Professor</td>
</tr>
<tr>
<td>Tey Diana Robolledo</td>
<td>Professor</td>
</tr>
<tr>
<td>Enrique Lamadrid</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Susan Rivera</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Adriana Estill</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>María Dolores Gonzales</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Michael Kidd</td>
<td>Assistant Professor</td>
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B. Visiting Professors

Michael Pagel
Patricia Rosas Lopátegui

C. Lecturers

Andrés Armijo
José Bañuelos
Veronica Calvillo
Deanna Cornejo-Patterson
Susan Clark
Pilar Duran
Roxanne Hale
Raquel Martínez
Gina Morales
Luisa Pueyo
Guadalupe Rivera
Francisco Ronquillo
Mary Salinas-Jordan

D. Emeritus Professors

Rubén Cobos
Pelayo Fernández
Rosa Fernández
Angel González
Tamara Holzapfel
Albert Lopes
Raymond MacCurdy
Marshall Nason
Alfred Rodríguez
Sabine Ulibarri
E. Teaching Assistants

Ph.D.
Stephanie Becker
Beth Bernstein
Rosa Campos-Brito
Esther Brown
Patricia Cano
Patricia Catoira
Mayra Cortés-Torres
Gabriela Díaz-Gallegos
Myriam Eguía
Arturo Fernández-Gibert
Fernanda Ferreira
Kristina Galindo Knudsen
José Esteban Hernández
Sangsuk Kim
Marcos Romero
Xochitl Estrada Shuru
María Eugenia Trillo
Theodore Walker

M.A. Spanish
Melba Amador
Lucía M. Anglada
Marcel Browne
Lorena Cedeño-Zambrano
Christy Chapman
Miguel Angel Estrada
Teresa Fernández
Jaime Gelabert
Barbara Gonzales
Inga Klein
Elizabeth Matthews
Sherry Niccolai
Lisa O’Grady
Leticia Ortiz-Gamber
Benito Quintana
Olga Ríos
Marcos Romero
Jessie Rutherford
Elaine Shenk
Gretchen Snyder
Patrick Staib
Megan Thornton
Saúl Trejo
Veronica Vargas
Mark Waltermire

MA Portuguese
Gilson Borges
Vera Castro
F. Office Staff
   Rosario Johnson  Department Administrator
   Ivana Černá  Administrative Assistant III
   Esther Marquez  Administrative Assistant II
   Rosita Pickle  Administrative Assistant I

G. Temporary Staff
   Lisa Saiz  Office Assistant
   Gustavo Montoya  Office Assistant

H. Work Study Team
   Greg Gonzales
   Audry Tafoya
   Francisco Sánchez

I. Degrees Awarded
   Ph.D. in Romance Languages/Spanish

Summer 1999

Contreras, José Vitelio, Dissertation title: “Estudio y edición del Tratado en defenssa de virtuossas mugeres.” Por Mosén de Valera.

Lárraga, Maribel, Dissertation title: “La mística de la feminidad en la obra de Juan Villagutierre Sotomayor: Historia de la conquista, pérdida y restauración del reyno y provincia de la Nueva Mexico en la América septentrional (1698).”

Tarp, Helen Cathleen, Dissertation title: “Aurelio et Isabelle: An Edition and Study of the 1556 Antwerp Spanish and English Translations of Juan de Flores’s Grisel y Mirabella.”
Torres-Cacoullos, Rena C., Dissertation title: “Grammatization, synchronic variation, and language contact: a study of Spanish progressive –ndo constructions.”


Fall 1999


Master of Arts in Spanish
Miguel Angel Estrada

Bachelor of Art in Spanish Major
Sarah Langley
Lisa Nix
Stefanie Ortega

B.A., Second Major in Spanish
Janet Baca  Erin Hagenow
Linda Clemens  Georgina Lippiatt
Leah Collins  Roberta Lucero
Robert DoBell  Margaret Maier
Grace Gallegos  Brenda Pacheco
Monica Gurulé
B.S., Second Major in Spanish
Lisa Lavadie
Hans Hamburg

Carlos Scarborough
Christopher Wiggins

Spring 2000

Master of Arts in Spanish
Lucia M. Anglada
Christy Chapman
Jaime J. Gelabert

Barbara M. Gonzales
Linda M. Ryter
Elaine Shenk

Master of Arts in Portuguese
Vera Cecilia Castro

Bachelor of Art in Spanish Major
Anna Archuleta
Laura Chávez
Chikiyo Jackson
Amavalise F. Jaramillo
Bryon Large
Juliana Mora

Jessica Salazar
Harvey Shaeffer
Sarah Thompson
Eleanor Werenko
Brian Willemin
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III. DEPARTMENT HIGHLIGHTS

The academic year 1999-2000 was another year of growth, transition, and innovation for the Department of Spanish and Portuguese. During the year, two visiting professors taught in the department: Michael Pagel (Linguistics) and Patricia Rosas-Lopátegui (Latin America Literature). The department made successful offers to two assistant professors that will be joining us in the Fall: Rena Torres Cacoullos (Historical Linguistics) and Kathryn McKnight (Latin American Colonial Literature).

In Spring 2000, Professor Enrique Lamadrid was promoted to Full Professor, and Professor Kimberle López received tenure and promotion to Associate Professor. At the same time Professor John Lipski finished his term as department chair, and announced his resignation from UNM to head the Department of Spanish, Italian and Portuguese at Pennsylvania State University. Professor Anthony Cárdenas will succeed Professor Lipski as department chair. The department hopes to fill the Spanish Linguistics line held by Professor Lipski during the next academic year.

On February 17-18, 2000 the department hosted the 9th Annual Conference on Ibero-American Culture and Society, with the topic “A Spanish odyssey: one thousand years of Iberian Literature and Culture.” The conference was organized by the Spanish Literature faculty (especially Professor Michael Kidd and Susan Rivera), and attracted over 60 papers by scholars from around the country. Professor Edward Friedman, who is a distinguished Spanish Golden Age scholar from Indiana University, delivered the keynote address.

On March 31 and April 1, 2000 the department co-hosted the Página Roja Chicano/Chicana detective fiction symposium at the Zimmermann Library, organized by Professor Tey Diana Rebolledo. Several department students and faculty members participated in that event.

In December of 1999 Professor Enrique Lamadrid brought the Pastorelas de Belen Cultural Group to our university for an evening performance in the UNM Chapel. This event brought together community and UNM members.
In Spring 2000 Professor Enrique Lamadrid led an honors group on a highly successful course-related field trip to Cuba, the first UNM student group to visit Cuba under the newly authorized travel license issued to UNM.

Department enrollment continued to climb dramatically. The UNM core curriculum was implemented in Fall 1999, resulting in a huge increase in Lower-division Spanish enrollment, funded by contingency monies provided by the Office of the Provost and Evening and Weekend Degree Programs. The Spanish as a Heritage Language/Spanish for Bilingual track (offering special sections of Spanish 101 through 202) experienced more than 50% growth over the previous academic year, due largely to the efforts of Professor María Dolores Gonzales, in her first year as full-time coordinator of this key program.

A. Visiting Professors

The Department of Spanish and Portuguese was joined by two Visiting Assistant Professors in the fall: Professor Patricia Rosas Lopátegui, who received her Ph.D. from the University of New Mexico, and Professor Michael Pagel, ABD from the University of New Mexico.

B. Resignation

Professor John Lipski resigned as of June 30, 2000.

C. Staff Changes

Ivana Černá, Administrative Assistant III resigned on April 30, 2000, after seventeen years at the department.

D. Awards

1. Professors

Tey Diana Rebolledo, received Regent's Professor for 3 years.
2. Graduate Students

Paul Goldberg, received a Latin American Institute Title VI for the 1999-2000 academic year.

IV. DEPARTMENTAL ACTIVITIES

A. Lectures and Conferences Sponsored by the Department of Spanish and Portuguese

Los Pastores, The New Mexican Shepherds Play with La Gran Pastorela de Belen, on December 2, 1999, at 7:00 pm. Professor Enrique Lamadrid organized and directed the event.

Professor Andrés Enrique, University of Southern California, Los Angeles, candidate Spanish historical linguistics position presented "The Evolution of Object Agreement in Spanish: a Typological Perspective," January 27, 2000, at 2:30 pm in the Ortega Hall Reading Room.

Professor Rena Torres Cacoullos, University of Florida, candidate Spanish historical linguistics position presented "From lexical to grammatical to social meaning: Spanish ESTAR/ANDAR-plus-gerund variation," January 31, 2000, at 2:45 pm in the Ortega Hall Reading Room.

Professor Virginia Bouvier, University of Maryland, candidate Latin American colonial literature position presented "Maps and Myths: Charting an Empire in Spanish California," February 3, 2000, at 2:30 pm in the Ortega Hall Reading Room.

Professor Sarah E. Owens, University of Arizona, candidate Latin American colonial literature position presented "Subversive Obedience: Confessional Letters of Eighteenth-Century Mexican Colonial Nuns," February 8, 2000, at 1:30 pm in the Ortega Hall Reading Room.
Professor Kathryn McKnight, Ph.D. Stanford University, candidate Latin American colonial literature position presented "Tall Tales of the Devil and Paradise: A Mexican Slave's Inversion of a Catholic Slave-Society Narrative," February 10, 2000, at 2:30 pm in the Ortega Hall Reading Room.

Professor Milleret, presented Three One Act Plays in Spanish, The Dickey Theatre, "Estudio en blanco y negro" by Virgilio Piñera (Cuba); "Una Mariposa blanca" by Gabriela Roepke (Chile); "El censo" by Emilio Carballido (Mexico), May 7, 2000, at 2:00 pm, in room 108 of the Humanities building.

Annual Conference: On February 17-18, 2000, the Department of Spanish and Portuguese hosted its 9th Annual Conference on Ibero-American Culture and Society: "A Spanish Odyssey: one thousand years of Iberian Literature and Culture," organized by the Peninsular faculty. The conference attracted over 60 papers by scholars from throughout the country. The event allowed departmental graduate students to present papers, chair sessions, meet with scholars, and aid in abstract selection and conference organization.

B. Invited Talks

- To Chair a panel and present: "Epenthesis vs. Elision In Afro-Hispanic language: A constraint-based approach to Creole phonology," at the 1999 annual meeting, July 31 through August 3 1999, Denver, Colorado.
- To deliver a lecture at Penn State University, November 20-24, 1999, Pennsylvania.
- To evaluate Language programs in Spain. A portion of the New York-Spain-New York trip will be paid for by the Spanish Chamber of Commerce. March 11-18, 2000, New York.
- To evaluate computer assisted language instruction at the University of Illinois, May 14-16, 2000, Champaign, Illinois.
- To deliver the lecture: “Sailing the seven seas: cross-currents of Afro-Romance language contact.” Penn State University, November 23, 1999, Pennsylvania.
- To deliver the lecture: Partial Spanish: “From Lingua Franca to Gringo Lingo,” 30th Linguistic Symposium on Romance Language (LSRL), University of Florida, February 25, 2000, Gainesville, Florida.


C. Papers Read by Faculty

- To present paper: “Anglisismos en el español de Nuevo México. XII Congreso Internacional de la Asociación de Lingüística y Filología de la América Latina, August 9-14, 1999, Santiago, Chile.

- To present the paper: “Of Signatures, Stockings, Oil and Love: Marginalized Text in Alfonsine Science,” at Texas Medieval Association Conference, September 10-11, 1999, Canyon, Texas.
To attend the ADFL meeting for Chairs this Summer, May 31 through June 4, 2000, Phoenix, Arizona.


**Enrique Lamadrid**, to chair the opening plenary session of the annual meeting of the American Folklore Society, October 21-24, 1999, Memphis, Tennessee.

- Participation in the Research Seminar on Cuban Art, Culture and Society, October 8-18, 1999, Havana. American and Iberian Institute, UNM.


**Miguel López**, conducted research at the Archivo General de la Nación on Mexican indigenists writers. Also he presented a paper at the Jornadas de Cultura Metropolitana, July 6 – 21, 1999, Mexico.

- To read: “la vision de los vencidos en Carmen Bullosa y Olivier Debrouse: heteroglosia e intertextualidad a fin de milenio,” at the VI Mexican Literature Conference, UTEP, March 2-3, 2000, El Paso, Texas.

**Judy Maloof**, to present paper: at the Letras Femeninas Conference in Querétaro, Mexico, September 22-26, 1999.
- To present: “La pasión por el baile y la creación de espacios femeninos: en Danzón de ría Novaro,” at El Congreso de la Asociación de la Literatura Hispanica Femenina, Sept. 23-25, 1999, Querétaro, Mexico.

- To read: “Madre no hay una sola in Two Argentinean Plays,” and to consult with editor on a book of essays about Brazilian culture, at the Latin American Theater Conference, March 29 through April 2, 2000, Lawrence, Kansas.

**Nuria Sagarra**, to read paper: “Working Memory and Second Language Acquisition: State of the Arts and New Data.” Also, was Colloquium organizer and participant at the Second Language Research Forum Conference, September 23-26, 1999, University of Minnesota, Minneapolis.


Patricia Rosas Lopátegui, to present paper at the Theater of Latin America. A Festival and Symposium, March 29 through April 1, 2000, University of Kansas.

Jon M. Tolman, attend and participate in a conference at Pontifical University in Rio de Janeiro.
- Meet with other Latin American Studies Center directors in DC at the invitation of the Brazilian ambassador to discuss Brazilian studies in the United States.
- Read paper on “Sexo e sexualidade na obra de Rubem Fonseca,” at the Rocky Mountain Modern Language Association meeting, October 1999; in Santa Fe, New Mexico.

D. Papers Read by Graduate Students


Esther Brown, "Reflexive Pronoun Use in the Spanish of Bilingual Living in Contact Situation." Paper read at XVIII Congreso del Español en los EE.UU, April 6-8, 2000, University of California at Davis.


Fernanda Ferreira, "Aspiration and Deletion of /s/ in northeastern Brazilian Portuguese: Evidence of Creolization or Parallel Processing Effects?" V Congreso Nacional de Lingüística, AMLA, October 12-14, 1999, Universidad Autónoma de Nuevo León, Monterrey.


E. Others Research Projects or Creative Works in Progress or Completed during period

- “Cervantes and the Follies of Verisimilitude.” Article-length manuscript in progress.


John Lipski, the special collections in the University of Puerto Rico, Río Piedras, libraries. Research on early Afro-Hispanic language in Puerto Rico.

Miguel López, “Deseo y degeneración en la novela etnográfica: el mestizaje frustrado en La cruz del maya y La selva encantada,” submitted to Revista de Crítica Literaria Latinoamericana; 2) “Transculturación y resistencia a fin de milenio en Crónica de las destrucciones de Oliver Debriose,” submitted to Chasqui; 3) “La reescritura de la historia en Crónica de las destrucciones de Oliver Debriose,” submitted to Jornadas; 4) “Degeneración y deseo colonial en The Rag Doll Plagues,” submitted to Confluencia; 5) “Historia y subalternidad en Oficio de tinieblas de Rosario Castellanos” (Article in progress); 6) “La novela indigenista: un acercamiento crítico al final del milenio” (Article in progress); 7) Subalternity and the Mexican Novel (Book in progress); 8) “Re-writing the Conquest, Rewriting the Self in Obsidian Sky by Guy García” (Article in progress).

Margo Milleret, continuing work on book “Latin American Women in/on Stages.”


F. Activities in Learned and Professional Societies

John Lipski, Associate of Hispania, Journal of American Association of Teachers of Spanish and Portuguese (AATSP) for Theoretical Linguistics; 2) Presented the paper “Epenthesis vs. Elision In Afro-Hispanic language,” at the annual meeting of the AATSP.

Miguel López, “Historias subalternas y utopía en Crónica de las destrucciones de Oliver Debroise,” at VI Jornadas Metropolitana de Cultura, at Universidad Autónoma Metropolitana, Plantel Atzcapoztla-Casa Lamm-Michigan State, University of Mexico City.


G. Other Professional Activities (exhibits, off campus talks, etc.)

Adriana Estill, Associate Editor, VOCES: A Journal of Chicana / Latina Studies. Manuscript review, University of New Mexico Press.
- Reviewed journal article in Arizona Journal of Hispanic Cultural Studies.


- “Capitán Rafael Chacón: A Nineteenth Century New Mexican,” Chautauqua Character, New Mexico Endowment for the Humanities Speaker Bureau Lectures Series.


Jon M. Tolman, reviewer for four articles in the Latin American Research Review, Brazilian Foreign Ministry.

H. Non-teaching University, College, and Department Service

Adriana Estill, Activities Committee Chair, Fall 1999; 2) Undergraduate Committee, Fall 1999; 3) On board of Southwest Hispanic Research Institute; 4) On board of Feminist Research Institute, Fall 1999.

Michael Kidd, LAII Allocations and Awards Committee; 2) Spanish & Portuguese Merit and Salary Committee; 3) Co-Director, Ninth Annual conference on Ibero-American Culture and Society: A Spanish Odyssey; 4) S&P Search Committee, Colonial Literature; 5) S&P Advisor Committee; 6) S&P Undergraduate Studies Committee.

Margo Milleret, Chair, Advisory Committee (Dept); 2) Undergraduate Advisor-Portuguese; 3) Organizer & Director - Brazil Summer Study.

Enrique Lamadrid, Advisor, UNM Press Committee, S&P Dept. Honors; 2) Regional & Folk Arts Steering Committee, Southwest Hispanic Research Institute, Faculty Associate.

John Lipski, Chair, Iberian Committee of the Latin American and Iberian Institute; 2) Member, Latin American and Iberian Institute Grants and Scholarships Committee; 3) Met with the President of the Republic of Andorra to discuss possible student exchanges.


Susan D. Rivera, Arts and Sciences Junior Tenure and Promotion Committee; 2) Co-coordinator of the Ninth Annual Conference on Ibero-American Culture and Society: A Spanish Odyssey: One Thousand Years of Iberian Literature and Culture; 3) Graduate Studies Committee; 4) Advisory Committee; 5) Search Committee, Lower Division Spanish Coordinator and Applied Linguistics; 6) European Studies Committee; 7) Community Service Committee; 8) Women Studies Associate.

Jon M. Tolman, served as Associate Director for Luso-Brazilian Studies, Latin American and Iberian Institute; 2) Served on Grants and Awards Committee, LAII; 3) Served on Arts & Sciences Interdisciplinary Committee on Latin American Studies; 4) Served on S&P Salary Committee; 5) Served on Spanish & Portuguese Graduate Committee and Advisory Committee.
I. Grants and Contracts, Extramural and Otherwise

Enrique Lamadrid
Agency: RAC Grant
Dates: August 1999
Funding: $3,000

John Lipski
Agency: Title VI Grant
Dates: July 1999
Funding: $3,000

Susan D. Rivera
Agency: Teaching Allocations
Dates: July 1999
Funding: $2,500

Jon M. Tolman
Agency: LAII
Dates: Fall 1999
Funding: $30,000

J. Diversity

The last academic year the department maintained its pursuit of diversity, making efforts to attract women and minority groups. This past year, the department issued contracts to forty-six teaching assistants, twenty-five were Hispanics, and one was Asian. Women accounted for thirty percent of the total, of which fifteen were Hispanic and one was Asian. A total of twelve lecturers taught on a part-time basis, eight of them were woman of Hispanic origin. The work study team was composed of three students, two were of Hispanic origin, and one was a woman.
Annual Report  
Department of Speech and Hearing Sciences  
July 1, 1999 – June 30, 2000

Submitted by  
Amy B. Wohlert  
Professor and Chair, Department of Speech and Hearing Sciences

1. Program Improvements

Associate dean Ken Frandsen completed his second year as interim chair of the department and a national search was conducted for a new department chair. Janet Patterson achieved tenure and promotion to associate professor in spring, 2000.

The department's third annual report for accreditation renewal was accepted by the American Speech-Language-Hearing Association.

Our cooperation with Albuquerque Public Schools continued. APS supplied four clinical supervisors, salary support for secretarial staff, supply and equipment funds, and paid internships including tuition support for 4 students, in a contractual arrangement totaling over $90,000 for the year.

The distance education program continued to make our undergraduate major available to students in northern New Mexico. Televised satellite sections of SHS 302 and 350 (fall, 1999), 303 and 320 (spring, 2000), and 321 and 430 (summer, 2000) were offered at sites in Taos, Espanola, Gallup, Santa Fe, Los Alamos, and Los Lunas. As of fall, 1999, 27 undergraduate students were taking courses through this program.

Faculty, particularly Finn and Ballachanda, developed websites for courses. A new undergraduate audiology course was added to the curriculum: SHS 320 Hearing Science covers the anatomy and physiology of the hearing system. New graduate courses, SHS 533, Assessing Language in Children and SHS 534, Intervention: Child Language Disorders were developed by Patterson and Rodriguez and undergraduate offerings in child language disorders were revamped.

The 9th annual Academic Exchange between UNM/SHS and Comunidad Crecer Rehabilitation Center in Mexico City took place Aug. 4 – 11, 1999. Three graduate students and one clinical supervisor from our department, plus three rehabilitation specialists from the community, participated.

Clinic: In response to requests from departments such as Mathematics and Statistics and Nursing and Pharmacy, the clinical staff developed an Accent Modification program for non-native speakers of English. A new clinical program for children with Autism Spectrum Disorder was initiated. The Speech-Language Pathology Clinical Policy Manual was thoroughly revised. The cooperative arrangement with UNM Health Sciences Center's Audiology Clinic was discontinued. Although the
department no longer supplies staff for that clinic, space and equipment for student practicum and research endeavors were retained at the Health Sciences Center.

The department’s social activities included a picnic in September, a holiday party and a graduation reception in December, and a graduation reception in May.

2. Student Achievements

In fall, 1999, 102 undergraduate students were listed as majoring in Speech and Hearing Sciences and 83 students were enrolled in the graduate program. From summer, 1999 through spring, 2000, 29 students received bachelor's degrees and 36 students received master’s degrees. Of the 36 master’s graduates, 28 gave us information concerning their employment. Thirteen of the students who reported their employment were working for Albuquerque Public Schools and seven others were working elsewhere in the state.

Graduate students organized and presented the 9th Annual Southwest Conference on Communicative Disorders, a major regional conference that attracted approximately 400 attendees on March 9 and 10, 2000. The conference committee was chaired by student Mistie Brown.

A selection of students’ honors include:

Scholarships
- OGS: Tina Harte
- Josephine Chen: Tina Harte
- Ronald E. McNair: Ivonne Flores-Medieros
- Richard B. Hood: Eileen Ogas

Interdisciplinary Health Care for Rural Areas Training Program
- Sharon Christensen
- Molly Cheves
- Paula Zimmer

LEND (Leadership Education in Neurodevelopmental Disabilities Program)
- Maria Gillen
- Jean Linardakis
- Teresa Phillips

Cum Laude and/or Golden Key B.A. graduates
- Michelle Bourguet
- Renee Compher
- Stephanie Guerra
- Rebecca Ortega
- Stephanie Telge
3. Faculty Achievements

a.) Publications


Finn, P. (1999). Childhood stuttering: To treat or not to treat. Advances in Speech Language Pathology, 1, 139-141.


b.) Presentations

Ballachanda:


Finn:


Rodriguez:

Reflections from former compact scholars: My first year as an assistant professor. Sixth Annual Institute on Teaching and Mentoring, Compact for Faculty Diversity, New Orleans, LA.
c.) Theses

Ballachanda: Julie Christensen, *Tinnitus Evaluation*

Finn: Holly Allen, *Defining the Parameters of Recovery from Stuttering*

d.) Grants

Ballachanda, Patterson, Rodriguez: A&S Research Equipment Grant, $9400.


e.) Honors, Awards

Rodriguez: SHS Teacher of the Year Award

4. Faculty Professional, Community, and University Service

a.) Journal service

Ballachanda:


Finn:


Patterson:

Editorial consultant, *American Journal of Speech-Language Pathology, Language, Speech, and Hearing Services in the Schools*

b.) Selected professional service

Ballachanda: President of the Asian-Indian Caucus, American Speech-Language Hearing Association; Vice-president for Convention 2000, New Mexico Speech-Language-Hearing Association; Chair, Committee on Diversity and International Exchange (CODIE), American Academy of Audiology.
Rodriguez: Vice-president, New Mexico Speech-Language-Hearing Association

c.) Site visits

Ballachanda: NCA review of audiology program at Arizona Health Sciences Center, Phoenix, AZ.

d.) Selected community and university service

Blaker: Faculty facilitator for the UNM Health Sciences Interdisciplinary Health Care for Rural Areas Training Program

Cullivan: UNM Staff and Faculty Benefits Committee

Lough: Board member for the Brian Injury Association of New Mexico, the Albuquerque Speech, Language, and Hearing Center, and the Southwest NeuroRehabilitation Institute. Governor appointed member of the New Mexico Brain Injury Advisory Council.

Rodriguez: Bilingual speech and language assessments for the Grants-Cibola County Schools.

e.) Mentorships

Ballachanda: McNair Scholar, Research Opportunity Program

Patterson: Regent’s Scholar

Rodriguez: McNair Scholar, Research Opportunity Program

5. Faculty/Staff Appointments and Separations

Charlotte Lough was appointed as clinic director (Visiting Lecturer II), beginning August 16, 1999. Carol Varela-Haager, Administrative Assistant I, resigned in June, 2000.

6. Future Plans

With a new chair in place, the department expects to use the coming year to develop long range plans for both the undergraduate and graduate programs. This process will be aided by a graduate unit review of the department scheduled for fall, 2001. A search will be conducted for an audiology faculty member. Patrick Finn, associate professor of speech-language pathology, has resigned effective at the end of the 1999-2000 academic year so we anticipate eventually filling that position. With new faculty in place, the department expects to improve its research presence and continue its highly successful programs of professional preparation in audiology and speech language pathology.
September 8, 2000

Interim Dean Fritz Allen
College of Arts and Sciences
University of New Mexico
Albuquerque, NM 87131

Dear Dean Allen,

Shane Phelan, director of Women Studies completed a narrative program report before she left the position in May of 2000. I began as acting director with the summer session of 2000. Since that time several other program accomplishments were reported to me or have occurred. Hence, I added an addendum to her report.

Sincerely yours,
Cheryl D. Learn Ph.D., RN
Acting Director
Women Studies
WOMEN STUDIES PROGRAM
1999-2000 ANNUAL REPORT

Submitted by Shane Phelan

Significant Developments:
Curriculum revision was the major project of the year. Following our faculty retreat last year a curriculum committee (Louise Lamphere (Anthropology), Minrose Gwin (English), Diana Robin (Foreign Languages and Literatures), Rosa Campos (Spanish and Portuguese) and Rinita Mazumdar (Philosophy and Women Studies)) reviewed the core courses, met with instructors, and made recommendations for curriculum change (attached). During the spring the Executive Committee (Shane Phelan, Dorothy Chansky (Theater and Dance), Holly Barnett (Art and Art History), Vonda Long (Counselor Education), Anne Skinner-Jones (Women Studies), and Cheryl Learn (Nursing)) formulated standard guidelines for content and skills acquisition in WS 200, WS 324, and WS 492. We also initiated an extensive network of formalized AOA classes to replace the ad hoc cross-listing of prior years. We believe that this will help students to plan their majors and minors by making the courses listed together in the catalog, and also reducing the administrative burdens of locating and cross-listing classes.

We remained without tenure-track lines this year. Dean Fischer agreed to initiate joint appointments, but we did not go forward because of my leave. This is nonetheless the most crucial issue facing Women Studies. We desperately need continuity in teaching, advising, and governance, and I urge the College to immediately initiate a program for several joint appointments for existing faculty. The documentary history on this is available in the College and in Women Studies.

We offered 22 courses through our funding, and listed another 15 as TW courses from other departments (almost double the number of TW courses offered in 1998-99). Our total enrollment for the fall and spring semesters was 425. We offered two courses in the summer 2000 session (due to staffing difficulties) with 41 students. Although this is on a par with last year, it is deceptive. Levels of student interest, measured by enrollments during the first two weeks, were up sharply (287 in the spring semester). I suspect that drops were partly due to instructor shifts as a result of graduate student schedules.

Staff:
The search for a new administrative assistant took up most of the summer and fall. An initial hire was disastrous, and a second round of searches had to be conducted. We relied on temporary help until December 20, when Anne Burtnett joined the program.

We were unable to rehire Jill Heine as advisor, and returned to the earlier system of using graduate assistants. Although they did an adequate job, it became clear that this is a less desirable situation. They do not know the campus as a regular advisor can and they change over each year, necessitating retraining each year. This is an important issue for future consideration.

Catherine Ramirez was hired by English through a spousal hire, but no joint appointment
resulted. We are thus still without regular faculty.

Publications and Professional Activities:
Because our faculty largely consists of part-time instructors, we cannot report many publications. A better indication would be publications of all those who teach our students through our courses and TW courses, but such a record is unavailable. We nonetheless had an active year.

Shane Phelan published “Queer Political Theory: Another Liberalism?” in the American Political Science Review (June 2000). She presented papers at the American Political Science Association, the Western Political Science Association, the American Philosophical Association (Pacific Division). She was a plenary speaker at the Hellenic Association for American Studies meeting in Athens, and gave lectures at the University of Alberta and conference on Female-to-Male Transgender Issues. She led a faculty seminar on integrating lesbian and gay studies into the curriculum at the University of Wyoming. She served as Chair of the APSA Committee on the Status of Lesbians and Gays in the Profession.

Our graduate assistants and graduate student instructors actively participated in their disciplines. Rosa Campos presented a paper at a conference on “Newness in Intercultural Practices” at the University of Antwerp, Belgium. Debbie Boehm presented papers at the conferences of the Latin American Studies Association and the American Anthropological Association. Yuriko Furuhata won a summer 2000 fellowship at the Smithsonian Institution. Cymene Howe, a graduate student instructor, won a 2000 Fulbright for field work in Latin America. Monica Torres, also a graduate student instructor, won a fellowship for teaching and research at Carleton College.
Addendum to Women Studies Annual Report
September 15, 2000
Submitted by Cheryl D. Learn
Acting Director Women Studies

1. Program Improvements
   • Efforts to strengthen teaching
     A pedagogy group was initiated in the spring of 2000 to discuss pedagogical
     strategies suitable for Women Studies classes. The textbook utilized was Mayberry, M. &
     Routledge Press. The group met four times to discuss the readings and related issues.
   • Efforts to improve student recruitment and retention
     Website was updated with information on the Women Studies Program,
     requirements for the major, classes, and the new acting director.

2. Student Achievements
   • Placement Upon Graduation
     First major graduate Adriana Nieto was accepted for graduate study at the UNM
     LAI program. She also returned as a GA in the Women Studies Program.
     Summer Little accepted a position at the Women’s Resource Center at UNM as
     editor of their newsletter, Women Talk after graduation in December 1999 and began

3. Faculty & Staff Achievements
   • Publications
     43. 39-42.
     Higgins, P. G. and learn. C. D. Health practices of adult Hispanic women. Journal of
     Advanced Nursing 29 (2), 1105-1112.
   • Prizes, Awards, Fellowships
     Director Shane Phelan received an award from the UNM Women’s Resource
     Program at the International Women’s Day Celebration in honor of her contributions as
     director of Women Studies.
     Anne Burtnett, the administrative Assistant, was selected to participate in
     Leadership Albuquerque 2000-2001 and received a staff development award from the
     College of A&S.
     Acting Director Cheryl Learn received the mentor award from Gamma Sigma
     Chapter of Sigma Theta Tau International, the nursing honor society. This is the highest
     award at the chapter level.
   • Scholarly or Disciplinary Societies
     Acting Director, Cheryl Learn completed a 3-year term as international recording
     secretary of the International Society for Human Caring. Cheryl Learn also was received
4. Faculty, Professional and University Service
   • Editorial Boards
     Cheryl Learn was a member of the editorial boards of the *Journal of Qualitative Health Research* and *Journal of Holistic Nursing*.
   • Departmental, College, or University Committees
     Acting Director Cheryl Learn was the alternate delegate to the Faculty Senate Graduate Committee representing the UNM College of Nursing academic year, 1999-2000. Cheryl Learn also served as the vice-chair of the College of Nursing Curriculum Committee, assuming the chair in June of 2000. Cheryl Learn also became a member of the Women Studies Executive Committee in February 2000.

5. Data
   • Undergraduate majors: As of August 31, 2000, the A & S advisement office reported 7 declared majors, 9 declared second majors, and 19 minors in Women Studies. Since there are no full time faculty at this time, the ratio is not significant.
   • Credit Hours Generated in 1999-2000 is estimated at 1440.
   • Underenrolled classes-2 in 1999-2000

6. Faculty /Staff Appointments and Separations
   • Cheryl Learn was selected via an internal UNM search and appointed to the position of acting director of Women Studies by Dean Michael Fischer and assumed the position in June of 2000.
   • Shane Phelan is on indeterminate leave of absence starting May 15, 2000.
UNM-VALENCIA CAMPUS

ANNUAL REPORT

For the Period

JULY 1, 1999 – JUNE 30, 2000

Alice V. Letteney
Campus Executive Director
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INTRODUCTION
Dr. Alice V. Letteney, Campus Executive Director

Highlights of the University of New Mexico-Valencia Campus

1. Significant Developments

The college was awarded a 5-year, $2.1 million Hispanic serving Institutions Title V Grant to promote student success, create a management information system, and create a development office (details of Title V Grant progress follow this section of the report).

The new 32,000 square foot Student/Community Center was opened on April 28, 2000. The first event held in the new multipurpose room was a dragon play put on by the children of the gifted/talented/McCune programs at the college. An open house for the Small Business Development offices, the Valencia County Workforce Center Offices, and the Community Education Officers were held that day, as well as tours of the new campus bookstore and the renovated cafeteria. The new center also hosted the college’s graduation ceremonies in May.

2. Program Developments

The college’s Wellness/Fitness Center was completed during the summer of 2000, as the Associate of Science in Health and Fitness Education was approved.

Creation of an Associate of Applied Science in Electronic Engineering which includes Semiconductor Manufacturing Technology, Industrial Electronics, and Communication Electronics Programs.

Major revision of all Information Technology Programs, including Web Master, Systems Engineer, and Computer Programmer.

Updating of all Office and Business Technology programs.

Alignment of all degree and certificate programs with Main Campus programs, including the UNM Core Curriculum.

Medical Coding and Billing and Heavy Equipment Training were offered by the college in collaboration with the Department of Labor.

3. Honors and Awards

Two Valencia Campus students completed HACU summer internships in the summer of 1999, one with USDA, and one with NASA.

4. Community Outreach

Approximately 14,560 citizens visited the campus.

a. The Small Business Development Center hosted the first Valencia County Economic Development Conference, co-sponsored by the Belen, Los Lunas, and Hispano Chambers of Commerce, which attracted 170 participants from the region and featured NM Secretary of Economic Development, John Garcia.

b. The UNM-Valencia Campus Development Board elected Gail Wall as its President and exceeded its $40,000 fundraising goal. A “Giving Tree” was installed in the new Student/Community Center Lobby donated by the Lardner family of New Mexico Travertine.

c. A Minority Outreach Committee was appointed by the UNM-Valencia Campus Advisory Board in the Spring of 2000 and as a result of the committee’s recommendations a minority recruiter position was created and filled during the summer of 2000.
d. UNM-Valencia Campus and the Valencia County Chapter of AAUW co-sponsored the second annual "Sister to Sister Conference" in January, attended by 100 girls from grades 6-9. Featured speakers were Deanna Saucedo, KREQ, and Jackie Ingles, NM Deputy Secretary of Labor.

e. UNM-Valencia Campus and the Belen Pilot Club co-sponsored the third annual Women's Conference for Secretaries and Professional Women which was used as a training session for several SU PARTE Welfare Reform Clients.

f. The Math Department hosted its third annual CETP conference for college, K-12, and pre-service educators.

g. The "New Mexico American Mathematical Association for Two Year Colleges" annual conference was hosted by the Math Department in April.

h. The New Mexico Historical Society's annual conference was hosted by the college in April.

5. Campus Executive Director's Office

Major activities of the Campus Executive Director, Dr. Alice Letteney

UNM-Valencia Campus Advisory Board Award "For Outstanding Service and Dedication to this Institution," April 28, 2000.

New Mexico Association of Community Colleges, President Elect.

American Association of Community Colleges, Workforce Development Commission.

Executive Committee, American Association of University Women, Valencia County Branch.

President, Los Lunas Chamber of Commerce.

Community Council, Ranchers Banks.

ACI Education and Workforce Committee

Chair, Belen Rotary Scholarship Committee.

Valencia County Hospital Committee.

United Way Valencia County Advisory Board.


New Hires

Chad Perry, Public Information Officer, March, 27, 2000.

Separations

Rigo Chavez, Public Information Officer, October 22, 1999.
Title V Grant
Gerald Willis, Title V Coordinator

Current status of the University of New Mexico-Valencia Campus Title V Grant Developing Hispanic Serving Institutions Program, administered by the University of New Mexico-Valencia Campus under the guidance of the U.S. Department of Education.

A. Significant Developments

1. Activity I - Student Success

   Activity I continues to progress nicely ahead of schedule and well within budget.

   a. The Counselor/Social Worker position has been filled by Kim Jeffries, as of July 24, 2000, following the resignation of Joanna Cummings. Ms. Jeffries will be able to put this task in order quickly with the guidance of Ray Rondeau. The groundwork for student contacts and the at-risk student problem-solving program has been implemented and will continue on schedule.

   b. All components of the Freshman Seminar/Student Success web site will be in place by the end of July 2000. The Student Success web site for students whose placement scores placed them in the college level English and Mathematics, is the last component to come into place.

   c. A very well organized and impressive New Student Orientation program is in place. This PowerPoint presentation, coupled with useful narrative by Student Services representatives, is being well received by new students.

   d. The new student mentoring program is in its initial stages.

   e. Technology and retention training for the first five faculty members has been completed. The second group of training, for an additional five faculty members will begin in these areas at the beginning of the Fall semester 2000.

   f. Construction of two developmental studies presentation classrooms was completed in May 2000. The developmental lab will be complete by mid-August 2000. These facilities will be ready for student/faculty use before the Fall semester begins, a full ten months ahead of schedule.

   g. The initial installment of multi-media presentation equipment will be in place for the developmental classrooms and lab before the beginning of the Fall semester, ahead of schedule. Additional multi-media equipment required for these areas will be ordered in August 2000, to be installed soon after the beginning of Fall semester, seven months ahead of schedule. The position of Developmental Lab Coordinator has been filled, with an anticipated early September 2000 start date. This will be one month ahead of the scheduled start date.

   h. The position of Developmental Lab Technician has been advertised, interviews are in progress and hiring is expected to take place by the second week in August 2000, nine months ahead of schedule.

2. Activity II - Institutional Stability Through Information Management

   Activity II deals with gathering of information, which is often difficult to quantify with tangible results. Progress is slow, but continues at a steady pace. Activity II remains behind schedule in some areas due to the sheer enormity of the task.

   a. Critical contacts with main campus have been established to determine the status of current reporting requirements and accessibility of critical databases.
b. A list of major reporting needs for the Valencia Campus is being compiled. A comprehensive synopsis of the status of these reports will be complete upon completion of the reporting needs list.

c. Coding for the automated degree audit system, PROGRESS, is ahead of schedule. The faculty will have an introduction to the system in August 2000.

3. Activity III - Institutional Advancement

Major areas within Activity III are either on schedule or ahead of schedule. The Development Office is established and running very effectively under the guidance of Lois Hansen, Manager, Donor Relations, who is well known and respected within the community.

a. A full time administrative assistant has been hired to work in Activity III, Institutional Advancement.

b. Mailing lists and the donor database are established and are up-dated on a regular, ongoing basis.

c. Development Board Policies for donations are established and mirror those of the Main Campus.

d. The Campus/Community impact study is being formulated and will be completed by the end of August 2000.

4. Project Management and Evaluation

a. The first Title V Grant Performance Report was completed on time and submitted to the U.S. Department of Education on April 28, 2000.

b. Meetings of faculty and staff to discuss the status of issues related to Title V were conducted in June and July 2000. Monthly meetings are planned.

c. University of New Mexico - Valencia Campus has received the Grant Award Notification from the U.S. Department of Education announcing the award of the full amount of $425,000 for year two of the project.

d. A Title V web page has been posted to the University of New Mexico - Valencia web site. This page is designed to provide information about Title V activities and is updated on a regular basis. This page can be viewed at http://www.unm.edu/~vctitlev. This report will be published to the web site. Minutes of the Title V monthly meetings will be published to the web site as time permits.
I. INSTRUCTION
Submitted by Dr. Reinaldo Garcia, Dean of Instruction

A. Significant Developments

1. Overall
   a. Continued implementation of outcomes assessment program.
   b. Continued assessment of programs of study and effectiveness of course scheduling.

2. Credit Programs
   a. Curriculum Development
      i. Approval of Associate of Science in Health and Fitness Education.
      ii. Creation of Associate of Applied Science in Electronic Engineering Technology (includes Semiconductor Manufacturing Technology program as well as Industrial Electronics and Communication Electronics).
      iii. Major revision of Associate of Applied Science in Information Technology (formerly Microcomputer Systems Support), with specialty areas and certificate programs in Internet Web Master, Systems Engineer, and Computer Programmer.
      iv. Revision to Associate of Applied Science in Business Management (Banking, Real Estate, and Computer Accounting were dropped).
      v. Major revision to Associate of Applied Science in Office and Business Technology, including new Medical Office and Legal Specialists specialty areas and certificates.
      vi. All other associates and certificates were revised to align with Main Campus programs and the UNM Core Curriculum.
   b. Labs and Equipment
      i. Replacement of PCs for CAD lab, which is in a new lab able to accommodate more students.
      ii. Creation of presentation rooms (two rooms in the new Student-Community Center, which contain projectors and other high-tech audio-visual equipment for integrating technology into instruction), (Title V equipped).
   c. Scheduling
      i. Continued implementation of use of rating matrix to hire adjunct faculty.
      ii. Progress towards automated scheduling and data reporting system.
   d. Out-of-District Instruction
      (administered by Community Education) in Socorro, Moriarty, Estancia and Magdalena and Central NM Correctional Facility.
      i. Socorro — Fall 1999: CIS 120T: 23; ENGL 100T: 23; MATH 120: 22; MATH 010T: 10; POL SC 200: 12. Spring, 2000: CIS 120T: 21; MATH 100T: 19; ENGL 100T: 19; MATH 120: 18; PSYCH 250: 18
      ii. Magdalena — Spring 2000: CIS 120T: 9; SPAN 101: 15
      iii. Mountainair — Spring 2000: CIS 120T: 14
      v. Moriarty — Fall 1999: CIS 120T: 14; CIS 120T: 10. Spring, 2000: CIS 120T: 19; CIS 120T: 19; EDUC 293T: 10; SPAN 102: 10
      vi. Total Out-Of-District Instruction: 329 (Fall 1999: 129; Spring 2000: 200)
      vii. NM Department of Corrections (Enrollment in this program is restricted to students incarcerated by the NM Dept. of Corrections. Enrollment at the beginning of the semester in the Fall academic courses was around 20 students per class. As few as 3 per class completed due to mandatory transfers of inmates. In the Spring CIS 101T was offered. Three sections made with 16 students per section. All students completed the short-term courses.): SOC 212; CIS 101T (1-credit hr.); PSYCH 105 (3 sections); C&J 221.
3. Non-Credit Programs

a. Adult Basic Education

   The program served 996 students over the year July 1, 1999-June 30, 2000.

   i. Open House in the fall: students spoke publicly about their experiences in and out of the program at the Open House where approximately 100 people attended.

   ii. GED Graduation in the spring: Graduation ceremonies were held in our new auditorium where 64 of our 166 Graduates “walked the line.” Awards for scholarships, Student of the Year, the Boleslo Lovato Citizenship Award and Employee of the Year were presented as well as special recognition for a seventy-eight year-old man who completed his GED this year. Our local newspaper, the Valencia County News-Bulletin, published an article on him and two other articles about graduation.

   iii. Our staff made various public presentations this year to inform community leaders about our services. We presented to approximately 25 people at the Belen Rotary, approximately 20 people at the Los Lunas Rotary, and approximately 50 people at the Moriarty Chamber of Commerce. We also made presentations to teachers and staff at elementary schools, approximately 50 at Valencia Elementary and 35 at Tome Elementary. In conjunction with the campus, we also gave an informative presentation to 260 employees at the Avonite plant in Belen.

   iv. This year we developed a ten-point recruitment plan that will be used each semester to inform the community about our services. We will rotate some of the activities in an effort to spread the word to different populations. Activities include printing flyers with our class offerings and distributing them in the community, staffing information booths at Walmart and at the County Fair and advertising in the UNM-Valencia Campus and Community Education schedules of classes.

   v. We continue to expand services in terms of both geographical location and types of classes offered. ESL, GED, GED in Spanish and citizenship classes were held at nine different sites, including two brand new community centers in Meadowlake and El Cerro Mission. The Valencia County Literacy Council assisted with child development at three of these sites to promote family literacy. We also worked with the Department of Labor and Su Parte to provide computer-based instruction to welfare recipients.

   vi. We also worked on changing our means of assessing students to meet the requirements for the National Reporting System (NRS). Currently, we use materials developed by our faculty through a mini-grant awarded by Project 353 in 1997. They are based on the idea of using alternative means to assess competencies. However, we are now required to use standardized testing for both pre and post-testing. We are exploring ways to meet the requirements without changing instruction.

b. Student Enrichment Center

   i. Tutorial Services

      a) Alternating biweekly sessions on various topics were offered on Fridays to SEC and ABE tutors or a small group enrolled in EDUC 293: Peer Teaching and Learning.

      b) Subject Specific Training included Math and English faculty members, as well as short presentations from the staff and several veteran tutors.

      c) More basic education, developmental studies, and college-level assistance in Spanish.

      d) New tutoring services in CAD and C++ programming.

   c. Library

      i. The number of titles cataloged was up 44% over last year to 1575.

      ii. The number of full text articles accessed online was up 132% to 10,261 articles.
ii. The number of full text articles accessed online was up 132% to 10,261 articles.

iii. As a result of the large increase in full-text articles being accessed, some statistics were lower:
   a) **Interlibrary Loan was down by 52%**. Requests for articles have been steadily dropping ever since we gained access to FirstSearch's two full-text databases a few years ago. In 1996-97, the second year that we had access to First Search and the first year that the statistics are available, 58% of all of our ILL requests were for periodical articles. This past year, during which we added three additional full-text databases, interlibrary loan requests for articles dropped to just 13% of the total.
   b) **Circulation dropped by 14%** as students realized they could get more current information on certain research topics via the online databases rather than by using books.
   c) Registration of library users dropped by 20% as both student and community users realized that they didn't have to register in order to use the computers.

iv. During the summer and early fall of 1999, the Library converted its patron files, circulation system, cataloging system, and online catalog to Innovative Interfaces, the system used by Main Campus (LIBROS).

v. The Library became a full OCLC user, which has meant that we now have access to the full interlibrary loan and cataloging databases. Our students are receiving their ILL's much quicker now.

vi. 21 new Gateway computers were installed in the Library in August 1999.

vii. In January 2000, the Library was relieved of its campus audio-visual equipment duties after 14 years!

viii. Four additional full-text databases were brought online this year: ProQuest, Newsbank, Wilson Biographies, and the Gale Academic Health Center. Due to increased requests for low-literacy and Spanish language books, a new section to bring together those books was created. It is called the ESL collection.

d. **Community Education**

   A total of 6,117 individuals participated in programs offered through Community Education Services, including credit, non-credit and cultural enrichment, during the 1999-2000 Academic Year. This was a 52% increase over 1998-99.

i. **Non-Credit Programs**

   A total of 2,634 students enrolled in non-credit Community Education programs for 1999-2000. All programs showed an increase with the exception of the Community Education Non-Credit classes, which decreased by about 4.5%. All other programs reflected healthy increases. Details are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Summer '99</th>
<th>Fall '99</th>
<th>Spring '00</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Community Education</em></td>
<td>402</td>
<td>187</td>
<td>302</td>
<td>891</td>
</tr>
<tr>
<td><strong>Contract Training</strong></td>
<td>12</td>
<td>36</td>
<td>16</td>
<td>64</td>
</tr>
<tr>
<td>*<strong>MIBC</strong></td>
<td>18</td>
<td>21</td>
<td>39</td>
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</tr>
<tr>
<td>Education to Go</td>
<td>2</td>
<td>4</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
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<td>11</td>
<td></td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Waste Station Transfer Training</td>
<td>45</td>
<td></td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

   Sub-Total for Non-Credit Courses: 1,063

*includes personal enrichment, personal development, computer training and programs for youth.

**Contracts**: Belen Police Dept., DVR, Solo Cup, ProFab

***funded by NM Dept. of Labor

Community Training Center 150 523 611 1,284

(American Heart Association approved curriculum for CPR Basic Life Support)

Gifted/High Potential Program:

   Same students Fall/Spring: Los Lunas & Isleta: 165

   McCune Charitable Foundation Accelerated-Enrichment Program:

   Same students Fall/Spring: Los Lunas, Belen & Isleta: 107

7
ii. Cultural Enrichment Series

- Summer Flora Tour, June 1999: 68
- Fall '99, Hispanic Heritage Night, Sept 18: 100; Featuring Flamenco Dance by "La Poli"; and Ritual to Nuevo Cancion by Dr. Cipriano Vigil (NM Endowment) Historic Lodgings of NM, Nov. 16: 50; Lecture by Sandra Lyn (NM Endowment)
- John L. Hatcher: Mountain Man, Oct. 14 and 15; Lecture by Bart Barbour (NM Endowment Chattaqua)
- UNM—Valencia Campus Chorus, Dec. 4: 500; With the Symphony Orchestra of Albuquerque and Albuquerque Boy Choir
- Walt Whitman, Dec. 7: 68; by Bruce Noll (NM Endowment Chattaqua) Spring '00
- In Honor of a Man and His Dream, Jan. 15: 300; A Salute to Martin Luther King
- Frederick Douglass—The Lion, Feb. 17: 84; By Don Perkins (NM Endowment Chattaqua)
- 17th Annual Valley Cultural Festival and Student-Community Center Ribbon-Cutting Ceremonies, Friday, April 28: 200; Featuring: Valley Visions Literary Magazine Awards; Music from the Andes to the Rockies by Tradicion; Celtic Music Concert by Sherilyn Weldon; Magic F/X by Joseph Green; Schuplatter (Bavarian Dance; by Mike & Janice Hacker); Faculty Art Exhibit; Tome Elementary School Writing Expo
- Saturday, April 29—9th Annual Family Fun Fest, Sponsored by the Village of Los Lunas, Children, Youth & Families; Valencia Campus Student Senate, Faculty, and Community Education Services at Daniel Fernandez Park in Los Lunas: 1,000+

Total Cultural Enrichment Series 1999-2000: 2,385

iii. Distance Education

Electronic Distance Education (EDEN)
- Upper Division & Graduate Courses received via satellite broadcast from UNM—Main Campus, Fall '99: 6; Spring '00: 9
- Teleconference/C-band Satellite Receptions:
- NM Dept. of Health/Family Nutrition Bureau: 30;
- English Literacy & Civics Education: 5;
Total Distance Education: 50

4. Faculty Assembly:

a. Officers for 1999 – 2000:

   a. President: Greg Candela
   ii. Vice President: Dubra Karnes-Padilla
   iii. Secretary: Cindy Chavez
   iv. A & S: Leroy Baca
   v. B & T: Alex Sanchez

b. Standing Committee Chairs for 1999 – 2000:

   i. Tenure and Promotion: Miriam Chavez
   ii. Faculty Professional Development: Miriam Chavez
   iii. Faculty Program Development: Julie Depree/Pam Perez
   iv. Curriculum: Cindy Chavez
c. Accomplishments for 1999 – 2000:

i. Building of a Faculty Assembly Homepage and Interactive Website (Vicinities).
ii. Strengthening the connections between FEC and Assembly Committees.
iii. Enhancing Curriculum, including co-sponsorship and planning of the "Curriculum Conference 2000 Conference," holding forums concerning the reduction in our course offerings and integrating our core curriculum into all of our degrees, etc.
iv. Reviewing of Faculty Assembly Handbook Committee procedures and the subsequent disbanding of this committee and transfer of its duties to the FEC.
v. Full support of our Dean's drive to hire more full-time faculty.
vi. Coordinated the faculty evaluation of the Executive Director
vii. Represented faculty on the Instructional Council, Advisory Board, Minority Recruiting Committee
viii. Strengthened communication and cooperation among the faculty, staff, and student associations
ix. Ended the year with a budget surplus, which was forwarded to FY 2000-2001 and which has finally allowed us to purchase a filing cabinet to store Faculty Assembly Records
x. Continued publication of the Faculty Assembly Newsletter, now in its tenth year.
xi. Assisted the Cultural Enrichment Committee and Community Education in producing and Presenting the Annual Valley Cultural Festival

B. Significant Plans and Recommendations

1. Overall
   b. Update Faculty Procedural Handbook and publish it to the world-wide web.
   c. Create training programs for workforce development including welfare reform.
   d. Enhance and expand business, industry and other agency partnerships to insure currency of vocational programs.
   e. Improve communications with main campus departments and other receiving institutions to insure effective student transfer.
   f. Enhance and expand business and industry training programs.
   g. Improve campus-wide data collection and information management.
   h. Integrate technology into the classroom through faculty training, presentation rooms, and inclusion of A/V equipment into other classrooms.
   i. Implement new developmental studies laboratory.
   j. Continue to improve internal communications/teamwork/collegiality:
      a) Share information to improve effective communications through informal and formal networks and by publishing important documents, such as the Campus Catalogue, the Faculty Procedural Handbook, and proceedings of the Instructional Council and Strategic Planning to the web.
      b) Provide workshops, seminars, such as ongoing Covey training, to improve teamwork and encourage collegiality campus-wide.
      c) Support Staff Association efforts directed at improving communication and morale.
      d) Provide easily accessible information/training on setting up email and web pages, including faculty training for viewing course enrollments.
2. Credit Programs
   a. Create an advisory board for Criminal Justice.
   b. Assess effectiveness of all credit programs.

3. Non-Credit Programs
   a. Adult Basic Education
      ii. It is planned to continue our work on assessment with the assistance of two coordinators, one for GED and one for ESL. Setting realistic student goals and helping them meet those goals will play a major role in this process. Our level of accountability to funding agencies and students will increase. In addition, a new data entry person will be hired to record and report our findings.
      iii. Program expansion remains a primary goal. We have a strong desire to do contract training with local businesses and correctional facilities. Other agencies in Valencia and Torrence County are requesting services.
      iv. Another goal is to increase the amount and the quality of technology in instruction. Instructors are being trained and encouraged to use more technology, especially computers, in their classrooms. Video units, overhead projectors, laptops, printers and a computer projector are available for all sites.

   c. Student Enrichment Center
      The Center will be reorganized, in part with Title V funds, as follows:
      i. A new coordinator will be hired to supervise tutorial services, equal access, and a new developmental studies lab.
      ii. The SEC computer lab will be relocated to a new location. Construction is funded with Title V funds.
      iii. The "former" SEC lab will be converted to serve as a lab for developmental studies students. Remodeling and computers will be funded through Title V funds.
      iv. Offices formerly used by Tech Prep and SEC will be reconverted to serve as a developmental studies classroom. Remodeling and computers will be funded through Title V funds.
      v. A new Instructional Assistant will be hired to assist students in the developmental studies lab as well as to assist with maintenance of computer systems in the lab and classroom.

   d. Library
      i. Renovate the room that has been used for aerobics so that it can be used as a Library Instruction classroom.
      ii. Pursue moving Judy Marquez from a grade 6 Library Technician to a grade 7 Library Information Specialist I.
      iii. Pursue joining the National Networks of Libraries of Medicine so that our Library might be eligible for grants related to consumer health acquisitions.
      iv. Using the funds made available by ABE, increase the low literacy and Spanish language books in the Library, now located in the new ESL section.
      v. Continue to send staff members to relevant and cost-effective professional conferences and workshops.
      vi. Complete the revisions to the Library's policy and procedures manual sections impacted by the changeover to LIBROS.
      vii. Implement the Library's new computer use policies and continue to monitor printing costs.
e. Community Education

Although the number of individuals participating in Community Education programs has increased dramatically, the non-credit classes, i.e., personal enrichment, personal development, computer training and programs for youth, have decreased once again (4.5%).

i. The Department will concentrate efforts on program development to include non-credit community education, contract training, cultural enrichment series and out-of-district instruction. Our goal is to develop new programs, which should increase enrollment translating into increased revenue.

ii. Workforce Development is the most exciting new trend in continuing education today. The Department will work closely with the Dept. of Labor and with Business & Technology to create and implement workforce training programs.

iii. The Community Training Center (CTC) has been part of Community Education for about 3 years. Ginny Kay Massara was the Coordinator until June 2000 when she moved to Colorado. Sheran Dodd, is the new on-call Coordinator working approximately 10 hours per week. Sheran is an EMT from Belen, she knows the area well, and has many new ideas to develop and offer CPR programs to the community, including contract training to business & industry, governmental entities, schools, etc. In addition, she will develop a First Aid program that we will implement.

C. Appointments to Faculty and Staff

2. Staff - Josie Sanchez, .50 Administrative Assistant I, Academic Support.

D. Separations from Faculty and Staff

1. Faculty - None
2. Staff - None

E. Tenure and Promotion Decisions

1. Advancement to Professor - None
2. Achievement of Tenure and advancement to Assistant Professor, Celestyn Brozek, Ph.D., Associate Professor of Chemistry.
3. Advancement to Code 4
   a. Julie DePree, Ph.D., Assistant Professor of Mathematics.
   b. Toni Black, M.A., Assistant Professor of Computer Information Systems.

F. Publications, Papers, and Notable Achievements

1. Reinaldo A. Z. Garcia, Associate Professor of Computer Information Systems and Dean of Instruction:
   a. Elected as Vice President of Rio Rancho Schools' Board of Directors.
2. Kris Warmoth, Librarian:
   a. New Mexico Library Association (Secretary of the Association, Chair of NMLA Conference Program Committee, and member of NMLA Public Relations Committee).
   b. New Mexico Academic and Research Librarians (Advisory Board member).
   c. New Mexico Consortium of Academic Libraries (member).
3. Kris White, Information Librarian:
4. David Coker, Lecturer in Fine Arts and Chair of the Fine Arts Department:
   b. Faculty Exhibit, Art Department Foyer Gallery, Valley Cultural Festival, UNM-Valencia Campus, Tome, New Mexico.

5. Daniel Davis, Adjunct Lecturer in Fine Arts (Music):
   a. Produced the music for UNM Main Campus' production of The Christmas Carol.

6. Frank Melcori, Adjunct Lecturer in Fine Arts (Theatre):
   a. Director of the Italian American Home Theatre, which produced a play by Pirandello, 'The Man with the Flower in His Mouth,' (eight weekend performances) Albuquerque, New Mexico.

7. Donald Woodman, Adjunct Lecturer in Fine Arts (Photography):
   b. Collaboration with Judy Chicago, Sixth Exhibit of the Holocaust Project, National Traveling Exhibition, Lehigh University Art Gallery, Bethlehem, Pennsylvania.
   c. Attended International Conference, Representation in the Holocaust, Sponsored by the Berman Center for Jewish Studies, Lehigh University, Bethlehem, Pennsylvania.
   d. Photography Fest 2000, buried exhibition, Lawndale Art Center, Houston, Texas.
   e. Coordinated and produced photos for, Judy Chicago an American Vision by Edward Lucie-Smith, (published April, 2000).
   f. Group Invitational Show, Jewish Artists on the Edge, Marian Art Center, College of Santa Fe, Santa Fe, New Mexico.

8. Pamela Etre-Perez:
   a. Served on the Workforce Investment Act Regional Board as a representative for Adult Basic Education as well as serving on the State ABE Advisory Committee, the NM State RFP Committee, and Sen. Heather Wilson's Council on Literacy.
   b. Attended all ABE directors meetings held during the year and participated in ABE Day at the State Legislature.
   c. Held the position of board president for the Valencia County Literacy Council.
   d. Spoke on literacy to the United Way and the Belen Rotary Club.
   e. Presented to Belen High School and Moriarty Chamber of Commerce and coordinated taping of a literacy piece for KOAT TV.
   f. Maintained membership in four professional organizations, NMAEA, TESOL, AESA, MPAEA and attended two conferences, the NMAEA annual conference and American Educational Research Association in New Orleans.
   g. Presented at two Nuestras Voces conferences for ESL students and a BLAST retreat for student leaders.
   h. Traveled to Puerto Rico during the summer to increase her Spanish language proficiency and cultural awareness.

9. Tina Shiplet:
   a. Is the representative for the Central Region on the NMAEA board and chaired the scholarship and award committee for this board.
   b. Attended the NMAEA annual conference where she presented with a panel on the topic of student leadership in the classroom.
   c. Attended NMCHE's conference on assessment and retention.
   d. In the interest of promoting student leadership, she assisted with the BLAST Leadership Institute and wrote an article for BLAST's magazine, Echoes.
   e. Regularly attended ABE directors meetings and participated in ABE Day at the state legislature.

10. Miriam Chávez:
    Awarded "Teacher of the Year" for the Arts & Sciences Division.

11. Toni Black:
    Awarded "Teacher of the Year" for the Business & Technology Division.
12. Richard Melzer:

13. Michele Diel
   a. Co-Organizer NM CETP Conference held at UNM Valencia Campus October 1999
   b. Equal Opportunity Committee Chair for American Mathematical Association of Two-year Colleges. Directed publication of EOMC Newsletter.
   e. Attended Developmental Studies Conference through Title V Grant in Denver, Colorado, October 1999
   f. Served on Review Committee reading proposals for 2000 AMATYC Conference.
   g. Program Chair for New Mexico Mathematical Association of Two-year Colleges held at UNM Valencia Campus May 2000. Attended conference.
   h. UNM Valencia Campus representative to UNM Undergraduate Mathematics Committee. Transitional Math Team Sub-Committee member.
   i. UNM Valencia Campus Mathematics and Statistics Department Chair Teacher of Teachers Chair for NMMATYC
   j. As a member of the New Mexico Network for Women in Science and Engineering, helped to plan the Expanding Your Horizons conference, which encourages girls in grades six through 12 to pursue careers using mathematics and science.
   k. Member of UNM Teaching Enhancement Committee

14. Julie DePree
   b. Attended, presented and presided at the 1999 AMATYC Conference in Pittsburgh, Pennsylvania.
   d. Received Mathematical Association of America Teaching Award.
   f. Worked at National Science Foundation in Washington, DC as Grant Proposal Reader in July 2000.
   g. Awarded the Eisenhower Grant to work collaboratively with TVI to enhance Teacher Prep courses.
   i. Attended Southwest Section meeting of the MAA March 2000
   j. Accompanied class to Tome to attend the World's Largest Math Event
   k. Valencia Campus rep to Faculty Senate at UNM
   l. Member of Admissions and Registration Committee at UNM

15. Mary Robinson
   a. Served as Presider Chair for American Mathematical Association of Two-year Colleges
   c. Organizer for Panel Discussion at the 1999 AMATYC Conference
   d. Served on Review Committee reading proposals for 2000 AMATYC Conference.
   f. Served on Two-year College Committee for Mathematical Association of America
h. Performed with musical group Tradición in Valencia Campus and Valencia County functions.
   i. Built, managed and maintained UNM Valencia Campus, and NMMATYC listservs, and webpages.
   i. Designed and published online proposal forms for AMATYC and NMMATYC conferences.

16. Robert Bristol
   April 2000 – received a grant from partners in Education to travel to Russia and presented at a conference at Volgograd Pedagogical University. Also visited and taught at several gimnazia.

17. John Crawford
   Conducted panel discussion “The Alternative Press in the Midwest,”
   Associated Writing Programs, Kansas City, April 2000.

18. Michele Le Beau
   a. Member, Board of Directors for NM Higher Education Assessment Association.
   c. Facilitated and attended NMComp Conference, Albuquerque, NM April 2000.
   e. Participated in UNM’s Communication and Journalism Department PFF grant, March 2000.
   f. Presentation to NMHEAC Conference on Assessment and Student Retention, Albuquerque, NM, February 2000 (“Assessing Writing for English 100 and 102 – Skills and Critical Thinking”).
   g. Attended NMHEAC Conference on Assessment and Student Retention, Albuquerque, NM, February 2000.
II. STUDENT SERVICES  
Presented by Donna Romero, Associate Director for Student Services

A. Significant Developments

Overall, the Department has focused on Student Retention and Advisement efforts, aided by the hiring of a full-time retention counselor, a full-time PROGRESS (Electronic advising) coordinator, and funds to assist in various aspects of retention through Title V funding.

1. Admissions/Registrar’s

   a. In an effort to enhance awareness about the Valencia Campus, Admissions/Registrar’s Office staff has been actively involved in informational workshops conducted at area high schools.

   b. Off site registration was a great success in 1999/2000, with courses offered at Moriarty, Mountainair, Magdalena, Socorro, and Estancia and some 399 students enrolled. Courses at the Los Lunas Schools and the Central New Mexico Correctional Facility were also offered.

2. Advisement Services

   a. Retention efforts have been implemented to specifically target new students for 99/00. As students registered, a follow-up 15-minute appointment was scheduled for the first two weeks of class in order to ensure that scheduling, Financial Aid, bookstore accounts, etc. were in place. Students were then scheduled to see advisors at the 6-week point to again check their progress. Continued checks (early alert and attendance referrals) were also in place to maintain contact with students throughout the semester.

   b. Regular advisement training/meetings were held throughout the academic year to keep the department updated. Issues specific to retention, attendance, degree programs, transfer students and scholarship requirements were addressed. Department Chairs and other campus representatives from various departments attended the meetings to share specific program/departmental information and review any changes.

   c. Advisors gave Study Skills presentations to various ACAD courses. They also participated in off-campus presentations at Los Lunas and Belen schools. Throughout the academic year, the advisors worked with the Dean of Instruction on curriculum as it related to the recent implementation of the UNM Core Curriculum.

   d. A pilot peer advisement program was initiated during the Summer 2000 semester. Peer advisors are generally workstudy students who have completed over 30 credits who have at least a 2.5 g.p.a. They provide new students with information on admissions, placement testing, new student orientation etc. They discuss “student success tips” with the student based on a checklist. The student then sees the academic advisor for course selection and program requirements, following which, the peer advisor helps the student build their schedule. Thus far the program has been effective. As the semester continues, the program will be reviewed and improved based on feedback from students, peer advisors and academic advisors.

   e. “El Compañero” the former UNM-Valencia Student Handbook was replaced by the “Success Guide for New Students” handbook. The end result is a much more appealing handbook with updated and more relevant information. It will be provided to all enrolled students free of charge at orientation, workshops as well as upon request.
the Student Services staff and four additional on-call advisors were hired to keep up with the
demand.

g. The Student Services' staff have been heavily involved in assisting the Dean of Instruction to
proof the catalog for readability, clarity of the academic program information, and general
information.

3. Career Services

a. During the fiscal year 1999-00, Career Services continued to experience personnel challenges in
the areas of Cooperative Education services and VA advising to the Campus. The position of
Cooperative Education Coordinator (.5 FTE) was filled on August 16, 1999 and remained as such
until that person resigned to accept a full time position as the UNM-Valencia Campus Donor
Relations Manager effective March 27, 2000. The .5 FTE Cooperative Education Coordinator
position was reduced to a grade 8 and combined with the .5 FTE Career Services Administrative
Assistant position for the fiscal/academic year 2000-01. The VA advising responsibility reverted
to the Academic Advising area of Student Services and was assumed by a Senior Academic
Advisor effective April 7, 2000.

b. Career Services made some 3,267 contacts via various activities and programs including Career
Day (our sixteenth and largest yet); Career exploration with high school students from Belen, Los
Lunas, Mountainair, and Estancia, and career exploration activities with students participating in
this campus' Adult Basic Education and SU PARTE programs. Additional activities included
presentations to high school seniors visiting the campus for two “walk-about” activities; job skills
seminars for UNM-Valencia Campus students, and Career counseling for both campus students as
well as members of the community. Career Services staff also presented to students during
student orientation and made specific presentations to developmental skills classes. Career
Services also conducted its annual "Young Scientist Day" by hosting 14 fifth grade "at-risk"
students from Isleta Pueblo Elementary School. The students participated in hands-on activities in
the biology and chemistry labs. The Career Counselor represented the campus at career fairs held
by the Mountainair and Estancia High Schools. Contacts were realized from Valencia Campus
students seeking Cooperative Education placement, part time jobs, and work-study positions.
Additional contacts resulted from providing Academic Advising, Counseling, VA Advising, and
JTPA advising. Career Services also presented this campus' third Career Informational Seminar on
April 20 in which two employers presented information on resumes, interviewing and hiring
practices to our students. Five faculty members representing all of our vocational and academic
programs were also present to discuss employer concerns and they look for in new employees.

c. Career Services assumed responsibility for supervision of the newly created Title V Counselor 1.0
FTE position on April 10, 2000. The Counselor is responsible for addressing the needs of first
year “at-risk” students in order to increase retention of this population and help them to achieve
the educational success they desire. During the April, May, June time frame the Counselor had
131 contacts with students. The Counselor resigned effective June 15 to take a position in
Albuquerque. Career Services immediately initiated a new search and was able to hire a new
Counselor to fill the position effective July 24, 2000.

d. Career Services (career Counselor) conducted our first Alcohol Screening Day on April 6, 2000.
Sixty-four people filled out screening forms and there was a very positive response from the
students toward this activity.

e. Cooperative Education placed 39 students (36 in paid positions) with 31 different employers
including: DP Signal Systems, Sandia National Labs, Los Lunas Schools, the State of New
Mexico, Ranchers Bank, Pueblo of Isleta, Avonite, Inc, as well as other schools and businesses in
the area. Most exciting was the placement of two students with HACU summer internships in
Lufkin, Texas with the USDA and Sioux Falls, SD with NASA. These students were placed in
positions associated with their majors in Computer Science. We are proud that our students are
very capable of competing nationally for these positions. Career services will continue to emphasize this program during the coming year.

f. The combined Spring, Summer and Fall 1999 graduate placement survey reveals that of the forty-eight percent of our vocational program graduates who responded, sixty-eight percent were continuing their education, while sixty-three percent reported working in jobs (full or part time) related to their training.

g. Career Services will be participating in the Carl Perkins Grant during the new fiscal year in three activities:
   i. providing job shadow or volunteer experience to new vocational program students in their chosen career field;
   ii. providing employment skills assessments and guidance to vocational program students, and
   iii. conducting a vocational technical job fair and seminar. Career Services will also be providing Career Counseling to Vocational students.

4. Committees

   a. Scholarship Committee

      i. Scholarships awarded:
         a. Lottery 279 $103,788
         b. Connection 55 $20,460
         c. 3% New Mexico 70 $33,026
         d. Leg. Endow. 9 $3,736
         e. Bonifacio & Eloisa Tabet 5 $750
         f. Student Government 32 $13,200
         g. Tibo Chavez History 1 $1,000
         h. Los Lunas Jr Miss 1 $816
         i. Foundation 9 $4,000

         TOTAL 461 $180,776

   j. Childcare awards 107 $19,757

b. Student Affairs Committee:

   i. Eliseo Montoya is the chair of the Student Affairs Committee. The following is a compilation of the number of students who submitted appeals to the committee:
      a. Appeals submitted: 194
      b. Appeals granted: 176
      c. Appeals denied: 18

All appeals were financial aid related.

5. Financial Aid

   a. The number of students awarded some type of financial aid for 1999-2000 hit an all time high of 1,116, compared to 825 the previous year, resulting in an increase of 35%.

   b. Students awarded financial aid:
      May 1999: 825
      May 2000: 1116
c. Workstudy allocations:
   July 1999: 73
   July 2000: 61

d. The Financial Aid Office has been involved with other departments in student services in offering new student orientation sessions. Off-site recruitment efforts will continue to be a part of the duties of the office. The office staff will continue to conduct excellent recruitment/retention services to students through workshops, orientation and off-site recruitment efforts.

6. GED

a. Thirty-one test dates were scheduled for the 1999-2000 academic year. One hundred and forty-eight testers passed, while 77 failed. Twenty testers have yet to complete the battery.

b. An advisement plan for GED Testing was implemented in September 1999. Academic advisors see all GED candidates and discuss Financial Aid, Career Services and academic programs with the candidates.

7. JTPA Program

a. The JTPA program coordinator accepted a full time position as he Development Officer at UNM-Valencia Campus on March 25, 2000. The program continued through June 30, 2000 under the direction of Career Services and was terminated when JTPA was transferred to the new WIA (Workforce Investment Act). The WIA program became the responsibility of the Central Regional Board of New Mexico effective July 1, 2000.

b. The following is a list of completed assessments, graduates, and total of all participants involved with the Job Training Partnership Act Program during the 99-00 fiscal year.

   i. Completed Objective Assessments Totals
      a) Department of Labor for Valencia, Torrance and northern Socorro Counties, as well as HRDI, TAA and Stay-in-School Programs 256

   ii. JTPA Classroom Training (CRT) Participants
       a) Summer 1999  20
       b) Fall 1999    27
       c) Spring 2000  20
       Total Participants  67

   iii. Graduates
        a) Summer 1999  1
        b) Fall 1999    4
        c) Spring 2000  4
        Total Graduates  09

c. The WJA (Workforce Investment Act) became effective July 1, 2000 and the New Mexico Department of Labor is currently processing all students who are transition into the WJA program. Seven students have decided to continue and are being certified for their classroom training through the WJA. The loss of grant funding has resulted in the termination of a .5 FTE JTPA Coordinator and a JTPA assistant (student employee .5 FTE) positions.
8. New Student Orientation

Last year's new student orientation program (NSO) was reviewed and modified based on evaluations from students and presenters. All new students, transfers and re-admits with less than 26 credit hours were again required to attend a NSO session. Students are subsequently required to return to the campus for an intensive advisement session prior to registration. Several on-call advisors were hired to accommodate the demand of walk-in as well as appointment students.

A total of 21 orientation sessions have been held this summer, (four sessions remain) and 289 of our entering students have participated. Student Services revised their power point presentation to include career assessment as part of the orientation session. The requirement that students attend orientation and advisement sessions prior to registration proved difficult to enforce toward the end of the summer. Also, unintentionally, the orientation sessions were much smaller this year, however, the smaller groups have provided a very inviting atmosphere for student comfort level. Many questions were asked and open dialogue was encouraged.

Feedback from students attending the orientation indicated good to excellent ratings in terms of information learned and provided. Student Services staff continues to revise the program throughout the summer, updating information and improving the quality of presentations.

9. Outreach and Recruitment

a. Teams from Student Services gave presentations on career planning, financial aid, admissions, advisement, and registration to senior English classes at Socorro, Belen, and Los Lunas High Schools. Presentations included information about the Valencia campus, and included general educational information.

b. Participation in holiday parades. The visibility of the campus in the holiday parades, in collaboration with Student Government, gave the campus a wonderful opportunity to inform the community about the campus.

c. Senior Walkabouts were conducted in both semesters, as was and a Middle School/High School Counselor's Luncheon.

10. Placement

a. During the 1999-2000 academic year, Student Services scheduled 50 COMPASS placement testing sessions for incoming and returning students. Test sessions were offered during the day, evenings and Saturdays in order to accommodate as many students as possible. 832 COMPASS placement assessment test were administered.

b. Of those who tested in math, 69.8% tested into math 010, 24.5% tested into math 100, 3.8% tested into math 120, 0.7% tested into math 121/150, 1% tested into math 123, and 0.3% tested into math 180 (COMPASS).

c. Of those who tested in reading, 23.8% were at ABE level, 28.5% tested into ACAD 100, 25.5% tested into ACAD 101 and 22.2% tested out of reading (COMPASS).

c. In English, 13.7% were at the ABE level, 25.6% tested into English 010, 31.4% tested into English 101, and 29.3% scored high enough to enroll in English 101 (COMPASS).

d. In April 2000, the Math Department added an additional assessment tool for use in conjunction with COMPASS in the hope of evaluating the accuracy of the COMPASS current cut-scores. To date, results indicate that a change in the scores is needed for improved accuracy.
11. ESL

a. Student Services continues to provide academic advisement to ESL students. Advisement sessions are conducted in Spanish when necessary. The Financial Aid Office keeps a sufficient supply of FAFSA forms in Spanish. Many students take advantage of this Spanish version form.

b. Student Services is staffed with bilingual administrators, advisors (both permanent and on-call), work-studies and administrative assistants. The staff has provided a very welcoming and inviting atmosphere for the ESL students.

c. In Fall, 1999, 7 ESL students were nominated by Student Services for the Who's Who Award.

d. In an attempt to create a learning community, 9 ESL students were placed into Sociology 101 with Marie Cleavenger. The students received the following grades: A, C, C, WP, B, A+, B, A+ and A. Marie Cleavenger was very receptive to the idea of learning communities and has encouraged Student Services to continue to refer ESL students to her. This was a challenging course for many of the students and as a group they did exceptionally well.

e. Student Services participated in a faculty development session focusing on ESL issues. An ESL student was invited to speak at this session, and share her experiences at UNM-Valencia Campus. The discussion focused on ESL course placement and an overview of the current services offered to those students with limited English abilities.

12. VA

Twenty-six VA students who certified to receive educational benefits for the Summer, 1999 session, 43 certified for the Fall, 1999 session, and 49 for the Spring, 2000 session. Eight VA students were nominated by Student Services for the ‘Who’s Who’ Award. UNM-Valencia Campus had two VA work-studies during the 1999-2000 academic year, each working approximately 20 hours/week.

B. Enrollment Data

Listed below are enrollment and graduation figures for the 1998-99 academic year:

<table>
<thead>
<tr>
<th></th>
<th>Summer 1999</th>
<th>Fall 1999</th>
<th>Spring 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headcount</td>
<td>640</td>
<td>1648</td>
<td>1624</td>
</tr>
<tr>
<td>FTE</td>
<td>423</td>
<td>986</td>
<td>912</td>
</tr>
</tbody>
</table>

Enrollment at the Valencia Campus increased this past year. These figures represent an increase of 5.8% in headcount and an 8.2% increase in FTE from Fall, 1998 to Fall, 1999. Also represented from Spring, 1999 to Spring, 2000 is an increase of 2.59% in headcount and 1.79% in FTE.

<table>
<thead>
<tr>
<th></th>
<th>Summer 1999</th>
<th>Fall 1999</th>
<th>Spring 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Degrees</td>
<td>4</td>
<td>29</td>
<td>50</td>
</tr>
<tr>
<td>Certificates</td>
<td>0</td>
<td>4</td>
<td>7</td>
</tr>
</tbody>
</table>

C. Student Senate

The Student Senate has been a very flexible and cooperative team this year. They continue to learn new policies and procedures with each project they coordinate. As in previous years, they provide pizza during Welcome Back days, sponsor a Halloween Carnival and help new student organizations in their formation and implementation. The Senate was involved in several activities including a blood drive, a yearbook, the Excellence in Teaching Award, participation in the Valencia County Fair Parade and local Electric Light parades and provide entertainment at the annual Valley Cultural Festival, sponsored by the Valencia Campus.
D. Significant Plans and Recommendations

1. On-going training for staff.

2. Students can now apply for financial aid and access all financial aid awarding on the web. They can also access documents for file completion.

3. Student Services staff will continue to concentrate efforts on recruitment and retention of students.

4. Off-site workshops will continue to be a big part of recruitment efforts.

5. Continued efforts in the evaluation of Student Services programs using surveys and focus groups.

E. Appointments to Staff

1. Lois Hansen, Cooperative Education Specialist, JTPA Coordinator, VA Certification, August 1999.


3. Terry Romero, DARS (Title V), January 2000.

4. Joanna Cummings, Counselor/Social Worker (Title V), April 2000.


6. Lucy Sanchez was promoted to Manager, Enrollment Services, in March 2000.

F. Separations from Staff


G. Outside Professional Activities

1. Donna Romero, Associate Director for Student Services:
   e. 3rd Annual New Mexico Student Affairs Symposium, Albuquerque, NM, May 2000.

2. Joanne Silva, Sr. Academic Advisor:
   a. NACADA National Conference, Denver, Co, October.
   b. COMPASS NM Conference, UNM-Valencia Campus, Tome, NM, December 1999.
   c. COMPASS Annual Regional Conference, San Antonio, TX, May 2000.

3. Frances Duran, Administrative Assistant III:
   b. How To Be A Great Communicator Seminar, Albuquerque, NM, September 1999.

4. Lucy Sanchez, Registrar:
   e. 3rd Annual New Mexico Student Affairs Symposium, Las Cruces, NM, May 2000.
   f. New Mexico Association of Collegiate Registrars and Admissions Officers Conference, June 2000.

5. Joseph Burgess, Administrative Assistant II:
   a. Completed Associates Degree in General Studies.
   Pursuing Career Ladder towards Administrative Assistant III.
6. Terry Romero, Coordinator of Registrations (Title V):

7. Michele McGhee, Office Assistant:
   a. Pursuing Career Ladder towards Administrative Assistant.

8. Raymond Rondeau, Counselor and Coordinator for Career Services
   a. New Mexico Placement Council quarterly meetings, Southwest Indian Polytechnic Institute,
      Albuquerque, NM, October 1999; TVI, Albuquerque, NM, January 2000.

9. Lois Hansen, Cooperative Education Specialist, JTPA Coordinator:

10. Nancy Moore, Administrative Assistant II:

11. Dixie Dennison
    b. National Student Loans Database System Workshop, Albuquerque, NM, May 2000

12. Eliseo Montoya, Sr. Financial Aid Advisor:
    a. Continuing pursuit of Master's degree in Counseling.
III. OFFICE OF BUSINESS AND FINANCE
Presented by Andrew Sanchez, Associate Director Business Operations

A. Significant Developments

1. Campus Issues
   a. Construction of the Student/Community Center was completed on May 25, 2000. The campus wide HVAC renovation is also essentially complete with only minimal testing and balancing remaining. The Bookstore, Small Business Development Center, Community Education, and the Department of Labor have all moved into the new facilities. The Multi-Purpose room has also been utilized, for our graduation ceremony, several other internal and external functions. The Wellness Center will be operational by the Fall 2000 semester and the Child Care Center is expected to be operational by year’s end.
   b. Work on the Five-year Master Plan was completed on June 25, 2000. The planning company of Architectural Research was hired to assist with the process. The Master Plan has been submitted to the Commission of Higher Education.

2. Business Office
   a. To improve cash handling procedures, the Cashier’s Office took over cash collection duties for Community Education in late Fall of 1999. Community Education has now moved to a new building with cash handling duties designed into the facility, and the Community Education staff have received additional training, including a list of procedures to follow. As a result, cash handling duties will be returned to the Community Education Department for the Fall 2000 semester.
   b. In an effort to improve customer service, the Business Office created a Web site that contains information on all Business and Finance departments as well as policies, forms and links to the Main Campus Business Office Policies and Procedures, (Big Red).

3. Budget
   a. Efforts continue for an open budget process involving the entire campus together with concerted efforts to link the budget to the strategic plan.
   b. The size of the campus budget continues to grow. The FY 99-00 budget increased by over 11% over FY 98-99.

4. Auxiliary Enterprises
   a. The changes implemented in the Bookstore continue to improve all aspects of Bookstore operations. The new structure was implemented for a number of reasons, including inventory control and management as well as to have store supervision backup. These changes resulted in a minimal inventory adjustment, better service, reduced costs to students, and increased revenue for the Bookstore.
   b. As a result of the new construction and renovation to the Student Center, the Cafeteria remained displaced to temporary facilities during the first quarter of the year. Food preparation was completed in a temperature-controlled bay at the Physical Plant. Food was then served from a converted office in the Student Center. Because the facilities were temporary, the menu was limited to sandwiches and pizza purchased from the Pizza Hut Corporation. The Cafeteria re-occupied the newly renovated kitchen area by the beginning of the Fall semester.

5. Physical Plant
   a. The Physical Plant staff was increased by 2.5 FTE as a result of the additional square footage added by the Student/Community Center Facility coming on-line.
B. **Significant Plans and Recommendations for the New Fiscal Year**

1. Complete renovation of the Learning Resource Center. The renovation will add two developmental studies computer labs, and one library studies computer lab.

2. Complete testing and balancing of the campus wide HVAC system. The new system includes a central cooling plant with thermal storage for increased efficiency and lower operating costs.

3. Thoroughly train the Physical Plant staff in the maintenance of the new HVAC system. It is expected that our own maintenance department will do most of the maintenance of this new system and only require outside vendors for major repairs. Begin renewal and replacement work on the campus roofing systems.

C. **Staff Changes**

1. **Additions to Staff**

   Walter Prahl  
   James McGee  
   Robert Maxwell  
   Tod Singeltary  
   Jon Bernard  
   Cynthia Martin  
   Elsa Aguirre  
   Norma Casas  
   Rebecca Luna  
   Leticia Tellez  
   Billie Gonzales  
   Ralph Miramontes  

   Security Officer  
   Security Officer  
   User Support Analyst I  
   User Support Analyst II  
   Systems Analyst II (Title V)  
   Branch Human Resource Representative  
   Custodian  
   Custodian  
   Custodian  
   Custodian  
   Custodian

2. **Staff Departures**

   Kevin Hobbs  
   Rosanna Martinez  
   Robert Davis  
   Frank Parra  
   Carlos Montoya  

   Instructional Assistant  
   User Support Analyst I  
   Custodian  
   Security Officer  
   Security Officer

D. **Human Resources Office**

a. Kathy Meech, Branch Human Resources Representative made a presentation to the Valencia Campus Advisory Board regarding minority recruitment on January 20, 2000, after a Minority Recruitment Committee had been formed to review hiring practices for Valencia Campus. It was determined that Valencia Campus was complying with all necessary Affirmative Action procedures and making honest effort to recruit underutilized groups. The Committee made suggestions for further possibly recruiting activities, several of which were incorporated.

b. Kathy Meech resigned from her position as Branch/Division HR Representative effective March 21, 2000.

c. Cynthia Martin was hired to replace Ms. Meech, effective May 24, 2000.
d. In late June 2000 the Human Resources Department was moved to a larger space in the Learning Resource Center. This space provides excellent accommodation to the public and ensures a greater measure of confidentiality for those who are seeking assistance with employee relations issues.

e. In response to the suggestions of the Minority Recruitment Committee of the Valencia Campus Advisory Board, a part-time recruiter will be hired September 1, 2000, to work under the Branch/Division HR Representative and to focus specifically upon attracting minority applicants.
IV. PROGRAM DEVELOPMENT
Presented by Olga Gandara, Associate Director, Program Development

The Associate Director, Branch Program Development reports directly to the Executive Director of the branch campus and assists in the general administration of the branch campus in activities related to strategic planning, grant funding and special projects. The Associate Director is responsible for management oversight of the Small Business Development Center, the School-to-Work Program, Tech-Prep Program, the Welfare Reform Program entitled "SU PARTE" and the Welfare to Work Program.

A. Significant Developments

1. Special Projects

a. The Executive Director, and Associate Director, Program Development assisted by the Associate Director, Student Services served as the principal writers for the Title V - Developing Hispanic Institutions grant, which resulted in a five-year $2.1 million award to UNM-Valencia Campus.

b. UNM Valencia Campus, the "SU PARTE" (Welfare Reform) program, and the Belen Pilot Club co-sponsored a half-day seminar program for Secretaries and Professional Women, in Valencia County. All presenters donated their services. Participation of "SU PARTE" clients was facilitated through financial support provided by the UNM-Valencia Campus Development Fund and the "SU PARTE" program.

2. Grants

a. UNM-Valencia Campus received a Title V, five-year award totaling $2.1 million from the U.S. Department of Education. The Campus will use the funds over the next five years to improve the retention of students, develop and implement a management information system, enhance instruction through the use of technology and establish a development office dedicated to increasing alternative funding sources needed to support the mission of the institution.

b. SBDC received $136,817 to operate during the 2000-2001 fiscal year.


d. The School-to-Work program received fourth year funding of $140,000. This is approximately $50,000 above the anticipated projected award.

e. The Welfare Reform "SU PARTE" agreement is extended through June 30, 2000. Total funding to operate this fiscal year is $583,266.66.

3. Small Business Development Program (SBDC)

a. The current SBDC Director is Roberta Scott who was hired in February 1999. Cindy Browning is the Business Advisor. The Administrative Assistant is Arlene Stump. Roberta and Arlene earned their SBDC certification in 1999. In February 2000, at the Governor's Mansion, Roberta and Arlene were presented with their NMSBDC five-year pins.

b. During the fiscal year of 1999-2000, the UNM-Valencia Campus SBDC served 217 Clients making a total of 582 hours at an average of 2.7 hours.

c. The SBDC held 13 workshops attended by 64 people.

d. The Center helped seven clients obtain a total of $327,000 of capital during the year.
e. 23 businesses were opened, and a total of 76 new jobs were created.

f. Of the clients served by UNM-Valencia Campus SBDC, 46 percent were women. 33 percent were men and 21 percent were teams of men and women.

g. Hispanics composed 42 percent of the clients.

h. The SBDC and its clients were featured 37 times in the local print media. This is 50 percent more than the exposure of the previous year. In addition to this, the Director published six articles in the Valencia County News-Bulletin. The articles all concerned small business.

i. SBDC sponsored, along with UNM-Valencia Campus and several local businesses, an Economic Development Conference on June 7. The conference was composed of speakers and panel discussions and was attended by 170 people.

j. A business community survey was conducted by SBDC. The survey contacted 300 small businesses in the Valencia, Socorro and Torrance Counties and asked them growth projection questions and opinions.

k. The SBDC is a member of every Chamber of Commerce in the UNM-Valencia Campus service area.

4. School-to-Work Program

a. The administrative assistant position providing support services for the School-to-Work /Tech Prep projects was dropped and a .5 FTE School-to-Work coordinator position was established. The individual selected to fill the coordinator's position was hired in February.

b. Five hundred fifty nine students participated in Job Shadowing activities during the 199-2000 academic year.

c. UNM-Valencia Campus sponsored a Business Technology Valley Expo on March 16,2000. Each of the partnership high schools had a display. Local businesses and government agencies presented displays to visiting students and parents.

d. In June 2000 the Valencia Campus School-to-Work program, the Department of Labor, and teachers from Belen High School conducted a weeklong life-skills conference for 65 out of 110 JTPA students. The remaining 45 students participated in job training in June 1999. This joint effort enabled these students to have a summer job and gain valuable work experience as well as work-skill experience.

5. Tech-Prep Program

a. The Tech Prep program began operating with a full-time Tech Prep Coordinator in February 2000.

b. 135 high school students received college credit through concurrent enrollment. The high school seniors completed coursework and successfully passed the UNM-Valencia Campus final challenge exam.

c. Ninety secondary public school teachers and counselors were provided with some level of training.

d. A total of approximately $68,000 was spent on equipment and supplies for the six public schools for use in the Computer Aided Drafting and Office Business Technology programs.

e. UNM-Valencia Campus sponsored a Business Technology Valley Expo on March 16,2000. Each of the partnership high schools had a display designed and presented students.
f. The Tech Prep Program was strengthened by offering concurrent enrollment opportunities for "career technical" courses taken by high school student at their respective school sites.

g. 40 teachers, counselors and administrators participated in the Region IV Association for Career and Technical Education Conference in Albuquerque, April 13-16, 2000. The Tech Prep Program covered the registration fees.

6. SU PARTE Program

a. The major change for the SU PARTE program during the fiscal year 1999-2000 occurred as UNM-Valencia Campus SU PARTE program was made operative through a subcontract with San Juan Community College, the Region II Contractor calling for Valencia Campus to oversee the NM Works programs in Cibola and Torrance Counties. Prior to this fiscal year UNM-Valencia Campus had enjoyed a direct contract with the NM Income Support Division.

b. The 1999-2000 contract was signed effective July 29, 1999.

c. Sites to operate the programs in Cibola and Torrance counties were secured on September 21, 1999.

d. The Program Coordinator for NM Works SU PARTE was hired October 18, 1999.

e. Partial staffing for both Cibola and Torrance counties were hired December 6, 1999.

f. The SU PARTE best practices, nationally recognized by a study funded by the US DOL, were refined and continued in the 1999-2000 contract year. The GED class, Job Club, the Applied Works Skills Class and Computer Skills Training—designed to meet the needs of the welfare clients, were the best practices identified.

g. SU PARTE co-sponsored the annual Valencia County Women's Conference "Seeds for Success" with UNM Valencia Career Center and Valencia County's Pilot Club. Nine SU PARTE clients attended.

h. The Program Manager and two SU PARTE teachers presented a workshop on Strategies for Participant Support at the national Adult Learners Conference in Atlanta, Georgia.

i. UNM-Valencia Campus, and NM Works, Torrance County sponsored a two day job fair in Torrance County.

j. SU PARTE participated in the labor force analysis for the Valley Economic Development group in Torrance County.

k. The Program Manager for SU PARTE applied for, and received funding from Clothes Helping Kids, Inc. $4500 was provided for use in scholarship for children of SU PARTE clients to enroll their children in the summer school educational camps offered by UNM-Valencia Continuing Education Program. Sixteen children enrolled in the summer camps.

l. Twelve Valencia County SU PARTE clients received their GED and attended the GED graduation. The Valencia-Campus SU PARTE staff attended the graduation together in recognition of the clients' accomplishments.

m. Two SU PARTE Valencia GED graduated received 1-year full scholarships for college tuition and books.

n. In May, UNM-Valencia Campus received a 3-month extension to operate the NM Works Program in Valencia County.

o. San Juan Community College, Region II Contractor, requested oversight of the NM Works Cibola County program and UNM-Valencia Campus willingly relinquished oversight in February 2000.

p. San Juan Community College assumed responsibility for the NM Works Torrance County program and the Torrance Welfare-to-Work program in June 2000.

q. On August 1, 2000 the 3-month agreement to operate NM Works SU PARTE. Valencia County was extended, allowing UNM-Valencia Campus to operate the program through June 30, 2001.
B. Significant Plans and Recommendations for the Near Future

1. The Small Business Development Center
   a. The Center plans to continue its marketing efforts through attendance at Chamber of Commerce functions, community events, campus-sponsored events, Rotary Club and Kiwanis events as well as participation in appropriate seminars, conferences and work shops.
   b. The SBDC will host its second Economic Development Conference in 2001. It will be similar to the event in 2000 but with added topics.

2. School-to-Work Program
   a. During the coming grant year, the focus for School-to-Work will be on strengthening community partnerships and increasing parental involvement. The summer Community Mapping Institute was the first step towards establishing teams within each of the communities to design strategies to complete community mapping and strengthening partnerships between the business partners and the schools. Each participating school district will have a Parent Involvement Institute to develop increased parental involvement, and strengthen the partnerships between the schools and parents.
   b. The role of the Career Transition Specialists will be adjusted to increase the amount of time they spend on developing linkages within the communities. The School-to-Work initiative will also shift its focus to include more community-based activities. This is the fourth year of funding and with the decrease in federal/state funding, the School-to-Work activities will need to be absorbed by the communities and the schools.

3. Tech-Prep Program
   a. The Tech Prep Program received funding to develop three new technology programs: Internet Webmaster, Systems Engineer (PC Repair) and Solutions Developer. These programs will be developed and implemented in six school districts. The Computer Aided Drafting and Office Business Technology will be improved.

4. SU PARTE Program
   a. UNM-Valencia Campus has been directed by the Region II contractor to expend the $545,000 that was unexpended during the 1999-2000 contract year. This will allow the program to reinstate some of the training previously provided that had been eliminated due to funding constraints.
   b. UNM-Valencia Campus will be able to expand its staff to better address client needs.
   c. The SU PARTE program was relocated shortly after the end of the contract year. The Program is currently housed in the Learning Resource Center. This move has provided our case managers with individual offices, and affords privacy when interviewing clients.

C. Outside Professional Activities

1. The Small Business Development Center
   a. Manager wrote articles for local publication.
   c. Manager and Administrative Assistant earned their SBDC certification in 1999.
d. Manager and Business Advisor attended professional training conference in San Antonio, TX in May 2000.

2. The Tech-Prep Program

a. The Program Coordinator served as New Mexico Association of Career and Technical Education, President during this fiscal year.

b. The Program Coordinator attended the New Mexico Association of Career and Technical Education, Region IV Conference Coordinator, April 12-16, 2000

3. SU PARTE Program

a. The Program Manager and 2 SU PARTE faculty attended the national Adult Learners Conference in Atlanta, Georgia.

b. The Program Manager and 2 SU PARTE faculty participated in the national Adult Learners Conference in Atlanta, Georgia, presenting a session entitled 'Strategies for Participant Support'.

D. Appointments to Faculty/Staff

1. School-to-Work

| Darlyn Mabon          | Program Coordinator | February 15, 2000 |

2. SU PARTE

| Ray Meek           | Transportation     | August 15, 1999   |
| Marquita Matsu     | Admin. Assistant II| October 18, 1999  |
| Kevin Begley       | Program Coordinator| October 25, 2000  |
| Cyndi Barden       | Admin. Assistant II| November 15, 1999 |
| Karolyn Selleck    | Case Manager       | December 6, 1999  |
| Karen Romeo        | Case Manager       | December 6, 1999  |
| Eileen Torres      | Job Development Coord. | December 6, 1999 |
| Mary Gray          | Program Development| December 6, 2000  |
| Babara Elliott     | Job Development Coord. | December 6, 2000 |
| Betty Miller       | Program Coordinator| December 6, 2000  |
| Danielle Groeling  | Case Manager       | March 29, 2000    |
| Debbie Stiles      | Job Development Coord. | March 27, 2000    |

E. Separations, Faculty/Staff

1. SU PARTE

| Bob Hodges         | Instructor         | May 29, 1999       |
| Jodi Weinberger    | Instructor         | July 30, 1999      |
| Lois Hansen        | Instructor         | August 15, 1999    |
| Gary Sanchez       | Program Coordinator| September 2, 1999  |
| Ralph Hart         | Transportation     | September 10, 1999 |
| Annette Guerrera   | Admin. Assistant II| October 6, 1999    |
| Stephanie Ramirez  | Admin. Assistant II| October 14, 1999   |
| Stacie Scott       | Case Manager       | October 15, 1999   |
| Shawn Huttleston   | Case Manager       | October 22, 1999   |
| Lori Crawford      | Instructor         | October 30, 1999   |
| Eileen Torres      | Job Development Coord. | April 19, 2000    |
F. Publications

1. The Small Business Development Center

   a. SBDC Manager writes a newspaper column for the Valencia County News-Bulletin with small business topics.

   b. The SBDC had themselves or their clients mentioned in the newspaper 37 times this year.
Computer and Information Resources and Technology

Annual Report

July 1, 1999-June 30, 2000

Prepared by Staff and Management of CIRT

Computer and Information Resources and Technology (CIRT) is the computing backbone at the University of New Mexico. With an experienced staff and dynamic resource capabilities, CIRT provides computing and networking services to a diverse and extensive campus community.
2.0 EXECUTIVE SUMMARY

CIRT's major accomplishments for the 1999-2000 academic year fell in the following broad areas:

- Ensuring that all major UNM systems were Y2K compliant.
- Upgrading UNM's Information Technology (IT) infrastructure to continue to meet the growing demand for IT services.
- Installing uninterruptible power supplies (UPS's) to protect UNM's mission critical IT assets.
- Working with Business and Finance (B&F) to reengineer and streamline B&F business processes.
- Enhancing other UNM administrative systems.

Y2K compliance was this academic year's major undertaking and was completed successfully (Section 4.4). This included modifying and testing all of UNM's mission-critical administrative systems, upgrading some of UNM's old and non-Y2K compliant data network hardware, and providing central support to UNM's various organizations to ensure that their systems were also Y2K compliant. This involved many people whose diligent work made the Y2K rollover smooth and uneventful for UNM.

The demand for CIRT services continues to increase and is detailed in the tables and graphs shown in Section 6.0. While the amount of e-mail seems to have stabilized at 160,000 messages/day, there have been substantial increases in other areas, including UNM web accesses, number of sessions, connect time, CPU hours, disk space and in the number of network connections, all of which have increased by amounts varying from 10-25%. What is notable about these increases is that they have been accomplished with a 3-4% reduction in staff, which indicates that CIRT is continuing a trend started over a decade ago of making effective use of technology to improve staff productivity.

The growth in services provided was enabled through needed upgrades to UNM's IT infrastructure. Some of the more notable upgrades included the following:

- Disk upgrades to several systems, including a 170GB disk storage upgrade to the central NFS server (Section 4.10).
- A CPU upgrade consisting of 32 nodes of an IBM SP2 system that was decommissioned by HPCERC (Section 4.10).
- Deployment of a Gigabit campus backbone that supports multicasting (Section 4.13).
- Installation of an additional 2,033 network ports to bring the total of active UNM network ports to 19,246 (Section 4.13).
- PC, file and software upgrades to UNM's pods and classrooms. (Section 4.2).

Another aspect related to IT infrastructure has been the installation of uninterruptible power supplies in the CIRT building (Section 4.12) and in the major campus network hubs (Section 4.13). The objective is to protect these mission critical assets from power surges and outages and to ensure all major UNM services are available 24 hours/day 7 days/week. Since their installation, UNM's network and enterprise services
stayed up during major power outages, including power outages in the CIRT building. This helps reduce UNM’s liability, especially as it relates to patient care in the Health Sciences Center.

The EMIS project to reengineer and streamline UNM’s business processes in the Business and Finance area has implemented new systems that allow departments to track applicants, hiring requisitions and purchase requests (Section 4.8). Also the Oracle suite of financial systems, including procurement and accounts payable, has been selected and acquired given that it best met the needs identified by the Business and Finance EMIS team (Section 4.8). It is hoped that the needed funding will be found to begin system implementation in calendar year 2001.

While some CIRT staff were working with Business and Finance staff to reengineer business processes, other staff worked on enhancements to other UNM administrative systems, including Financial Aid (Section 4.5), Admissions (Section 4.6) and other Financial Systems (Section 4.7).

Now that it appears that funding will be identified to initiate planning and implementation of the Oracle Purchasing and Accounts Payable systems (Section 4.8), a challenge will be UNM’s ability to attract and retain skilled IT design and implementation staff needed for this project. The implication is that UNM will need to provide competitive salaries for the new hires, allow needed skills to be freely substituted for a degree (which may not be relevant given the specialized skills needed), and to allow market salaries for existing IT staff. Unless UNM’s current Human Resource policies are changed to reflect the above, it will be difficult, if not impossible, to start the project without resorting to wholesale use of expensive consultants, and thus increasing the initial and recurring costs well beyond those that have been identified to date.
3. 0 CIRT ORGANIZATION

CIRT's organization consists of the executive office of the associate vice president and two directorates. One directorate consists of the Information Resource Center and Administrative Information Support. The other directorate is comprised of Distributed Systems Integration Group, Central Systems and Operations Support and the Communications Support Group. Cross-CIRT support is provided by the executive offices of the associate vice president. The following summarizes the activities of these groups.

3.1 Executive Offices of the Associate Vice President

- Associate Vice President
- Unit Administrator
- Contract Administrator
- Network Specialist
- Supporting Staff

The executive offices provide support common to all groups within CIRT, including contracting, materials management, and administrative support for the entire staff of CIRT. Planning is the shared responsibility of upper-level management in the executive offices and operational groups which include: Administrative Information Support (AIS), Information Resource Center (IRC), Central Systems and Operations Support (CSOS), Distributed Systems Integration Group (DSIG), and Communications Support Group (COMSUP).

3.2 Administrative Information Support (AIS)

AIS serves the administrative information needs of the University, primarily through the development and 24-hour maintenance of mission-critical central systems such as Registration, Financial Aid Management, Financial Reporting Systems, and others.

3.3 Information Resource Center (IRC)

The IRC provides the UNM community with the first level of support for CIRT-supported hardware and software. The CIRT Support Center, staff consultants, CIRT pods and classrooms, computer accounting, public relations, hardware maintenance, software distribution, security, tutorial materials, publications, and the CIRT library, are all included in the Information Resource Center.

3.4 Central Systems and Operations Support (CSOS)

CSOS provides operational support for all CIRT shared systems. This includes the monitoring and operation of all hardware systems, data entry, scanning services, mainframe operating system and telecommunications support (system programming), as well as database, technical, and administrative support. CSOS provides delivery service to administrative departments on campus, and monitors, records, and reports the status of
hardware problems. In addition, CSOS supports a staff that maintains outside contracts.

3.5 Distributed Systems Integration Group (DSIG)
DSIG supports a variety of systems running AIX and a number of other dialects of the UNIX operating system. DSIG works with academicians, researchers, and administrators throughout the UNM campus and associated organizations to support their computing system management needs. In addition, DSIG develops and supports mission-critical university-wide systems such as electronic mail, the World Wide Web server, and automatic generation of user accounts.

3.6 Communications Support (COMSUP)
COMSUP is responsible for designing, installing, and supporting the Campus Data Communications Network (CDCN), including campus access to the Internet and other national networks such as the very high speed Backbone Network Service (vBNS). The group works closely with various units to ensure that departmental network needs are met. In addition to the installation of the network, this group maintains the current network configurations to allow accessibility on a 24-hour, 7-day-a-week basis.
4.0 CIRT ACHIEVEMENTS

4.1 CIRT Participation in the Acceptable Computer Use Policy (ACUP) Committee

- CIRT chairs the committee to update and develop policies for the University Business Policy Manual regarding computer use. This year the committee:

- Revised the Acceptable Computer Use Policy (ACUP) according to the Faculty Senate Computer Use Committee feedback and achieved Faculty Senate and Executive Cabinet approval. The policy has been in revision since 1996 and is in the final review phase with the general campus.

- Outlined the revision of the 2500 section of policies to replace outdated policies (many are more than 10 years old with obsolete equipment references) with fewer, broader, non-technology specific policies. The new section will include the new ACUP, minimal security guidelines and possibly one with specific user guidelines.

- Drafted and refined the minimal security guidelines policy. This was developed from CIRT’s response to an external audit review.

4.2 Pod and Classroom Improvements

- As expected, the fervent usage of the new Dane Smith Hall (DSH) computer classroom facility by faculty, staff and students prompted pod management to upgrade the PCs in the two computer classrooms and adjoining pod area. In conjunction with this PC upgrade, the existing Dane Smith Hall PCs were relocated to the Communication and Journalism, Economics, CIRT and ASM computer pods and classrooms. Twelve UNM departments received the fifty-three older PCs removed from these computing facilities through the CIRT hardware redistribution program. The recipients were Risk Management, Human Resources, Special Education, Carrie Tingley, Athletics, Geography, Communication & Journalism, Center for Teachers Education, Fine Arts, College of Education, Tingley Library and the Tamarind Institute. The success of CIRT’s hardware redistribution program enables these UNM Departments to upgrade their existing hardware and remain technologically current.

- In addition to the arrival of the Dane Smith Hall’s new PC hardware, Lobo Lab Macs were replaced with new G3 computers. These new G3s will be relocated to the Engineering and Science Computer Pod next fiscal year in preparation for the closure of the Lobo Lab computing facility due to the Student Union Building (SUB) two-year remodeling project. The Language Learning Center located in Ortega Hall was the recipient of Lobo Lab’s old Macs.

- Anticipating the closure of the Student Union Building (SUB) for remodeling, pod management took the initiative to move all the x-terminal workstations and the Math Department’s PCs out of the Engineering and Science Computer Pod (ESCP) to make room for the relocation of the existing Lobo Lab hardware. The Math Department received the ESCP x-terminals.
• Other pod hardware improvements included a memory upgrade from 64MB to 128MB on the Macs at Dane Smith Hall and Johnson Center to support computer classroom instructional software requests; a new projector at the Communication and Journalism computer classroom; a new HP LaserJet printer installed at CIRT; and the PC scanner workstations in all pods were upgraded to 300MHz pentium machines.

• In July of this fiscal year, CIRT went out to bid on a new recycle toner cartridge contract to support the pods and computer classrooms. The award went to a local vendor, Laser Specialist Inc., which now supports the University. Laser Specialist’s pricing is extremely competitive and their service has been excellent.

• As the demand for computing classrooms increases, pod management has fine-tuned the requests for installation of instructional software by setting up a standard policy for instructors to follow. This policy gives UNM departments the responsibility for purchasing instructional software, establishing legal software licensing and adhering to specific test and installation deadlines set by pod management. A variety of new software upgrades were implemented in the pods and computer classrooms for both the PC and Mac platforms. The new Mirada version was installed on all pod PCs. Altiris Vision, an interactive screen control software, was installed at ESC Pod and Dane Smith Hall at faculty request. Central File Service was installed on all pod PCs along with the Mulberry tutorial. PhotoShop was installed on the Communication and Journalism Computer Classroom PCs to meet instructional requests. Also, a variety of software was upgraded on the Mac platform including PhotoShop, MacMirada and MacroMedia Director.

4.3 Student Data Mart Pilot

• A student information data mart has been tested by 60 users in a pilot project to enable departments to do ad hoc reporting. Oracle tables were built from student information (admissions, registration, courses) which are updated nightly from the legacy IDMS system. Historical tables were built from student information for the past two years. The Extended University has used the data mart to identify students in web classes supported by Blackboard. Media Tech has used the data mart to identify students in Web CT courses. The production systems have facilitated:
  • 495,000 Registration Transactions
  • 142,000 Transcripts
  • 228,000 Grades

4.4 Y2K Accomplishments and Successful Transition

• The Y2K rollover was uneventful here at the University of New Mexico. This was due to the efforts of many people both inside and outside the university who worked hard to make the entry into the Year 2000 a smooth one. UNM’s Y2K project has had substantial, lasting benefits. We now have upgraded hardware and software, well-defined and thorough testing procedures, a number of infra-
structure improvements, and greatly enhanced preparedness for future emergencies. The greatest benefit of Y2K, however, may be the intangible benefit of our having demonstrated that the entire institution can pull together to solve a common problem. Y2K accomplishments and successful transitions are as follows:

- CIRT pods and computer classrooms services were not affected by the Y2K prophetics. Pod management's preparations to prevent Y2K disruptions were of great benefit when CIRT's facilities, as well as UNM in general, were faced with a barrage of power outages unrelated to Y2K. These power outages bombarding CIRT's computing facilities and the UNM Campus were caused by new campus construction, local tunnel flooding and regional wild fires.

- Staff worked out repeatable procedures for migrating an IDMS database for Year 2000 testing and refreshed the database numerous times.

- Staff modified an IDMS database procedure for Year 2000 which prevented the need for numerous database schema changes and hours and hours of programmer effort.

- The DBA team spent considerable resources preparing for Year 2000 which included new tool implementation, program modifications, and support for application development/maintenance staff.

- Staff finished up Y2K equipment compliancy on IBM Hardware Systems.

- ODE data entry software was upgraded to the newest version.

- To meet Y2K compliance the network was upgraded in 14 buildings. Over 40 switches were installed to migrate main campus departments from a shared network to a switched network environment. Wireless backbone connections for five buildings to connect to the campus network were installed, four of which were not accessible through the tunnel system.

**Y2K - Internal Building Network Upgrades (equipment and wiring):**

- Student Services Building
- Novitski Hall
- 1717 Roma NE
- Research Park: NMERI
- Research Park: Parcel 2
- Research Park: Building 1
- KNME
- Safety, Health and Occupational Agency
- Scholes Hall
- Student Health Center, basement
- University House
- 1801 Roma NE
Y2K – Equipment Upgrade:

- Student Health Center
- Research Park: Office and Light
- Nuclear Lab
- CIRT printing services
- Department of Mathematics’ router
- Physics and Astronomy’s router
- WAN router for 700 Lomas
- Remote consoles for Unix systems’ group access
- WAN AGS router
- Hodgin Hall
- Student Residence Center Commons Building

Y2K – Product Maintenance:

- CA-1, Dispatch, SnapShot, IXFP, Librarian, CA-90s

4.5 Financial Aid Automated Packaging

A new financial aid packaging process was implemented in June 2000. This automated process was designed by the financial aid officers to meet their special needs here at UNM, while reducing the amount of time it takes to get financial aid offers to our students. The new process eliminated several manually intensive tasks. This allows officers to spend more time with students.

- Financial Aid and Scholarship awards processed (over $5 million awarded) 49,554
- Bills sent in the past year 400,000+

4.6 Admissions Applications Web Link

The Admissions Application Web Link Version 3.0 was deployed in May 2000. The Admissions Office has reported that they are receiving fewer problem calls and the number of duplicate applications has decreased dramatically.

Admissions Statistics are as follows:

- Students admitted: 32,850
- Students admitted via Web Link: 4,151 12% of total
- New undergraduate transfer students: 2,516
As reported to the CHE:

- Transfer credits evaluated from public NM funded institutions: 52,601, 81% accepted
- Transfer credits evaluated from private NM institutions: 358, 100% accepted

Scanning of transfer credit and automated uploading of transfer course work is happening for 24 institutions and 2 high schools.

4.7 Financial Systems Accomplishments:

- Expanded tax record to accommodate increasing salaries and tax amounts.
- Migrated employees from Pres PPO and Pres Indemnity Health plans to CIGNA PPO Health plan.
- Added daily reporting files for FRS and Payroll Data.
- Automated budget updates for new fiscal year.
- Created monthly FRS/HRS reports for 250+ departments.
- Posted 21,000 FRS batches and 2.4 million FRS transactions.
- Processed health, dental, vision insurance changes for 1500 employees.
- Processed 750 flexible spending account enrollments.
- Transferred 750 employees to University Hospital.
- Processed 4250 staff salary increases.
- Processed 257,000 checks/direct deposits.
- Printed 20,250 W2's.

4.8 Electronic Management Information Systems (EMIS)

- Procurement: The Acquisition Design Team evaluated various vendor applications (both off-the-shelf and built-to-order) that would implement the proposed future state processes. After an evaluation which included numerous telephone conferences, literature research and site visits, the group proposed purchasing the Oracle Financial Application. The contract with Oracle was signed after several months of further research into Oracle's other administrative applications, i.e. Student Systems and Human Resources. Budget estimates were also prepared to estimate the total cost of implementation and ongoing maintenance.

- Applicant Tracking System: Throughout the summer and fall, the EMIS Project technical team was focused on the development and implementation of the new employment tracking system. This system is used by HR Employment to track applicants, hiring requisitions, referrals, and hires. The system was developed using Oracle developer tools—Designer, Developer, and Discoverer.
• **Lookup Employment Requisition History:** An online web based application was developed that allows department hiring officers to track the progress of their hiring requisitions once the Employment Office receives them. Hiring officers can search for their requisitions by number, department code, department name, job code, or job title. Information includes current status, recruitment type, number of applications to date, and HR contact with a direct e-mail link.

• **Lookup PR/PO Payment Tracking:** The internal provider payments (FRS Sales Invoice transactions) were added to this web based application.

4.9 **CIRT Support Center (formerly Help Desk)**

To advance the increasingly strategic role the Help Desk is playing in computer support for UNM, the Help Desk concluded the year with a new name, “The Support Center,” a redesigned facility and expanded services including evening and weekend hours. The Support Center has built on the Help Desk reputation for providing knowledgeable, fast and friendly technical consulting and worked to increase its value to CIRT and to the UNM community. The Support Center is committed to providing leadership in technical support for UNM.

**Major Support Center Initiatives (’99-’00):**

- Renamed Help Desk to the Support Center.
- Remodeled Support Center – separated walk-in clients from phone clients.
- Added evening and weekend hours – in response to client demand.
- Provided Problem/Asset/Change Management project leadership.
- Provided Knowledge Management project leadership.
- Assumed responsibility for system availability message posting.
- Assumed 1st level support for Web CT, E-UNM.
- Assumed co-chair of UCU (University Computer Umbrella) Group.
- Assumed representation for IRC in CIRT’s Change Management meetings.
- Continued ongoing implementation of a single-point-of-contact, defining a phased consolidation of CIRT first level support activities.
4.10 Hardware and Infrastructure for Distributed Systems and Integrations Group

CIRT purchased additional disk space in several areas. Most significant was an addition of 170G usable disk storage to the Network Appliance central file server. This server provides multi-protocol (NFS and CIFS) access to storage anywhere on campus. Other storage changes included minor expansions to the administrative Oracle, alumni Oracle, and parking services Oracle storage systems. CIRT recently acquired an IBM SP2 with 32 nodes from High Performance Computing Education and Research Center (HPCERC). We will use 16 of these as AIX cpu login servers and the remainder as spare parts. These nodes will replace the 16 SP1 nodes currently in use and will function without a hardware maintenance agreement. Also purchased, was a replacement for UNM’s primary domain name server. Finally, all significant systems in operations were moved from 1OMB to 1OOMB ethernet. The central file server was upgraded to a gigabit ethernet link.

4.11 Software and Operating Systems

A new listserv software, L-Soft, was purchased and will be implemented prior to the fall semester 2000. This new software will provide a more manageable and scalable listserv service. CIRT also purchased the Lightweight Directly Access Protocol (LDAP) directory product from Netscape. We are currently migrating our computer account management system to this new product. There are several other future uses for LDAP as a master directory system and ultimately as an authentication system. The ADSM backup server has been migrated from the MVS system, freeing up needed cycles, to an AIX system and is in full production. The Dynamic Host Configuration Protocol, DHCP, has been introduced to UNM, and rollout to the entire campus occurred over the last year. DHCP allows users to automatically obtain an IP address for their system/PC without having to contact CIRT for a specific number. A Web program, developed by the IRC group, allows users to automatically convert their PC to use DHCP while recovering the old IP address for later use.
E-Mail and Web Statistics of Interest:

- The very stable UNM e-mail "cluster" consists of 8 PC systems running Slackware Linux OS; as part of the e-mail cluster we also use two file servers from Network Appliance. No changes have been made to this system over the last year.

- The following are two different web statistics: The first is based on home page accesses; this is the number of accesses to the initial UNM home page. The second is total accesses, which includes access counts for all pages in the UNM WWW domain. WWW accesses show an increase from the FY99 average of 65,000 home page accesses per week to an average of 85,000 accesses per week at FY00 year end. The most significant increases to web service activity have occurred over the last 3 months averaging 100,000 accesses per week. The total number of web pages accessed in the UNM WWW domain averages 820,000 pages per week. Electronic mail averaged approximately 160,000 messages per day (weekdays) during the semester for FY99.

IBM Systems Group Annual Report Items:

System 390
Product Upgrades:

- Operating system - OS/390
- Security – ACF2
- Scheduling – ESP
- Session management – TPX
- Sort – SyncSort
- Data entry – ODE
- Language programming aide – Xpediter
- Change management – Version Merger
- Language programming aide – Xpediter
- Change management – Version Merger
- Tape utilities – FATS/FATAR
- Job management – JCLCheck
- Statistical – SAS

Products Removed:

- AbendAid, Strobe, SPSS/X, Mark IV

Open Systems:

- Upgraded CIRT Novell server.
- Installed and implemented Tivoli Service Desk.
- Converted AIX PSF/6000 print server solution for OS/390 host reports to a Windows-based print director solution by Solimar.
Integrated Systems:

- Implemented cooperative cross systems (AIX, NT and OS/390) communication for the automatic backup of Tivoli Service Desk Oracle databases.
- Replaced local problem management paging application with Internet SMTP-based paging.
- Implemented distributed automated problem management between OS/390 Netview and NT Tivoli Service Desk using TCP/IP remote execution.

Significant accomplishments of the DBA Team:

- Completed 15 IDMS schema changes/area reorganizations. Proactive application of numerous IDMS patches insuring a stable production environment.
- Upgraded all Oracle databases twice.
- Applied numerous patches to Oracle Designer/Oracle Developer.
- Upgraded Oracle Discoverer twice.
- Upgraded and moved the Oracle Application Server to a different machine.
- Upgraded the Oracle Transparent Gateway.
- Set up quality assurance for Oracle application migrations.
- Hired a new DBA Team Member.
- Participated in renegotiating the Oracle Site License Agreement for UNM.
- Administered the Oracle Site License for UNM which includes software and documentation inventory and check out, continuous Oracle software upgrade requests, continuous small migrations of IDMS entities and Oracle objects to quality assurance and/or production.
- Upgraded backup and recovery software for Oracle twice.
- Entered into a service level agreement with Parking and Transportation Services to install and support a purchased Oracle Application. The application is running in production.
- Disconnected the 7171's IBM Controllers from service.
- Disconnected the 3800 IBM Printer.
- Disconnected a 3803 IBM tape drive and Controller.
- Installed hardware for Winframe Project.
- Connected Xerox and Solimar Systems to 100MB service from 10MB.
- Converted all Administrative Network and Local Printing from PSF6000 to SPD/NT.
- Produced overlays with the Highlight Printer to be scanned on the Optical scanner.
- Discovered the (single thread process) in the Solimar System and broke the Groups into more efficient gatherings.
- Utilized Network Storage in our new printing configuration for the first time.
- Added new module in the Solimar setup to compensate for the new model of HP printers.
- Attempted to convert to one Banner page on the Solimar System.
- Converted OS/2 W/S to Win NT.

4.12 Multifunction UPS Units Installed

A major CIRT project in 1999 was the purchase and installation of Uninterruptible Power Supply (UPS) units in CIRT’s Operations Center and all Fiber Zone hubs. The project included rewiring CIRT’s computer room to meet electrical code requirements and upgrading the fire extinguishing system to bring it into compliance with current fire codes. The UPS units will isolate and protect critical computer and network equipment services in the event of electrical power surges or disruptions. This will reduce vulnerability of UNM mission
critical information technology.

The UPS Units will:

- Help Prevent data loss
- Reduce system maintenance
- Extend computer system life
- Reduce downtime to UNM and other State institutions
- Prevent equipment loss, and
- Enhance system reliability

4.13 Campus Data Communications Network (CDCN)

The Network Group had a very busy year. The implementation of a gigabit backbone was begun, with 12 buildings currently connected. To better manage the IP address pool, Dynamic Host Control Protocol, (DHCP) was implemented campus wide. Our detailed efforts are described in the following categories:

*Internal Building Network Upgrades from a Shared Network to a Switched Network:*

- Parking Services
- UNM Bookstore
- Castetter Hall
- Communications and Journalism
- Mathematics and Statistics
- Anderson School of Management
- English Department
- ESC Pod
- Physics and Astronomy

*Internal Building Network Expansions:*

- Service Building (PPD)
- CIRT Support Center
- Bratton Hall

*Internal Building Networks Established:*

- UNM Press warehouse
- DHCP implemented on the main campus
- 1915 and 1923 Las Lomas Research Park department: Cryptodynamics
- Technology and Education Center planning for Valencia, Taos, Los Alamos and Gallup branch campuses
Backbone Connections Established:

- 1915 and 1923 Las Lomas
- Technology and Education Center

Backbone Network Upgrades or Expansion:

Health Sciences Center building connections were upgraded from 10MB to 100Mbps for:

- Family Practice Center
- Health Sciences and Services Building
- Medical Building 2
- Surge
- Medical Buildings 5 and 6
- Cancer Research Facility
- Biomedical Research Facility (BRF)
- College of Nursing and Pharmacy WAN T1 Frame Relay connection to UNM for the HSC Gallup Diabetes Center

Other Backbone Network Upgrades Include:

- WAN T1 Frame Relay connection to UNM for the UNM/Bernalillo/Los Alamos Training Center
- Increased memory on the backbone routers
- Sevilleta's WAN connection relocation
- Fiber connections in support of Media Technology Services
- Research Park: Grouplixir
- Electrical upgrade campus project from a network perspective
- Health Sciences Center Library
- Medical Building 2
- Mechanical Engineering
- WAN T1 point-to-point connection for Continuing Education Career Works
- Frame Relay connection between the Office of the Medical Investigator and Santa Fe TVI to a dedicated point-to-point connection to UNM BRF Campus backbone router at CIRT to the CDCN's gigabit backbone
- AHPCC
- ESC pod
- Dane Smith Hall
- Mechanical Engineering (@ 100Mbps)
- Technology and Education Center
- 1915 Las Lomas (@ 100Mbps)
- 1923 Las Lomas (@ 100Mbps)
- CIRT Services
• CIRT (@100Mbps)
• HSC Library (@100Mbps)
• Medical Building 2 (@100Mbps)
• Wireless backbone (LAN connections)

_Lobo Energy Campus Monitoring Project, Phase I:_

• This project makes it possible for the Lobo Energy department to monitor building power over the campus network backbone.

_Equipment with a network interface was installed and attached to the CDCN in the following buildings:_

• Co-generation plant in the Campus Blvd parking structure
• (New) Castetter Hall
• (Old) Castetter Hall
• Fine Arts
• Main campus switching station
• Zimmerman Library
• Popejoy Hall
• North campus switching station
• HSC chilled water plant
• New Cancer Research Facility
• UNMH Facilities Engineering
• Basic Medical Services Building
• Health Sciences Services Building

_Wireless Backbone Connections Established:_

• Institute for Social Research at 2808 Central SE
• UNMH (Backbone hub)
• UNM Stadium (Backbone hub)
• SAAP @ 120 Vasser SE
• Emergency Medical Services at 2700 Yale SE

_Dial-up Service:_

The dial-up configuration was modified to decrease the connect time limits from two hour to one hour and four hours to two hours to increase service availability.
One-time Tasks:

- IBM's Tivoli Problem, Change, and Asset Management software was installed, with the Problem Management application "live" in February 2000.
- Installed a multicast connection for President Clinton's visit from the Albuquerque High Performance Computer Center to Shiprock.
- Uninterruptible Power Supplies (UPS) were installed for disaster recovery at the fiber zone hub level.
- CIRT acquired 128 Class C address spaces.
- The Health Sciences Center network documentation down to the network plate level was begun.
- The CIRT machine room equipment was moved to the new UPS system.
- The Communications Group Web site was adapted to the CIRT standard and expanded to include maps, diagrams, and network specifications.
- CDCN and ResNet Rules of Use were established and put on the web.
- Participated in the hiring process for the Telecommunication Director.
- Eliminated bridging over the campus backbone to decrease unnecessary traffic and to limit a network broadcast domain.
- Upgraded from RIP 1 to RIP 2 to allow for variable length subnet masking, to prepare for final migration to OSPF and limited routing information updates to areas where required.
- Investigated optical Internet networking as an alternative to gigabit backbones. Results demonstrated that we should retain the gigabit backbone plan.
- Simplified Concord's NetHealth network management system so it can be more quickly and effectively utilized.
- Provided a vBNS performance report using Internet performance metrics.
- Provided network monitoring for the Chautaugua conference, which used multicasting as the mechanism for achieving the teleconference.
- Using network management software, assisted departments such as Continuing Education and Mechanical Engineering in determining their network capacity.
- Monitored the commodity Internet connection. Evaluated statistics for ISP upgrade proposal.
- Resolved network equipment problems for Brain Imaging by using network management software.
- Analyzed the Network Management tool, Unicenter TNG, for its use to UNM and the scope of opportunities it offers to increase CIRT's services to UNM.
- Installed and configured Tivoli's Netview on a server and had it perform all the network management functions like discovering the network, analyzing the network and troubleshooting.
- Installed and configured MRTG (multi router traffic grapher), a network traffic measuring tool to quantify traffic evolving from different network boxes in order to extract any information regarding Napster.
- Installed RRD tools which is an extension of Napster, and which uses MRTG as a backend to create some frontend tools for traffic analysis.
- Worked on storage area management, studying its features and the technical issues.
- Purchased additional licenses for Concord's NetHealth to increase monitoring capabilities.
Campus Zone Map for North & Main Campus
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<td>O3</td>
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## BUILDINGS CONNECTED TO THE CDCN BY FIBER

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<td>Center for Technology and Education</td>
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<td>156</td>
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<td>98</td>
<td>O4</td>
<td>157</td>
<td>Alvarado Hall</td>
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<td>99</td>
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<td>158</td>
<td>Architecture &amp; Planning</td>
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<td>O4</td>
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<td>SAAP Annex (2500 Central)</td>
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<td>O5</td>
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<td>ESC Pod</td>
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<td>102</td>
<td>O5</td>
<td>8</td>
<td>Bandelier Hall (East)</td>
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<tr>
<td>103</td>
<td>O5</td>
<td>11</td>
<td>Anthropology/Maxwell</td>
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<td>109</td>
<td>O5</td>
<td>103</td>
<td>Hodgin Hall</td>
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<td>O5</td>
<td>106</td>
<td>Civil Engineering Lab</td>
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<td>O5</td>
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<td>Engineering Annex</td>
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<td>112</td>
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<td>111</td>
<td>Chem&amp;Nuclear Engr Lab</td>
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<td>114</td>
<td>O5</td>
<td>117</td>
<td>Wagner Hall (Engr Lab)</td>
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<td>115</td>
<td>O5</td>
<td>118</td>
<td>Tapy Hall</td>
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<td>O5</td>
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<td>Farris Engineering</td>
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<td>117</td>
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<td>Nuclear Eng. Lab</td>
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<td>118</td>
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<td>Parking Services</td>
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<td>120</td>
<td>O5</td>
<td>126</td>
<td>Galles Building</td>
</tr>
<tr>
<td>121</td>
<td>O6</td>
<td>4</td>
<td>Carlisle Gym</td>
</tr>
<tr>
<td>122</td>
<td>O6</td>
<td>9</td>
<td>Marron Hall</td>
</tr>
<tr>
<td>123</td>
<td>O6</td>
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<td>124</td>
<td>O6</td>
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</tr>
<tr>
<td>125</td>
<td>O6</td>
<td>22</td>
<td>Clark Hall (Chemistry)</td>
</tr>
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<td>126</td>
<td>O6</td>
<td>23</td>
<td>Mitchell Hall</td>
</tr>
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<td>O6</td>
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<td>Northrop Hall</td>
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<td>O6</td>
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<td>New Mexico Union</td>
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<tr>
<td>129</td>
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<td>72</td>
<td>Popejoy Hall</td>
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<tr>
<td>131</td>
<td>O6</td>
<td>79</td>
<td>Ortega Hall</td>
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<tr>
<td>132</td>
<td>O6</td>
<td>81</td>
<td>Humanities Building</td>
</tr>
<tr>
<td>133</td>
<td>O6</td>
<td>82</td>
<td>Woodward Lecture Hall</td>
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<tr>
<td>134</td>
<td>O6</td>
<td>83</td>
<td>Empty (old Bookstore)</td>
</tr>
<tr>
<td>135</td>
<td>O6</td>
<td>84</td>
<td>Fine Arts</td>
</tr>
<tr>
<td>136</td>
<td>O6</td>
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<td>137</td>
<td>O6</td>
<td>115</td>
<td>Journalism</td>
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<td>138</td>
<td>O7</td>
<td>301</td>
<td>University Stadium</td>
</tr>
<tr>
<td>139</td>
<td>O7</td>
<td>302</td>
<td>University Arena (The Pit)</td>
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<td>140</td>
<td>O7</td>
<td>307</td>
<td>Athletic Administration</td>
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<td>141</td>
<td>O7</td>
<td>308</td>
<td>Tow Diehm Athletic Facility</td>
</tr>
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<td>142</td>
<td>O7</td>
<td>331</td>
<td>Crystal Growth Facility</td>
</tr>
<tr>
<td>143</td>
<td>O7</td>
<td>332</td>
<td>Science and Technology Park: Park Center</td>
</tr>
<tr>
<td>144</td>
<td>O7</td>
<td>333</td>
<td>Science and Technology Park: NMERI</td>
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## BUILDINGS CONNECTED TO THE CDCN BY FIBER

<table>
<thead>
<tr>
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<th>BLDG #</th>
<th>BUILDING NAME</th>
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<tr>
<td>145</td>
<td>O7</td>
<td>334</td>
<td>Technology Commercialization Center (Dykewood)</td>
</tr>
<tr>
<td>146</td>
<td>O7</td>
<td>337</td>
<td>Science &amp; Technology Park: UNM/SNL Advanced Material</td>
</tr>
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<td></td>
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<td>Lab (Parcel 2)</td>
</tr>
<tr>
<td>147</td>
<td>O7</td>
<td>338</td>
<td>Science &amp; Technology Park: Optoelectronic Materials Ctr</td>
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<tr>
<td>148</td>
<td>O7</td>
<td>339</td>
<td>Science &amp; Technology Park: Office and Light</td>
</tr>
<tr>
<td>149</td>
<td>O7</td>
<td>352</td>
<td>Science &amp; Technology Park: Microelectronics Research</td>
</tr>
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</table>
5.0 CIRT STAFF PROFESSIONAL DEVELOPMENT

CONFERENCES:

ODTUG 2000 Conference
Ft. Lauderdale, FL
Maria de Jesus Malczynski, Randy Eldridge, Beth Lowery, Jeffrey O'Keefe, Theresa Sanzone-Wood

Field Service Solutions Conference
Dallas, TX
Anthony Waldron

CHECS Conference
Las Cruces, NM
Mark Harty, Linda Miller, Pam Mirabal, Sandra Carter-Mayes, John Sobolewski, David Mcquire, William Adkins, Eugene Bustos, Starlyn Brown, Vance Kittredge, John Alfaro

Tivoli Service Desk User’s Conference
Dallas, TX
Ivan Boyd, Matthew Carter, Stephen Spence, Anthony Waldron

1999 ACM SIGUCCS Users Service Conference
Denver, CO
Randall Perkins, Barbara Riggs-Healy, Joseph Quintero, Matthew Carter, Stephen Spence

CAUCUS NET 1999 Annual Conference
Washington, DC
Martha Talbott

1999 EDUCAUSE Conference
Long Beach, CA
John Sobolewski, William Adkins

Internet 2 and Network 2000 Conference
Washington, DC
John Sobolewski

CUMREC Conference
Washington, DC
John Sobolewski

American Industrial Hygiene Conference
Orlando, FL
Christina Lopez

NASFAA Conference & Pre-Conference Workshop
Las Vegas, NV
Barbara Pfaff, Barbara Nolan, Lorraine Tafoya

Department of Education Third Party Servicers & Software Providers Conference
Washington, DC
Barbara Nolan

WEBDEVSHARE ‘99 Conference
Bloomington, IN
Richard Valdez, Jan Diawald

1999 Electronic Conference for the Department of Education
San Antonio, TX
Barbara Nolan, Lorraine Tafoya, Raymond Baca

Direct Lending Conference
Washington, DC
Barbara Nolan

ESP User’s Conference
Tucson, AZ
Alice Garcia

CA World Conference
New Orleans, LA
Bruce Fraser, Alex Estrada

SHARE Conference
Chicago, IL
Kathryn Ballard

AFCOM Fall Conference & IS Expo Trade Show
Las Vegas, NV
Veda Goslar, Sandra Jones
Oracle OpenWorld ‘99 Conference
Los Angeles, CA
Patricia Rathbone, Starlyn Brown

1999 Computers on Campus Conference
Columbia, SC
Louis Sullo

Disaster Recovery Spring World 2000 Conference
San Diego, CA
Louis Sullo

AFCOM’s Spring Conference & IS Expo Trade Show
Las Vegas, NV
Joe Montoya, John Alfaro

Gartner Group Conference
San Diego, CA
Ivan Boyd, Aaron Ezekiel

Computer Associates Senior Management Forum
New Orleans, LA
John Sobolewski, Louis Sullo

Computer Associates Executive Management Forum at CA World 2000
New Orleans, LA
John Sobolewski

CLASSES/WORKSHOPS/SEMINARS:
Managing Technical Professionals
Washington, DC
Mark Harty

Contract Manager Software Training provided by International Computer Negotiations
Orlando, FL
Martha Talbott

Seminars on Academic Computing
Snowmass, CO
William Adkins

CITRIX 181: Winframe 1.8 Administration Training Class
Phoenix, AZ
Mary Hanson, David Moomey

Oracle “Discoverer for End Users and Administrators” Workshop
Houston, TX
Barbara Pfaff

DARS Advanced Method Workshop XI
Las Vegas, NV
Meredith Swanson

Rocky Mountain User Group/Vegasoft Product
Englewood, CO
Sue Roujansky, Vicki Bellmeyer

IBM Education and Training
San Francisco, CA
Charles Phillips

Tivoli Storage Manager Implementation 3.7 Conference
Los Angeles, CA
Damion Terrell, Charles Phillips

Networld & Interop 2000 Convention
Las Vegas, NV
John Lutz

Tivoli Service Desk Migrations Workshop
Dallas, TX
Jim Iden

MEETINGS:
Westnet Meeting
Denver, CO
Salt Lake City, UT
John Sobolewski
MEETINGS: (continued)

NM State Committee on Information Technology Recharge Systems
Santa Fe, NM
John Sobolewski, William Adkins, Louis Sullo

CHECS Summer Planning Meeting
Cloudcroft, NM
Pamela Mirabal, John Sobolewski, William Adkins

NORTEL Meeting
Dallas, TX
John Sobolewski, Louis Sullo, Louella Phillips

Governor's Commission on Information Technology
Santa Fe, NM
Louis Sullo

CHE Information Technology
Socorro, NM
William Adkins, Louis Sullo, John Sobolewski

CHE Meeting
Las Cruces, NM
Barbara Nolan, Barbara Pfaff

Oracle Student System Meeting with the University of Maryland
Washington, DC
John Sobolewski

State Information Technology Commission Meeting:
Santa Fe, NM
William Adkins

Legislative Finance Committee Hearing:
Santa Fe, NM
John Sobolewski

State Committee Meeting on IT Desktop Standards
Santa Fe, NM
John Sobolewski

CHECS Spring Planning Meeting
Santa Fe, NM
John Sobolewski, William Adkins, Louis Sullo, Pamela Mirabal

CHECSnet Planning Meeting & Vendor Presentation
Arizona St, AZ
John Sobolewski

Statewide Desktop Standards Task Force Meeting
Santa Fe, NM
John Sobolewski
5.1 Guide to Acronyms

ACM  Association for Computing Machinery
CHECS  Council for Higher Education Computing/Communications Services
NASFAA  National Association for Student Financial Aide Administrators
OTDUG  Oracle Too! Development Users Group
SIGUCCS  Special Interest Group on University and College Computing
5.2 Contracts & Grants

B. Tacker, J. Sobolewski Co-PI's
National Science Foundation
$365,000 for 2 years
"NMIMT High Speed Connection to the vBNS and Abilene Networks"

J. Sobolewski, A. St. George, D. Stuart Co-PI's
Commission on Higher Education (CHE)
$791.1K requested
$676K funded
"IT Infrastructure to Support Distance Independent Education and Lifelong Learning"
### 1988-1989 to 1998-1999 Fiscal Year Change

<table>
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<tr>
<th></th>
<th>FY '88-89</th>
<th>FY '89-90</th>
<th>FY '90-91</th>
<th>FY '91-92</th>
<th>FY '92-93</th>
<th>FY '93-94</th>
<th>FY '94-95</th>
<th>FY '95-96</th>
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<td>8.43 M</td>
<td>8.57 M</td>
<td>8.79 M</td>
<td>8.50 M</td>
<td>8.66 M</td>
<td>9.05 M</td>
<td>9.20 M</td>
<td>9.22 M</td>
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<tr>
<td><strong>Full-time FTE's</strong></td>
<td>162.0</td>
<td>161.0</td>
<td>163.0</td>
<td>154.2</td>
<td>154.2</td>
<td>155.7</td>
<td>155.7</td>
<td>155.4</td>
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<tr>
<td></td>
<td>181</td>
<td>180</td>
<td>182</td>
<td>187</td>
<td>185</td>
<td>183</td>
<td>189</td>
<td>185</td>
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<td><strong># Accounts</strong></td>
<td>3,933</td>
<td>6,623</td>
<td>10,072</td>
<td>13,120</td>
<td>17,425</td>
<td>32,955</td>
<td>40,328</td>
<td>55,509</td>
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<tr>
<td></td>
<td>557,754</td>
<td>1,068,697</td>
<td>1,644,448</td>
<td>1,900,123</td>
<td>2,201,300</td>
<td>3,018,235</td>
<td>4,818,319</td>
<td>4,978,951</td>
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<td><strong>Connect Time in H</strong></td>
<td>335,924</td>
<td>727,740</td>
<td>1,170,498</td>
<td>1,779,979</td>
<td>2,610,629</td>
<td>2,610,629</td>
<td>2,280,415</td>
<td>3,190,297</td>
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<tr>
<td></td>
<td>113,924</td>
<td>184,928</td>
<td>289,677</td>
<td>459,702</td>
<td>1,109,968</td>
<td>1,606,830</td>
<td>6,380,037</td>
<td>7,191,537</td>
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<tr>
<td><strong>Normalized CPU I</strong></td>
<td>48</td>
<td>48</td>
<td>48</td>
<td>58</td>
<td>72</td>
<td>80</td>
<td>118</td>
<td>212</td>
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<tr>
<td></td>
<td>300</td>
<td>405</td>
<td>2,500</td>
<td>7,000</td>
<td>11,000</td>
<td>23,500</td>
<td>32,000</td>
<td>48,500</td>
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<tr>
<td><strong>Mail Message/Day</strong></td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>150</td>
<td>2,300</td>
<td>39,700</td>
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<tr>
<td><strong>WWW Hits/Day</strong></td>
<td>700</td>
<td>1,274</td>
<td>1,975</td>
<td>2,578</td>
<td>3,403</td>
<td>6,529</td>
<td>8,085</td>
<td>11,898</td>
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<tr>
<td><strong>Network Connects</strong></td>
<td>879</td>
<td>160,000</td>
<td>138,400</td>
<td>19,246</td>
<td>17,213</td>
<td>15,000</td>
<td>17,213</td>
<td>19,246</td>
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</table>
Connect Time in Hours

Fiscal Year

0 1,000,000 2,000,000 3,000,000 4,000,000 5,000,000 6,000,000 7,000,000
FY '88-89 FY '89-90 FY '90-91 FY '91-92 FY '92-93 FY '93-94 FY '94-95 FY '95-96 FY '96-97 FY '97-98 FY '98-99 FY '99-00
6.0 Statistical Review of CIRT Provided Services

The following statistics summarize key services provided by CIRT. The following tables summarize the changes over the past 11 years and clearly illustrates the growth in computing services, despite no increases in staff and only token increases in total budget. As such, it provides a measure of the efficiency and effectiveness of CIRT.

Summary:
Security incidents were up over 20% at UNM in the 1999-2000 fiscal year over the previous fiscal year. While the number of break-ins remained relatively stable, Internet e-mail viruses, network vulnerability scanning and Denial of Service activity increased. Harassment case reports were up for faculty and staff from last year primarily due to security awareness training. The efforts of the UNM Y2K Team paid off by updating software and operating systems that previously were vulnerable to intruders and viruses. Shadowing the password file and installing network firewalls would have significantly decreased the number of incidents by hiding the passwords, identifying and blocking unauthorized network activity. The following reports and graphs present the trends and incidents by category. The tables at the end show a finer breakdown of each category.

Account Abuse Problems:
This fiscal year we had approximately the same amount of account abuses as last year. Harassment is up from last year (102 to 145 cases) and by far remains the major problem in this category. Most of these are related to domestic issues. Commercial misuse has doubled from last year. These continue to be handled routinely by CIRT and the appropriate authorities.
Break-ins to Personal Accounts and Systems:
Overall break-ins were approximately the same as last year with the majority of intruders attacking internal or external systems. The rest were break-ins into individual accounts. The majority of these individual break-ins were discovered prior to the intruders doing damage. This was accomplished by the use of automatic search tools developed by our System and UNIX support staff. Both system and individual account compromises were up in January 2000. This was not unexpected, as intruder groups had been planning disruptive efforts for Y2K. Both CIRT and UNM departmental staff implemented patches and closed accounts without any major disruption to campus-wide services.

System Abuses:
This fiscal year we saw a dramatic increase in Denial-of-Service (DOS) activity from and to UNM. During summer 1999 intruders used Linux exploits to compromise departmental machines to launch DOS attacks. Overall the University experienced a doubling in attacks into and out of our networks and computing systems. Most of these attacks came through systems that had already been compromised. The intruders left backdoors, password sniffers, and DOS tools. The incidents that network and systems staff handled were primarily from intruders placing DOS software on multiple platforms to attack other sites.
Virus incidents:
Computer viruses have doubled this year at UNM. This corresponds with nation-wide trends. CIRT continued its efforts to provide easy to obtain current anti-viral signatures from the web. Our most effective tools were awareness and the implementation of an automatic "infected e-mail" virus detection-deletion program, which lessened the impact of these new e-mail viruses on our user community. Like everyone else during the spring of 2000, UNM experienced more infections with viruses such as the "LOVE BUG" virus/worm. UNM is fortunate in that these new viruses have not yet had a University wide impact.

![Viral Problems Graph]

**Table 1**
1999-2000 Fiscal Year
Total Security Incidents

<table>
<thead>
<tr>
<th></th>
<th>Staff/Faculty</th>
<th>Student</th>
<th>External</th>
<th>Unknown</th>
<th>Totals</th>
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</thead>
<tbody>
<tr>
<td>Account Abuses</td>
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<td>60</td>
<td>25</td>
<td>27</td>
<td>141</td>
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<tr>
<td>Break-in</td>
<td>8</td>
<td>69</td>
<td>2</td>
<td>71</td>
<td>150</td>
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<tr>
<td>System Abuses</td>
<td>7</td>
<td>87</td>
<td>12</td>
<td>55</td>
<td>161</td>
</tr>
<tr>
<td>Viral</td>
<td>16</td>
<td>1</td>
<td>3</td>
<td>23</td>
<td>43</td>
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<tr>
<td>Totals</td>
<td>60</td>
<td>217</td>
<td>42</td>
<td>176</td>
<td>495</td>
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**Table 2**
Account Abuse
Fiscal Year 1999-2000

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<th>Student</th>
<th>External</th>
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<th>Totals</th>
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<tbody>
<tr>
<td>Totals</td>
<td>60</td>
<td>217</td>
<td>42</td>
<td>176</td>
<td>495</td>
</tr>
<tr>
<td>System Attacks</td>
<td>2</td>
<td>8</td>
<td>2</td>
<td>6</td>
<td>18</td>
</tr>
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<tr>
<td>Commercial Use</td>
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<td>2</td>
<td>1</td>
<td>13</td>
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<td>0</td>
<td>0</td>
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<td>0</td>
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<td>5</td>
<td>0</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Totals</td>
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<td>60</td>
<td>26</td>
<td>29</td>
<td>145</td>
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Table 3
Break-ins: System and Individual
1999-2000 Fiscal Year

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<th>Faculty/Staff</th>
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<th>Unknown</th>
<th>Totals</th>
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<tbody>
<tr>
<td>System Attack</td>
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System Abuses
1999-2000 Fiscal Year

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1998-1999 Fiscal Year

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7.0 NEW STAFF and SEPARATIONS

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