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ANNUAL REPORTS 2003-2004

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Center for Academic Program Support Annual Report 2003-2004 Submitted by Karen R. Olson

Significant Developments

As of July 1, 2003, the Center for Academic Program Support separated administratively from the General Library, becoming responsible for all budgetary concerns (student employment, hiring, and payroll; staff hiring, payroll, and leave; purchasing and budget reconciliation) and for its technology.

CAPS began the fall semester 2003 with TutorTrac, a commercial, web-based, scheduling, payroll, and reporting program. TutorTrac replaced the customized program that CAPS had used for over ten years. Student users now log-in using their student ID number for all appointments and drop-in labs at all CAPS locations.

CAPS director served as on-site co-chair and the CAPS staff served as the on-site committee for College Reading and Learning Association's national conference. The Conference, hosted by the University of New Mexico General Library and the Center for Academic Program Support, was held in Albuquerque in October 2003 and attended by approximately 500 participants.

From June 1, 2003 through May 31, 2004, CAPS served approximately 4050 individual students, for more that 23,350 contacts, and more than 25,100 contact hours. (These numbers include tutoring sessions, Supplemental Instruction, and Smarthinking.)

Plans and Recommendations

The Center for Academic Program Support is preparing to support the University of New Mexico's Medical School BA/MD program. If the Program is funded, CAPS will offer Supplemental Instruction for the required science and math courses. CAPS will continue to work with the Medical School and the College of Arts & Sciences on this project.

As the Core Curriculum undergoes review, CAPS will remain flexible to ensure that CAPS structure and services meet the changing needs of the University's students and faculty.

Student demand for Smarthinking (a commercial on-line tutoring service that offers among other services live math tutoring 24 hours a day, 7 days a week) is greater than CAPS can fund. It is, therefore, CAPS recommendation that other funds be sought to ensure equal access for all UNM students. Discussions have begun between CAPS and VP for Student Services regarding this.

Based on student demand, CAPS has plans for increasing Supplemental Instruction sessions and Smarthinking hours and for hiring more tutors and adding new tutoring locations on campus. However, these plans cannot go forward without additional staffing--a program coordinator for Supplemental Instruction and an Administrative Assistant I to assist with the duties that came with the separation from the General Library.

Appointments to Staff

2

Elizabeth C. Fletcher, Data Analyst, effective January 14, 2004.

Separations of Staff

Michael Chavez-Kerr, Data Analyst, effective August 17, 2003

Outside Professional Activities

Carolina Aguirre

Conferences

College Reading and Learning Association, Albuquerque, NM, October 2003 Cambridge Stratford Study Skills Institute, Online Tutor Training Course, April 2004

Aaron Begay

Conferences College Reading and Learning Association, Albuquerque, NM, October 2003

Leora Byrne

Conferences College Reading and Learning Association, Albuquerque, NM, October 2003

Mary Ellen Kurucz

<u>Conferences</u>

College Reading and Learning Association, Albuquerque, NM, October 2003 Association for Humanistic Psychology, Albuquerque, NM, December 2003 National Association of Social Workers, New Mexico Chapter Annual Conference,

Albuquerque, NM, February 2004 Cambridge Stratford Study Skills Institute, Online Tutor Training Course, April 2004

Jennifer Martinez

Conferences

College Reading and Learning Association, Albuquerque, NM, October 2003 Cambridge Stratford Study Skills Institute, Online Tutor Training Course, April 2004

Karen R. Olson

Committees College Reading and Learning Association 36th Annual Conference, On-site co-chair

Conferences

College Reading and Learning Association, Albuquerque, NM, October 2003

The Robert O. Anderson Schools of Management

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Annual Report 2003-2004

Submitted by: Kenneth G. Baker, Associate Dean

UNM Annual Report for Academic Year 2003-2004 For The Robert O. Anderson Schools of Management

Dean Howard L. Smith

In Fall 2003, the Anderson Schools enrolled a record 1,116 undergraduates and 507 graduate students, representing an increase of 6.2% and 5.5% respectively for an overall 5.9% increase from FY 02. This extends a long-term growth trend with substantial enrollment increases since Howard Smith began his deanship in 1994.

Nationally, Anderson continued to be recognized for its strengths in key mission and program areas. For the fourth straight year, *Hispanic Business Magazine* placed ASM in its top 10 business schools for Hispanic students, advancing the Schools to a ranking of 4th in the nation. On an even broader stage, the *Aspen Institute and World Resources Institute*, based on a study of business ethics programs, ranked the Anderson Schools 15th in the world for their work in business ethics and social issues management.

Dean Smith raised endowment funds for an ASM chair and a fellowship during the academic year. He was also instrumental in raising approximately \$3M for an endowment for the School of Public Administration. The ASM Center for Support for Economic Development was fully funded this year. Dean Smith also moved forward with the Native American Program to serve Native American interests as well as continued support for the Small Business Institute and Management of Technology programs.

ASM has moved forward on learning assurance by creating and administering a Learning Assurance Test to all ASM students as well as a portfolio analysis in the capstone class. Learning assurance is part of maintaining AACSB accreditation as well as enhancing the probability of success with reaffirmation starting in the 2004-2005 academic year when ASM undertakes its self-study and prepares for the AACSB onsite visit in Fall 2005.

Dean Smith stepped down as Dean of the Anderson Schools of Management at the end of academic year 2003-2004. He resumed his faculty status and will continue his academic career at ASM.

Dean Charles Crespy was hired as the new Dean of the Anderson Schools of Management at the end of the academic year 2003-2004. He was the former Dean at the University of Texas at El Paso, Texas.

Strategic planning is an ongoing activity at ASM. FY 03-04 saw the review and reconsideration of the strategic plan to be more reflective of UNM's strategic plan as well as AACSB standards. The ASM Policy and Planning Committee is reviewing and crafting a more refined Vision, Mission, Goals and Strategic Plan for 2004-2005. As part of this process, there has been extensive interaction with many ASM stakeholders ranging from ASM faculty, staff, students, ASM Foundation Board, ASM National Advisory Board, UNM Administration, NM Business Community Leaders and many others.

Vision (Where we see ourselves in 7-10 years)

ASM will be a school of choice for students seeking quality management education, the resource of choice for New Mexico and national employers seeking diverse management talent, and a model of integrity, relevance and excellence in scholarly activities.

Mission (Why we exist, what we're doing to serve those purposes)

Our mission is to advance management theory and practice, and to broadly disseminate management knowledge through scholarly activities, quality management education, and service to the public and private sectors. ASM supports NM economic competitiveness by enabling the management of existing businesses, development and attraction of new businesses and the definition of public policy that encourages economic development balanced with social and environmental responsibility.

Values

Integrity, quality, responsibility, multi-faceted diversity, intellectual curiosity

2003-2005 Planning Assumptions

Maintain AACSB, International accreditation ASM supports the UNM strategic plan UNM-provided budget is stable or increasing BBA demand continues to be strong Local demand exists to expand and strengthen graduate programs Resources are allocated to support ASM priority goals & objectives Provide strong, globally competitive graduate and undergraduate management programs.

ISHRIVIDECCO

- Advance the knowledge and practice of management.
- Strengthen and expand ASM contributions to New Mexico Economic Development.
- Expand quality employment opportunities for our graduates.
- Extend ASM programs and outreach beyond main campus.
- Nurture alumni, employer and community relations.
- Create a physical plant that supports our mission.

DEPARTMENT OF ACCOUNTING

Chair:	Alistair Preston	Professor, Grant Thornton LLP Endowed Professorship
Full-time Faculty:	Philip D. Bougen Ann Brooks Michele Chwastiak James Hamill Tom Mouck Dennis F. Togo Craig G. White Joni J. Young	Associate Professor Lecturer Associate Professor Professor, KPMG Professorship Associate Professor Associate Professor Associate Professor Professor, REDW Lectureship
Part-time faculty:	Dawn Addington Jeffrey Bruns Carol LaRotonda Doug Penner Dennis Sterosky Robert Woltil	Stephen Avery Brandon Haines James Maes Alvan Romero Robert Tepper

PROMOTIONS, SABBATICALS, SEPARATIONS, AWARDS

Alistair Preston

completed his term as Chair of the Department of Accounting on June 30, 2004 continued as the Grant Thornton LLP Endowed Professorship

Ann Brooks continued to coordinate, develop and the teach distance education accounting classes

Norman Colter continued to teach the basic financial accounting class and to develop and coordinate curriculum and instructors

Michele Chwastiak

Continued to develop and teach Accounting Information Systems

ASM Foundation Fellowship

James Hamill

will serve as Chair of the Department of Accounting beginning July 1, 2004

continued as the KPMG Professorship

continued writing his featured weekly tax column in Business Outlook, Albuquerque Journal continued writing his featured monthly tax column in Mature Life Magazine Albuquerque Journal

will serve as Chair of the New Mexico Society of CPAs

2004 AICPA Professor-Practitioner Case Development Winner

Served as the representative for the Department of Accounting on the Policy and Planning Committee at the Anderson Schools of Management

Recognized by AICPA Tax Division as winner of 2003 outstanding article award in The Tax Advisor, for July 2003 article

Served as vice-chair on the Executive Committee and Board of Directors of the NM Society of CPAs

Tom Mouck serves on the Board of Directors of NM Wilderness Alliance Leslie Oakes serves on the Finance Committee of Healthcare for the Homeless **Dennis** Togo was Promoted to Full Professor effective July 1, 2004 served on Curriculum Committee of the UNM Faculty Senate **Craig White** continues to serve as faculty advisor for Beta Alpha Psi

is a mentor and instructor in the Junior Achievement program

Joni Young

serves on the Board of Directors of Youth Development, Inc. was the recipient of the General Library's Faculty Acknowledgment Award, January 2003

INTELLECTUAL CONTRIBUTIONS

DEPARTMENT OF ACCOUNTING

Philip Bougen

Publications

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

Michele Chwastiak

Publications: "Silences in Annual Reports," with J. Young, Critical Perspectives on Accounting, July 2003, pp 533-552

James R. Hamill

Invited Publications (Not Refereed)

"Convertible Debentures as an ISO Alternative," Executive's Tax and Management Report, June 2004, pp. 7-8

Weighing in on the Withholding Proposal," Executive's Tax and management Report, May 2004, p. 4

"Buying and Selling Equity Interests in Disregarded Entities," Executive's Tax and Management Report, March 2004, pp. 4-5.

"New Ideas for Family Corporation Stock Redemptions," Executive's Tax and Management Report, December 2003.

"New Ruling Relieves Partnership Like-Kind Exchange Concern," Executive's Tax and Management Report, October 21, 2003.

Tom Mouck

Publications:

"Ancient Mesopotamia Accounting and Human Congitive Evolution," forthcoming, Accounting Historian Journal

"Institutional Reality, Financial Reporting and the Rules of the Game," forthcoming, Accounting, Organizations and Society

Leslie Oakes

Publications

Performance Measures and the Rationalization of Organizations, B. Townley, D. Cooper (2003), Organization Studies, Vol 24, No. 7: 1045-1071.

Alistair M. Preston

Publications

Preston, A.M; Alverson; D., Shannon, S.; Sullivan, E.; Prill, A.; Effertz, G.; Helitzer, D.; Beffort, S. (forthcoming), Telehealth in the Trenches: Reporting back from the Frontlines in Rural America, Telemedicine Journal

Presentations:

Lecture and commentary on Power Trip, a documentary on an American company that tries to keep the lights on in the former Soviet Republic of Georgia at Madstone, February 2004

Dennis F. Togo

Publications

"Risk Analysis for Accounting Models: A Spreadsheet Simulation Approach," forthcoming, Journal of Accounting Education.

Presentations

"Simulation for Risk Analysis of Accounting Models," Southwest American Accounting Association, March 2004.

"Computer Projects for Cost/Managerial Accounting," Effective Learning Strategies Forum, American Accounting Association, 2003 Annual Meeting

Craig G. White

Publications

Hutchison, P. and C. White. Forthcoming. "Productivity and Participation Analyses: Academic Tax Articles by Accounting Faculty 1980-2000" Advances in Taxation.

Hutchison, P., T. Lee, and C. White. Forthcoming. "Development of the Journal of Information Systems from the Editors' Perspectives", Journal of Information Systems

White, C. 2003. "Simplified Child Definitions Don't Go Far Enough" Tax Notes (July 7):98-99.

Tax Policy Refereed Publications

White, C., 2003 "Simplified Child Definitions Don't Go Far Enough" Tax Notes (July 7) 98-99

Professional Refereed Publications:

White, C. Forthcoming. "United States Financial Accounting and Taxation Rules Associated with Research and Development Activities: The Case of Internally Developed Computer Software," Strategica.

Presentations:

Resident Faculty - AICPA/ University of Illinois National Tax Education Program, July 2003.

"Tax Update: A Time of Transition" presented to the Association of Latino Professionals in Finance & Accounting, National Convention, October 4, 2003

"Working With the AMT" presented at Pulakos & Alongi, October 14, 2003

Joni J. Young

Publications

"Constructing, Persuading and Silencing: The Rhetoric of Accounting Standards," Accounting Organizations and Society, v. 28, 621-638.

"Silences in Annual Reports", with M. Chwastiak, Critical Perspectives on Accounting, July 2003, pp 533-552

SERVICE ACTIVITIES DEPARTMENT OF ACCOUNTING

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

The Department of Accounting also hosted the following three visiting scholars:

Dr. Jesse Dillard, Portland State University, Portland, Oregon, presented a paper entitled "Modes of Management Accounting and Control Systems; A Sociological Problematic," on Friday, November 14, 2003.

Dr. Nola Buhr, University of Saskatchewan, Saskatoon, Saskatchewan Canada, presented a paper entitled "Constructing Accountability the Cameco Way," Thursday, March 25, 2004.

Dr. Violina Rindova, University of Maryland, College Park, Maryland, presented a paper entitled "Celebrity Firms: The Social Construction of Market Popularity," Friday, April 23, 2004.

The Department of Accounting organized the Annual Accounting Career Fair held at the Marriott on Tuesday, September 16, 2003. The honor society, Beta Alpha Psi assisted in manning the front sign-in desk the evening of the event. This event offers Anderson accounting students an opportunity to meet with local and national accounting firms, local businesses recruiting accounting students, government agencies and members of local and national

accounting organizations assisting members in a variety of ways. Between 185 and 200 undergraduate and graduate students attended this career fair. In addition, more than 100 students enrolled in the introductory financial accounting course also attended to become acquainted with the career opportunities available to accounting majors. Department of Accounting faculty were in attendance.

§ Philip Bougen

Ad hoc Reviewer:

Accounting Organizations and Society

Accounting, Audit and Accountability Curriculum and Programs Committee, Anderson Schools of Management Entrance and Credits Committee, Anderson Schools of Management Faculty Advisor for Beta Gamma Sigma Honorary Society Thesis Examiner for Ph.D. Program, University of Wollongong, Australia Beta Gamma Sigma faculty advisor and coordinator for ASM Chapter

Attended Visiting Scholar Presentations

§ Ann Brooks

Serves as the NM Educators Federal Credit Union Supervisory Committee Chair Member of TVI online Advisory Board responsible for developing best practices, infrastructure and policies based on feedback from NM Virtual College

Institute of Management Accountants Board Member - Communication Team Leader

Provided Q&A services for Grant Thornton, Accounting Firm, regarding their Medicaid RFP

Attended ASM and Accounting Career Fairs Attended Visiting Scholar Presentations Presented at IMA National Conference and Stop Surfing Conference Member of Committee on Students for IMA National Attended AGBS meet and greet Member of UNM IA Search Committee Umpire for Rookie Little League

§ Michele Chwastiak

Freshman Convocation Planning Committee, December 2003 Editorial Board: Accounting Forum Ad hoc Reviewer: Critical Perspectives on Accounting Accounting Forum Accounting and the Public Interest Faculty Advisor to the UNM student World Peace Buddhist Club Accounting Department representative on the Policy & Planning Committee Attended ASM Hall of Fame Awards Dinner Attended Visiting Scholar presentations

Attended Pride in the Profession Luncheon

Attended Native American Student Banquet

Volunteer at the bookstore at the community center for the Soka Gakkai International, USA Coordinate and plan activities for the Soka Gakkai Int'l, a world peace Buddhist organization Organized a plenary symposium on "Accounting for War, at the Interdisciplinary Perspectives on Accounting Conference in Madrid, Spain

§ Norman Colter

Attended ASM Career Fair

Fiscal consultant and planning board member for Academia de Lengua y Cultura, APS charter school

Member of the American Institute of CPAs

Member of the NM Society of CPAs

Faculty Advisor for Future Business Executives

Serve on the Executive Board of the Assoc. of Latino Prof. in Finance and Acctg.

Served as auditor of the Miss Albuquerque and Miss Rio Rancho Scholarship Pageant

Faculty Advisor for Association of Latino Professionals in Finance and Accounting

Attended Visiting Scholar presentations

§ James R. Hamill

Editorial Board membership: Harcourt Brace Professional Publishing, Executive's Tax and Management Report, 1994-present

Policy and Planning Committee, Anderson Schools of Management

ASM Faculty Budget Review Subcommittee

Faculty Advisor for the Masters of Accounting Program, Tax and Advanced Track

AICPA Virtual Grassroots Panel Member

American Taxation Assoc. – Tax Policy Oversight Committee, Graduate Tax Education Committee and Flow-through Tax Entities Policy Subcommittee Chair

Manager of the Roadrunner Little League

NM Tax Research Institute Academic Forum, 2004.

NM Society of CPAs

Vice-Chair

Board of Directors

Executive Committee

Professional Development Leadership Section

Tax Conference Organizing Committee

Speaker:

NM Society of CPAs

NM Estate Planning Council

Arizona Tax Conference

Assoc. of Latino Professionals in Finance Accounting National Convention Conducted Seminars for local and national accounting firms

§ Tom Mouck

Ad hoc Reviewer: Critical Perspectives on Accounting Member Editorial Advisory Board for: Accounting, Auditing and Accountability Journal; Accounting Forum Alternative Perspectives on Finance and Accounting Member Board of Directors and Chair of the Finance Committee of the NM Wilderness Alliance Member ASM budget review committee Attended Visiting Scholar Presentations

§ Leslie S. Oakes

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

§ Alistair M. Preston, Chair

Member of the Chairs and Deans Committee Faculty advisor for the Association of Latino Professionals in Finance and Accounting Contract with Telehealth to develop a business plan for their organization

Initiate bi-annual meetings with recruiting representatives of the accounting firms

Instructor - Basic Accounting Certificate Program organized through the ASM-MDC Attended:

ASM Hall of F ame E vent; A SM G raduation C eremonies; A SM A ccounting C areer F air and ASM Career Fair; Advisory Board Meeting; Pride in Profession Lunch; Visiting Scholar presentations

Speaker at ASM-EMBA Open House

Ad hoc Reviewer:

Critical Perspectives in Accounting Faculty advisor for the Masters of Accountancy Professional Track

§ Dennis F. Togo

Editorial Board, Issues in Accounting Education, AAA Member: NM Society of CPAs American Institute of CPAs American Accounting Association Sandia Audit Intern Program Committee Accounting Department Curriculum Revision Committee, Chair Member of the UNM Faculty Senate Curricula Committee Ad Hoc Reviewer

Accounting Education - An International Journal Southwest AAA Conference Western Decision Sciences Institute Conference Volunteer as an Assistant Scout Master Treasurer, Committee to Elect Paul Barber, NM State Supreme Court Attended visiting scholar presentations

§ Craig G. White

Chairperson American Taxation Association Family Tax Policy Committee Ad hoc reviewer Accounting and the Public Interest Speaker Assoc. of Latino Prof. in Finance and Accounting Annual Convention, Oct. 2003 Pulakos & Alongi, October 2003 Annual NM Tax Conference Dec 2003 American Institute of CPA's, Univ. of Illinois National Tax Education Program, Summer 2003 Faculty Advisor - Beta Alpha Psi - ASM Chapter Co-chair of the 2003 Beta Alpha Psi Regional Meeting in Houston, TX Faculty Advisor University of New Mexico Volunteer Income Tax Assistance Program Attended ASM Hall of Fame Event Member NM Society of CPAs Marketplace Committee American Accounting Association American Taxation Association NM Society of CPAs Attended visiting scholar presentations

§ Joni J. Young

Board Member of YDI, Inc, February 2002 - present Strategic Development Committee Chair of the Financial Oversight Committee, September 2002 - present. Attended ASM Hall of Fame Event Member of editorial boards of: Accounting History (1999-present) Accounting Historian's Journal (1995-present) Accounting and the Public Interest Accounting, Auditing and Accountability Journal Ad hoc Reviewer for: Accounting Historians Journal Accounting Historians Journal Accounting, Organizations and Society Critical Perspectives on Accounting Accounting, Auditing and Accountability Journal

Accounting and the Public Interest

Scandanavian Journal of Management

Member Accounting Award Committee of the Am. Accounting Assoc. Coordinator of Regions, Public Interest Section, Am. Accounting Assoc. Beta Alpha Psi Advisory Board Member Member ASM Scholarship Committee Attended Beta Alpha Psi Advisory Board meeting Attended Accounting Department Career Fair Attended visiting scholar presentations

DEPARTMENT OF ORGANIZATIONAL STUDIES

Chair:	Helen J. Muller	Professor
Full-time Faculty:	John Ackerman	Visiting Lecturer
-	Michelle Arthur	Assistant Professor
	Joe Champoux	Professor
	Jan B. Corzine	Associate Professor
	Eddie Dry	Lecturer
	Sally Fuller	Associate Professor
	Jacqueline Hood	Professor
	Daniel Ivey-Soto	Visiting Lecturer
	Ron Johnson	Visiting Lecturer
	Jeanne Logsdon	Professor
	Allen Parkman	Professor
	James Porter	Associate Professor
	Paul Sandoval	Visiting Lecturer
	Douglas Thomas	Assistant Professor
	Howard Smith	Dean/Professor
	Harry Van Buren	Assistant Professor
	John E. Young	Professor
Part-time Faculty:	Tom Bonafair	James Pendergast
•	Amanda Carrillo	Kalynn Pirkl
	Fritz Eberle	Andreea Popescu
	Dan Faber, J.D.	Elaine Ramirez
	Sam Giammo	Rebecca Rigney
	Wynn Goering	Victor Rizzo, Ph.D.
	John Kneen	Cheryl Schuster
	Pablo Lopez	Ross Vanwassenhove
	Karen McCue	Larry Waldman
	Drew Parsons	

SIGNIFICANT DEVELOPMENTS, SPONSORED ACTIVITIES

§ Currently housing the international journal - Business & Societ, y Prof. Logsdon, Editor.
 § Hosted a r eception in fall 2003 to thank DOS faculty and adjunct faculty for their contributions.

§ Faculty searches 2003-2004: Search process begun in Fall 2003 included obtaining authorization for search (Dean & OEO), organizing and working with two 4-member search committees, interviews in June for three tenure-track Assistant Professor positions, one in Business & Society and two in Human Resource Management. Candidates interviewed resulted in hiring of Harry Van Buren (ABD) from University of Pittsburgh as Assistant Professor of Business & Society, Dr. Ann Cunliffe, University of Lancaster, UK, as Assistant Professor of Human Resource Management, and Dr. Robert DelCampo, University of Arizona, as Assistant Professor of Human Resource Management.

§ Visiting Lecturers hired including extension/continuation of Mr. John Ackerman, Dr. Paul Sandoval, Mr. Ronald Johnson for 03-04, with Mr. Daniel Ivey-Soto hired for Fall 03.

§ The American Indian Business Association (AIBA) had a very successful, active year which included recruitment to N ative feeder schools, conference presentations, and a banquet sponsored by and held at Route 66 Casino that involved tribal leaders, corporate sponsors, ASM faculty, students, and family. Professor Muller is faculty advisor.

§ John Ackerman continues to be our liaison for the Annual NM Business Ethics Awards and works with 2 undergraduate classes on assessing the potential recipients' qualifications.

§ Michelle Arthur served as Search Committee Chair for the HRM Assistant Professor position, Faculty Advisor to the Society of Human Resource Management – ASM Chapter, and as Learning Assurance Test, Human Resource Management Coordinator.

S Joseph Champoux developed a Web-based MGT 306 course offered for first time, Fall 2003. He also Developed a cinema-based cross-cultural introduction to International Human Resource Management for ESC Caen, France, which was presented in November 2003.

§ Eddie Dry serves as the Secretary of UNM Scholarship Committee. He was the originator and main organizer of the 2004 Tourism Research and Marketing Conference in Albuquerque in March 2004 sponsored by A SM/UNM, NMSU, Tourism Association of New Mexico, New Mexico Chambers of Commerce Executive Association, and Rick Johnson & Co. He also is a member of the Board of Directors for the Tourism Association of New Mexico.

§ Jacqueline Hood is a Founding Member of the Center for Ethical and Integral Management Studies. She continues to serve as a facilitator and trainer in the local business community. She is Chair of the UNM Academic Freedom & Tenure Committee, 2002-2004.

§ Jeanne Logsdon is the Editor for *Business & Society* housed at the Anderson Schools of Management, and Member of the ASM Dean's Search Committee – elected by the ASM faculty as representative to the Committee. She is also Chair, University Committee on World Bank Bond Boycott and Socially Responsible Investing.

§ Helen J. Muller is a member of the Provosts Strategic Diversity Metrics Group and Faculty Advisor to the American Indian Business Association.

§ Allen Parkman is a member of the Teaching Allocation Subcommittee and was on the Faculty Senate in the Fall.. He also testified in the legislature on legislation that would make mutual consent a ground for divorce in New Mexico.

§ **Doug Thomas** recipient of the Anderson Alumni Fellowship from Anderson Schools of Management providing funding for research activities.

§ John E. Young was the recipient of the prestigious Nunn-Perry Award for 2003. Presented to outstanding Mentor-Protégé teams by the Department of Defense (DoD) to Terradigm, Inc., A.T.&T. Government Solutions, and the University of New Mexico.

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

We have hired several new Assistant Professors in DOS. We continue to actively support the Annual NM Business Ethics Awards. In the future we will be adding new faculty as some of us retire. Helen Muller will be stepping down from her position as Department Chair in August 2004. Allen Parkman will succeed her as the new DOS Department Chair.

APPOINTMENTS, PROMOTIONS, SEPARATIONS DEPARTMENT OF ORGANIZATIONAL STUDIES

Harry Van Buren was hired in the area of Business & Society. He began teaching the Business & Society courses in Fall 2003.

Michelle Arthur received tenure and promotion to Associate Professor in Spring 2004.

Sally Fuller Associate Professor, resigned from the Anderson faculty to take a position at the University of South Florida, June 2004.

Jan Corzine and James Porter

Associate Professors, retired from the Anderson Faculty after many years of service, May 2004. Howard Smith stepped down from his position as Dean of the Anderson Schools of Management to rejoin the DOS faculty, June 2004.

INTELLECTUAL CONTRIBUTIONS

DEPARTMENT OF ORGANIZATIONAL STUDIES

Michelle Arthur

Publications

Arthur, M.M. & Cook, A. (2003). The relationship between work-family human resource practices and firm profitability: A multi-theoretical perspective. *Research in Personnel and Human Resources Management Review*, 22, 219-252.

Arthur, M.M. (2003). Share price reactions to work-family human resource decisions: An institutional perspective. Academy of Management Journal, 46, 497-505.

Frink, D.D., Robinson, R.K., Reithel, B., Arthur, M.M., Ammeter, A.P., Ferris, G.R., Kaplan, D.M., & Morrisette, H.S. (2003). Gender demography and organization performance: A twostudy investigation with convergence. *Group and Organization Management*, 28, 127-147.

Presentations

Arthur, M.M. & Cook, A. (March, 2004). Shareholder rewards for a Catalyst award. Conference presentation at the *National Business and Economics Society*, Kona, HI.

Thomas, D.E., Arthur, M.M., & Hood, J. (2003, October). *Determinants and outcomes of* gender diversity in Mexican firms. Seminar presentation in the Anderson Schools of Management at the University of New Mexico.

Arthur, M.M., Gerde, V., & Silva, P. (2003, June). Corporate diversity programs and performance. Annual conference presentation at the International Association for Business and Society, Rotterdam, Holland.

Joe Champoux

Publications

At the Movies: Human Resource Management. Mason, Ohio: South-Western, a division of Thomson Learning, 2004 (103 pages).

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

Instructors Manual to Accompany At the Movies: Human Resource Management. Mason, Ohio: South-Western, a division of Thomson Learning, 2004 (106 pages).

Instructor's Manual for Our Feature Presentation: Management. Mason, Ohio: South-Western, a division of Thomson Learning, 2004 (55 pages).

Instructor's Manual for Our Feature Presentation: Organizational Behavior. Mason, Ohio: South-Western, a division of Thomson Learning, 2004 (53 pages).

"Commentary on Filmmaking and Research and Images of Influence." Journal of Management Inquiry, 2004 13(4): 1–5.

Presentations

Discussant in Symposium organized and Chaired by C. Douglas Johnson, "Turning the Silver Screen into Classroom Gold! Using Full-length Films for Competency Development." Academy of Management meeting, August 4, 2003, Seattle, Washington.

Interactive paper session, "Copyright Issues Raised by Using Film as a Teaching Resource." Academy of Management meeting, August 5, 2003, Seattle, Washington.

"Our Feature Presentation: Human Resource Management, An Update." Luncheon speaker, Southern New Mexico Association for Human Resource Management, Las Cruces, New Mexico, September 12, 2003.

"Film as a Teaching Resource" in the *Teaching Methodologies for the 21st Century -- A Teaching Development Workshop* organized by Marie-Line Germain, City College, Miami, FL. Clearwater Beach, FL, November 14, 2003. New film scenes as teaching resources.

"Film as a Teaching Resource: Using Popular Cinema to become a Classroom Star!" in the Business Administration Section, Texas Community College Teachers Association Convention, Fort Worth, Texas, February 21, 2004.

Eddie Dry

Report

"Marketing Plan and Strategy for the Lifelong Learning Center, Institute for American Indian Arts, Santa Fe, New Mexico." February 2004.

Presentation

"Marketing Planning for Small Businesses," Tourism Research and Marketing Conference, Albuquerque, March 2004.

Sally Fuller

<u>Publications</u> Aldag, R. J., & Fuller, S. R. (2003). Groupthink and group problem solving: Current issues. <u>Encyclopedia of Applied Psychology</u>.

Jacqueline Hood

Publications

Hood, J. N., Olivas, T., Slocter, C. B., Howard, B., & Albright, D. P. (2003). V ulnerability Assessment through Integrated Transportation Analysis. <u>Transportation Research Record:</u> <u>Journal of the Transportation Research Board</u>, National Research Council, TRB Record No. 1822, Transportation Security and Infrastructure Protection, 18-23.

Presentations

Waldman, J. D., Smith, H. L. & Hood, J. N. Systems Thinking in Health Care Change. To be presented at the International Conference for Systems Thinking in Management, Philadelphia, May 2004.

Hood, J. N. & Nguyen, C. P. The Impact of Narcissism on Perceptions of the Organizational Climate and Acculturation and Assimilation To be presented to the Western Academy of Management Meeting, Alyeska, Alaska, April 2004.

Waldman, J. D., Hood, J. N., Smith, H. G. & Arora, S. The Value of Retention in Health Care. To be presented at the Western Academy of Management Meeting, Alyeska, Alaska, April 2004.

Waldman, J.D., Smith, H., Hood, J. N., and Arora, S. Retention Rather Than Turnover: Changing the Approach to Workforce Movements. To be presented to the National Business and Economics Society, March 2004.

Rizvi, R., Hood, J. N., and Albright, D. P. Assessment of the Benefits and Costs of Research Projects: A Comparison of Four Methods of Analysis. Presented at the Transportation Research Board Conference, January 2004.

Invited Presentations

"The Dysfunction Junction: Getting Your Team on Track," invited presentation for the Management Development Center Human Resource Managers' Breakfast, Albuquerque, NM, January 2004.

"The Dysfunction Junction: Getting Your Team on Track," invited presentation for the EMBA Alumni Dinner, Albuquerque, NM, January 2004.

"Managing the Intangible: Nonverbal Communication for Human Resource Managers," invited presentation for the Human Resource Management Association, Albuquerque, NM, December 2003.

"Using Nonverbal Communication to Enhance Your Effectiveness," invited presentation for the Institute of Internal Auditors, Albuquerque, NM, December 2003.

"Effective Nonverbal Communication," invited presenter for the Association of Latino Professionals in Finance and Accounting, Albuquerque, NM, October 2003.

Jeanne Logsdon

Proceedings

"Global Business Citizenship for Human Rights and a Sustainable Environment." In P. Lewellyn and S. Welcomer (eds.), <u>Proceedings of the Fourteenth Annual Meeting of the International Association for Business and Society</u>, Rotterdam, The Netherlands, pp. 68-72. (With Donna J. Wood.)

Douglas Thomas

Conference Presentations

Thomas, Douglas E. & Eden, Lorraine. 2003. The institutional distance paradox: Internationalization strategies of emerging market firms. Strategic M anagement S ociety M ini-Conference on Emerging Markets. Hong Kong, China.

Thomas, Douglas E. 2003. The internationalization of emerging market firms into the USA and Europe. Global MBA Conference: Los retos del líder latinoamericano. Instituto Tecnológico de Estudios Superiores de México. México City, México.

Thomas, Douglas E. & Hunsaker, B. Thomas. 2003. Organizational humility. Society of Human Resource Management, New Mexico State Council Meeting. Albuquerque, New Mexico.

Thomas, Douglas E., Arthur, Michelle M. & Hood, Jacqueline N. Internationalization, TMT Gender Diversity and Firm Performance in Mexican Firms. Presented at the 2004 Academy of Management Conference in New Orleans (International Management Division), June 2004.

<u>John E. Young</u>

Publications

"The Sage Entrepreneur: A Review of Traditional Confucian Practices Applied to Contemporary Entrepreneurship" (with Janice B. Corzine). <u>Journal of Enterprising Culture</u>, 12(1), 79-104.

"What Makes Entrepreneurs Learn and How Do They Do It?" (with Donald L. Sexton). Journal of Entrepreneurship, 12(2), 155-182.

"Impacts of Evolution of Consciousness on Organizational Functioning: A Contribution to Positive Organizational Scholarship" (with Jeanne M. Logsdon). In the <u>Proceeding International</u> <u>Conference on Advances in Management</u> (President's Track). (ICAM 2000). March 24-27, 2004, Orlando, Florida.

Presentations

The Sage Entrepreneur: Traditional Confucian Practices Applied to Contemporary Entrepreneurship (with J. B. Corzine), Academy of Management Annual Meeting, August 2003, Denver, CO.

Aperspectival Sensemaking for Executives (with J. M. Logsdon). 31st Annual Gebser Conference of the International Jean Gebser Society For the Study of Culture and Consciousness, October 2002, Santa Fe, NM.

Grants

2003, \$75,312 mentor-protégé grant for minority businesses from the U.S. Air Force, 311th Human Systems Wing's Small Business Office. Working with Terradigm, Inc. and AT&T-Government Solutions, Inc. (GSI). (Increased from original \$38,080).

DEPARTMENT OF FINANCE, INTERNATIONAL AND TECHNOLOGY MANAGEMENT

Chair:	Dwight Grant	Professor, Douglas M. Brown Professorship
Full-time Faculty:	Leslie Boni Dante DiGregorio Raul de Gouvea Sulieman K. Kassicieh Jana Hranaiova Andres Salazar John Schatzberg Gautam Vora Steve Walsh	Assistant Professor Assistant Professor Associate Professor Professor, Albert Franklin Black Professorship Assistant Professor, Sandia Fed Lectureship 02-05 Professor, PNM Chair inMicrosystems Professor, Sandia Federal Lectureship Professor, Sandia Federal Lectureship Assoc. Prof., Albert Franklin Black Prof of Entrepreneurship
Part-time Faculty:	Dominic Bernardi Produyt Das Michael Hand John Kneen Gary McQueary George Sanzero	James Cormier George Friberg Howard Hickey Douglas Manz Deborah Pierson Jay van Wyk

SIGNIFICANT DEVELOPMENT, SPONSORED ACTIVITIES

Summer semester 2003 - The Anderson Schools of Management and members of the FIT Department at The University of New Mexico hosted 25 Executive MBA students from a private university in S ao P aulo, B razil. The students, from the F undação A rmando Á lvares P enteado University (FAAP) spent three weeks at The Anderson Schools as part of an international exchange study. They took classes in Organizational Behavior and Diversity, Electronic Commerce, Management of Services and Mergers and Acquisitions, taught by Anderson Schools' faculty members Dante Di Gregorio, Jackie Hood, Jana Hranaiova, Sul Kassicieh and Steve Yourstone. The exchange students have also visited Wal-Mart's distribution center, and attended lectures by local business people. The 25 students were accompanied by 2 professors. As part of the FIT Department efforts to extend this type of hemispheric partnership, Professors de Gouvea and Grant visited the University of Guanajuto in April 2003. While there they presented lectures to the Executive MBA class and discussed avenues for future cooperation.

SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE

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

APPOINTMENTS, PROMOTIONS, SEPARATIONS

DEPARTMENT OF FINANCE, INTERNATIONAL AND TECHNOLOGY MANAGEMENT

Professor Leslie Boni is spending the 2003 – 04 academic year working at the Securities Exchange Commission in Washington D. C. on an Inter-Agency Personnel Agreement contract. Professor Jana Hranaiova is spending the 2003 – 05 academic years working at the Commodities Futures Trading Commission in Washington D. C. on an Inter-Agency Personnel Agreement contract.

INTELLECTUAL CONTRIBUTIONS DEPARTMENT OF FINANCE, INTERNATIONAL AND TECHNOLOGY MANAGEMENT

Leslie Boni

Publications:

"Expandable Limit Order Markets", (with Chris Leach), 2004, Journal of Financial Markets, February 7(2), 145-185.

Working papers, presentations, and academic research in progress:

"Analysts, Industries, and Price Momentum" (with Kent Womack) is under submission at the *Review of Financial Studies*. Was presented at the 2004 Western Finance Association meetings.

Raul De Gouvea

Publications

Gouvea, R. (2004). "Doing Business in Brazil: A Strategic Approach" Thunderbird International Business Review, Vol.46, No2, p.165-189

Gouvea, R., Hranaiova, J., and Kassicieh, S. (2004). "Assessing Optimality of Export Portfolios for Five Brazilian Economic Regions." *Revista de Economia & Relacoes Internacionais*. Vol.2, No.4, p.42-57.

Gouvea, R., and Hranaiova, J. (2004). "Assessing the Importance of Environmental Variables in Tourism Demand in Latin America." *Estudios Y Perspectivas en Turismo*, Vol.13, Issue ½, January-

April, p.129-142.

Gouvea, R., Kassicieh, S. (2003). "Latin America.Com." Journal of Current Business Research in Global Business, Vol.5, No.7, p. 64-70.

Gouvea, R., and Hranaiova, J. (2003). "Are Eco-Variables Driving Tourism Demand?" Journal of Global Business, Vol.14, No.26, p. 27-34.

Gouvea, R., and Kassicieh, S. (2003). Shifting the Technology Paradigm: Moving Towards Commercialization: The Brazilian Experience. *Latin American Business Review*, Vol.4 (3), p.91-109.

Invited Academic Articles

Gouvea, R., and Santos, T. (2003). "O Governo FHC e os Desafios da Nova Gestao."

Estrategica, Vol.2, No.1, p.16-26.

Articles in Brazilian Business Magazines & Business Web Sites

Gouvea, R. (2004). "As Multinacionais Digitais Brasileiras." Negocios & Empresas, July 1, America on Line (www.AOL.com.br).

Gouvea, R. (2004). "O Brasil no Seculo da Biotecnologia." Negocios & Empresas, June 4, America On Line (www.AOL.com.br)

Gouvea, R. (2004). "Ecoturismo: Uma Vantagem Competitiva Brasileira." Negocios & Empresas, May 3, America On Line (www.AOL.com.br).

Gouvea, R., and Santos, T. (2004). "Uma Nova Geografia de Comercio: XI Unctad." www.Universiabrasil.net. June 21.

Programs Presentations Refereed

Gouvea, R. (2004). "Issues in Hemispheric Integration." Annual Meeting of the western Decision Sciences Institute. Manzanillo, Mexico, April.

Gouvea, R., Hranaiova, J., and Kassicieh, S. (2004). "Assessing the Importance of Environmental Variables in Total Tourism Demand." Annual Meeting of The Western Decision Sciences Institute. Manzanillo, Mexico. April.

Gouvea, R., and Kassicich, S. (2003). "The Latin American Biotechnology Industry." American Society for Competitiveness. Washington, D.C. October.

Dante DiGregorio

Publications

Di Gregorio, D. Re-thinking country risk: insights from entrepreneurship theory. Forthcoming, *International Business Review*.

Sine, W., Shane, S., and Di Gregorio, D. 2003. The halo effect and university technology licensing. *Management Science*, 49(4): 478-497.

Di Gregorio, D., and Shane, S. 2003. Why do some universities generate more start-ups than others? *Research Policy*, 32(2): 209-227.

Dwight Grant

Publications

Dwight Grant and Gautam Vora, "Analytical Implementation of the Ho and Lee Model of the Spot Interest", *Global Finance Journal*, Vol. 14, 2003, pp. 19-47.

Dwight Grant and Gautam Vora, "Building Lattices: From Cox, Ross and Rubinstein to Heath, Jarrow and Morton," forthcoming *Journal of Financial Education*.

Jana Hranaiova Publications

Gouvea, R., Hranaiova, J., and Kassicieh, S. (2004). "Assessing Optimality of Export Portfolios for Five Brazilian Economic Regions." *Revista de Economia & Relacoes Internacionais*. Vol.2, No.4, p.42-57.

Gouvea, R., and Hranaiova, J. (2004). "Assessing the Importance of Environmental Variables in Gouvea, R., and Hranaiova, J. (2003). "Are Eco-Variables Driving Tourism Demand?" *Journal of Global Business*, Vol.14, No.26, p. 27-34.

Programs Presentations Refereed

Gouvea, R., Hranaiova, J., and Kassicieh, S. (2004). "Assessing the Importance of Environmental Variables in Total Tourism Demand." Annual Meeting of The Western Decision Sciences Institute. Manzanillo, Mexico. April.

Sul Kassicieh

Refereed Publications

R. Gouvea and S. Kassicieh, "Latin America.Com," Journal of Current Business Research, Vol.5, no.7, 2003, pp. 64-70.

Suleiman K. Kassicieh and Steven T. Walsh, "Models of Disruptive Technology Commercialization," *International Journal of Technology Transfer and Commercialisation*, Vol. 3, no. 4, 2004, pp. 187-198.

Raul De Gouvea and Suleiman K. Kassicieh, "Shifting the Technology Paradigm: Moving towards Commercialization," *Latin American Business Review*, Vol. 4 no. 3, 2004, pp. 91-109.

Non refereed

Sul Kassicieh, "Enhancing the Venture and Equity Capital Funding Strategies for Micro and Nanotechnology, "Proceedings of the Commercialization of Microsystems Conference 2003, September 2003, pp. 506-509

Andy Salazar Publications

Education in MEMS. (2003) Keynote Speaker and invited paper; First MEMS

John Schatzberg

Publications

"Liquidity Costs & Side-by-Side Trading of CBOT Interest Rate Futures," (with Carlos Ulibarri), Review of Financial Economics (2003), Vol 12, No.4, 381-396.

Gautam Vora Publications "Analytical Implementation of the Ho and Lee Model of the Spot Interest" (with Dwight Grant), *Global Finance Journal*, Vol. 14, 2003, pp. 19-47.

"Building Lattices: From Cox, Ross and Rubinstein to Heath, Jarrow and Morton," (with Dwight Grant), forthcoming *Journal of Financial Education*.

Steve Walsh

<u>Books</u>

Walsh, S. and Elders, J. (2003) International Roadmap on MEMS, Microsystems, Micromachining and Top Down Nanotechnology pp 614, MANCEF, Naples, Florida

Book Chapters

Walsh, S. and Kirchhoff, B. (2003), "Entrepreneurs Opportunities in Technology –Based Markets" in Technological Entrepreneurship, pp. 17 – 31, Ed. Phil Phan, Information Age Publishing, Greenwich, Ct.

Walsh, S. Elders, J. et al (2003), "Executive Summary" International Roadmap on MEMS, Microsystems, Micromachining and Top Down Nanotechnology p.1-25, MANCEF, Naples, Florida

Walsh, S. Elders, J. (2003), "Ch. 1 Introduction" International Roadmap on MEMS, Microsystems, Micromachining and Top Down Nanotechnology p.26-32, MANCEF, Naples, Florida

Walsh, S., Thurkal, I. et al (2003), "Ch. 2 Commercialization of Microsystems" International Roadmap on MEMS, Microsystems, Micromachining and Top Down Nanotechnology p.33-68, MANCEF, Naples, Florida

Beugelsdijk, T, Varma, S. Walsh, S. et al (2003), "Ch. 4 BioMEMS" International Roadmap on MEMS, Microsystems, Micromachining and Top Down Nanotechnology p.109-157, MANCEF, Naples, Florida

Linton, J., Kirchhoff, B, Thukral, I and Walsh, S. (2003), "Ch. 5 An Improved method and forecast for the worldwide Market Growth of MEMS" International Roadmap on MEMS, Microsystems, Micromachining and Top Down Nanotechnology p.158-173, MANCEF, Naples, Florida

Van Heeren, H., Walsh, S. et al, (2003), "Ch. 11 Status and Future of Microsystems/ MEMS Foundries" International Roadmap on MEMS, Microsystems, Micromachining and Top Down Nanotechnology p.435-455, MANCEF, Naples, Florida

Ayon, A., Walsh, S. et al, (2003), "Ch. 13 Standards or Lack Thereof" International Roadmap on MEMS, Microsystems, Micromachining and Top Down Nanotechnology p.486-517, MANCEF, Naples, Florida

Academic Journals

Linton J.D.; Walsh S.T, (2004), "Roadmapping: from sustaining to disruptive technologies," Technological Forecasting and Social Change, January 2004, vol. 71, iss. 1, pp. 1-3(3) Elsevier Science

Walsh, S. (2004), "Roadmapping a Disruptive Technology: A Case Study The Emerging Microsystems and Top-Down Nanosystems Industry" Technological Forecasting and Social Change, Elsevier Science, January 2004 vol. 71, iss. 1, pp. 161-185(25)

Academic Journal Articles Invited - Non reffered

Walsh, S. Boylan R., Simmons, G. and Tan, A. (2003) "Stakeholder Value Creation in Knowledge Intensive Areas," Estratégica, São Paulo

Professional Journals

Rahaal, N., Case, R., and Walsh, S., "RF MEMS Appeal", Commercialization Corner a column in <u>Micromachine Devices –a Cahners Publication the Editors of R&D magazine</u>, December 2003, Vol. 9, No. 1, pp. 16.

Alexia, B., Case, R., Kirch, D. and Walsh, S., "Is RF MEMS the Next Killer Application Set"MEMS Government funding – a review of current efforts", Commercialization Corner a column in <u>Micromachine Devices –a Cahners Publication the Editors of R&D magazine</u>, December 2003, Vol. 8, No. 12, pp. 16.

Giasolli, R. and Walsh, S., "Tech Education program efforts in in New Mexico," Commercialization Corner a column in <u>Micromachine Devices – a Cahners Publication the</u> <u>Editors of R&D magazine</u>, November 2003, Vol. 8, No. 11, pp. 18.

Rahal, N., Walsh, S., and Walsh, D., "MEMS Government funding – a review of current efforts", Commercialization Corner a column in <u>Micromachine Devices – a Cahners Publication</u> the Editors of R&D magazine, October 2003, Vol. 8, No. 10, pp. 18.

Walsh, S., and Elders, J. "An Entrepreneurial Odyssey: From Microsystems Start-up to Corporate SBU and back again.", Commercialization Corner a column in <u>Micromachine Devices</u> <u>–a Cahners Publication the Editors of R&D magazine</u>, September 2003, Vol. 8, No. 9, pp. 19.

Walsh, S., and Varma, S. 2003, "5 models Bring Economic Development through Clustering", *Commercialization Corner* a column in <u>Micromachine Devices –a Cahners Publication the Editors of R&D magazine</u>, August 2003, Vol. 8, No. 8, pp. 16.

Walsh, S., Elders, J., Wylde, J. 2003, "International Microsystems Roadmap", *Commercialization Corner* a column in <u>Micromachine Devices –a Cahners Publication the Editors of R&D magazine</u>, July 2003, Vol. 8, No. 7, pp. 18.

SERVICE ACTIVITIES DEPARTMENT OF FINANCE, INTERNATIONAL AND TECHNOLOGY MANAGEMENT

§ Leslie Boni

Served as a Visiting Academic Scholar (August 2003 – July 2004) at the U.S. Securities and Exchange Commission, Office of Economic Analysis. Projects included:

Assisting with the SEC's investigations of equity market makers. The NYSE's five largest specialist firms have agreed to pay \$240 million to settle charges that they stepped ahead of their customer orders. Investigations of market makers in other market centers are ongoing.

Providing economic analysis to support the SEC's Regulation SHO, which was adopted on July 28, 2004. It modifies short-selling constraints in equity markets and imposes stricter delivery requirements for short-sellers.

Providing statistical analysis and support for investigation and enforcement actions involving bear raids and stock manipulation schemes in the U.S. and Canada.

Estimating soft-dollar payments by index mutual funds.

Co-authoring *amicus* brief in support of class action litigants in their fraud on the market case against Citicorp-WorldCom. As a result, Citicorp settled with investors for \$2.5 billion.

Analyzing trade-through rates on U.S. equity markets for "de minimus exempted" exchange traded funds in support of the SEC's proposed Reg NMS.

§ Raul De Gouvea

Summer 1999-2004, Visiting professor FAAP, Sao Paulo, Brazil Fundação Armando Alvares Penteado Sumer Executive MBA Program, 2003 and 2004 Consultant to: a) Sebrae, b) World Bank, and c) IDORT. Editorial Board - Estrategica (FAAP), Revista de Contabilidade (UERJ)

§ Dante DiGregorio

Works with a group called the International Business Accelerator (IBA), which is affiliated with the S mall B usiness D evelopment C enters and a n e conomic d evelopment group in S ilver C ity called SIGRED. This year, we worked together in order to submit a federal grant application to the Market Development Cooperator Program, which is administered by the US Department of Commerce. The grant would provide approximately \$400,000 in funding, of which approximately \$100,000 w ould be u sed to e stablish and o perate an office of the IBA here at UNM. Most of that funding would go to students, who would be paid to assist local businesses in devising and implementing entry strategies for international markets. While it is extremely rare for first-time applicants to receive the award, we are optimistic. I have also started having students work on projects for the IBA through the MGT 421 & 596 Entry Strategies for International Markets courses.

§ Dwight Grant

Visiting Professor, Fundação Armando Alvares Penteado, São Paulo Brazil, summer 2003 & 2004

Fundação Armando Alvares Penteado Sumer Executive MBA Program, 2003 and 2004 '

§ Sul Kassicieh

Fundação Armando Alvares Penteado Sumer Executive MBA Program, 2003 and 2004 Member Professional Societies:

Institute of Management Science (TIMS) Operations Research Society of America (ORSA) Decision Sciences Institute (DSI) American Production and Inventory Control Society (APICS) Association of Computing Machinery (ACM) Institute of Electrical and Electronics Engineers (IEEE).

Consulting:

Sandia Microsystems Directorate 1998-present.

Sandia VP for Science & Technology, 1998-present.

Sandia VP for Manufacturing Systems, 2000-present.

Board Member of the New Mexico Private Investors (Angel Network), 2002-present.

Board member of MaNCEF, (Micro and Nano-technology Commercialization Educational Foundation), Technology Ventures Corporation Symposium Advisor and Coronado Ventures Forum Presentation Selection Committee.

§ Andy Salazar

SBIR Grant Reviewer (2003)

Invited and appointed Board member at Regional Development Corporation, a CRO agency partly funded by DOE for economic development of Northern New Mexico counties. Member of the Executive Committee. 2002- present.

Member of "Microsystems cluster" committee of NextGen, a CRO agency based in ABQ. 2002present.

Member of "Excelerator Program" Advisory Committee of NextGen, a program dedicated to mentoring of young entrepreneurs.2002- present.

Member of Board of Directors of an international company – Mixbaal (Mexico).2001-present Member of Research Committee for "New Mexico First" Town Hall 2004.2003-2004

§ John Schatzberg

Have served as referee for the Journal of Financial and Quantitative Analysis, Journal of Business Research, Financial Management, the Financial Review, the Quarterly Journal of Business and Economics, and the Global Finance Journal.

Memberships:

American Finance Association Western Finance Association Eastern Finance Association Southern Finance Association Financial Management Association

Gautam Vora

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Professional Affiliations:

The American Economic Association The American Finance Association Financial Management Association The Western Finance Association The American Risk & Insurance Association The Society for Financial Studies The Southern Finance Association The Southwestern Finance Association International Association of Financial Engineers The Midwestern Finance Association Association for Investment Management & Research The Eastern Finance Association The National Association of Personal Financial Advisors Beta Gamma Sigma Denver Society of Security Analysts

§ Steve Walsh

President MANCEF (Micro and Nano Technology Commercialization Education Foundation) Special Issue Editor for IEEE

Special Issue Editor for IEEE

Nominated for Board of IAMOT (International Association of Management and Technology) Member: Academy of Management, Strategic Management Society, American Chemical Society,

OUTSIDE SPONSORED RESEARCH

DEPARTMENT OF FINANCE, INTERNATIONAL AND TECHNOLOGY MANAGEMENT

Sul Kassicieh

S. K. Kassicieh and S. T. Walsh, "Commercialization of Microsystems Conference Planning," grant awarded for \$63,750 from Sandia National Laboratories, 2003.

Andy Salazar

Kauffman Foundation (2004). A \$25,000 planning grant was awarded in June 2004 to Center of Entrepreneurship and Innovation (CEI).

National Collegiate Inventors and Innovators Alliance (NCIIA) (2004). A \$16,400 grant was awarded to CEI for planning an expanded mechanical engineering/electrical engineering course entitled "Entrepreneurial Engineering." (ME45/ECE495) Part of the funds will be used for construction of product prototypes by student teams in creating business plans.

Steve Walsh

S. K. Kassicieh and S. T. Walsh, "Commercialization of Microsystems Conference Planning," grant awarded for \$63,750 from Sandia National Laboratories, 2003.

DEPARTMENT OF MARKETING, INFORMATION AND DECISION SCIENCES

Chair:	George Hozier	Associate Professor
Full-time Faculty:	Gerald Albaum	Visiting Scholar
	Kenneth Baker	Associate Professor, Associate Dean
	John Benavidez	Lecturer
	Stephen Burd	Associate Professor
	Don Cook	Assistant Professor
	Nick Flor	Assistant Professor
	Richard Reid	Professor
	Catherine Roster	Assistant Professor
	Steven Yourstone	Associate Professor
Part-time Faculty:	Bob McCarty	Howard Kraye
•	Martin B. Peterson	Stacy Sacco
	Linda Shul	• · · · · ·

SIGNIFICANT DEVELOPMENTS

Undergraduate enrollments continue to remain high. Graduate have dropped slightly. Undergraduate marketing concentration capacity was increased by 50% to handle student demand.

Both the marketing and operations areas continue to have difficulty meeting AACSB's full-time and academically qualified coverage requirements.

SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE

Improve SCH sufficiency coverage through hiring.

Visiting Professor in Marketing hired for spring 2005 Initiate search process for two academically qualified, tenure-track faculty marketing. Initiate search process for a full-time Lecturer in operations management.

To assist in generating sufficiency in SCH coverage, Gerald Albaum, Mary Margaret Weber, and Steve Yourstone will serve as an instructor of record during the Fall, 2004 semester. Gerald Albaum will serve as instructor of record during the Spring, 2005 semester.

APPOINTMENTS, PROMOTIONS, SEPARATIONS

Robert Rogers, Ph.D., left UNM employment at the end of the Spring, 2004 semester. Jack Su, Ph.D., will join the operations faculty in August 2004. Doug Stewart, Ph.D., will join the operations faculty in August 2004. Dick Reid, Ph.D., will retire from operations management in December 2004. George Hozier will retire as Chair of MIDS and from marketing in June 2004. Linda Shul, will be hired as a full time lecturer in marketing for the 2004-2005 academic year under a Form 5 exception.

Howard Kraye and Bill Kime will be hired as full-time lecturers in operations for the 2004-2005 academic year under Form 5 exceptions.

INTELLECTUAL CONTRIBUTIONS

DEPARTMENT OF MANAGEMENT, INFORMATION AND DECISION SCIENCES

Gerald Albaum

<u>Books</u>

Fundamentals of Marketing Research. Thousand Oaks, CA: Sage Publications, 2005 (with S. Smith)

International Marketing and Export Management. Pearson Education Limited (UK), Fifth Edition, 2005 (with E. Duerr and J. Strandskov)

Monographs and Research Reports

Public Perceptions of Direct Selling: An International Perspective. London: Westmintser University Press, Westminster Business School, Research Report 18, 2004

Journals, not peer reviewed

"A Comparison of Response Characteristics From Web and Telephone Surveys," International Journal of Market Research, Vol. 46, No. 3, 2004 (with C. Roster, R. Rogers, and D. Klein)

Proceeding, not peer reviewed

"A Cross-National Study of the Impact of Culture-Based Values on Marketing Decision Makers' Management Style, Proceedings of Third International Business and Economy Conference, January 2004 (with J. Yu, N. Wiese, and J. Herche)

Papers Delivered (Not in Proceedings)

"Explaining Survey Response Behavior: Evolution of a Research Program," American Marketing Association, Winter Educators' Conference, Scottsdale, Arizona, February, 2004 (with F. Evangelista and P. Poon)

Ranjit Bose

Refereed Journals

"E-Government: Infrastructure and Technologies for Education and Training," Electronic Government – An International Journal (forthcoming in 2004).

"Knowledge Management Metrics," Industrial Management & Data Systems, Vol. 104, No. 6, 2004, 457-468.

"Natural Language Processing: Current State and Future Directions," International Journal of the Computer, the Internet and Management (IJCIM), Vol. 12, No. 1, 2004, 1-11.

Refereed Proceedings

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

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"Information Technologies for Education & Training in E-Government," Proceedings 2004 IEEE International Conference on Information Technology: Coding and Computing (ITCC), April 5-7, Las Vegas, NV, pp. 203-207.

Conference Presentations

"Intelligent Agents Based Service Oriented Architecture for Application Integration," 2004 INFORMS Annual Conference, October 24-27, Denver, Colorado.

"Information Technologies for Education & Training in E-Government," 2004 IEEE International Conference on Information Technology: Coding and Computing (ITCC), April 5-7, Las Vegas, Nevada.

William Bullers

Refereed Proceedings

"Personal and Team Software Processes for Project Management in an Oracle Database Environment", ODTUG Now 2004 Conference Proceedings, Oracle Development Tools User Group, Scottsdale, AZ, June 20-24, 2004, pp. 1-10.

"Personal Software Process in the Database Course", Computing Education 2004: Proceedings of the Sixth Australasian Computing Education Conference (ACE2004), R. Lister and A.L. Young (eds.), Conferences in Research and Practice in Information Technology, Vol. 30, Australian Computer Society Communications, Vol. 26, No. 5, Dunedin, New Zealand, Jan. 2004, pp. 25-32.

Stephen Burd

<u>Books</u>

Burd, Stephen D., Systems Architecture, fifth edition, forthcoming - April, 2005, Course Technology.

Satzinger, John W., Jackson, Robert, and Stephen D. Burd, Object-Oriented Systems Analysis and Design with the Unified Process, Course Technology, 2004.

Burd, Stephen D., Systems Architecture, fourth edition, 2003, Course Technology.

Satzinger, John W., Jackson, Robert, and Stephen D. Burd, Systems Analysis and Design in a Changing World, second edition, 2002, Course Technology.

Don Cook

Referred Journal Publications

Langendgerfer, Jeff and Don Lloyd Cook (2004), "A Review of Privacy Law in the Online Age: Issues for Marketing, Advertising and Public Policy," Journal of Business Research, 57 (7), 734-747.

Nick Flor

Referred Journal Publications

Flor, N. (forthcoming). The Distribution of Processes Underlying a Teen-Advice OnlineCommunity: YesNoMaybe.com, International Journal of Web Based Communities, 1 (3).

Flor, N. (forthcoming). Adapting a Social Process for Business Purposes Through Technology Mediation, International Journal of Internet Marketing.

Flor, N. (2004). An analysis of the design of a programmable autonomous business. Journal of Information Systems and Information Technology, 7.

Flor, N., & Maglio, P. (2004). Modeling representational activity online. Knowledge-Based Systems, 7, 39-56.

Refereed Conference Publications

Flor, N. (2004). The architecture of the symbol engine in a programmable autonomous business. 2004 Proceedings of the IEEE Conference on Electronic Commerce Technology.

Flor, N. (2004). Synthesizing a Business out of Social Parts: A Cognitive Analysis. 2004 Proceedings of the ISOneWorld Conference.

Flor, N. (2004). The Distribution of Processes in a Virtual Advice Community. 2004 Proceedings of the International Association for the Development of the Information Society (IADIS).

Catherine Roster

Refereed Journals

Roster, Catherine A., Robert D. Rogers, Gerald Albaum, and Darin Klein (2004), "A Comparison of Response Characteristics From Web and Telephone Surveys," International Journal of Market Research, Vol. 46 (3), 359-373.

Laurie Schatzberg

Technical Reports, Seminars & Presentations (Includes Consulting)

"Leadership of Enterprise-wide Organization Change in a Major University: The ERP Management team," presented at NACRA Conference, October 2004.

"Why Bother with UML?" Sandia National Labs, June 2004.

Douglas Stewart

Conference Proceedings and Presentations

Melnyk, S.A., J.D. Hanson, R.J. Calantone, D.M. Stewart, G.A. Zsidisin, J. Luft, L.A. Burns, "Case Study Research on Metrics Deployment and Alignment" Proceedings of the Decision Sciences Institute National Conference 2004.

Melnyk, S.A., R.J. Calantone, J. Luft, D.M. Stewart, and G.A. Zsidisin, "Linking Customers, Strategy, and Activities: An Empirical Investigation of the Metrics Alignment Process," Performance Measurement Association Conference, Edinburgh, UK, July 28-30, 2004.

<u>Jack Su</u>

Refereed Proceedings

Su, C. P., and Chang, Y. L., and Ho, J., "Evaluation of Component Commonality Strategies", *DSI Annual Meeting, Boston*, November 2004.

Mary Margaret Weber

Refereed Journals

Weber, Mary Margaret and William L. Weber, "Productivity and Efficiency in the Trucking Industry: Accounting for Traffic Fatalities" International Journal of Physical Distribution and Logistics Management, Vol. 34, No.'s 1 and 2, 2004, p.39-61.

Refereed Proceedings

Weber, Mary Margaret, "A Multi-Modal Comparison of Fatality Related Efficiency in the U.S. Transportation Industry." International Conference on Business, June 2004.

Steven Yourstone

Journals, not peer reviewed "How Managers Can Reduce Errors in Services", 2004. Estrategica, Vol.2, No.1, p.8-15.

Refereed Conference Proceedings

"Service System Failures", Refereed Proceedings, Decision Sciences Institute National Meeting, November 2004, Boston, MA.

SCHOOL OF PUBLIC ADMINISTRATION

ANNUAL REPORT July/2003 -- July/2004 Submitted by Kaye Summerhays -- Dept. Administrative Assistant

Director	Ken Baker
Full-time Faculty	Santa Falcone
	Karen King
	Bruce Perlman
	Zane Reeves
	Mario Rivera
	Roli Varma
Part-time Faculty	Mark Allen
	Glenn Kuswa
	David Soherr-Hadwiger

SIGNIFICANT DEVELOPMENTS

Discussions begun with Office of the Provost about separation of the School of Public Administration (SPA) from the Anderson Schools of Management (ASM) and inclusion of SPA in new initiative to serve public sector.

Granted postponement of accreditation self-study year to 2004 – 2005 school year by National Schools of Public Affairs and Administration (NASPAA).

Piloting of a new methods orientation course for core curriculum in program and project planning and evaluation.

SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE

Deciding on reporting and administrative arrangements for SPA after separation from ASM with Office of the Provost.

Development of SPA goals, objectives, and organizational growth proposal consonant with decision of Office of the Provost on reporting arrangements.

Conduct review of existing concentrations and supporting curriculum to improve fit with new organizational arrangements and goals.

Conduct faculty retreat to examine SPA goals and organization and to develop accreditation strategy.

Production of self study for NASPAA.

APPOINTMENTS, PROMOTIONS, SEPERATIONS

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

ASM-K

Publications

Falcone, S. (2003) "Modeling Differences: the Application of the Logic Model to Public Policy Analysis" *The Innovation Journal: Public Sector Innovation Journal.* 8:3 (June - August 2003) http://www.innovation.cc/

Falcone, S. and D. Bjornstad (2003) "Research Project Impact Analysis" Cost Engineering 45:12 29-36.

Falcone, S. and D. Bjornstad (2004) "Thermal Spray Technology Transfer Impact Analysis" *Comparative Technology Transfer and Society* 2:2 195-217.

Bruce Perlman

Publications

Planeación e Integración Estratégica: Un Modele con Estudio de Caso del Sector Judicial, Estado, Gobierno, Gestión: Revista Chilena de Administración Pública, Vol. II, No. 4, 2003 (with M. Rivera) pp. 122-131.

Mario Rivera

Publications

New Mexico's Three-Tiered Teacher Licensure System, presented to the Audit, Contract, and Computers Subcommittee of the Legislative Finance Committee, New Mexico State Legislature, April 23, 2004—sole-authored program analysis conducted with the Licensure Unit of the State's Public Education Department and the Office of Education Accountability of the Department of Finance and Administration. Print and webpublished

With Marco Antonio G. Dias, "Real Options Valuation in Energy Investment Projects," Problems and Perspectives in Management 1 (1), Spring 2004.

With Ted Vecchio, Applied Strategic Performance Management (Minneapolis: P₄ Management Solutions, 2003). Training text.

With Alicia Ortiz, Public Regulation Commission Review of Fire Protection Fund Uses (Santa Fe: State of New Mexico Legislative Finance Committee, 2003).

With Bruce J. Perlman, "Planeación e Integración Estratégica: Un Modelo con Estudio de Caso del Sector Judicial" ("Strategic Planning and Managerial Integration: A Model with a Judicial Sector Case Study"), Estado, Gobierno, Gestión Pública 2 (4), 2003.

ASM-C

Roli Varma

Publications

Roli Varma (2003). Guest Editor, IEEE Technology and Society Magazine, Special Issue on Women and Minorities in Information Technology, 22(3). http://www.njcc.com/~techsoc/2003fall.html

Roli Varma (2003). Proceedings of the National Science Foundation's ITWF & ITR/EWF Principal Investigator Conference. Albuquerque: University of New Mexico.

Roli Varma (2004). "Asian Americans: Achievements Mask Challenges" Asian Journal of Social Science, 32(2), 290-307.

Roli Varma (2003). "Guest Editorial: Special Issue on Women and Minorities in Information Technology" IEEE Technology and Society Magazine, 22(3), 6–7.

Roli Varma (2003). "E. F. Schumacher: Changing the Paradigm of Bigger Is Better" Bulletin of Science, Technology & Society, 23(2), 114–124.

Roli Varma (2003). "Asians in the U.S. Public Service: Diversity, Achievements, and Glass Ceiling" in Sumathi Reddy (ed.) Workforce Diversity: Concepts and Cases (pp. 26–42). Hyderabad: ICFAI University Press. (Reprinted with permission from the United Nations)

Roli Varma (2004). "The Tenure System and Engineering Institutions" American Society for Engineering Education Annual Conference & Exposition. <<<u>http://www.asee.org/conferences</u>>>

Roli Varma and Marcella LaFever (2004). "Communication Climate and Satisfaction in the Computer Science Classroom" Women in Engineering Programs & Advocates Network National Conference. <<<u>http://www.wepan.org/publications.html</u>>>

Roli Varma (2003). "Retention of Minority Undergraduates in Information Technology" American Society for Engineering Education Annual Conference & Exposition. <<<u>http://www.asee.org/conferences</u>>>

OUTSIDE PROFESSIONAL ACTIVITIES

Santa Falcone

"A Friend in a Truly High Place: Religious Affiliation and Voting Behavior" at Western Political Science Association conference in Portland, OR on March 13, 2004.

Bruce Perlman

Central Area Workforce Investment Board, Workforce Investment Act, Grants Administration Consultant, Albuquerque New Mexico, October, 2002 to present.

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

45M-1

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

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

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

Mario Rivera

<u>Advisor/Analyst</u>, Legislative Finance Committee, New Mexico State Legislature, for projects involving performance budgeting, measurement, and reporting; lead analyst, program review of the State of New Mexico Inter-Agency Behavioral Health Purchasing Collaborative; lead analyst in a review of the State's new Three-tiered Teacher Licensure system; co-lead, program review of the Fire Protection Fund, Insurance Division, State Public Regulation Commission (2003-05).

Educational Consultant, New Mexico Retail Association: Employability assessment, training curricula development, and program evaluation; grant writer and evaluation lead for a four-year school-to-work project for at-risk youth funded by the U.S. Department of Labor (2001-present).

Appointee to the Committee on Peer Review and Accreditation of the National Association of Schools of Public Affairs and Administration, Washington, D.C., and (since 1997) of the Steering Committee of its Inter-American Network for Public Administration Education.

Appointee, Editorial Boards, Policy and Management Review, PA (Public Administration) Times, and Problems and Perspectives in Management; symposia issues editor for the International Journal of Public Administration and the International Journal of Economic Development.

Zane Reeves

Professional Work with Tribal Organizations

Navajo Nation Projects:

Sandia Tribe and Casino, "Sexual Harassment Training for Supervisors," sessions held at Casino and Tribal administration headquarters, December 2003.

SM-E

Consultant to Performance Appraisal and Policy Planning Committee, Window Rock, (2002-3);

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

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

"Team Building and Communication," training for Navajo Insurance Services staff, Albuquerque, (2004).

"Mediation and Dispute Resolution Techniques," mediation training for Navajo mediators, (2004).

Trainer for 200 tribal employees, "Performance evaluation issues in tribal management" (2003)

Jicarilla Apache Nation.

Advisory Hearing Officer, consultant to tribal grievance panel in seven disciplinary grievance hearings, (1998-2003).

Trainer for 200 tribal employees, "Performance evaluation issues in tribal management" (2003)

Pueblo Organizations

"Team building," Laguna Rainbow Development Corporation, (2003).

"Avoiding Negative Discrimination," Sandia Pueblo tribal employees (2004).

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

Impartial Arbitrator, labor and employment panels, American Arbitration Association and Federal Mediation and Conciliation Service, conducted arbitration hearings and wrote awards in approximately twenty-five cases involving disciplinary actions for sexual harassment, 1989 to present.

Roli Varma

Conferences workshops and seminars

Roli Varma (2004, June 20–23). "The Tenure System and Engineering Institutions" <u>Annual Conference of American Society for Engineering Education</u> (ASEE), Salt Lake City, Utah.

tSMF F

Roli Varma (2004, June 16–19). "Asian Indians in Science and Engineering Workforce of the United States" <u>Hawaii International Conference on Social Sciences</u>, Honolulu, Hawaii.

Roli Varma and Marcella LaFever (2004, June 6–9). "Communication Climate and Satisfaction in the Computer Science Classroom" <u>Women in Engineering Programs & Advocates Network</u> (WEPAN), Albuquerque, New Mexico.

Roli Varma (2004, April 21–24). "Immigrants' Adaptation" <u>Annual Meeting of Western</u> <u>Social Science Association</u> (WSSA), Salt Lake City, Utah.

Roli Varma (2004, February 19–21). "Computer Science and Computer Engineering Programs: Are They 'Minority-Friendly'?" <u>Annual Conference of National Association</u> for Science, Technology and Society (NASTS), Baltimore, Maryland.

Roli Varma (2004, January 7). "Asian Indian Diaspora" Indian Institute of Technology-Kanpur, Kanpur, India. Invited by Prof. Binay Pattnaik, IIT Kanpur.

Roli Varma and Deepak Kapur (2003, October 26–28). "Cross-Ethnic Differences in Undergraduate Women's Preference for Information Technology" <u>National Science</u> Foundation's ITWF and ITR/EWF Principal Investigator Conference, Albuquerque, New Mexico. Invited by Dr. Caroline Wardle, National Science Foundation.

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

Roli Varma (2003, December 21–23). "Facing Stereotypes: Images of Indian Scientists and Engineers in U.S." XXIX All India Sociological Conference, Udaipur, India.

External Reviewer: *IEEE Technology and Society*, 2002, 2003. *Journal of Women and Minorities in Science and Engineering*, 2001, 2003. National Science Foundation, 1997, 2001, 2002, 2003. Organizing Partner, XXIX All India Sociological Conference, Udaipur, India, 2003. Environment and Culture, Pre-College Education, Higher Education, and Workforce Careers sessions, *National Science Foundation's ITWF and ITR/EWF Principal Investigator Conference*, Albuquerque, 2003.

ISM-G

Professional Associations

NASTS (National Association of Science, Technology and Society), since 2003.
ASEE (American Society for Engineering Education), since 2001.
AAUP (Association of American University Professors), since 1999.
IEEE (Institute of Electrical and Electronics Engineers), since 1999.
4S (Society for Social Studies of Science), since 1994
IEEE International Conference on Advanced Learning Technologies (ICALT), 2004
India Association of New Mexico, Albuquerque, NM, since 2000.

OUTSIDE SPONSORED RESEARCH

Santa Falcone

Successfully obtained funding for research project on voter behavior, Published article on innovative method to measure the impact of technology transfer, Upgraded MPA researchmethods training as lead advisor for 12 MPA professional papers (thesis equivalent), Orchestrated initiative to explore providing public/private/nonprofit procurement training

Bruce Perlman

Research Grant, "Collaboration on Government Reform and Curriculum Development with Urals Academy of Government Service", September 2003 to December 2003, Network of Institutes and Schools of Public Administration in Central and Eastern Europe (with Gleason and Sazanova).

Roli Varma

Roli Varma (Principal Investigator) and Deepak Kapur, "Cross-Ethnic Differences in Undergraduate Women's Preference for Information Technology" Information Technology Work Force Program, <u>National Science Foundation</u>, Grant EIA-0305898, 1/9/03 to 8/31/05, \$344,392.

Roli Varma, "Cross-Ethnic Differences in Undergraduate Women's Preference for Information Technology" Research Experiences for Undergraduates Program, <u>National</u> <u>Science Foundation</u>, Grant EIA-0305898, 1/9/03 to 8/31/05, \$6,000.

Roli Varma, "Out of Mix: Native Americans in Information Technology" <u>The Alfred P.</u> <u>Sloan Foundation</u>, Grant B2002-68, 1/1/03 to 12/31/04, *\$40,000*. Roli Varma, "New Immigrants: Science and Engineering in the United States" Science and Technology Studies Program, <u>National Science Foundation</u>, Grant SES-0136467, 6/1/02 to 5/31/05, \$79,766.

ASM-H

Roli Varma, "New Immigrants: Science and Engineering in the United States" Research Experiences for Undergraduates Program, <u>National Science Foundation</u>, Grant SES-0328787, 6/1/02 to 5/31/05, \$6,000.

University of New Mexico

COLLEGE OF ARTS AND SCIENCES

ANNUAL REPORT

July 1, 2003 - June 30, 2004

REED WAY DASENBROCK, DEAN

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I. OVERVIEW

The College's administrative team in 2003-2004 was the same as in 2002-2003, with Wanda Martin continuing as Associate Dean for Academic Affairs, and Robert Duncan continuing as Associate Dean for Research. But the responsibilities of the Associate Deans shifted somewhat. Dean Vera Norwood, who had been Associate Dean for Personnel, was given a new title of Senior Associate Dean as of July 1, 2003. This was part of a reorganization of some of the reporting lines in the College: all interdisciplinary programs in the College, and the Maxwell Museum and the Museum of Southwestern Biology, now report to Dean Norwood, while three research centers, the Institute of Meteoritics, the Center for Advanced Studies, and the Consortium for Interdisciplinary Sciences in the Americas, report to Dean Duncan, and the Language Learning Center reports to Dean Martin.

For 2004-2005, there continue to be changes. Robert Duncan is on sabbatical and Richard Santos, formerly Chair of Economics, is Interim Associate Dean for Research during 2004-2005, effective August 2004. Wanda Martin returned to the faculty in English and Mark Ondrias, formerly Associate Dean of University College, has assumed those responsibilities with a change in the title for this position, from Associate Dean for Academic Affairs to Associate Dean for Curriculum and Instruction.

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

II. ADMINISTRATION

Senior Associate Dean Norwood continued her responsibility for various aspects of College administration related to faculty. These included organizing and advising the College tenure and promotion review committees (see Table 2), meeting with faculty coming up for reviews, consulting with department chairs on faculty progress through the ranks, and reviewing and making recommendations to the Dean on all tenure, promotion and mid-probationary reviews. She advised the Dean and Chairs on policies and practices related to annual reviews and post-tenure reviews of faculty. She also served as the College Hiring Officer, with oversight of search, recruitment and selection efforts associated with the appointment of new faculty in the College (see Table 3 for results of all of these activities). She convened and served on the College Sabbatical Review Committee, and allocated special funds for faculty travel (see Table 4) and the College Speaker's Fund (see Table 5). Toward the end of the year, she developed a proposal for a Faculty Development Fund, to support faculty research efforts, which was funded with \$30,000 from the Office of the Vice Provost for Research and \$15,000 from the Dean. She continued to be responsible for the interdisciplinary programs, developing with the directors an evaluation instrument and sharing the results of the evaluation with their respective department Chairs.

Associate Dean Robert Duncan continued to administer and support the research activities within the College through both routine and focused initiatives. Associate Dean Duncan works closely with the Research Cabinet, which consists of the Vice Provost for Research Terry Yates and the Associate Deans for Research from each of the Colleges and Schools across UNM. The Research Cabinet coordinates larger initiatives, and becomes the point for discussion of University wide research issues. Other routine activities of the Associate Dean for Research include the consideration and structuring of cost share proposals, extra compensation issues, and summer salary and research faculty leave issues. The Associate Dean for Research also structures agreements on major research efforts between the Colleges and Schools, and also provides consideration and approval of research proposals within the College.

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

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

Associate Dean Wanda Martin continued to direct the College's student advisement effort and to take responsibility for curriculum changes, graduation requirements, and student complaints and academic disputes. She managed scheduling and budgeting for the summer session (see Table 6) and Evening and Weekend Degree programs. She served as the College office liaison to the Arts & Sciences Undergraduate and Graduate Committees (see Table 7), convening those two groups and facilitating their work. As the College's liaison to the College of Education and the K-12 education sector, she participated in the decision to seek membership in the National Network for Educational Renewal and organized the Math Education Initiative, a joint effort of A&S, COE, APS, and officials from the State Department of Education to identify and address issues in the teaching and learning of mathematics, K-14.

Mark Ondrias, Professor of Chemistry, was appointed in July 2004 to replace Wanda Martin, as Associate Dean of Curriculum and Instruction for 2004-2005.

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

The cadre of chairs in the College continued to change in 2003-2004, with the new chairs and the acting chairs in place at the beginning of the year. In addition, three new programs had new directors and another changed directors mid-year. In August of 2002, we initiated a new program consisting of a full week of training of new chairs and directors, informally called 'chairs school'. This consisted of sessions run by each of the Associate Deans, the College Administrator, and the Director of Development, along with a session with the Deputy Provost and University Counsel on employment issues and a session with staff from the Office of the Vice-Provost for Research. We continued this in Summer 2004 with some changes.

We made great progress on a number of internal fiscal matters in the College. The process of investigating and settling all outstanding prior claims on the College from units in the College has been completed. We have developed deficit payback plans for all units in the College with debts greater than \$10,000, except for one, and progress was made on all of these this year, with at least two long-standing and stubborn debts eliminated by the beginning of the current fiscal year. The College froze its historic overhead debt at \$1.05 million at the end of the 2002-2003 year, and during 2003-2004 we paid back half of this debt, using the increase in our overhead income at the beginning of the year and our carryforward at the end. So we are

living solidly within our means in terms of overhead and should pay off the debt by the beginning of the next fiscal year. This will leave us in the position of having increased cash flow, and one of the more pleasant tasks that face us this year is planning how to allocate those freed-up resources starting next fiscal year or perhaps the year after.

Our instructional and general budget remains under more pressure, given the rise in freshmen enrollments (from 2821 in Fall 2002 to 3004 in Fall 2003) and overall enrollment, now at record levels. The number of graduates continues to increase as well (see Tables 8 and 9 for degrees awarded, and Table 10 for instructional budget commitments). For 2003-2004, we were able to expand our offerings in a number of fields substantially, primarily because of \$750,000 in non-recurring funding received from the central administration, but we continued to draw on our carryforward from previous years as even this did not give us a budget adequate to the growing student demand for our courses. In addition, the number of students unable to get into key courses continued to increase, although for the most part, this is a matter of students not getting all the classes they wanted at the times they wanted, not a complete inability to take their required courses which other universities are experiencing. Across the year, there began to be a realization that the underfunding of the College of Arts and Sciences was a problem, not just for the College but for the University. As a result, a good deal of the new formula funding coming from the increased enrollments was allocated to the College, and we received \$1.1 million in new funding for 2004-2005. Some of these monies will fund a plan for adding new lecturers which we developed across the last year. A good deal of work remains to be done so that this addition to our budget is allocated and spent well, allows us to meet student need and addresses some of the underlying budget problems in the College. But this gives us the breathing room to address those issues in the coming year.

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We rebuilt our development staff during 2003-2004, hiring Megan Minoka Hill as our Constituent Development Officer, Debbie Dobson as a Development Specialist and Elly Van Mil as our Communications Specialist, who is involved in preparing grants for student training, programs and facilities as well as other kinds of communication. We are working hard to acquire resources in many different directions: we had some success this year with earmarked federal funding, funding the CREATE program in Earth and Planetary Sciences, and we hope to get additional federal support for a variety of projects in the future. Federal grant funds and some internal UNM monies helped renovate part of Castetter Hall, home of the Department of Biology, this year, and we hope to renovate the entire building with a combination of state and federal funds. Internal UNM monies including some from the Health Sciences Center helped relocate the Department of Speech and Hearing Sciences to newly renovated quarters on Lomas Boulevard: private donations also played a crucial role in that project. And the new home of the Museum of Southwestern Biology in the Old Bookstore or Ceria Building is nearing completion, with construction during 2003-2004 funded by the proceeds of bonds passed in Fall 2002. We hope to receive state funding for Castetter during 2004-2005 as well more grant funds from the federal government, and we also expect to receive a federal appropriation which will allow us to complete the Hibben Center and move the National Park Service from the Anthropology Building to the Hibben Center.

An important activity in 2003-2004 was developing a plan for using the funds made available to the Maxwell Museum and the Department of Anthropology through the Frank Hibben Trust, and an initial allocation of \$150,000 from the trust will be made for 2004-2005. We continue to make strides in other development efforts, and look forward to reporting more in this category in future years.

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IV. AFFIRMATIVE ACTION need to update

The College continued its efforts to increase the cultural and gender diversity among its faculty during the 2003-2004 academic year. Consistent with Regents' policy concerning diversification of search committee membership, all search committees included minority and female members.

Appointments resulting from searches conducted during AY 2003-2004 added ten new faculty (including full-time lecturers). Of those appointed, seven are female, none are Hispanic, and none is/are Native American.

During AY 2003-2004, the College continued efforts to ensure equity within the faculty salary structure for members of underrepresented groups and to provide support to those faculty for the purpose of career development at the individual level. The efforts to nurture and develop faculty already at UNM will continue during AY 2004-2005.

V. RESEARCH AND SCHOLARLY ACTIVITIES

The total level of sponsored research, contracts, and grants at UNM increased from \$166.6M in FY94 to \$244.3M in FY02, to \$255.7M in FY03 (see Table 12 for details). The growth in research is advantageous for two reasons: First, it assists our faculty to become more active through their leadership roles in their disciplines and their professional societies, which advances UNM's reputation as a major 'Research Extensive' University within the United States. Secondly, this increased role generates a true influx of money to New Mexico that would otherwise not be available to UNM or the State. The \$255.7M last year from our sponsored research, contracts, and grants activities provided a measure of the extent to which others within the United States and throughout the world are willing to invest in New Mexico's scholarly and service activities. With \$39.5M in awards in 2003-2004, the College of Arts and Sciences

(A&S) is second only to the Medical School in the generation of award dollars and Facilities and Administration revenues (F&A) at UNM. While most of the external sponsored research funding within the College of Arts and Sciences is received in the 'Natural Sciences' (Biology, Physics and Astronomy, Chemistry, Earth and Planetary Sciences) and Mathematics, the College has received far more than the national norms of funding for our efforts in Psychology and the Social Sciences.

In order to expand and leverage this impressive research growth, the Associate Dean for Research works closely with the Dean and with the College Development Officer and Communication Specialist to expand the level of sponsored research, contracts, and grants within the College. In addition to this push to expand our current sponsored research opportunities, the Associate Dean for Research leads new major initiatives to improve the research climate within UNM and to leverage our excellent research position to improve our primary mission in student education. To this end, the Associate Dean for Research and the PROFOUND Office (Program for Research Opportunities for Undergraduates) under the coordination of Theresa Lopez sponsored the first campus- wide undergraduate research symposium during the Spring 2004 semester. Fifty students representing twenty-seven undergraduate degree programs and thirtyone faculty mentors presented posters. The research contents of the posters were judged by fifteen faculty from the Main Campus and the Health Sciences Center. Posters were judged on content, creative display, and/or oral presentation. A similar symposium is planned for Spring 2005 and the college will continue to seek ways to promote undergraduate student opportunities at UNM by including budget lines for undergraduate student pay in sponsored research projects. These activities provide UNM undergraduates with an excellent opportunity to become directly involved in world-class research efforts under faculty mentorship while they work for academic

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credit or pay. As a group, students who are employed on campus typically have much better retention rates and grade point averages than the general student cohort, making this an excellent program for improved student performance. Furthermore, most sponsors of federally funded research specifically want to be sure that they leverage improvement in educational opportunities, especially for minority and other under-represented groups in the sciences.

Several sponsored research activities within the College of Arts and Sciences illustrate the depth of the university reputation as a major national research extensive university: the development of a new satellite ground station at UNM, Center for Rapid Assessment and Terrain Evaluation (CREATE), to support research activities across UNM, but mainly within Earth and Planetary Sciences, Biology, and within Long Term Ecological Research (LTER). This ground station will provide researchers with data from orbiting assets with only about a two-hour delay, creating an opportunity to fill unprecedented new research objectives within UNM. Likewise, the Consortium of the Americas for Interdisciplinary Sciences funded by the National Science Foundation (NSF) and directed by Prof. Nitant Kenkre provides research opportunities for students and faculty from throughout Latin America to visit UNM for extended periods of time. While these projects are illustrations of large scale sponsored research activities within the College, the major portion of the College's sponsored research activities consist of a large number of small, principal investigator led, individual research group activities. This makes our sponsored research activities within the College more robust against federal funding profile changes than if our funding were centralized in just a few large sponsored research activities.

The College will continue to be a major participant in this rapidly growing research mission of UNM through our active participation in the Research Cabinet, through activities designed to enhance the economic competitiveness of New Mexico, and most importantly 44

through the expansion of our faculty and student involvement in our research mission. The key to our past and future success rests in the professional dedication and motivation of our faculty to seek additional research opportunities as they build upon existing research strengths. The success of our research mission has depended, and will continue to depend upon the collegial spirit of our professoriate, and upon the good faith efforts of our faculty to fulfill, and often exceed, the research expectations within their faculty contracts.

VI. TEACHING

Summary data on the various aspects of the College's teaching efforts are presented in Tables 6, 8, 9, and 10. This year again, the student credit hour generation of the college increased. This was also true to a small extent at the graduate level. The increase in SCH for the College is especially significant in view of the continued decline in faculty numbers over the last several years. Faculty productivity in terms of SCH generation continues to increase.

VII. SPECIAL PROJECTS AND FUNCTIONS

Advisement Center

Under the supervision of Wanda Martin as Associate Dean of Academic Affairs, the College Advisement Center oversees the student undergraduate population. The Center admits undergraduate students to the College of Arts and Sciences once they have been accepted into their major department. The Center's seven advisors monitor the academic progress of these students, if necessary, placing students on probation and/or suspending them for unsatisfactory progress in their program of study. These Center staff members advise students on general degree issues that are not specific to the departments of their major or minor. The Center also is responsible for the certification of all Arts and Sciences baccalaureate graduates. The Center now operates on a new appointment-based system that has successfully controlled traffic and managed visits in an organized manner.

The Advisement Center not only serves the needs of their current population, but also responds to inquiries from prospective students at the New Student Orientation, Transfer Day, UNM Branch on-site visits, as well as many events and requests from prospective students. The number of Arts and Sciences students enrolled during 2003-2004 consist of the following: Summer 2003 - 1,770, Fall 2003 - 4,883, and Spring 2004 - 5,123. Overall, the total number of visits at the Advisement Center during 2003-2004 was 10,654, which does not include out of office advisement sessions.

During 2003-2004, a new position of Director of Advisement was created at the Advisement Center. The Director performs all duties listed for the job description of Manager, Academic Advisement. The crucial duties include administering and supervising the advisement program, developing methods for analysis of data and incorporating conclusions into long-range program planning, assisting in formulating policies and procedures for smooth functioning of the Advisement Center, supervision of Center personnel, and representing the A&S Advisement Center at various community and/or business meetings.

Dr. Ellen Grigsby was hired as Director of Advisement in July 2003 and began to modernize the office by using an electronic appointment and waiting room program for advisors. She also was instrumental in developing a more interactive website and began using computer software to track student visits and other advisement activities. Dr. Grigsby returned to the Political Science Department in late Spring 2004 as a faculty member and Director of the College Pre-Law Advising Program. A new director, Stephanie Hands, was hired in mid July 2004, who will continue to enhance the advisement experience for both the students of A&S and the advisement center staff.

In addition, during 2003-2004 the Associate Dean and the Advisement Center expanded the College's role in pre-health sciences advisement. The Associate Dean convened a campuswide Pre-Health Sciences Advisory Council which, in turn, provided campus-wide professional training and opportunities for advisors. The Council also sponsored a pre-health sciences advisement event and produced a pre-health sciences advisement handbook.

The Director of Advisement and Advisement Coordinator Julie Bustamante also participated in UNM's Advising Council. The Coordinator was active in planning and conducting a professional retreat that created the Council's mission statement. This mission statement represents a major organizational step toward implementing national standards and ethics in advisement practices at UNM.

The advisors in the College of Arts and Sciences continued to play a major role in Summer Freshman Orientation, advising almost 900 incoming students in Summer 2003. During Orientation, incoming students planning to major in an A&S field come to the College to attend a presentation on degree requirements, to plan their schedules, and to register with assistance from A&S advisors. In addition to participating in Freshman Orientation, one or more advisors provided advisement at the following extramural or campus-wide advising activities during the year: Welcome Back Days, Senior Day, Staff as Students, Evening and Weekend Orientation Advisement, High School Visitation Day, African American Student Day, American Indian Student Day, Pre-Dental Reception, Spring Orientation for Freshmen, Transfer Day, Star Scholar Reception, American Indian Graduation Ceremony, Advisors Networking Group, Academic Retention Meeting, American Indian Retention Meeting, and College Enrichment Program. This

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year the advisors also made multiple trips to the following campuses for advisement, specifically UNM-Gallup, the Santa Fe Community College, TVI-Albuquerque, TVI-Montoya, UNM-Los Alamos, UNM-Valencia, and UNM-Taos.

Curriculum

College of Arts and Sciences Graduate Committee

The Charge of the College of Arts and Sciences Graduate Committee is to be responsible for maintaining and enhancing the quality of graduate education in the College. This includes consideration of actions related to curriculum change, instructional programs, academic advisement for graduate students, and changes in administrative or academic regulations which affect graduate programs.

The A& S Graduate Committee was reconstituted in 2002-2003 as a smaller Council of 8 members, representing the academic divisions - Sciences, Humanities, Social Sciences - and serving staggered terms (see Table 7). The responsibilities of this Council are to represent graduate program interests to the Dean of Arts & Sciences and the Office of Graduate Studies and to report developments to the College faculty through the departmental graduate advisors. Three members of the Council serve on the Faculty Senate Graduate Committee. The Council met to consider issues concerning Teaching Assistant workloads and support across the College and other topics relevant to the College's working relationship with the Office of Graduate Studies Studies

College of Arts and Sciences Undergraduate Committee

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

With regard to committee membership, each of the 20 academic departments in the College designates one faculty representative (voting faculty as defined in the Faculty Handbook) to the College of Arts and Sciences Undergraduate Committee (see Table 7). The Committee meets 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.

The Arts and Sciences Undergraduate Committee reviews requests from departments both within and outside the College for curricular changes that may impact one or more Arts and Sciences departments.

College Grant and Scholarship Initiatives

New Mexico Collaborative for Excellence in Teacher Preparation

In 2001-2002, the New Mexico Collaborative for Excellence in Teacher Preparation (CETP) ended its regular funding period, but a no-cost extension was granted to complete an evaluation of the statewide project. 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, Diné College) and each of their surrounding school districts. In addition, other partners for this effort 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 central UNM CETP office is located in the College of Arts and Sciences, and oversees 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.

The evaluation of CETP will be completed in the Fall of 2005.

UNM/APS Teachers' Institute

In 1998, the College of Arts & Sciences was awarded an implementation grant for the Albuquerque Teachers' Institute (\$380,000 over three years from the DeWitt Wallace-Reader's Digest Fund). This grant ended in December 2001. With funding support from other contributors, including the Arthur-Vining Davis Foundation and Lockheed-Martin, the Teachers' Institute has continued its operation to the present. Since June 2001, \$100,000 per year of funds that are generated from the beverage contract with Pepsi has been allocated to support the Albuquerque Teachers' Institute.

Between 1999 and June 2003, more than 250 public school teachers have taken part in 32 seminars led by faculty from Arts & Sciences, the College of Fine Arts, and the School of Architecture and Planning. The seminars provide continuing education in key content areas for teachers and new curriculum units to be used in the public schools and shared with other teachers. Additionally, during the 2003-2004 school year, the Albuquerque Teachers' Institute began a new initiative of offering workshops for K-12 teachers on Saturdays on the UNM campus. The Saturday Workshop Series hosted six workshops with over 150 teachers in

attendance during this first year. Topics included teaching creative writing, the works of William Shakespeare, teen music, and drought in New Mexico. The workshop series was well received and will be expanded in the coming year.

Other Initiatives

- La META- Funded by a \$370,000 a Mathematics and Science Partnership grant from the NM Public Education Department, the program is offering upper-level instruction for middle school K-8 certified mathematics teachers to improve their knowledge base and help them meet federal and state Highly Qualified requirements.
- Bridging the Gap Funded by a \$50,000 grant from the NASA IDEAS Program, A&S
 faculty and instructors from Lodestar at the Museum of Natural History and Science work
 with K-8 teachers from the Gallup-McKinley County Schools on ways to integrate study of
 astronomy and space science with Native American views of the stars and universe.
- Noyce

College Scholarships

In 2003-04, the College of Arts and Sciences revised and updated the procedure for awarding its endowed scholarships. Beginning in December, the College website was updated with descriptions of our scholarship program, including the seven awards and how students could apply for them. The application period was from January 5 to March 1, 2004, and 249 applications were received with 111 complete portfolios, which were reviewed by the committee (Amanda Cobb, Jan Schuetz, and Janet Patterson). The committee reviewed all of the completed files and chose recipients for six of the awards. The seventh award, the Frank O. and Sadie M. Lane Endowed Scholarship, has its own procedure and a separate review committee that chooses new recipients each year. The scholarship award recipients for 2003-04 are as follows:

Charles E, Brown and Katherine M. Brown Scholarship F. P. Clements Endowed Scholarship Ralph W. Douglass Memorial Scholarship George A. Kaseman Memorial Scholarship Frank O. and Sadie M. Lane Endowed Scholarship Jennifer K. Bayley Melissa Smith Gloria Jean Becker Yolanda P. Nez Ashley Nicole Allen, Kylea Odenbach Carlos G. Quintana Leslie McMurtry

Dr. Harry Vanderpool Endowed Scholarship Carlos G. Quintar Marjorie Yepsen and Carleen F. Farnam Endowed Scholarship Leslie McMurtry

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

The criteria for inclusion on the Dean's List are a semester GPA of 3.75 or higher while being enrolled for 12 or more credit hours with letter grades, and a cumulative GPA for UNM coursework of at least 3.25. In Fall 2003, 568 students achieved this honor; in Spring 2004 the number of students was 719. Students who met the criteria for inclusion on the Dean's List received a letter of appreciation and congratulations signed by Associate Dean Martin.

Summer Session

The 2004 Summer Session allocation to the College was \$699,559, with which the College produced 18,999 student credit hours, a 5.9% increase over summer 2003. In addition to a full range of on-campus courses for degree-seeking students, the College continued to support unique summer programs such as the intensive German Summer School in Taos and field schools in Anthropology and Geology (see Table 6).

Travel and Special College Funds

The College disbursed \$15,667.00 to faculty in the College for travel expenses to supplement the support provided by departments. In addition, the College provided \$4,996.00 to departments to support honoraria for guest speakers. See Tables 4 and 5.

Research Semester

The A&S Research Semester program was reconfigured in Fall 2001 in an effort to compete with market incentives offered to junior faculty at other institutions and to strengthen the tenure cases of our new hires. Junior faculty hired since Fall 1999 are eligible to be relieved from formal teaching responsibilities for one semester in order to pursue research activities; the leave should be taken prior to the tenure decision year. The faculty member should demonstrate to the Chair and the Dean a successful research trajectory, a meritorious research proposal and plan, and a good teaching record. After the award, the faculty member is required to teach fulltime at UNM for, at minimum, the next year. In Fall 2003, research semesters were awarded to Iain Thomson (Philosophy), Suzanne Oakdale (Anthropology), Laura Salter (Mathematics and Statistics), Diane Thiel (English), Greg Martin (English), David Faguy (Biology), Samuel Truett (History) and Kathy McKnight (Spanish and Portuguese). In Spring 2004, research semesters were awarded to Will Pockman (Biology), Enrique Sanabria (History), Barbara Reyes (History), Osbjorn Peerson (Anthropology), Blair Wolf (Biology), Timothy Hanson (Mathematics and Statistics), Stephen Bishop (Foreign Languages and Literatures), Lisa Chavez (English), Ayanna Thompson (English), Dan Mueller (English), Janet Cramer (Communication and Journalism), Tobias Fischer (Earth and Planetary Sciences). It is the intent of the College to have offer a research semester as an integral part of each junior faculty member's hiring package in future years, with continued quality oversight by screening proposals at both the Department and College level on a twice yearly basis.

Development Efforts

During FY 2003-2004, the College of Arts & Sciences raised \$2,214,003 in private funds from individuals, corporations and foundations. This year, the College undertook to rebuild the Development Office and fill vacant positions. In September 2003, Debbie Dobson joined the

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development office as the Development Specialist. And, in January 2004, Megan Minoka Hill was hired as the Director of Development for the College of Arts and Sciences.

In addition to College fundraising priorities, the Development Office focused on improving designated and endowed scholarship donor relations. We have encouraged and assisted award recipients to personally thank donors. In addition, we created an event, "Tribute to Achievement," to honor and bring together College donors, special friends and scholarship recipients. As a result of these efforts, we expect an increase in donor contact and communication and a corresponding increase in contributions.

The Development Office updated and fine-tuned the website to celebrate the accolades of the College departments, to publicize Arts and Sciences fundraising priorities, and to give potential and current donors information about opportunities to contribute to the College. The Office continues to craft a semi-annual College of Arts and Sciences newsletter, which is mailed out in the fall and in the spring to over 29,000 alumni and donors.

We continue to engage the Dean's Advisory Council to improve our fundraising and public relations efforts. Meetings and/or sub-committee meetings are convened quarterly to discuss important College initiatives and goals.

The Development Office plans to maintain the momentum built during this last year and to work closely with College departments and programs to increase revenue from the \$1000+ Dean's Circle donors to the College. We will also create a program specific to increase the junior philanthropic pool of alumni donors to the College through targeted events.

VIII. DEPARTMENT REPORTS

Detailed reports about activities in the twenty departments and a selection of programs in the College of Arts and Sciences are submitted along with this College report.

TABLE 1

COLLEGE OF ARTS AND SCIENCES

DEPARTMENT CHAIRS - 2003-04

American Studies Beth Bailey (Acting)

Anthropology Carole Nagengast

Biology Sam Loker

Chemistry Tom Niemczyk

Communication & Journalism Brad Hall

Earth & Planetary Sciences Les McFadden

Economics Richard Santos

English Scott Sanders

Foreign Languages & Literatures Warren Smith

Geography Stan Morain History Jane Slaughter

Linguistics Sherman Wilcox

Mathematics & Statistics Charles Boyer (Acting)

Philosophy Russell Goodman

Physics & Astronomy Bernd Bassalleck

Political Science Ken Roberts

Psychology Mark McDaniel

Sociology Susan Tiano

Spanish & Portuguese Tey Diana Rebolledo

Speech & Hearing Sciences Amy Wohlert

TABLE 1 (continued)

COLLEGE OF ARTS AND SCIENCES PROGRAM DIRECTORS - 2003-04

African American Studies Shiame Okunor

Center for Advanced Studies Sudhakar Prasad

Consortium of the Americas for Interdisciplinary Science Nitant Kenkre

Earth Data Analysis Center Stan Morain

Feminist Research Institute Beth Bailey

Institute of Medieval Studies Timothy Graham Institute of Meteoritics Carl Agee

International Studies Institute Melissa Bokovoy

Latin American Studies Claudia Isaac

Maxwell Museum Garth Bawden

Museum of Southwest Biology Manuel Molles

Religious Studies Richard Wood

Women Studies Gail Houston

TABLE 2

COLLEGE OF ARTS AND SCIENCES

STANDING COMMITTEES I

TENURE AND PROMOTION COMMITTEES 2003-2004

College of Arts and Sciences Senior Promotion Committee 2003-04

Professor Helen Damico, English (Chair) Professor John Bussanich, Philosophy Professor Laura Crossey, Earth & Planetary Sciences Professor Michael Dougher, Psychology Professor Miguel Gandert, Communication and Journalism Professor Vladimir Koltchinskii, Mathematics and Statistics Professor Bruce Milne, Biology Professor Patricia Risso, History

College of Arts and Sciences Junior Promotion and Tenure Committee 2003-04

Professor Amy Wohlert, Speech and Hearing Sciences (Chair) Associate Professor, Peter Fawcett, Earth and Planetary Sciences Associate Professor, Les Field, Anthropology Associate Professor, Timothy Goldsmith, Psychology Associate Professor, Gail Houston, English Professor Natasha Kolchevska, Foreign Languages and Literatures Associate Professor, Robert D. Miller, Biology Associate Professor, Sharon O. Warner, English Associate Professor, Sherman Wilcox, Linguistics Associate Professor, Richard Wood, Sociology

TABLE 3

COLLEGE OF ARTS AND SCIENCES

PROMOTIONS, TENURE, MID-PROBATIONARY REVIEWS, NEW APPOINTMENTS, RESIGNATIONS AND RETIREMENTS 2003-04 Review Candidates

Name

Department

Action Required

Beverly Singer Luis Cadavid David Tierney Glenda Balas Krishna Kandath Mousumi Roy Gregory Martin Daniel Mueller Diane Thiel Lorna Brau Barbara Reyes Andrew Sandoval-Strausz **Douglas** Fields Christopher Butler Timothy Krebs Geoffrey Miller Tim Wadsworth Amy Neel Amanda Cobb Richard Cripps Thomas Turner James Brozik Lisa Chavez Anita Obermeier Susan Romano Durwood Ball Kimberly Gauderman Caroline Smith Michael Nakamaye Vakhtang Poutkaradze Akaysha Tang Martin Kirk Phil Ganderton Christine Sauer Byron Lindsey David Dunlap Michael Gold Mansoor Sheik-Bahae Sally Seidel

Anthropology Biology Chemistry Communication & Journalism Communication & Journalism Earth & Planetary Sciences English English English Foreign Languages History History Physics & Astronomy Political Science **Political Science** Psychology Sociology Speech & Hearing Sciences American Studies Biology Biology Chemistry English English English History History Linguistics Math & Stats Math & Stats Psychology Chemistry Economics Economics Foreign Languages & Literatures Physics & Astronomy Physics & Astronomy Physics & Astronomy Physics & Astronomy

Mid-Probationary Tenure & Promotion Tenure Tenure & Promotion Promotion Promotion Promotion Promotion Promotion Promotion Promotion Promotion

TABLE 3 (continued)

COLLEGE OF ARTS AND SCIENCES

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

Resignations/Retirements (effective AY 2003-04)

Berthold, Richard Condon, John Eddington, David Estill, Adrianne Feller, Daniel Hogan, Michael Hudson, Alan Kidd, Michael Learn, Cheryl Schibeci. Lynn Schmitter, Amy Snell, Seth Stone, Anne History Communication and Journalism Spanish Spanish History English Linguistics Spanish Women's Studies History Philosophy Geography Anthropology 62

COLLEGE OF ARTS AND SCIENCES

A&S TRAVEL DISBURSEMENTS - 2003-04

Department	General Allocations	Special Allocations
American Studies	\$ 3,195	\$ 600
Anthropology	\$10,650	\$ 0
Biology	\$15,975	\$1,200
Center for Advanced Studies	\$14,432	\$ 0
Chemistry	\$10,650	\$0
Communication & Journalism	\$ 8,520	\$ 608
Earth and Planetary Sciences	\$ 5,325	\$0
Economics	\$ 0	\$ 328
English	\$19,170	\$1,275
Foreign Languages	\$ 5,325	\$ 600
Geography	\$ 2,000	\$ 0
History	\$12,780	\$ 500
Linguistics	\$ 5,325	\$ 0
Mathematics	\$14,900	\$1,912
Medieval Studies	\$ 0	\$1,035
Philosophy	\$ 5,325	\$3,273
Physics & Astronomy	\$15,440	\$1,052
Political Science	\$ 8,520	\$ 0
Psychology	\$11,610	\$ 0
Religious Studies	\$ 1,000	\$ 0
Sociology	\$ 9,585	\$ 600
Spanish & Portuguese	\$ 7,455	\$2,684
Speech and Hearing	\$ 2,130	\$ 0
Women Studies	\$ 1,750	\$ 0
	\$191,062	\$15,667

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COLLEGE OF ARTS AND SCIENCES

A&S DISBURSEMENTS OF SPECIAL COLLEGE FUNDS - 2003-2004

Department .	Speakers' Honoraria
African-American Studies	\$0
American Studies	\$700
Anthropology	\$250
Biology	\$0
Chemistry	\$0
Communication & Journalism	\$0
Earth and Planetary Sciences	\$0
Economics	\$0
English	\$1,000
Foreign Languages	\$300
Geography	\$0
History	\$0
International Programs	\$0
Linguistics	\$0
Mathematics	\$0
Medieval Studies	\$696
Philosophy	\$450
Physics & Astronomy	\$1,600
Political Science	\$0
Psychology	\$0
Religious Studies	\$0
Sociology	\$0
Spanish & Portuguese	\$0
Speech and Hearing	\$0
Women Studies	\$0

\$4,996

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COLLEGE OF ARTS AND SCIENCES

SUMMER SESSION ALLOCATION DATA - 2003-2004

Department	Final 2003 Figures <u>Allocation</u>	Percentage
African-American Studies	\$8,000	1.16%
American Studies	\$6,550	0.95%
Anthropology	\$45,257	6.56%
Biology	\$40,026	5.80%
Chemistry	\$42,145	6.11%
Communication &	,	
Journalism	\$49,366	7.16%
Earth and Planetary		
Sciences	\$36,150	5.24%
Economics	\$23,000	3.34%
English	\$82,915	12.02%
Foreign Languages	\$38,834	5.63%
Geography	\$4,000	0.58%
History	\$29,100	4.22%
International Programs	\$0	0.00%
Linguistics	\$16,000	2.32%
Mathematics	\$111,961	16.23%
Natural Sciences	\$0	0.00%
Philosophy	\$12,000	1.74%
Physics & Astronomy	\$14,000	2.03%
Political Science	\$22,200	3.22%
Psychology	\$22,500	3.26%
Religious Studies	\$8,000	1.16%
Sociology	\$28,439	4.12%
Spanish & Portuguese	\$34,648	5.02%
Speech and Hearing	\$4,000	0.58%
Women Studies	\$10,550	1.53%

COLLEGE OF ARTS AND SCIENCES

STANDING COMMITTEES II

GRADUATE AND UNDERGRADUATE COMMITTEES 2003-04

A&S Graduate Committee

Lynn Dianne Beene, English Timothy Moy, History Christine Sierra, Political Science Steve Gangestad, Psychology Howard Snell/Ric Charnov, Biology Krys Galicki, Mathematics & Statistics Karen Foss, Communication & Journalism M. Jane Young, American Studies

A&S Undergraduate Committee

Wanda Martin (Chair) Beth Bailey, American Studies Les Field, Anthropology Steve Stricker, Biology Cary Morrow, Chemistry Jan Scheutz, Communication and Journalism Laura Crossey, Earth and Planetary Sciences Philip Ganderton, Economics Gary Harrison, English Monica Cyrino, Foreign Languages and Literatures Jerry Williams, Geography Charlie Steen, History Alan Hudson, Linguistics Phyllis Wilcox, Signed Language Kelly Becker, Philosophy Trish Henning, Physics and Astronomy Ellen Grigsby, Political Science Harold Delaney, Psychology Robert Fiala, Sociology Judy Maloof, Spanish and Portuguese Chris Vining, Speech and Hearing Sciences

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COLLEGE OF ARTS AND SCIENCES

DEGREES AWARDED - 2003-2004

YEAR	BACHE		ADVANCED DEGREES			TOTAL			
			Maste	r's (a)	Doctorates				
	Number of Awards	% Incr Over Prev. Year	Number of Awards	% Incr Over Prev. Year	Number of Awards	% Incr Over Prev. Year	Number of Awards	% Incr Over Prev Year	
1998	1066	0,0	230	0.00	84	0.00	314	0.00	
1999	1104	3.40	211	-8.20	104	23.80	315	0.30	
2000	1094	-0.91	207	-1.80	88	-15.30	295	-6.30	
2001	972	-12.55	221	6.70	94	6.80	315	6.70	
2002	973	0.10	175	-20.80	113	20.20	288	-8.50	
2003	1160	16.12	228	30.30	80	-29,20	308	7.00	
2004	1310	11.45	211	-8.06	120	33,33	331	6.95	
7 Year Change	244	18.6	-19	-9.00	36	30.00	17	5,14	

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

Data Source: Office of Institutional Research.

COLLEGE OF ARTS AND SCIENCES

DEGREES AWARDED BY DEPARTMENT - 2003-2004

· · · · · · · · · · · · · · · · · · ·	Bache	lor's De	grees		Master's Degrees		 Doctoral Degree		grees	
Department	2002	2003	2004		2002	2003	2004	2002	2003	2004
Am Studies	10	12	6]	3	7	6	4	4	7
Anthropology	51	52	69		13	30	17	10	14	12
Biology	147	181	212		3	8	6	12	9	14
Chemistry	8	13	13		5	9	2	5	6	5
C&J	119	148	129		9	13	19	 8	3	8
E&PS	15	19	12		7	14	9	 5	2	1
Economics	22	40	42		6	5	9	4	1	3
English	58	99	79		11	16	10	10	3	8
FL&L	11	23	23		8	12	8	 1	-	1
Geography	9	10	11		13	5	1	-	- (-
History	43	66	68		11	7	10	4	3	5
Linguistics	13	12	25		_ 2	5	3	2	2	-
Math & Stats	22	20	36		13	17	19	8	8	5
Philosophy	7	10	17		3	5	7	-	1	1
Physics	11	17	8		6	7	7	12	8	11
Pol. Science	54	67	88		1	1	4	2	1	1
Psychology	141	177	267		4	7	16	15	8	28
Sociology	88	106	110		3	2	4	3	3	6
Sp & Port	18	24	43		10	12	14	7	3	3
S&HS	28	18	27		32	26	21	-	-	-
Othr Prgm	48	46	25		16	20	19	1	1	1
Total (1)	923	1160	1310	-	211	228	211	94	80	120

(1) Bachelor's degrees granted with double majors are counted once in each department, so this total may not agree with Table 6. *Includes summer,fall, and spring graduates.

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COLLEGE OF ARTS AND SCIENCES

FTE BUDGETED FACULTY - 2003-04

Department	Regular Faculty	GA/TA
American Studies	6.67	3.00
Anthropology	24.95	7.75
Biology	36.47	20.75
Chemistry	20.90	16.00
Communication &		
Journalism	19.43	8.50
Earth and Planetary		(D C
Sciences	19.49	6.75
Economics	13.00	6.25
English	35.57	29.50
Foreign Languages	11.39	7.75
Geography	4.00	1.50
History	27.00	11.50
Linguistics	10.83	2.00
Mathematics	38.34	21.00
Maxwell	1.47	0.00
Medieval Studies Institute	0.50	0.25
Philosophy	13.00	3.50
Physics	30.00	12.00
Political Science	15.58	6.00
Psychology	20.33	12.25
Sociology	17.25	7.00
Spanish & Portuguese	14.50	18.25
Speech and Hearing	6.00	2.00
Women's Studies	0.00	1.00

Data Source: College of Arts and Sciences Instructional Budget, 2003-04

COLLEGE OF ARTS AND SCIENCES NEW RESEARCH AND TRAINING GRANTS - 2003-2004 (tenure track and research faculty)

		Number of	Number of
Department	Amount	Faculty	<u>Grants</u>
Anthropology	\$321,328	9	16
Arts & Sciences	\$366,090	1	1
Biology	\$14,085,093	42	88
Center for Advanced Studies	\$1,844,580	4	9
Chemistry	\$3,081,283	13	23
Contract Archeology	\$898,523	3	27
Earth & Planetary Sciences	\$3,223,703	12	24
Earth Data Analysis Center	\$1,732,396	6	18
Economics	\$798,066	3	6
English	\$1,200	1	1
Geography	\$87,325	1	2
Institute for Public Policy	\$284,426	2	3
Institute for Social Research	\$1,391,651	7	13
Linguistics	\$3,000	1	1
Mathematics	\$1,923,578	12	20
Maxwell Museum	\$32,991	4	4
Meteoritics	\$1,306,471	8	17
Physics	\$4,815,462	24	40
Political Science	\$710,000	2	.2
Psychology	\$2,248,623	8	10
Religious Studies	\$41,036	1	1
Sociology	\$329,948	3	4
Spanish and Portuguese	\$21,428	1	1
Total	\$39,548,201	168	331
Philosophy	(\$5,000)		

\$39,543,201

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The Program is still hampered by lack of faculty. Presently, the Program has a Director, a full-time Professor, one permanent and four temporary part-time Instructors. Attempts to fill retired Dr. William's position with a full-time historian still continue. Dr. Williams returned to teach (part-time) the history courses required for a major in African American Studies.

The Program offered 46 courses during the 2004 academic year. This number increases to 59 counting TW courses with other departments and programs.

The Summer Institute in African American Studies offered five courses and hosted Professor Hassan Johnson, Claremont University as the 2004 African American Visiting Scholar.

This past year is historical. African American Studies graduated 11 students of all races and ethnicity with Bachelors Degree in African American Studies. A graduation ceremony was held in conjunction with the university's annual award ceremony for the local African American High School students who have been admitted to various Universities including those who have achieved various scholastic distinctions during the academic year.

The AAStudies cooperated with the Charlie Morrisey Research Hall, the African American Students Services, the Office of African American Affairs and the MLK Jr. State Commission to organize campus-wide celebration of the 20th Annual MLK Jr. Commemorative Services. President Caldera as well as other community dignitaries made remarks. There were musical, poetic, and dance performances also. It was very well attended by the University faculty and staff as well as the general community.

The AAS "Africa Field History Experience" Program conducted another successful trip to Africa with 15 multicultural/racial and national students. Included in the places visited were the WEB Dubois Research Center, the Cape Coast and Elmina Castles, the Old Ashanti King's Palace, villages and interesting National Parks.

Again, AAS Program cosponsored the successful Nineteenth Annual Black History Month Kickoff Brunch with Ms. Shoshana Johnson, the first Black woman POW in Iraq, as the keynote speaker. Over three hundred attendees of all ages, races and ethnicities heard Ms. Johnson speech, which was broadcasted live by KUNM Radio, the University's radio station.

The Charlie Morrisey Research Hall provided the community with four major photo exhibitions from the Charlie Morrisey Collections of historical photographs of African Americans in the Southwest.

Looking Forward.

It is hoped that the College of Arts and Sciences will respond to the attempts for increase in the number of faculty in the program, especially a historian.

The importance of students walking in the five centuries old footsteps of slaves in Cape Coast and Elmina Castles, their visits to Chiefs and the Councils of Elders, villages, etc infuses life into some of the readings in some of the required African American Studies classes. And, students' reaction to these experiences, are invaluable addition to their overall educational experience. It is hoped that in the future, the African Field History experience can be incorporated in the program of study as one of the capstone courses for students graduating with a degree in African American Studies.

The Charlie Morrisey Research Hall has to expand to include a program for Visiting Scholars, the development of Junior Research Fellows selected from among the State's high school students who interest is the history of people of African descent in the Southwest and community projects geared toward increasing research and utility of the Hall, Also, the location of the Hall on the fourth floor of Mesa Vista coupled with the perennial parking problems on campus, raised concerns regarding accessibility of the materials to the general community. Therefore, plans have been discussed to expand beyond the campus to enhance the Hall's services and to improve it's accessibility to the Black community in particular but all interested persons in general.

Finally, the African American Studies Program is cooperating with the Office of International Studies and Services, to establish student exchange program with either the University of Cape Coast or the University of Education of Winneba, Ghana. I have visited the University of Cape Coast for preliminary discussions and keeps contact with the University of Education of Winneba from which the initial response is very favorable. It is hope that soon after the students exchange program is established its expansion to include faculty exchange becomes inevitable.

It is hoped that institutional responses to these initiatives and needs match the energy and effort expended.

Sincere appreciation to faculty and staff for jobs well done.

We pray for a better year.

ANNUAL REPORT OF THE DEPARTMENT OF AMERICAN STUDIES COLLEGE OF ARTS AND SCIENCES

July 1, 2003 to June 30, 2004 Beth Bailey, Acting Chair

The faculty in the American Studies department continues to operate primarily as a committee-of-the-whole as it sets policy and implements the program of study for its undergraduate and graduate students. During the 2003-2004 academic year, Prof. Beth Bailey served as acting chair of the department, replacing Prof. Gabriel Meléndez, who was on sabbatical. Professor Jane Young served as graduate director, though her health problems left the chair to assume most of her duties in spring semester. Prof. Amanda Cobb served as undergraduate director.

Significant Developments

Key developments in the American Studies department during the 2003-2004 academic year included 1) personnel changes (departures and new hires) 2) a tenure case and 3) new recruitment efforts for both graduate and undergraduate programs.

1. Departures and Hires

Two faculty members will leave the department at the end of the 2003-2004 academic year. Bazan Romero had a negative decision in his mid-probationary review. Beth Bailey accepted a position in the history department at Temple University.

Jake Kosek, a specialist in environmental studies, was hired in a national search that produced 59 bona fide candidates. Prof. Kosek is an exceptionally qualified candidate with significant teaching experience and an excellent publication record to date. Because he was awarded a highly competitive fellowship at the University of California-Berkeley for the 2004-2005 academic year, he is taking leave without pay and will begin teaching in the department in 2005-2006. In his absence, the department has hired Kristan Cockerill, who formerly served as an assistant professor at Columbia University's biosphere, to teach 5 classes as an instructor next year.

In discussions among Beth Bailey (as acting chair), Reed Dasenbrock, dean, and Jane Young, it has been decided that the college will pursue an arrangement with Prof. Young that will offer her a reduced teaching load at reduced salary until she is able to take retirement at the end of July, 2006. This agreement has not been concluded as of the end of the academic year, but is in progress.

In preparation for a possible spousal acommodation hire next year (process has been authorized by the dean) the department developed guidelines for the spousal/partner hire evaluation process.

2. Temure Case

Prof. Amanda Cobb was awarded tenure and promoted to associate professor of American Studies. The department is very pleased at this recognition of her scholarly work and her many contributions to American Studies and to the university community.

3. New Recruitment Efforts and Increased National Visibility of Department

The faculty engaged in extended discussions about how to build on the very strong review it received from the external review committee in spring 2004. Alex Lubin spearheaded an initiative to redesign the departmental website, and was key to attracting the national American Studies Association meeting to Albuquerque in 2008. As undergraduate director, Amanda Cobb (with the assistance of Rebecca Schreiber) worked to create more of a sense of community among undergraduate majors in the department. The American Studies colloquium series, reinvigorated by Cobb, Lubin, and Schreiber, offered very well received and attended talks from nationally-prominent scholars, including Robert Warrior and David Roedigger.

Faculty Contributions/Publications

The department faculty maintained a high level of professional engagement and productivity during the 2003-2004 academic year.

Assistant Professor Rebecca Schreiber taught three new courses this year, including American Studies' largest lecture course, Television and American Culture. Her manuscript, "The Cold War Culture of Political Exile: US Artists and Writers in Mexico, 1940-1965," is under advance contract with the University of Minnesota Press, with a contract due date of Spring 2006. She also worked on two articles, both of which have been accepted for publication in edited collections: "Resort to Exile: Willard Motley's Postwar Writings on U.S. Tourism in Mexico" will appear in Nicolas Bloom, ed., *Mexican Lands, American Spaces* (Scholarly Resources Press, forthcoming); "Dislocations of Cold War Cultures: Exile, Transnationalism, and the Politics of Form" will be published in Sandhya Shulka and Heidi Tinsman, eds., "Our Americas" (forthcoming, Duke University Press), and is completing a significant review essay American Quarterly.

Assistant Professor Alex Lubin is well prepared for his mid-probationary review, coming up in the 2004-2005 academic year. He has taken in increasing responsibility for graduate instruction, and his manuscript, "Romance and Rights: The Politics of Interracial Intimacy, 1945-1953," is in press and will be forthcoming from the University Press of Mississippi in December 2004 or January 2005. In addition, his work on the novelist Ann Petry has led to a completed article, now under consideration at *Callaloo*, and an anthology project, now under advance contract with UP Mississippi, on Ann Petry and her relationship to the literary left after WWII. Finally, the Feminist Research Institute and the College of Arts and Sciences funded his research/speaking trip to Birzeit University in Palestine, which contributes to his comparative understanding of miscegenation laws in the U.S., South Africa, and Israel.

Assistant Professor Bazan Romero received a negative mid-probationary review and was excused from departmental service expectations this academic year. He taught his scheduled courses.

Assistant Professor Amanda Cobb was awarded tenure and promoted to associate professor this spring. She continues to play a pivotal role in the department, and to make progress on her second monograph, a study of Native American "insider" activists in Washington, DC who helped to shape policy during the 1960s (tentatively titled "The *Real* Washington Redskins"). She is also in the midst of co-editing a collection of original scholarly articles, to be titled *Report from the Word Wars: Native American Rhetorics*. Cobb has also recently published a chapter in an edited (peer-reviewed) volume, with another accepted and forthcoming, and is currently co-authoring an article on American Indian sovereignty with a lawyer who specializes in Indian law. Cobb also serves as an alternate board member and Senior Fellow for Americans for Indian Opportunity (AIO) and is working to develop an institute at UNM focused on Native American issues.

Professor Jane Young had significant health problems this year (see "significant developments," above), which had impact on her research accomplishments and departmental service. She continues to carry a much heavier graduate advising load than anyone else in the department, chairing 11 dissertations, of which 6 were brought to completion and successfully defended, including a couple from students who would never have finished without her encouragement and editorial work. She continues to serve on the Zuni Tribal Museum Committee and the Park Service Advisory Committee for the Petroglyph National Monument. She was nominated for the Gunther Starkey teaching award.

Professor Beth Bailey served as acting chair while Prof. Meléndez was on sabbatical. She coauthored the 7th edition of the major US history textbook, A People and A Nation, and co-edited a scholarly anthology on the 1970s. She also published two historiographical articles on sexuality and guest edited the OAH Magazine issue on dating and sexuality, and attended, by invitation, workshops at UC-Berkeley, the Radcliffe Institute, and a working conference on "Culture and Power in the Cold War" in Saratov, Russia.

Professor Gabriel Meléndez was on sabbatical during the 2003-2004 academic year, working on his new book project on film in the southwest. He remains active in publishing and in professional organizations and participated in several major conferences. He will return as chair in August, 2004.

Vera Norwood moved to a full-time position as senior associate dean in the College of Arts and Sciences this year, but continues to participate actively in the department's committee-of-thewhole decision making. She also works with departmental graduate students in the field of environment, science, and technology. Her ongoing research is on native plant protection efforts in the United States.

Graduate Program

The American Studies graduate program currently enrolls 60 graduate students. The department received 49 complete applications for admission to the graduate program for the academic year

2004-2005; 16 of those were from New Mexico residents; 6 were international students; 21 states were represented. From self-identification, the applicant pool included 4 Hispanic/Latino/a applicants, 2 Native American applicants, and 3 African American applicants. We admitted 20 students with a waiting list of 3, netting an initial entering class of 12. Two students later deferred admission due to financial constraints. Acceptances included 3 African Americans, 2 Native Americans, and 2 Hispanic/Latino/as; our entering class of eleven includes five students of color.

Seven students completed and defended PhD dissertations this year: Bill Dodge, "The Meaning of Place at Balckrock: Change and Identity on the Zuni Indian Reservation."

Dave Bennett, "Bloys Camp Meeting: Cultural Center of Camaraderie, Community and Faith in the American Southwest."

Brij Lunine, "Creativity and Constraint: The Role of Television and Popular Culture on the Lives of Adolescents."

Seamus O'Sullivan, "Wasted and Wounded: Men's Stories of Homelessness in Albuquerque, NM, 1998-2002."

Jeremy Hockett, "Reckoning Ritual and Counterculture in the Burning Man Community: Communication, Ethnography, and the Self in Reflexive Modernism."

Rebecca Hernandez, "Past is Perfect in the Present Tense: Exhibiting Native America in Museums and Culture Centers."

Lloyd Lee, "Twenty-first Century Diné Cultural Identity: Defining and Practicing Sa'ah Naaghai Bik'eh Hozhoon."

In addition, five MA students successfully defended their MA theses, and one passed the MA exam (an alternative to the thesis).

Total enrollment by graduate students under American Studies departmental course numbers totaled 98 in the fall semester, 80 in the spring semester, and 14 in the summer semester.

Undergraduate Program

The department currently has approximately 24 undergraduate majors. We offered 21 undergraduate courses in the fall semester, with a total enrollment of 653. In spring semester, we offered 29 courses with a total enrollment of 679. Summer semester we had undergraduate enrollments totaling 103. (The total number of courses does not include sections of courses taught by other departments with American Studies course numbers; enrollment numbers do include such course enrollments.)

Future Plans

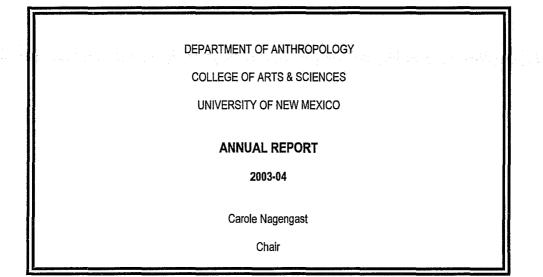
The department has had a significant turnover in faculty over the past three years, so will be considering the curriculum in light of departures and new/recent hires. The undergraduate curriculum will be discussed in 2004-2005, with the intent of creating a larger introductory course and perhaps of requiring that majors take more courses within the department. Faculty will also be working toward heightening national visibility with an eye toward the eventual NRC rankings, delayed at this point, but which the external review team last year predicted we would do very well in.

We continue to seek better responsiveness from OGS in the graduate admissions process, in their role in awarding of grants and fellowships to students, and in maintaining accurate records of our students' progress toward degrees. We also hope for authorization for another search in the near future, as the department has few senior faculty members, especially given our graduate teaching load

Appointments and Departures:

Professor Beth Bailey left UNM for Temple University, effective July 31, 2004.

Professor Bazan Romero left UNM following a negative mid-probationary review, effective July 31, 2004.



Significant Developments during the Academic Year, 2003-2004

The academic year 2003-4 was a productive one for the Anthropology Department.

There were no permanent hires in 2003-4 but the department was able to offer a one-year Visiting Assistant Professor position to Dr. Keith Hunley, whose specialty in Human Genetics fills the significant gap in our faculty left by the resignation of Prof. Anne Stone in 2002. Professor Hunley joined us in Fall 2004 and will be with us until Spring 2005. Professor Marilyn Salvador retired, effective June 30 2004 in order to take a position as the director of the Museum of Man in San Diego, California. Finally, it was announced in fall 2004 that Professor Jeffrey Froehlich will retire at the end of the academic year (2005). We expect to hire a full-time Assistant Professor with a specialty in Human Genetics in the next academic year.

Department integration continues to be facilitated by the work of the a specially designated Committee headed by Jane Buikstra and including Magdalena Hurtado and Wirt Wills. This committee had extensive meetings with the Graduate Committee, the Undergraduate Committee and all subfields. The committee produced an extensive report in Spring 2004, which was distributed and taken up for discussion by the full faculty in fall 2004. These discussions will continue into the next academic year.

The *Graduate Committee* (headed by Sylvia Rodriguez and including Suzanne Oakdale from Ethnology, Osborne Pearson from Biological Anthropology, Bruce Huckell from archaeology, Jane Lancaster from Human Evolutionary Ecology, and staff graduate advisor Erika Gerety) continued discussions about the

integration of subfields in graduate training and instruction.

The Undergraduate Committee (headed by Undergraduate Director Les Field, with James Boone representing Archaeology and HEE, Osbjorn Pearson from Biological Anthropology, and staff undergraduate advisor Yolanda Nieto), supported the discussion of subfield integration and long-term planning for 100-level instruction as well as a broader selection of courses in the undergraduate curriculum. Curricular initiatives at the 100-level promoted by the College of Arts and Sciences have also been explored and supported.

The Instructional Resources Committee, chaired by Professor Robert Leonard, with Professors David Dinwoodie and Joseph Powell, Department Administrator Doyle Kimbrough, and computer technician Erica Capling, 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. They made new office allocations to several faculty members, including Les Field, Beverly Singer, Debra Komar and Emeritus Professor Karl Schwerin.

The Advisory Council, headed by the Chair with members who are conveners of the subfields: James Boone, Archaeology; Kim Hill [Fall], and Jane Buikstra [Spring] Biological Anthropology; Marta Weigle, Ethnology; and Jane Lancaster, Human Evolutionary Ecology) considered personnel, and procedural matters.

The *Post-tenure Faculty Evaluation Committee* (elected by the faculty) was comprised in Spring 2003 of Jane Lancaster (Chair), Marta Weigle, and Jane Buikstra. The Committee evaluated submitted materials on the basis of post-tenure policies and procedure agreed to in 2002 and advised the Chair on rankings. After faculty discussion of salary allocation, there was a vote to continue to allocate raises using a mixed cost-of-living percentage and percentages based on ranking. This continues the effort to lessen the disparity between long-time faculty whose ERA retirement depends on their five highest salary years and newer faculty whose retirement plans depend on salary earned from the beginning of their UNM career.

Graduation: On Saturday, May 15, 2004, the Department of Anthropology convened its sixth annual convocation in the Anthropology Lecture Hall with the subsequent reception held in Maxwell Museum of Anthropology. Thanks to superb work on the part of the staff and fine faculty support, this was again a most successful and memorable occasion.

The 36th Annual Bioarcheological Field School, the ninth under the aegis of UNM, was led by Professor Jane Buikstra at the Center for American Archeology, Kampsville, Illinois, in the lower Illinois River Valley. The 2004 Summer Field School in Archaeological Research had to be cancelled for this year because of the illness of a faculty member. We expect to resume the Field School in the next academic year.

Significant Plans and Recommendations for the Near Future

Department integration continues to be of paramount concern. The Integration Committee submitted its report at the end of the academic year and it will be discussed throughout the forthcoming year. We expect to be able to implement some of its recommendations and agree upon others by the end of 2004-5.

The Department of Anthropology completed its celebration of its Diamond Jubilee in 2003-04. The committee appointed in 2002 and chaired in 2003 by Louise Lamphere and in 2004 by Carole Nagengast worked to ensure that the jubilee raised both money and visibility for the department. Jubilee events in scheduled in 2003 and 2004 included homecoming celebrations, a film series, and other lectures, most especially those sponsored by the Journal of Anthropological Research. Leslie Spier Distinguished Professor made a generous contribution to establish an endowment fund. We raised almost \$40,000 for the Jane Buikstra Graduate Student Fund, which is dedicated to the single most pressing Department need: graduate student support.

The trustees of the Frank Hibben Trust initiated discussions of the distribution of funds left by the late Frank Hibben for the support of students. We look forward to the probability that the Hibben Trust will be an increasingly significant source of funding for anthropology students.

Anthropology at UNM has every reason to celebrate its importance to the university, to the development of anthropology in this country, and to the field of anthropology as the global study of humankind from its beginnings to the present. The Department, the Maxwell Museum of Anthropology, the Alfonso Ortiz Center for Intercultural Studies, and the Hibben Center for Archaeological Research must continue to work together to assure that we remain at the forefront of research, teaching, and public anthropology.

Appointments

Faculty None

Staff

Ann Braswell assumed a newly defined position as Administrative Assistant II for the Journal of Anthropological Research on October 13, 2003

Andrea Rodgers joined us as Accountant II on April19, 2004. (Department Administrator Doyle Kimbrough did the duties of the Accountant for several months until the position could be filled).

Both Braswell and Rodgers settled in quickly under the supervision of Kimbrough and with the assistance of long-time employees Erika Gerety (Program Advisement Coordinator) and Carla Sarracino, Administrative Assistant II) and Yolanda Nieto (Administrative Assistant II) who helped assure the smooth and successful workings of the Department.

Separations

Faculty

Full Professor Marilyn Salvador retired after 27 years at UNM (effective 30 June 2004) to accept a position as Director of the Museum of Man in San Diego California. We wish Prof. Salvador success in her new endeavor.

Staff

Margaret Colclough, Administrative Assistant III for the Journal of Anthropological Research resigned on August 1, 2003.

Accountant II, Mary Rhodes, resigned in November 21, 2003 to take a position in another department.

Sabbatical and Other Leaves

Associate Professor Ann Ramenofsky was on sabbatical for Spring Semester, 2004. Professor Louise Lamphere was on leave Without Pay for Spring Semester 2004.

Publications

The faculty continued its good productivity. In the 2003 reporting period, 23 (of 27) tenure-stream faculty members produced 4 books, and 83 book chapters/journal articles.

The 2003 book volumes are as follows:

Buikstra, Jane:

The Bloarchaeology of Tuberculosis: A Global View on a Reemerging Disease, Co-author: Charlotte A. Roberts, University of Florida Press. Feld, Steven Editor and Translator: Ciné-Ethnography, by Jean Rouch, Minneapolis: University of Minnesota Press. Hurtado, Magdalena: Lost Paradises and the Ethics of Research and Publication, Co-author: F.M. Salzano, NY: Oxford University Press. pps. 234. Weidle. Marta

The Lore of New Mexico, Abridged Edition, Co-author: Peter White, Albuquerque: UNM Press

The 2003 Publications are as follows:

Bawden, Garth

Compiler and Editor: Readings in American Archaeological Theory: Selections from American Antiquity 1962-2000, Society for American Archaeology, Washington, D.C.

Introduction: In Readings in American Archaeology: Selections from American Antiquity 1962-2000, Society for American Archaeology, Washington D.C.

Buikstra, Jane

"Strontium isotope analysis and migration in the South Central Andes: Tiwanaku colonization of the Moquegua Valley," Co-authors: Kelly Knudson, T. Douglas Price, and Deborah Blom, *Proceedings of the 33rd Internation Symposium on Archaeometry*, H. Kars (ed.), Geological and Bioarchaeological Studies, Vrije Universiteit, Amsterdam.

"The use of strontium and lead isotope analyses to investigate Tiwanaku migration and mortuary ritual in Boliva and Peru," Co-authors: Kelly Knudson, T. Douglas Price, and Deborah Blom, Archaeometry.

"A Nineteenth Century Rural Irish Cemetery in McDonough County, Illinois," Co-author: Lynne Goldstein, An Upper Great Lakes Archaeological Odyssey: Essays in Honor of Charles E. Cleland, William A. Lovis, ed., Cranbrook Institute of Science.

"Forensic Anthropology and Bioarchaeology in the American Anthropologist : Rare but Exquisite Gems," Co-authors: Jason L. King, and Kenneth C. Nystrom, American Anthropologist 105 (1): 38-52.

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"Differential Diagnosis of a Prehistoric Biological Object from the Koster (Illinois) Site," Co-author: Debra A. Komar, International Journal of Osteoarchaeology 13(3): 157-164.

"The History of Tuberculosis from the Earliest Times to the Development of Drugs," Co-author: Charolotte A. Roberts, Clinical Tuberculosis, 3rd Edition, P.D.O. Davies, ed., Chapter 1, pp. 3-20. Arnold: London.

"Embodied Traditions: The Chachapoya and Inka Ancestors," Co-author: Kenneth C. Nystrom, Theory, Method, and Practice in Modern Archaeology, R. J. Jeske and D. K. Charles, eds. Chapter 3, pp. 29-48. Praeger Publishers: Westport.

"Chachapoyas Dry Bones and Inka Mummies: When Did Death Occur?" Co-authors: Kenneth Nystrom, and Sonia Gullien, *Mummies in a New Millenium: Papers from the 4th World Congress on Mummy Studies. Nuuk, Greenland, September 4th to 10th, 2001, N. Lynnerup, C. Andreasen, and J. Berglund, eds. Greenland National Museum and Archives. Danish Polar Center: Copenhagen, pp. 158-161.*

"Louse Infestation of the Chiribaya Culture, Southern Peru: Variation in Prevalence by Age and Sex," Co-author: Karl J. Reinhard, Memorias de Instituto Oswaldo Cruz 98 (Suppl. 1): 173-179.

"Pathoecology of Chiribaya Parasitism," Co-authors: E. Martinson, Karl J. Reinhard and K. Dittmar, Memorias de Instituto Oswaldo Cruz 98 (Suppl. 1): 195-205.

"Status and Gender Differences in Diet at Mound 72, Cahokia, Revealed by Isotopic Analysis of Bone," Co-authors: Stanley H. Ambrose and Harold W. Krueger, *Journal of Anthropological Archaeology* 22: 217-226.

Crown, Patricia

"Modifying pottery and kivas at Chaco: Pentimento, Restoration, or Renewal?" Co-author: W.H. Wills, in American Antiquity 68: 511-532.

Feld, Steven

"Editor's Introduction," in *Ciné-Ethnography*, by Jean Rouch, Minneapolis: University of Minnesota Press, pp. 1-25. "Vocal Anthropology: from the music of language to the language of song," Co-authors: Aaron Fox, Thomas Porcello, and David Samuels, *A Companion to Linguistic Anthropology*, Alessandro Duranti, ed., Oxford: Blackwell, pp. 321-345. "A Rainforest Acoustemology," abridged and modified from Sound Worlds, *Sound*, Patricia Kruth and Henry Stobart, eds., Cambridge: Cambridge University Press, 2000, in *The Auditory Culture Reader*, Les Back and Michael Bull, eds., London: Berg, pp. 223-239.

"Tailgating," The Continuum Encyclopedia of Popular Music of the World; Volume II: Performance and Production, John Shepherd, David Horn, Dave Laing, Paul Oliver, and Peter Wicke, eds., London: Continuum, pp. 171. "Trombone," The Continuum Encyclopedia of Popular Music of the World; Volume II: Performance and Production, John Shepherd, David Horn, Dave Laing, Paul Oliver, and Peter Wicke, eds., London; Continuum, pp.463-465.

Field, Les

"Dynamic Tensions in Indigenous Sovereignty and Representation: A Sampler," *American Ethnologist* 30(3): 447- 453. "Unacknowledged Tribes, Dangerous Knowledge: The Muwekma Ohlone and How Indian Identities are 'Known'," *Wicazo Sa*, 18(2): 79-94.

"What Must It Have Been Likel' Critical Considerations of Pre-Contact Ohlone Cosmology as Interpreted Through Central California Ethnohistory," Wicazo Sa, 18(2): 95-126.

Hill, Kim

"Modeling growth and senescence in physical performance among the Ache of Eastern Paraguay," Co-author: R.S. Walker, American Journal of Human Biology 15: 196-208.

"Changes in large vertebrate densities over a five year period in the Mbaracayu Reserve, Paraguay: hunting depletion or natural factors," Co-authors: G. McMillan and Rosalia Farina, Conservation Biology 17: 1312-1323.

"Gathering," Co-author: A.M. Hurtado, in J Moykr ed, Oxford Encyclopedia of Economic History, New York: Oxford University Press, Vol 2: 394-395.

"Hunting," Co-author: A.M. Hurtado, in J Moykr ed., Oxford Encyclopedia of Economic History, New York: Oxford University Press,

"Methylenetetrahydrofolate Reductase (MTHFR) Allele Frequencies in Amerindians," Co-authors: M.V. Monslave, F.M. Salzano, J.L. Rupert, M.H Hutz, A.M. Hurtado, P.w. Hochachka, and D.V. Devine, *Annals of Human Genetics* Vol. 67, Iss. 4, pp. 367-371(5). "A longitudinal study of tuberculosis outcomes among immunologically naïve Aché natives of Paraguay," Co-authors: A.M Hurtado, W. Rosenblatt, J. Bender and T. Scharmen, American Journal of Physical Anthropology 121: 134-150

Huckell, Bruce:

"The Ventana Complex: New Dates and New Ideas on Its Place in Early Holocene Western Prehistory," Co-author: C. Vance Haynes, Jr., American Antiquity 68: 353-371.

"2002 Investigations at the Boca Negra Wash Folsom Site, North-Central New Mexico," Co-authors: J. David Kilby and Marcus J. Hamilton, Current Research in the Pleistocene 20: 33-35.

"San Pedro, River of the Ancients," Archaeology Southwest 17(3): 4-5.

Hurtado, Magdalena

"Methylenetetrahydrofolate Reductase (MTHFR) Allele Frequencies in Amerindias," Co-authors: M.V. Monsalve, F.M. Saizano, J.L. Rupert, M.H. Hutz, K. Hill, P.W. Hochachka, and D.V. Devine, *Annals of Human Genetics* Vol. 67, Iss. 4, pp. 367-371(5).

"Distribution of CGG repeats and FRAXAC1/DXS548 alleles in South American populations," Co-authors: R.C. Mingroni-Netto and nine other authors, American Journal of Medical Genetics Vol. 111(3): 243-252.

"Longitudinal study of tuberculosis outcomes among immunologically naïve Aché natives of Paraguay," Co-authors: K. Hill, W. Rosenblatt, J. Bender and T. Scharmen, American Journal of Physical Anthropology 121(2): 134-50.

"Chapter 1, Introduction," Co-author: F.M. Salzano, Lost Paradises and the Ethics of Research and Publication, F.M. Salzano and A.M Hurtado, NY: Oxford University Press. pps. 3-26.

"Chapter 11, Conclusions," Co-author: F.M. Salzano, Lost Paradises and the Ethics of Research and Publication, F.M. Salzano and A.M Hurtado, NY: Oxford University Press, pps. 211-228.

"Chapter 9, Public health and adaptive immunity among natives of South America," Co-authors: I. Hurtado and K. Hill, Lost Paradises and the Ethics of Research and Publication, F.M. Salzano and A.M Hurtado, NY: Oxford University Press. pps. 164-192.

Chapter 10, The ethics of research with remote tribal populations," Co-author: K. Hill , Lost Paradises and the Ethics of Research and Publication, F.M. Salzano and A.M Hurtado, NY: Oxford University Press. pps. 193-210.

"Gathering," Co-author: K. Hill, in: Editor, Joel Moykr, Oxford Encyclopedia of Economic History Volume 2: 394-395. "Hunting." Co-author: K. Hill, in: Editor, Joel Moykr, Oxford Encyclopedia of Economic History Volume 3: 10-12.

"Human Hierarchy Formation and Its Health Implications," Co-author: A. Evans, Hawaii International Conference on Social Sciences Proceedings, June, 2003, Honolulu, Hawaii. USA.http://www.hicsocial.org/Social2003Proceedings, pps. 1-27.

Kaplan, Hillard

"The evolution of human life expectancy and intelligence in hunter-gatherer economies," Co-author: A. Robson, American Economic Review 93 (1): 150-169.

"Embodied Capital and the Evolutionary Economics Of the Human Lifespan," Co-authors: J.B. Lancaster & A. Robson, in: Lifespan: Evolutionary, Ecology and Demographic Perspectives, J.R. Carey & S. Tuljapakur (eds.) Population and Development Review 29, Supplement 2003, Pp. 152-182.

"Neural Capital and Lifespan Evolution among Primates and Humans," Co-authors: T. Mueller, S. Gangestad, and J.B. Lancaster, in *The Brain and Longevity*, C.E. Finch, .J.-M. Robine & Y. Christen (eds.), Springer, Pp. 69-98.

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Komar, Debra

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Leonard, Robert

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"Bone density studies in zooarchaeology," Co-authors: Y.M. Lam, C.W. Marean, and X. Chen, *Journal of Archaeological Science* 30: 1701-1708.

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Big Headaches in the Prer-Dynastic: Cranial Trauma at Hk43," Co-author: W.E. Potter, Nekhen News 15: 26-27. Ramenofsky, Ann

"Native American Disease History: Past Present, and Future Directions," Co-authors: A.K. Wilbur and A.C. Stone, World Archaeology 35(2): 241-257.

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"Tourism, Difference, and Power in the Borderlands," in The Culture of Tourism, the Tourism of Culture, ed. Hal Rothman, Albuquerque: University of New Mexico Press, 185-205.

Santley, Robert

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Straus, Lawrence:

"A Spanish time tunnel: El Mirón Cave," Co-author: M. González Morales, Athena Review (3): 67-74.

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"The initial Upper Paleolithic in northern Iberia: new evidence from Labeko Koba," Co-authors: A.Arrizabalaga, J.Alluna, et al., Current Anthropology 44: 413-421.

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"Beyond the Margin: American Indians, First Nations, and Archaeology in North America," American Antiquity 68(2): 273-285, Society for American Archaeology, Washington, D.C.

"Archaeological Ethics and American Indians," A Handbook for Ethics in Archaeology, Larry Zimmerman, Karen D. Vitelli, and Julie Zimmer, eds., AltaMira Press, Walnut Creek, pp.129-141.

"Teaching Anthropological Ethics," Ethical Currents, Anthropology News 45(2): 21.

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Wills, Wirt:

"Modifying pottery and kivas at Chaco: Pentimento, Restoration, or Renewal?" Co-author: Patricia Crown, in American Antiquity 68: 511-532.

2003 book reviews:

Dinwoodie, David

Represented Communities: Fiji and World Decolonization, by John D. Kelly and Martha Kaplan, in Comparative Studies in Society and History 45(4): 885-6.

Coquelle Thompson, Athabaskan Witness: A Cultural Biography, by Lionel Youst and William R. Seaburg, in Journal of Anthropological Research 59(4): 562-4.

The People of Denendeh: Ethnohistory of the Indians of Canada's Northwest Territories, by June Helm, in Journal of Anthropological Research 59(2): 286-7.

Landscape Traveled by Coyote and Crane: The World of the Shitsu'umsh (Coeur d'Alene Indians), by Rodney Frey in collaboration with the Shitsu'umsh, in Montana: The Magazine of Western History 53(1): 75.

Field, Les:

Lost Visions and New Certainties: Sandinista Profesionales in Northern Nicaragua, Inger Lundgren, in American Anthropologist 105(2): 441-442.

Raral Vodou, Power, and Performance in Haiti and its Diaspora, Elizabeth McAlister, in Journal of the Royal Anthropological Institute 9(2): 367-368.

The Dirt is Red Here: Art and Poetry from Native California, Margaret Dubin, ed., in Journal of Anthropological Research 59(3): 410-411.

Hill, Kim

The Xavante in Transition, in the American Journal of Human Biology 15: 725-726.

Indians, Markets, and Rainforests: Theory, Methods, and Analysis, in the Journal of Anthropological Research 59: 300-301. Pearson, Osbjorn Bone density studies in zooarchaeology, Co-authors: Y.M. Lam, C.W. Marean, and X. Chen, Journal of Archaeological Science 30: 1701-1708.

Lowly Origin: Where, When, and Why our Ancestors First Stood Up, by Jonathan Kingdon. Journal of Anthropological Research 59: 333-335.

- Neanderthal Burials: Excavation of the Dederiyeh Cave, Afrin, Syrla, edited by T. Akazawa and S. Muhesen. Journal of Anthropological Research 59: 335-336.
- Cycles of Contingency: Developmental Systems and Evolution, edited by S. Oyama, P. E. Griffiths, and R. D. Gray. Journal of Anthropological Research 59: 303-304.

Straus, Lawrence:

A Very Remote Period Indeed: Papers on the Palaeolithic Presented to Derek Roe, edited by S. Milliken & J.Cook, American Antiquity 68: 203-204.

Desolate Landscapes: Ice Age Settlement of Eastern Europe, by J. Hoffecker, in

Journal of Anthropological Research 59: 121-123.

The Human Fossil Record, Vol.1, by J.Schwartz & I.Tattersall, Journal of Anthropological Research 59: 132-134. Recent Studies in the Final Palaeolithic of the European Plain, edited by B.V. Eriksen & B. Bratlund, Journal of Anthropological Research 59: 351-353.

De Neandertales a Cromañones: El Inicio del Poblamiento Humano en las Tierras Valencianas, V.Villaverde, ed., Journal of Anthropological Research 59: 123-124.

The Acheulian Site of Gesher Benot Ya'aqov, Israel, Vol. I: The Wood Assemblages, by N.Goren-Inbar, E.Werker & C.Feibel, Journal of Anthropological Research 59: 345-346.

The Dawn of Human Culture, by R.G.Klein & B.Edgar, Journal of Anthropological Research 59: 338-340. World Rock Art, by J. Clottes, Journal of Anthropological Research 59: 342-345.

Actas de las Primeras Jornadas de Estudios Históricos y Lingüísticos: El Norte de Africa y el Sur de la Península, edited by M.Tilmatine, J.Ramos & V.Castañeda, Journal of Anthropological Research 59: 270-271.

The Journey of Man: A Genetic Odyssey, by S. Welis, Journal of Anthropological Research 59: 340-342. Solutré: 1968-1998, edited by J,Combier & A.Montet-White, Journal of Anthropological Research 59: 349-351. Paleolithic Quarrying Sites in Upper and Middle Egypt, edited by P.M. Vermeersch, Journal of Anthropological Research 59: 573-574.

L'Aurignacien de la Grotte du Renne, edited by B.Schmider. Journal of Anthropological Research 59: 347-349. Watkins, Joe.

America Before the European Invasions by Alice Kehoe, *Journal of Anthropological Research* 59(3): 371-373. Anthropologists and Indians in the New South by Rachel A Bonney and J. Anthony Paredes, eds., *Journal of* Anthropological Research 59 (2): 294-296.

In addition 2003 Audio/CD publications

Feld, Steven

Audio exhibil/installation: Bells of Gragnana (10' audio soundscape), Hearing Place, an Audiotheque curated by The Australian Sound Design Project, Victorian College of the Arts, Melbourne, March 2003.

CD republication: Seance gisalo song (originally published on Bosavi: Rainforest Music from Papua New Guinea, Smithsonian Folkways, 2001); FLIGHT, issue 11 of Cabinet magazine, companion CD.

Producer, Recordist, liner notes: of CD recording Iraqi Music in a Time of War: Rahim AlHaj Live in NYC, April, 2003, Voxlox 103.

Recordist, liner notes: of CD recording Primo Maggio Anarchico, Carrara 2002: A Soundscape Documentary of Anarchist May Day Celebrations, Carrara, Italy: F.A.I

CD review: Muo Remé: Dance of the Cassowary (The Anceaux Collection, 1954-1961), Songlines 16: 97.

Outside Professional Activities

During the 2003 reporting period, 16 of the 27 tenure-stream faculty members gave a total of 42 meeting papers/posters, national/international symposia papers, and invited lectures/keynote addresses.

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

Bawden, Garth: Member, Board of Directors, Programa Contisuyu, Moquegua, Peru.

Member, Board of Directors, Ahau Foundation for the Promotion of Mayan Studies. Albuquerque NM. Vice President for Latin American Research. G.L.Bruno Foundation. Fresno, California. Book Editor and Chair of Volume Publication Committee, Society for American Archaeology. Evaluator of the Natural History Programs of the College of the Atlantic, Bar Harbor Maine. Consultant for Russian Academy of Sciences at Museum of Anthropology and Ethnology of the University of St. Petersburg, Russian Federation.

Buikstra, Jane: American Anthropological Association: Resource Development External Review Committees: University of California, San Diego, Foundation for Illinois Archeology/Center for American Archeology, Board of Directors, Executive Committee,; President, Journal of Forensic Sciences: Editorial Board, Member, National Academy of Sciences: National Research Council Liaison. Paleopathology Association: President, Revista Chungara: Member of the Editorial Board (Comité Asesor Editorial de Chungara), Society for American Archaeology: Lifetime Achievement Award Committee, Wiener Laboratory of the American School of Classical Studies, Athens: Member of Weiner Laboratory Committee of Managing Committee, Wellcome Trust (UK): Member of the Bioarchaeological Panel, Froehlich: Primate Specialist Group (Asia and South America), Species Survival Commission, IUCNConservation Committee, Meerican Society of Primatologists

Lamphere, Louise: AAA Commission on Status of South American Indigenous Peoples, SFAA/AAA. Commission on Applied Practicing Anthropology, Culture Contact Committee, Russell Sage Foundation

Lancaster, Jane. Scientific Editor, Human Nature: An Interdisciplinary Biosocial Perspective. Member, Publications Committee, Human Behavior and Evolution Society.

Nagengast, Carole. Fellow, Society for Applied Anthropology; Board of Trustees, Lisa Gilad Initiative, Oxford University, United Kingdom; Chair, Board of Trustees, Claire N. Connelly Scholarship Foundation; Member, Committee on International Development Amnesty International, USA. Editorial Board: Journal of Anthropological Research, Identities.

Powell, Joseph, Board of Trustees, New Mexico Museum of Natural History (appointed by Governor Bill Richardson, S2003).

Strauss, Lawrence: editor, Journal of Anthropological Research, INQUA Working Group on the Archaeology of the Pleistocene-Holocene Transition (Chairman), INQUA Commission on Human Evolution & Paleoecology (President), INQUA Commission on Paleoecology & Human Evolution (Vice President for Human Evolution, UISPP (International Union of Prehistoric & Protohistoric Sciences), Commission on the Upper Paleolithic of Europe, UISPP, Commission on the History of Prehistory, INQUA Working Group on European Late Pleistocene Isotopic Stages 2 & 3: Humans, Their Ecology & Cultural Adaptations. U.S.National Committee for INQUA (appointed by National Academy of Sciences

Weigle, Marta Co-Editor, Folklore and Society Series, University of Illinois Press; Editorial Board member, *Journal of the Southwest*

Outside Sponsored Research

Buikstra, Jane, Ahua Foundation: Isotope Studies at Copan. Buikstra, Jane, Foundation for the Advancement of MesoAmerican Studies, Inc: Radiography at Copan. Froehlich, Jeffrey: A Beachhead of Longtail Monkeys (Macaca fascicularis) Sulawesi, Indonesia, and their Competitive Exclusion of the Endemic Short-tailed Monkeys (*M. bmnnescens*); Operation Wallacea (UK); June-July 2003, \$750 (in kind). Hurtado, Magdalena: National Science Foundation – Dissertation Fellowship awarded to Alicia Wilbur, graduate student, Department of Anthropology, University of New Mexico, Co-investigators: Anne Stone and Jane Buikstra (\$6,030) Hurtado: Magdalena, Wenner Gren Foundation – Graduate Student Fellowship awarded to Paul James, Ecological and Ethnic

Determinants of the Childhood Asthma (\$22,000) Hurtado Magdalena: National Institutes of Health – RO1, Health and Economic Productivity in Rural Paraguay, Developmental Phase 2003-2004 (\$65,000).

Hill: Kim Contract brokered between "Guayaki Sustainable Products" and the Ache community of "Kuetuvy" for sustainable yerba mate plantations. Worth approximately \$50,000 in 5 years.

Hill, Kim: NSF Dissertation Grant: Skill investment among the Maku-Nadeb, Brazil \$10,000 (Robert Walker)

Powell, Joseph Initial Egyptian research funded by a National Science Foundation Grant to Professor J.M. Rose, University of Arkansas.

Powell, Joseph Additional funding from NSF to UNM from a grant extension co-administrated by JF Powell (UNM) and JM Rose (Arkansas).

Straus, Lawrence: National Science Foundation, Research Experiences for Undergraduates Supplementary Grant (El Mirón Cave Project)

Straus, Lawrence: L.S.B. Leakey Foundation Grant (El Mirón Cave Project), 2003-04.

Strauss, Lawrence: National Science Foundation, Research Experiences for Undergraduates Supplementary Grant (El Mirón Cave Project), 2004.

Attachments

Public Lectures

University of New Mexico 18th Annual Research Lecture

Jane E. Buikstra, Anthropology Department, UNM, "Dialogues with the Dead: Mummies, Monuments and Mallquis." September 29, 2003

Journal of Anthropological Research Distinguished Lecture Series:

Donald Johansen, (Arizona State University) "Lucy, 30 years Later," October 9, 2003 Peter Whitely, American Museum of Natural History, "Why Anthropology Needs More History." April 22, 2004.

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

Mario Milliones, "Archaeology of the Andean Face: Diversity, Meaning and Analysis of Realistic Human Faces from Ancient Moche Portrait Vessels," November, 2003

Ruth E. Kennedy Memorial Lecture (Doctoral student):

Kenneth Nystrom, "Bones of the Ancestors: The Effects of Conquest on Biological and Social Processes," April 30, 2004

Conferences

Seventh Annual Graduate Student Spring Symposium, sponsored by the Anthropology Graduate Student Union, March 26-27, 2004. Thirty-four graduate students gave papers based on their research.

Patrick Staib, Shasta Gaughen, Shirley Heyring, Stacy Chambliss, Keri Schleher, Judith van der Elst, Veronica Arias, Heather Richards, Theresa Kunz, Carol Lambourne, Abe Ruttenberg, Amy Farnback, Shamsi Daneshvari, Elizabeth Stewart, Christina Getrich, Abilgail Adams, Caroline Todd, Jennifer Malcolm, Lucas Kellett, Sue Ruth, Heather Richards, John Rissetto, Dessa Lightfoot, Michael Church, Zachary Mitchell, Shannon Fluder, Sean Bruna, Emira Ibrahimpasic, Andrew Carey, Char Peery, Brianne Bolstetter, Nicole Kellett, Johanna Owens, Gwen Saul,

Bachelor of Arts Degrees Conferred

71 B.A. and B.S degrees were awarded in 2003-2004

Shannon R. Allison (BA), Nicolas A. Arnal (BA), Joseph R. Aquilar (BA), Sandra L. Almand (BA), Lance A. Arney (BA), Siobhan Asgharzadeh (BA), Gregory S. Baldridge (BA), Alissa M. Bandy (BA), Brian Battaglino (BA), Julia A. Bennett (BS), Mary E, Bishop (BA), Elena D, Bissell (BS), Freddle J, Bitsole (BA), Ryan J, Brucker (BA), Brian G, Buogle (BS), Gabrielle N. Chavez (BS), Rachel P. Clark (BA), Stacy M. Crim (BS), Amanda R. Crooks (BS), Matthew K. Dawson (BS), Tahirih E, DeLaCerda (BA with honors), Abigail E, Dickerson (BA), Giancarlo A, DiPalma (BA), Lisa G, Dirks (BA) Jorge Estrada (BA) Stephanie A. Ford (BS with honors) Renea L. Fredericksen (BA)Tamara P. Gaskill (BS), Randi R. Gladwell (BS with honors), Cassandra L. Goodin (BA), Soloman Grijalva (BA), Jennifer A. Halpain (BS), Jodi L. Hedderig (BA), Germaine M, Holland (BA with honors), Zachary S, Klukkert (BS), Megan Jones (BA), Benjamin J. Larkin (BA), Suzanne M. LeFebre-Biehl (BA), Amy Littlewood (BA), Claire Teresa Long (BA with honors), John C. Loring (BA), Adrian L, Lucero (BA), Kathryn B, Mann (BS), Maria V, Marion (BS), Christina T, Martin (BA), Sandra B, McCullough (BA), Chervi L, McGee (BA), Kendall M, McGowan (BA), Justin C, Medina (BA), Christopher J, Millington (BA), Monica M. Mondragon (BA with honors), Stephen Colby Phillips (BA with honors), Jason Radak (BA), Nicole A. Ramirez (BA), Rosanna J, Richardson (BS), Ruth C, Roney (BA), Lucia F, Sanchez (BA), Adria C, Scharmen (BA), Madalena C. Salazar (BA with honors), Clare E. Pollock (BA), Juliana R. Quist (BS), Rebecca L. Rackley (BA), Christina B. Sinkovec (BS), Michael A. Slusher (BS), Daniel J. Sommers (BS), Louise E. Stowe (BA), Kathleen E. Thomas (BA), Matthew P. Traucht (BA), Tyrone T. Trujilio (BS), Melissa L. Valdez (BS), Nedra M. Walker (BA), Samuel K. Waters (BA), Loryn V. Udell (BA), Amanda J. Veile (BS with honors), Teran F. Wilson (BA)

Master of Arts Degrees Conferred

9 M.A. degrees were awarded in 2003-2004

Diane Courney (MA), Michael Church (MA), Shirley Heying (MA), Dessa Lightfoot (MA), Ramona Quesada (MA), Marilyn Riggs (MA), Gwen Saul (MA), Elisabeth Stewart (MA), Mean Underwood (MA)

Master of Science Degrees Conferred

3 M.S. degrees were awarded in 2003-2004.

Shamsi Daneshvari (MS), Carolyn Matras (MS), Rebecca Melsheimer (MS)

Doctor of Philosophy Degrees Conferred

12 Ph.D. degrees were awarded in 2002-2003.

Karl Benedict **,

Dissertation: "Settlement and Subsistence in the Western Anasazi Core Area: Development and Assessment of a Risk Response Model"

(Bruce Huckell, Co-Chair; James Boone, Co-Chair)

Tom Estenson **,

Dissertation: "Functional Constraints on Morphology of the Pharynx"

(Osbjorn Pearson, Chair)

Clint Hicks,

Dissertation: "Texts and the Experience of Place at a Computer Software Company"

(Keith Basso, Chair)

* Sarah Horton,

Dissertation: "The Santa Fe Fiesta Since the 1970s: Ritual as a Lens onto Hispano Responses to Global Changes within Santa Fe"

(Sylvia Rodriguez, Chair)

Cymene Howe,

Dissertation: "Strategizing Sexualities, Relmagining Gender and Televisionary Tactics: The Cultural Politics of Social Struggle in Neoliberal Nicaragua"

(Louis Lamphere, Chair)

* Valerie King,

Dissertation: "The Organization of Production of Chuska Grayware Ceramics for Distribution and Consumption in Chaco Canyon, New Mexico"

(Patricia Crown, Chair)

Tanya Mueller **,

Dissertation: "The Effects of Socio-ecological Variables on the Timetable of Reproductive Maturation in Captive Female Baboons (Papio hamadryas anubis)"

(Jane Lancaster, Co-Chair; Hillard Kaplan, Co-Chair)

* Christine VanPool,

Dissertation: "Symbolism of Casas Grandes" (Robert Leonard, Chair)

(Robert Leonard, Un

Alan Vince

Dissertation: "Just Try to Learn as You're Talking to People: Physicians' Experiences of Cross-Cultural Care in a Medical Intensive Care Unit"

(David Dinwoodie, Chair)

Robert Walker **,

Dissertation: "Skill Investment and Subsistence Activities Among the Maku-Nadeb of Northwest Amazonas, Brazil" (Kim Hill, Chair)

* Indicates Graduation with Distinction

** Indicates requirements are met for Summer 2004 graduation

Letters of Academic Title

Affiliated Faculty

Richard C. Chapman, Part-time Associate Professor of Anthropology; Director, Office of Contract Archeology (Archaeology subfield and faculty voling 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)
- David E. Stuarl, Part-time Professor of Anthropology; Associate Provost for Academic Affairs (no voting rights; no presumption of tenure)

Adjunct Faculty

Adjunct Professor: Ines Arenas de Hurtado

Adjunct Associate Professors: Richard Chapman, Douglas K. Charles, Rosalind Hunter-Anderson, Paula K. Ivey, Grace E. Kissling, David A. Phillips, Jr., Lynn Sebastian.

Adjunct Assistant Professors: Steven Byers, Michelle Cristiani, Diane D. Crumley, Michael Gurven, William B. Hudspeth, Jonathan Kaplan, Debra Komar, Philippe LeTourneau, Garnet P. McMillan, Christopher Musello, Nancy L. Nelson, Marsha Oglivie, Janet Page-Reeves, Ariane Pinson, Melissa Powell, Willow R. Powers, Gordon F.M. Rakita, Lisa Gail Rapaport, Michael Robertson, Paula Tomczak, Christine Sweeny Van Pool, Annette Weaver, Cathleen E. Willging

Adjunct Research Associate: Lisa W. Huckell

MAXWELL MUSEUM OF ANTHROPOLOGY

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ANNUAL REPORT [July 1st 2003-June 30th 2004]

Garth Bawden Director

<u>A. GENERAL</u>

The year 2003-4 has been one of consolidation and planning following the programmatic and physical plant expansions of the previous few years. Since 2000 the Maxwell Museum has acquired the Office of Contract Archaeology, a research center of the College of Arts and Sciences previously loosely affiliated with the Anthropology Department, has created its own Category One Research Center - the Maxwell Center for Anthropological Research, has initiated the Alfonso Ortiz Center for Intercultural Studies in collaboration with the Department of Anthropology, and has taken possession of the new Hibben Center for Archaeological Research with its major storage, laboratory, teaching and public spaces. These recent developments have created unprecedented potential for development of the Maxwell Museum's mission of collections care and university education in its full range of academic and public dimensions. However, these same years have not surprisingly been more concerned with the successful establishment of the new initiatives than with planning their future development as complementary parts of a well-integrated institutional program centered in a major research museum. Realization of this strategic need determined the foci of the 2003-4 year as it became clear that, while continuing to consolidate the new programs, it was also imperative that they collectively realize their full potential in furtherance of the Maxwell's mission. Thus, commencing in late summer of 2003, the staff of the Maxwell Museum commenced a strategic planning process with the complementary goals of reassessing the expanded potentials created by the new expansions, of exploring how these could best ensure continued effective institutional development at a time when university museums generally are experiencing economic and programmatic strictures, of ensuring that the Maxwell most effectively fulfill the responsibilities central to a successful department of the College of Arts and Sciences, and of furthering the educational mission of the University of New Mexico.

B. PROGRAMS

Office of Contract Archaeology

In July 2004 the Office of Contract Archaeology ended the financial year free of deficit for the first time since becoming affiliated with the Maxwell Museum in 2000. The overall increase in accumulated IDC return from contracts of \$78,000 brings OCA to a financial breakeven level and eliminates the need for the supplementary support that the Office of Research has provided for the previous two years. The primary responsibility for this success must undoubtedly be credited to the reform of the OCA financial and management structure that has occurred over the years with the help of the UNM central accounting and research divisions and support of the College of Arts and Sciences. We can now hope that the new structure will sustain a level of business success that will support building a financial reserve. Equally important achievement of this primary financial goal allows future planning to broaden in focus to include programmatic development. Thus the senior personnel will again be able to offer instructional courses for anthropology students in Culture Resource Management (a course is planned for Spring 2005) and to explore the possibility of expanding the publication program into areas of more focused research as part of the Maxwell Museum's wider mission of educational dissemination. In addition, as additional hiring opportunities arise (two positions will have been vacated by the end of this calendar year), we can now consider the opportunity of bringing more academic expertise into what has of necessity been an overwhelmingly businessoriented division. Ongoing strategic planning will develop these possibilities over the next year.

Maxwell Center for Anthropological Research

2003-2004 was the third year of existence of the Maxwell Center for Anthropological Research (MCAR). In this year for the first time the MCAR roster of 11 affiliated scholars included two Research Associates from outside of the United States - Dr. Hélène Wallaert from the University of Liege, Belgium, and Dr. Juan Pedro LaPorte of the Universidad de San Carlos de Guatemala. Dr. Wallaert spent the year in residence at UNM, using MCAR as her research base to study the cultural contexts of female Pueblo potters. In addition to these foreign associates MCAR supported the work of other affiliates, mostly archaeologists, working on sites in New Mexico (Della-Russo, Rothschild, Adler, Lycette) and on the collections of the Maxwell Museum (Cordell). The continued growth of MCAR augurs well for its future as the principal research agency of the Maxwell Museum. Future planning will focus on the potential of the Maxwell Museum's publication program for distributing the work of its affiliates and the involvement of larger numbers of non-archaeology anthropology scholars.

Hibben Center for Archaeological Research

The 2003-2004 year was the first full year of operation of the new center with its extensive collections storage, research, and instructional capacity. The year brought major advances in transferring collections into the new facility with the major endeavor being the re-location of a significant portion of the archaeological holdings into new packing containers and storage shelving. The archaeology curatorial staff working with the museum's data manager is taking the opportunity to fully inventory and catalogue the collection, an exercise that will ultimately ensure a complete and accurate documentary record. In addition the photographic archive has been completely moved to new and expanded storage, studio, and work space in the Hibben Center, where its expanded capacity is already being challenged by a number of large acquisitions (chiefly the Pottery Mound Site and John Collier Collections). The laboratory, storage and work areas are being continuously used for collections organization and research, the teaching areas in regular use, and the auditorium and foyer provides an ideal setting for public programs. Thus the Center is significantly enhancing the Maxwell Museum's ability to serve its diverse mission.

Alfonso Ortiz Center for Intercultural Studies

The Ortiz Center completed its third year of existence with some major changes. These are aimed at putting in place an effective and permanent structure for the center once the focus on fund raising to meet the match of the National Endowment for the Humanities Challenge Grant can shift more solidly to programmatic development. Major changes in the governing structure included:

a. Clarifying the relationship between the principals involved in the Center. Thus the Director will general answer to the heads of the Anthropology Department and Maxwell

Museum, while working more closely with the financial officers of the departments and UNM central accounting in ensuring better financial management.

- b. Creating new oversight for the NEH Challenge Grant. With the leaving of Dr. Mari Lyn Salvador, new co-Principal Investigators were appointed. These are Dr. Garth Bawden, also Maxwell Museum Director, and Dr. Louise Lamphere of the Department of Anthropology, also new Chairman of the Ortiz Center Advisory Board.
- c. Reconstituting a new Advisory Board. The effectiveness of the initial Board had been severely diminished by resignations and members leaving the area. The new board includes representation from all local public constituencies as well as the broader academic community. The new Chairman is Dr. Lousy Lamphere (see above).
- d. Consolidating the new Program Committee. The program committee comprises a number of individuals the represent the campus communities and the local communities of New Mexico with their mission to advise the director on collaborative programs that further the Ortiz Center's purpose. This committee has been active in its role during the past year and promises to be a major player in the future.

In addition to the above governing changes, plan are ongoing to modify the North Gallery to create a projects of the Ortiz Center generated by collaborative public partnerships can be carried out. A major portion of the necessary funds have been allocated from donated foundation money and planning continues.

Other programs

Other museum programs and divisions continue to be active with little additional innovations at this stage. The Education division is planning expansion of its outreach teaching with greater emphasis on checkout kits that can be distributed more regularly to New Mexico locations distant from Albuquerque. However, at this stage the long-lasting classroom teaching programs continues to be the core education program. The second summer camp organized between the Education and Public Programs divisions was again successful. We are now seeking additional funds to expand what is a demonstrably successful program with the development of scholarships. The photographic and archaeological collections continue to expand with accession of the large Pottery Mound collection and their photographic and documentary records. In addition the large John Collier ethno-photography holdings are gradually being accessed. Finally, transfer of the Maxwell's collections data base to the new Access system is well under way and should be essentially completed during the coming year.

C. PLANNING

The Maxwell Museum staff, in partnership with the Maxwell Museum Foundation and the College of Arts and Sciences commenced a major year-long strategic planning initiative during the at the beginning of 2004.

Recent years have not been good to university museums. There have been closures (University of Nebraska being the most prominent), reductions in status from full service museum to collection respository (i.e. Andover Academy and the University of Kansas Anthropology Museum), and wholesale de-accession of collections (i.e. Stanford University and the Museum of Northern Arizona), while other museums are being seriously considered for restructure. Not surprisingly, the national professional organizations (American Association of Museums, American Anthropological Association, Society for American Archaeology) have all addressed these ongoing challenges at length, although without reaching consensus as to the answers. When one engages in the somewhat risky business of seeking monolithic reasons for what is admittedly a very complex issue, two general issues arise. One relates to national trends that reduce university budgets to a level insufficient to support their expanding responsibilities. The other derives from the perception that some museums are not effectively fulfilling their educational missions. Both of these issues entered into the decision to initiate a process of strategic planning.

The first problem ultimately originates in current national trends. Given the reduction in most state budgets due to economic downturns and federal fiscal policies, there is less real money available to legislators to fund their various responsibilities. This might not be a problem were it not accompanied by general depreciation in the regard held for higher education, a trend that commenced well before the current economic decline. The result is that most state universities no longer command the level of legislative funding priority that they once held and are suffering relatively greater budgetary reductions than some other sectors of state government. In more and more cases, administrators are seeking to reduce their institutional budgets by cutting back on what they see as their least necessary programs. I believe that this unfavorable economic situation will continue for the foreseeable future.

Turning to local conditions: New Mexico's state economy is insufficient to fully fund many of its most basic human services. In the educational sphere the highest priority is the public school system, which as is vividly illustrated by this week's news release detailing substandard and failing schools, continues to be in deep trouble. As in the country at large, state allocations for higher education have experienced very limited growth over the past few years, much of this in the non-permanent funding sector that may well contract in the future. Within the University of New Mexico, thus directly affecting the Maxwell Museum, while salaries modestly increased for the 2003-4 fiscal year, state allocations for program support dwindled dramatically. The university received a reduced program support allocation this year, over half of which was designated to offset increases in health benefits and infra-structural improvement. The remaining money is insufficient to cover increased teaching costs. This pressure on the college's central teaching mission means that there is no money available for other programs.

In the Maxwell Museum, the need for relatively high-paid, specialized student support for collections and exhibits, have significantly increased. Moreover, the recent addition of the Hibben Center to our jurisdiction has brought additional needs for student coverage. With no commensurate increment in support to meet these needs, this year we will suffer a small shortfall between the cost of our basic student commitment and our budgeted funds. In addition, over time we have assumed financial responsibility for small portions of the salaries of some regular employees in order to hire at the level of expertise mandated by our mission. While some of this salary will revert to regular college accounts, given the current financial situation there can be no confidence that this will happen any time soon.

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The second general trend that I identified as contributing to the general problems faced by university museums today concerns their level of success in implementing their educational missions. Over recent months I have been in direct contact with university administrators whose museums are being restructured, and have recently participated in the review of another museum whose future is bleak. From these conversations I hear a common sentiment that the museums under review are not providing a service to the mission of the parent university commensurate with their financial cost. While I fully realize that in some cases this claim may hide more complex agendas, the very fact that it is persuading some governing boards to cut historically important centers of collections research and public outreach cannot be safely ignored. Happily museum administrators are in a better position to address this problem than the broader national trends that have produced financial pressures. Their responsibility is to ensure that their programs solidly further, and, just as importantly, are seen to further, the educational and public missions of the parent institution. University museums possess distinct roles that complement but do not duplicate the programs of other units. Uniquely, they are caretakers of collections that generate vital aspects of scholarly research and public education. In the negative light of today's economic pressures it is absolutely vital that this articulation of museum programs with the intellectual focus of the university be asserted through cost-effective programs that bring clear educational benefit to the varied scholarly and public constituencies served by a state institution of higher education.

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

This current favorable status places us in an excellent situation to plan a future at consolidates these numerous recent achievements into a focused program of museum anthropology. The ongoing strategic planning process is intended to define the future direction and the means by which this will be implemented. In light of the fact that the Maxwell is operating from a position of strength, not because of impending crisis, this process can proceed somewhat informally without any need to disrupt regular activities. When complete this endeavor will ensure that we continue to develop within the context of a well-defined mission that is understood and approved by all and which clearly articulates the value of each project that we undertake.

D. INSTRUCTION AND SPONSORED RESEARCH

Instruction

- 1. Anthropology 328. Near Eastern Archaeology (Bawden)
- 2. Anthropology 574. Theory of Archaeology (Bawden)
- 3. Anthropology 520. Managing Cultural Resources (Chapman/Hogan)
- 4. Anthropology 570. Lithic Analysis (Huckell)
- 5. Anthropology 482L. Geoarchaeology (Huckell)
- 6. Anthropology 582L. Geoarchaeology (Huckell)

Sponsored Research and Education

Archaeology (General and Maxwell Center For Anthropological Research)

1. Pollen analysis for samples from Wawakiki. Maxwell Museum Hibben Research Endowment: \$1,000 (Zaro)

 Analysis of archaeological data and the formation of First People identities as they are articulated in terms of museum repatriation. Maxwell Museum Hibben Research Endowment: \$600 (Bolstetter)

Archaeology (Office of Contract Archaeology)

New contracts awarded: 36

Total value of new contract awards: \$909,726.00

IDC value of new contract awards: \$278,877.00

Actual IDC accrual in FY 2004: \$423,792.00

Outlook: During FY 2004, OCA did business with a total of 22 clients (compared with 14 clients in FY 2003). OCA continued to hold open-end services contracts with the New Mexico Bureau of Land Management; U.S. Army Corps of Engineers, Albuquerque District; the New Mexico Department of Transportation; and the New Mexico Army National Guard, all of whom have contributed significantly to OCA's contract base through the last several years. In keeping with our goal of seeking energy development clients to take advantage of the present political climate promoting the energy extraction and distribution industry, OCA completed survey fieldwork and reporting for the Shell Pipeline Co. Western Products Pipeline, and established a new relationship with Enterprise Products Operating LP, who are undertaking the planning stages of new pipeline loop construction along the Mid-America Pipeline corridor running from

southeast to northwest New Mexico. We completed fieldwork on survey of 117 miles of that corridor in FY 2004. The prime contractor for the environmental work is ForeRunner Corporation. As noted above, ForeRunner Corporation has encumbered an additional \$883 K in funds not yet awarded for continued cultural resources investigations for this project through 2006.

Student Support

OCA employed 22 students with financial support totaling \$108,818.00 during FY 2004. This reflects a 46% percent increase in the numbers of students supported last year, and a 169% increase in the value of support over the \$40,474.00 provided during FY 2003. OCA financial support of students, most of whom are Anthropology majors or graduate students, is now over \$228,000.00 for the last four years combined. In addition to the financial support, student employment at OCA involves a strong component of professional training by OCA senior staff in cultural resources management, archeological research, fieldwork, analysis, and reporting.

Education

OCA provided logistical support for University of Chicago Archaeology Field School, Paa-ko site.

OCA provided logistical support for UNM Maxwell Center for Anthropological Studies archeological fieldwork at the Boca Negra site.

OCA provided laboratory space, access to collections, and data from previous OCA contract projects for Anthropology student research.

Publications, Papers, and Presentations Connected with Sponsored Research

OCA senior staff authored 12 OCA/UNM professional publications; engaged in several educational or public outreach activities such as public lectures and K-12 activities, and presented papers at professional conferences. In addition to dissemination of reports mandated by contract terms, OCA distributed 427 copies of reports through sales and complimentary copies during FY 2003, realizing \$459 in sales.

Ethnology

1. Conservation Survey Complete for Ethnological Collection. Getty Grant Program. \$10,000

Other Sponsored Programs

1. Education Division APS K-12 Classroom Teaching Program. MMA: \$1,000

2. Public Programs Division continuing Monthly Ethnic Arts and Crafts Demonstration series.

City of Albuquerque's Urban Enhancement Trust Fund: \$8,000

Educational Programs

Exhibits

1. San Ysidro. September 2003

2. The Castles of Chaco Canyon. April 2004

3. The Great Houses of Chaco. April 2004

Public Education

1. Over 400 classes in the Albuquerque Public School System.

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- 2. Archaeology Fair in collaboration with the Park Service
- 3. Children's summer Day Camp in Maxwell Galleries
- 4. Celebre la Ciencia at the State Fair Grounds
- 5. Teacher's Open House at the Natural History Museum
- 6. UNM Day at the Roundhouse Booth

Public Programs

- 1. Images in Archaeology (3).
- 2. Ethnic Lunches (11).
- 3. People of the Southwest Lecture Series (3).
- 4. Monthly Ethnic Arts and Crafts Demonstration Series (12).
- 5. Indian Bread Baking Demonstration (18).
- 6. Gallery talks/Readings/Booksignings (3).
- 7. Fundraising Events (2)
- 8. Celebrate the Maxwell (Volunteer Recognition)
- 9. The Frieda Butler Lecture

Human Osteology

- 3. Body Donation
 - a. 7 Body donors were received and processed this year.
 - b. Prepared proposal for new maceration/research facility.
 - c. New Body Donation brochure implemented.

4. Collections

a. 240 individuals in contemporary documented collection.

- b. individuals in OMI documented collection
- c. individuals in OMI doe collection
- d. individuals in documented doe collection

Photo Archives

Appointments

1. Received funding from A&S for new 64-bit computer and 4000dpi slide scanner.

2. Received over half (7500+) of the Hibben slide collection from Marilyn Hibben, including the remainder of the Pottery Mound slides and photographs. Digitization and re-housing of the Pottery Mound slides is in process.

3. Document archives from the Collier family were re-housed in archival storage materials

1 ippointinen to		
Ruby Bustos	Administrative Asst. III	6/23/04
Heather Edgar	Curator of Human Osteology	7/1/03
Steven Sciscenti	Preparator	2/24/04
David Phillips	Curator III	8/18/03
Separations		
Dionne Rodriguez	Administrative Asst. I	10/3/03
Michael Monetti	Preparator	10/27/03
Rachel Cantu	Administrative Asst. I	2/11/04

E. PERSONNEL APPOINTMENTS AND SEPARATIONS

F. PERSONNEL PROFESSIONAL ACTIVITIES AND PUBLICATIONS

Individual

C. Baudoin (Photo Archives)

1. Attended ASM symposium in Tucson examining issues of creation, interpretation and use of photography of Native Americans.

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

G. Bawden (Director and Professor)

1. Book: Readings in American Archaeological Theory, Society for American Archaeology

2. Editor for Society of American Archaeology Book Series.

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

C. Brannan (Public Programs Coordinator)

- 1. Member of the Museum Cooperative Council
- 2. Member of the Hispanic Chamber of Commerce
- 3. Member of the Albuquerque Convention and Visitors Bureau

R. Chapman (Associate Director, Maxwell Museum for OCA)

- 1. Chair of the UNM Board of Archaeologist.
- 2. Member of UNM Historic Preservation Committee.
- 3. Member of Dean's Committee on Research and Education Use of UNM Lands.
- 4. Southwest Valley Flood Damage Feasibility Study Cultural Resources Inventory. OCA
- 5. The Mystery of the Great Kiva at the Cuchillo Site. OCA
- 6. Assessment of Cultural Resources of Potentially Affected by a Tri-State Powerline across T.O. Ranch Property, Colfax County. OCA

7. A Tale of Toads and Basketmaker Kivas: Excerpts from the 1967 Journals of the Toadlena Highway Salvage Project. OCA

- 8. Attended NM Historic Preservation Archaeology Fair
- 9. Attended National Trust Historic Preservation Meeting
- 10. Attended Historic Preservation and Communication Towers Conference

W. Doleman (Senior Archaeologist, Office of Contract Archaeology)

- 1. Served on State Land Office's Archaeological Advisory Committee.
- 2. Publications Chair, New Mexico Archaeological Council

H. Edgar (Curator of Human Osteology)

1. Secretary/Treasurer for the Dental Anthropology Association

2. Attended meetings for the American Journal of Physical Anthropology

3. Elongated premolar: A new morphological variant. Dental Anthropology Journal.

4. Asymmetry of three deciduous teeth and their replacements in the Gullah. American Journal of Physical Anthropology.

5. Indicators of musculoskeletal development in an historic Ohio cemetery sample. Paleopathy Association papers.

6. Burial Descriptions and Osteological Summary. Weller and Associates.

P. Eschman (System Administrator)

- 1. Member of the UNM Novell Users Group
- 2. TAAS-L List Owner (UNM list serve for AAS)
- J. Elyea (Senior Archaeologist, Office of Contract Archaeology)
- 1. Cerritos Canyon. BLM
- 2. Upper Potter Canyon Fuels Treatment Area. BLM
- 3. The Mockingbird Gap. BLM

P. Esquibel-Childers (Museum Administrator)

1. Member of Museum Cooperative Council.

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

- 1. I.D. Day at the Maxwell Museum.
- 2. Guardian of the Trail, Archaeological and Historical Investigations at Fort Craig. BLM
- 3. Across the Caja Del Rio Plateau II: Hunters and Farmers in the Northern Rio Grande. OCA
- 4. The Candy Kitchen, Unit 3, Fuelwood Cultural Resources Survey. OCA
- 5. LA 131777 Damage Assessment, NMARNG Camel Tracks Training Site. OCA

P. Hogan (Associate Director, Office of Contract Archaeology)

- 1. Member of the Maxwell Museum Collections and Research Committee
- 2. Corrales Capital Improvement Advisory Committee
- 3. An Archaeological Sample Survey of Argonne Mesa, Guadalupe County, NM. OCA

K. Klein (Curator of Ethnology)

1. Fellowship awarded to the Curator of Ethnology/Interim Director, Ortiz Center by JUCEE.

- 2. Formed a new Advisory Board for the Ortiz Center and elected a new chair.
- 3. Coordination of Ortiz Programming Committee meetings.
- 4. Collections consultation with Taos Pueblo Elders to view collections for possible repatriation
- 7. Attended International VSA arts Festival and Education Conference
- 9. Hosted Japanese visitors and gave a lecture for Saori-weaving workshop. (June 2004.)

D. Lasusky(Admin. Assistant, Office of Contract Archaeology) 1. Completed 2nd Semester UNM Management Academy

D. Phillips (Curator of Archaeology)

1. Chair of the Membership Development Committee of the Society for American Archaeology

R. Stauber (GIS/CAD Specialist, Office of Contract Archaeology)

- 1. Attended workshop on graphics presentation techniques
- 2. Attended Pecos Conference

JOURNAL OF ANTHROPOLOGICAL RESEARCH ANNUAL REPORT 2003-2004

In calendar year 2003, JAR received and reviewed 47 manuscripts. Each manuscript, besides being read by the editor, is normally reviewed by three to five specialists. Thirty-three new manuscripts were received from January 1-June, 2004.

JAR has 1123 subscribers - 955 Institutions and 168 individual subscribers. JAR has finally, more-or-less, recovered from the bankruptcy of one of its main subscription agencies (Faxon-RoweCom) during the period 2003-2004.

Subscribers are in all states, Washington D.C., Puerto Rico, and Guam plus over 40 foreign countries.

Volume 59 consisted of 596 printed pages, 14 articles and 125 book reviews plus editorials.

Volume 60, nos. 1 and 2 have been published for 2004 and no. 3 is in proof.

JAR Distinguished Lecturers for 2003 were Don D. Fowler (University of Nevado-Reno) and Donald Johanson (Arizona State University). The Johanson lecture was a special fundraiser for the Department of Anthropology 75th Anniversary Graduate Student Support Fund; the event netted \$2,712.00 for the Department and JAR paid all expenses. Distinguished Lecturers for 2004 are Peter Whiteley of the American Museum of Natural History, New York, who gave the spring 2004 lecture, and Michael Silverstein (University of Chicago) scheduled for fall 2004.

Editorial Board:

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

Associate Editors:

2003 - John Comaroff (University of Chicago), Raymond DeMallie (Indiana University), Michael Herzfeld (Harvard 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), and Stephen A. Tyler (Rice University).

Dr. Swartz ended his period of service and E. Paul Durrenberger (Pennsylvania State University) and Donald K. Grayson (University of Washington) became Associate Editors.

Book Review Editors:

Archaeology and Paleoanthropology: Physical and Biological Anthropology: Book Review Committee for Ethnology & Linguistics: Lawrence G. Straus Joseph Powell

Suzanne Oakdale, David Dinwoodie and Les Field

Copy Editor:

Patricia L. Nietfeld

Employees:

Business Manager:	Ann Braswell
Student Assistant to the Editor:	Lisa Pacheco
Student Book Review Coordinator:	Andrea Evans

Web Page - upgraded in 2003 and 2004 by Ms. Lisa Pacheco.

Database - A JAR database was constructed in Microsoft Access by Ann Braswell. This has enabled JAR mailing lists to be sent to the distributor electronically, creation of a 10-year invoice record, and manipulation of statistical information/graphics that can be uploaded to the web page.

The University of New Mexico Press represented JAR at the meetings of the Society of American Archaeology and the American Anthropological Association. Dr. Straus represented JAR during his travels in Europe and at the Society for American Archaeology and Paleoanthropology Society meetings in Montreal and at the Congress of the International Union for Quaternary Research in Reno, Nevada.

In compliance with State of New Mexico procurement policies, the contract for printing, binding and distribution was re-bid in January 2004. Thomson-Shore successfully retained the contract. AC&E was changed from an open bid to a sole-source provider at about the same time.

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

(AC&E)	Albuquerque, New Mexico
	on-Shore, Dexter, Michigan ckaging, Ann Arbor Michigan

Subscription rates remain unchanged for 2005.

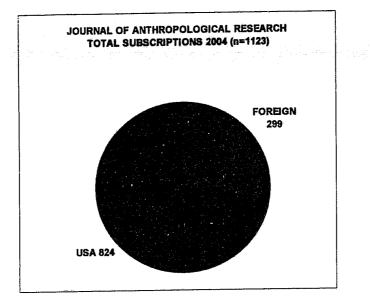
JAR On-line - Discussions continue regarding an electronic version of JAR with the American Anthropological Association and most recently with the University of Michigan. Much information has been gathered over the summer and contractual language has been sent to UNM General Counsel for review (Mr. Richard Mertz)

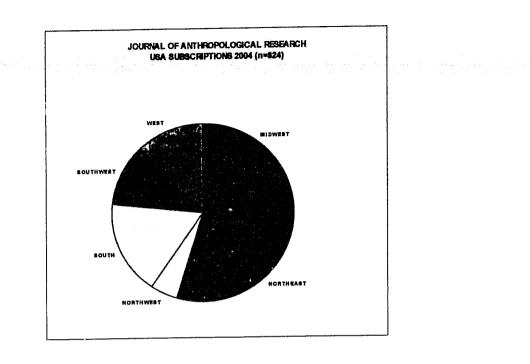
Lawrence G. Straus Editor-in-Chief

Attachments:

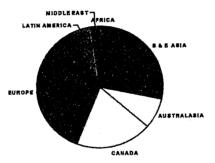
JAR USA Subscriptions - 2004 JAR Foreign Subscriptions - 2004 JAR Total Subscriptions - 2004 JAR Article Survey 1945-2004

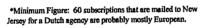




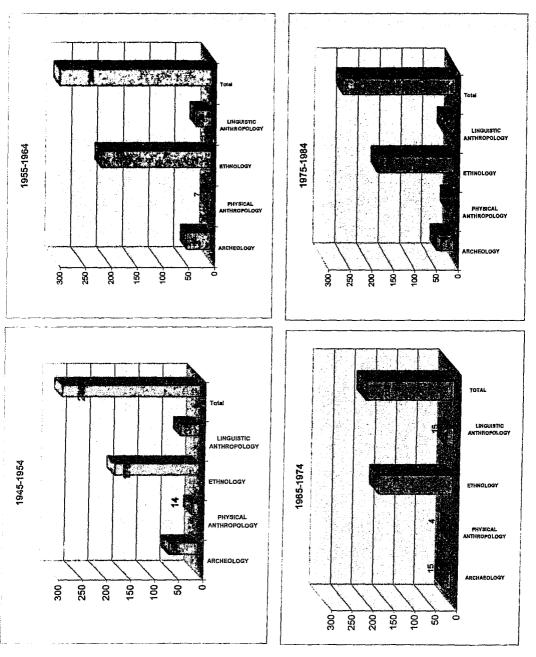


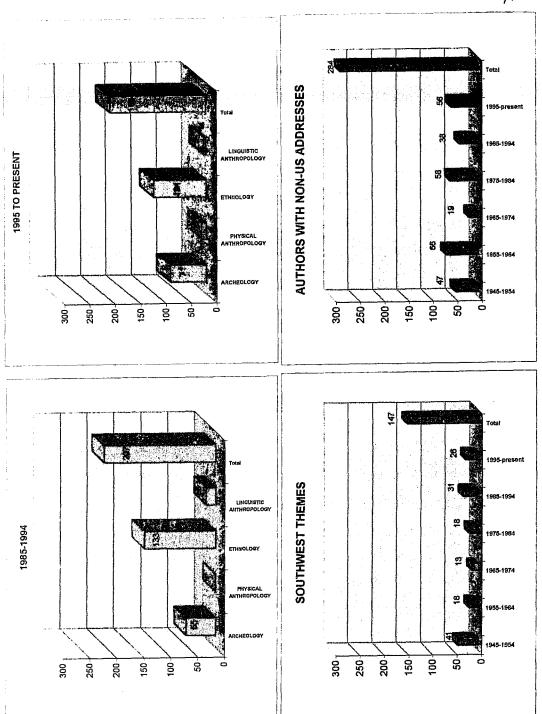












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ANNUAL REPORT of the DEPARTMENT of BIOLOGY



FY 2003–04 Annual Report by:

Eric S. Loker, Chair Department of Biology The University of New Mexico

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THE UNIVERSITY OF NEW MEXICO DEPARTMENT OF BIOLOGY

FY 2003–2004 EXECUTIVE SUMMARY

This is the first annual report prepared by Dr. Eric (Sam) Loker, who became the department chair in mid-July, 2003, following Dr. Kathryn Vogel's four-year term as chair. Two Associate Chairs were appointed to assist Dr. Loker in administering the Biology Department: Dr. Mary Anne Nelson, whose major responsibility is the scheduling and staffing of our classes and oversight of the advising operations, and Dr. Robert D. Miller, who has been involved in oversight of building-related matters, coordination of departmental committees and our graduate program.

Below are several summary sections highlighting the activities of the Biology Department over the 2003–2004 academic year.

STUDENTS

Undergraduate Program

Non-Majors Service Courses: As the tables (below) attest, undergraduate demand for our programs remains very high, almost unbearably so. The demand is felt most acutely in those courses that service non-majors, in particular Biology 110 and especially Biology 123 and 124L. The latter two courses, at least for the time being, are required of Nursing, Pharmacy and other allied health science programs, which also continue to grow to keep pace with societal needs. Indeed, demand for Biol. 110 and 123 has more than doubled (from an already sizeable number) in one year! At the beginning of the Fall 2003 semester, we added additional sections to accommodate this need. We also hired Ms. Christina Fridrick as a Lecturer II specifically to teach Biology 123. Another course that is under heavy demand and which taxes to the limit our teaching laboratory facilities is Biol. 239, Microbiology for Non-majors. Another Lecturer II, Ms. Lee Couch, is now in charge of teaching this course and coordinating the lectures. We are concerned that eventually the demand placed on this course will require another teaching lab, and will become a serious stricture in the progression of Nursing and Pharmacy students through their degree programs. Provision of resources from those programs to help support the continual demand for such courses would help alleviate the concerns, but such support has not been forthcoming.

Implementation of New Majors Core Curriculum: Another significant development in our undergraduate program has been the phased implementation of our new core curriculum for majors. A detailed plan for phasing in the new core, and phasing out the old core, has been prepared by Dr. Diane Marshall (see our web page, biology.unm.edu). Biology 201, the first of the four core courses, was taught for the first time in the Spring 2004 semester, generally with favorable comments as to its effectiveness provided by Drs. Scott Altenbach and Bruce Hofkin. From this point on, Biol. 201 will be taught every semester. The coming academic year will see Biol. 202 phased in during the Fall semester, and Biol. 203 will come online in Spring 2005. The last course of the new core, Biol. 204, will commence in Fall 2005. During the same interval, our old majors' core courses will be phased out. We also have been busy in organizing laboratories that will accompany Biol. 203 and 204. Although we have been unsuccessful as of yet in securing grant funds to support these labs, additional grants will be submitted and the department has set aside some of its own funds to support the purchase of new equipment for the majors' laboratories.

	Fall 2000	Fall 2001	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004
Undergraduate:							
A&S	788	786	824	809	812	816	796
University College	287	242	195	214	211	254	223
Second Major	46	81	18	20	n.a.	n.a.	n.a.
Graduate:	107	110	108	118	118	98	95
Total:	1,228	1,219	1,145	1,161	1,141	1,168	1,114

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

Table 2: Total Student Credit Hours (SCH)

YEAR	SCH	YEAR	SCH
1989–90	17,527	199900	21,882
199192	20,944	2000-01	21,358
1993-94	22,135	2001–02	21,459
1995–96	23,360	200203	21,832
199798	21,627	2003-04	22,883

Table 3: Student Credit Hours by Semester

Semester	2000-01	2001-02	2002-03	2003-04
Summer	625	715	649	1,109
Fail	10,689	10,748	10,707	11,200
Spring	9,954	9,996	10,476	10,574
Total	21,268	21,459	21,832	22,883

Table 4A:	Number of Students Registered in Undergraduate Core Courses for Biology
	Majors

COURSES	1998-99	1999-00	2001-01	2001-02	2002-03	2003-04
121 & 122	1,520	1,646	1,382	1,105	1,236	1,627
219 & 221	799	866	860	854	704	667
201		_	_			210

Table 4B: Number of Students Registered in Core Courses for 2003-04

COURSE	FALL 2003	SPRING 2004	TOTAL
121	847	no longer taught	847
122	292	488	780
219	233	169	402
221	130	135	265
201	not yet taught	210	210

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

COURSES	1999-00	2000-01	2001-02	2002-03	2003-04
110 & 123	324	391	621	641	1,397

Key Staffing and Facilities Changes for Undergraduate Education: One significant development to aid both the coordination of our microbiology courses and the eventual deployment of new majors' core courses is the hiring of a full-time lab coordinator and media preparer; Mr. Ivan Wang. Mr. Wang replaces a long-time, half-time employee, Mr. Ray Boucher, who sought employment elsewhere. Another important development has been the construction of a new microbiology teaching facility, which has now been completed and is ready for use during the Fall 2004 semester.

Undergraduate Research: The Biology Department has been a leader at UNM in creating a climate in which our undergraduates are encouraged to get first-hand experience in undertaking biological research under the direction of a faculty mentor. A survey of our 2004 graduates indicated that more than half of our students obtained such invaluable experience during their tenure in our department. One of the highlights of our annual schedule is Research Day, an event designed to showcase the research accomplishments of our undergraduate and graduate students. Research Day was held on April 9, 2004, with 38 of our students giving either an oral or poster presentation. The guest lecture, entitled "The Startling Scope of Infectious Disease, or Why Kissing and Cats Are More Scary than SARS," was presented to a packed house by Dr. Paul Ewald, University of Louisville.

Degrees: Another annual highlight is our graduation ceremony, held in 2004 on May 15. Our commencement address was given by State Senator Cisco McSorley. A total of 26 students received Bachelor of Arts diplomas, and 186 students received Bachelor of Science diplomas.

	1994-95	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
B.S.	156	220	230	201	209	207	186
B.A.	17	19	24	23	27	29	26
M.S.	10	9	9	6	7	9	6
Ph.D.	17	17	8	6	13	16	14

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

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

Graduate Program

Our graduate program continues to be strong and our graduate students perform at a remarkably high level. There were 105 graduate students enrolled in our program as of the start of the Fall 2003 semester. During the last year (Summer '03, Fall '03 and Spring '04), we awarded 11 M.S. and 10 Ph.D. degrees (see Appendix C).

In 2003–04, we received 82 new applications for admission into our program (as compared to 69 the preceding year). Of the 69 applications received, admission was offered to 33, and of these, 20 accepted. Our acceptance rate of 61% (20 of 33) was up from the previous year (56%).

Of the 20 new students to begin their studies in Fall 2004, three (one M.S., two Ph.D.s) transferred to UNM with a new faculty member, Dr. Joseph Cook from Idaho State University, and of the remainder, there were five new M.S. and 12 new Ph.D. students. The number of graduate students entering our program was 21 in Fall 2001, 24 in Fall 2003, and 18 in Fall 2003; thus, there is no sign of a decline in our graduate recruitment. A study of our recent applicant pools by our Graduate Policy Committee concluded that there is no indication of the diminishing quality of the students we admit. We continue to attract blue-chip students and successfully compete with prestigious universities in recruiting such students.

We have to be continually mindful of the stipends we award students \$12,970 for master's students, \$14,062 for doctoral students), which, for the time being, especially when considered with respect to the cost of living in Albuquerque, and the health and other benefits UNM provides, are considered by our students to be competitive.

Two significant issues with respect to the Office of Graduate Studies (OGS) arose during 2003–2004. One concerned the failure of OGS to provide the department its applications in a timely fashion relative to our graduate selection deliberations early in the spring semester. We are hopeful that such problems have been resolved now and will not recur in the coming year. Also, OGS challenged the department's use

of the "hybrid dissertation," which sparked a series of meetings with OGS and the Graduate Committee of the Faculty Senate, a process that culminated in the approval by the Faculty Senate of our proposed policy on the format of Biology dissertations and theses (see Appendix G).

FACULTY

Composition: At the start of the Fall 2003 semester, we had 31 tenure-track faculty members on campus, with an additional five (J.H. Brown, A. Kodric–Brown, T.K. Lowrey, S.A. Stricker and K.G. Vogel) on sabbatical leave, At the start of the Spring semester, Dr. Joseph Cook, a mammalian systematist, joined the tenure-track faculty as an associate professor in Biology. He arrived at UNM from Idaho State to become the Curator of Mammals in the Museum of Southwestern Biology (MSB). During the Spring semester, we had 33 tenure-track faculty on campus, with three on sabbatical (J.D. Ligon, S.A. Stricker and K.G. Vogel) and one (H.L. Snell) on loan to the Charles Darwin Field Station in the Galápagos Islands. We had no retirements or resignations during the year. One Biology faculty member, Dr. James R. Gosz, is 0.5 FTE because he also serves as the director of the state EPSCOR program. Dr. Terry Yates, a Biology faculty member, currently serves full-time as the Vice Provost for Research at UNM. Another faculty member, Dr. Donald W. Duszynski, who has retired, continues to serve in a 0.25 FTE capacity. By the end of the Spring semester, our tenure-track FTE totaled 37, counting the latter three individuals. Additionally, we had six Lecturers in place for both the Fall and Spring semesters.

During the Fall semester, tenure and promotion packages were compiled for Dr. Richard M. Cripps and Dr. Thomas F. Turner. Both were subsequently promoted to associate professor and awarded tenure in the Spring semester. Additionally, a mid-probationary review was undertaken for Dr. Luis F. Cadavid, who successfully passed this review.

Using resources provided by the newly funded NIH COBRE-CETI program, a search for a faculty member with expertise in Evolutionary and Comparative Genomics was initiated in the fall, and concluded successfully with the hire of Dr. Ulfar Bergthorsson from Indiana University in the spring. Dr. Bergthorsson will begin his new faculty post as an assistant professor in January, 2005. Dr. Berthorsson is slated to become a mentee in the CETI program.

As noted above, Ms. Christina Fridrick was hired as a Lecturer II at the beginning of the Fall semester. Another lecturer, Dr. Kelley Howe, was hired during the summer of 2004 to begin teaching genetics and other courses in the Fall semester.

Dr. Robert Waide, the head of the LTER Network Office, had previously held the title of Research Professor. After a faculty discussion and vote, he was recommended to the higher administration for the title of Professor with tenure, a change that subsequently has been approved by the higher administration.

Dr. Eric S. Loker serves as a Regents' Professor from 2003–2006. Dr. Robert D. Miller serves as a Regents' Lecturer from 2001–2004, and Dr. Timothy K. Lowrey serves in this capacity from 2003–2006.

Research Semesters were approved in the Fall semester for Drs. Blair O. Wolf and William T. Pockman.

A faculty retreat was held March 5-6, 2004; a summary of the retreat deliberations can be found in Appendix F.

Faculty Accomplishments: The tenure-track faculty published 86 articles in scientific journals in 2003. In addition, 14 book chapters and reports were published, as well as three books (*Biochemistry and Physiology of Anaerobic Bacteria*, edited by Larry L. Barton and others; *Macroecologia*, J.H. Brown; and *Ecology: Concepts and Applications*, 3rd edition, Manual C. Molles, Jr.). Thirty-two of our tenure-track faculty members (86%) reported publications in 2003. Between the years 2000–2004, of 66 articles originating from the State of New Mexico that have been published in the two preeminent scientific journals of our time, *Science* and *Nature*, 24, or 36%, of them originated from the Biology Department, far more than any other unit in the state, including LANL and the UNM School of Medicine.

Dr. Donald O. Natvig was appointed to become the editor of Mycologia, to commence in Fall 2004.

Dr. James H. Brown was elected president of the International Biogeography Society.

Dr. Clifford N. Dahm is president-elect of the North American Benthological Society.

Dr. James R. Gosz is elected chairman of the International LTER Network Committee and the U.S. LTER Coordinating Committee.

Dr. Timothy K. Lowrey was elected president of the International Organization of Plant Biosystematists.

Dr. Richard M. Cripps was honored with the Gunter Starkey Award for Teaching Excellence from the College of Arts and Sciences in December, 2003.

Dr. Margaret Werner–Washburne was one of nine scholars honored to receive the 2003 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring, at a ceremony in Washington, D.C.

Sponsored Research: In 2003–04, 98 new research grants were obtained by the Biology Department, with a total value of \$13,832,586. Thus, 2003–2004 was an exceptionally good year for grants for us, as a typical year usually results in about \$7–8 million in new grant funds. The total grant portfolio held by the Biology Department exceeds \$55 million. Some of this year's awards were very large, such as the new NIH-funded Center of Biomedical Research Excellence (COBRE) award of \$10.1M over five years to fund a Center for Evolutionary and Theoretical Immunology (CETI) to be housed in the Biology Department.

In addition, among the many large grants in force from previous years are the LTER Network Office Program, the Biocomplexity Program, the Sevilleta LTER Program, and the Freshwater Biology and Optics IGERT programs.

MUSEUM OF SOUTHWESTERN BIOLOGY

The Museum of Southwestern Biology (MSB) has had another exceptional year. One of the most notable accomplishments during this year was the near completion (95%) of Phase II of the Old Bookstore Renovation (CERIA), which began in October 2003. The MSB also received an extraordinary gift of \$136,436 from the Helen Ivins Trust, which was used to create an MSB endowment and help fund some of the expenses associated with the final move into CERIA. The Institute for Natural Resources and Management, or INRAM, continued during fiscal year 2003–2004. Data basing of collections, which is funded by INRAM, proceeded rapidly. The MSB continued to coordinate data basing with biology

museums at Eastern New Mexico University, Western New Mexico University and New Mexico State University. Dr. Joseph Cook assumed his duties as Curator of Mammals in January 2004, but began overseeing the Division of Mammals from Idaho State University earlier in the summer of 2003. Andrew Johnson was hired as Collection Manager of the Division and joined the MSB staff in December 2003. The filling of this position completed the staffing of all divisions of the MSB with full-time Collection Managers. The MSB continued to make major accomplishments in all areas within its mission of teaching, research and service during the fiscal year 2003–2004 (details to come in the MSB 2003–2004 annual report).

STAFF MATTERS

Currently, the Biology Department staff is comprised of 98 members, of which 22 are paid in part or fully by I&G funds (see list below and Appendix F). The staff on a regular basis performs minor miracles to keep the department functioning as efficiently as possible. One of the major pre-occupations of the past year has been readying the staff for the implementation of the new BANNER accounting system, which began July 1, 2004. Another major job requiring considerable effort from our building manager, John Cox, has been the renovation of both microbiology teaching labs and new research labs and faculty offices. Other major events during the year have been: 1) a substantial reorganization of the accounting staff, with the hiring of Ms. Pat Weinbrecht to be the head accountant and an increase in the full-time accounting staff from four to five members; 2) the resignation of a long-time 0.5 FTE staff member Ray Boucher, and the hiring of a 1.0 FTE replacement, Mr. Ivan Wang, to serve as a lab coordinator of our microbiology courses and a media preparer for new majors' core labs to be developed.

Staff	69	(includes hires during 2003–2004)
Post-Docs	11	
Research Faculty	17	
Visiting Faculty	1	
Staff Separations	15	
Post-Doc, Research & Visiting Faculty Separations	10	

BUILDING PROJECTS

Several building-related activities have been underway in 2003–04. First of all, the much-anticipated completion of the Center for Environmental Research, Information and Art (CERIA) building (Bldg. 83, the old bookstore) now has been largely accomplished, thanks to the diligent efforts of the Museum of Southwestern Biology Director, Dr. Manuel C. Molles Jr., and his fellow curators and staff. This has enabled the large-scale move of several programs such as the Museum of Southwestern Biology, the Sevilleta LTER program, and the LTER Network Office to CERIA, along with the offices of 10 individual faculty members. In total, the CERIA building will house about 90 members of the Biology Department. One of our major tasks now is to remodel and reassign the space now available in our other buildings due to the move of these people to CERIA.

Second, the department was awarded \$200K to initiate a master planning process. This includes not only a thorough assessment of our current buildings (mostly Castetter Hall, but also the Biology Annex and Marron Hall), but also a plan for our future needs over the next 10 years. The architectural firm of SMPC was hired to undertake this assessment and planning process, which is now completed. As part of the COBRE–CETI project, much of the second floor of the south wing of Castetter Hall is now scheduled for renovation. The renovated spaces will provide two new faculty offices and labs, provide refurbished facilities for one of the department's most actively used core facilities, the Molecular Biology Facility, and provide offices for both CETI and the Molecular Biology Facility (MBF) staff. Finally, to replace the old microbiology teaching labs that occupied the south wing, and as part of the arrangements made with the funding of COBRE–CETI, a new microbiology teaching facility has been constructed in the northwest corner of the basement of the new wing of Castetter Hall. This renovation, which cost \$400K, will provide a state-of-the-art teaching facility for our microbiology students and is available for use in the Fall 2004 semester.

Equipment and Infrastructure Upgrades: Several projects have been undertaken over the past year to improve our research facilities: 1) the construction of new, metal bird cages on the roof; 2) the purchase of two new, automated DNA sequencers to replace an aging sequencer in our Molecular Biology Facility; 3) the purchase of several new environmental chambers and the refurbishing of others to provide more controlled conditions for both plant and animal experiments; 4) the establishment of an aquatics facility to house fishes in what was the old MSB Herbarium; 5) the purchase of new autoclaves; 6) with the involvement of the COBRE–CETI, funds have been provided to complete a new mass spectroscopy facility in the Chemistry building.

SUMMARY COMMENTS FROM 2003–2004

The two most important events of 2003–04 for the Biology Department were the completion of the CERIA building and the funding of the COBRE–CETI Program. The former, by housing a significant proportion of our faculty and staff, has revolutionized the way we assign programs to our building spaces. The latter has been influential because it has provided opportunities that would not have existed otherwise for hiring new faculty and for renovation of space for new teaching and research labs and offices in Castetter Hall, and has allowed us to upgrade significantly our scientific equipment. It also provides a significant measure of visibility for our programs in cell and molecular aspects of biology to counterbalance our traditional strengths in ecology and evolutionary biology. Other significant events over the past year have been the implementation of our new core curriculum for majors and the hiring of new lecturers to help us keep up with the burgeoning demand for our non-majors' service courses.

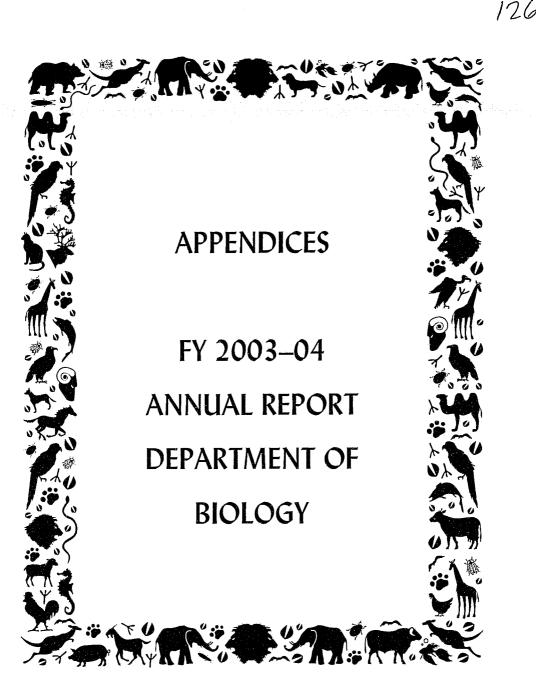
The department, at least from the vantage point of the chair's office, continues to function well as one large, well-integrated department. The faculty has been remarkably and uniformly productive and continues to excel in securing extramural funding for the broad range of activities in which we engage. Also laudable are the tireless efforts of the staff to support all aspects of our teaching, research and service missions.

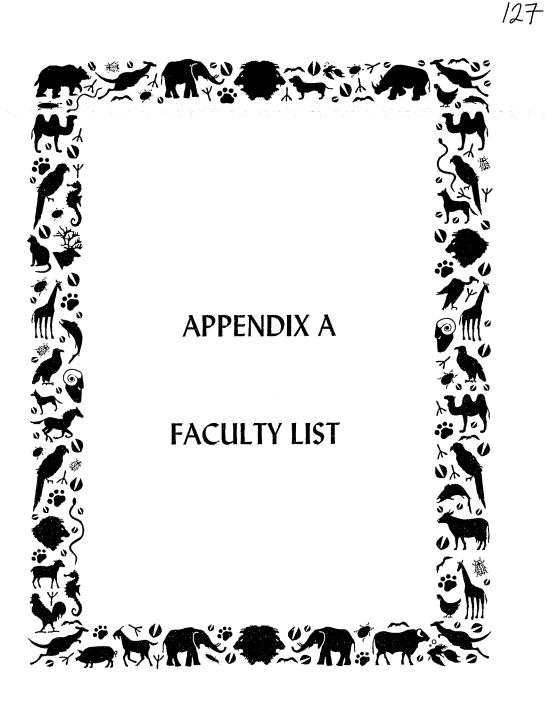
The department faces many formidable challenges. As revealed by our master planning document, our core teaching and research spaces in Castetter Hall are frankly inadequate and are in desperate need of renovation or replacement. Securing better physical locations in which to discharge our teaching and research missions must remain a very high priority for the department. Another major challenge we face

is scheduling and staffing all of the courses required of us by non-majors programs. Impending retirements also pose a considerable challenge—if we are to retain and improve the recognition we have achieved in certain key disciplines, we will need the resources to make several important hires in the next five years.

125

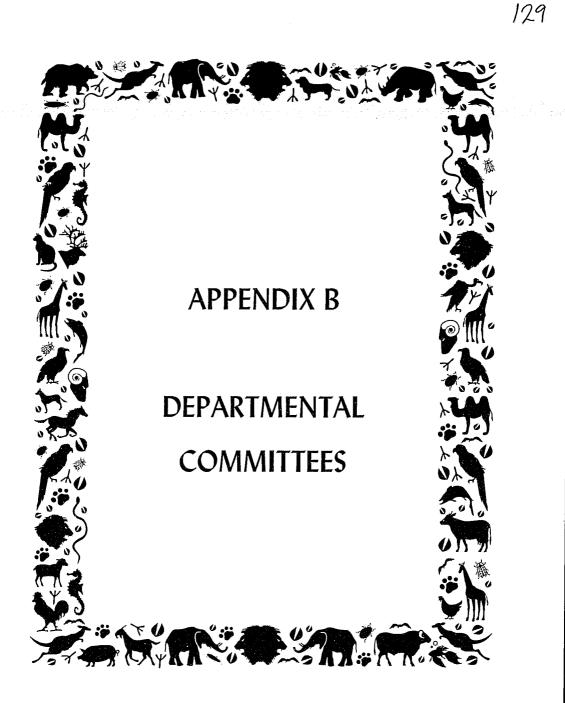
Eric S. Loker Regents' Professor and Chairman September 21 2004





UNM DEPARTMENT OF BIOLOGY FACULTY 2003-2004

J. Scott Altenbach, Professor Larry L. Barton, Professor James H. Brown, Distinguished Professor Luis F. Cadavid, Assistant Professor Eric L. Charnov, Distinguished Professor Scott L. Collins, Professor Joseph A. Cook, Associate Professor Lee Couch, Lecturer Cara Lea Council-Garcia, Lecturer Richard M. Cripps, Assistant Professor Clifford N. Dahm, Professor Donald W. Duszynski, Professor (1/4) David M. Faguy, Assistant Professor James R. Gosz, Professor (1/2) David T. Hanson, Assistant Professor Bruce V. Hofkin, Lecturer Astrid Kodric-Brown, Professor J. David Ligon, Professor Sandra H. Ligon, Lecturer Eric "Sam" Loker, Regents' Professor and Department Chair Timothy K. Lowrey, Regents' Lecturer and Asssociate Professor Diane L. Marshall, Professor Robert D. Miller, Regents' Lecturer and Associate Professor Bruce T. Milne, Professor Manual C. Molles, Jr., Professor Donald O. Natvig, Professor Mary Anne Nelson, Associate Professor William T. Pockman, Assistant Professor Steven Poe, Assistant Professor Howard L. Snell, Professor Robert L. Sinsabaugh, Associate Professor Stephen A. Stricker, Professor, On Sabbatical James Swan, Lecturer Randy Thornhill, Distinguished Professor Eric C. Toolson, Professor Thomas F. Turner, Assistant Professor Cristina Takacs-Vesbach, Assistant Professor Kathryn G. Vogel, Professor, On Sabbatical Andreas Wagner, Associate Professor Margaret Werner-Washburne, Professor Blair O. Wolf, Assistant Professor



Departmental Committees – 2003/2004

Chairman Eric (Sam) Loker

Associate Chairs Mary Anne Nelson Rob Miller

Director, Museum of SW Biology Manuel Molles

Undergraduate Policy Committee Eric Toolson, Chair Scott Altenbach David Faguy Lee Couch Maria Kjonegaard Jim Swan Karen Gaines, BGSA Annette Evangelista, BGSA

Undergraduate Curriculum Implementation Diane Marshall, Chair Sandy Ligon Scott Altenbach Bruce Milne Rich Cripps Eric Toolson Cara Lea Council-Garcia

Promotion and Tenure Rob Miller, Chair Howard Snell Maggie Werner-Washburne Graduate Policy David Ligon, Chair (fall) Randy Thornhill Tom Turner Luis Cadavid Rob Miller Cristina Vesbach Corey Fincher, BGSA

<u>Graduate Student</u> <u>Selection</u> Andreas Wagner, Chair Scott Collins Bruce Milne Tim Lowrey Steve Poe Mike Medrano, BGSA Larisa Harding, BGSA (alt)

Graduate Advisors David Ligon Ric Charnov Don Natvig

Space/Buildings Cliff Dahm, Chair Astrid Kodric-Brown John Cox Vivian Kent Tom Turner Steve Poe Tom Giermakowski, BGSA

Computers and Web Site Eric Toolson, Co-Chr Nancy Davis, Co-Chr Anne Rice Andreas Wagner George Rosenberg Blair Wolf Alison Boyer, BGSA Seminars David Hanson

Museum SW Biology Exec Committee Manuel Molles, Chair Curators Bob Sinsabaugh

<u>Greenhouses</u> Diane Marshall, Chair David Hanson Will Pockman Jane Mygatt Joy Avritt Jerusha Reynolds, BGSA

Honors Program Bruce Milne Luis Cadavid

Research Day Sandy Ligon, co-chair Cristina Vesbach, cochair Astrid Kodric-Brown David Faguy Mary Anne Nelson Christina Fridrick Daisy Rosero Toni Smythe, BGSA Tim Meehan, BGSA

<u>Graduation</u> Lee Couch, Chair Bruce Hofkin Joe Cook

Biology Graduate Student Association Larisa Harding, Co-Pres. Wade Wilson, Co-Pres. Scholarships Larry Barton, Chair Jim Gosz Jim Brown Scott Collins

Undergraduate Academic Advising Maria Kjonegaard, Advising Coordinator Larry Barton Eric Toolson Rich Cripps Bruce Hofkin Cara-Lea Council-Garcia Christina Fridrick Diane Marshall

Department Publicity Don Duszynski Ursula Shepherd Bruce Hofkin

<u>Field Programs and</u> <u>Vehicles</u> Don Duszynski Blair Wolf Tim Lowrey Joe Cook

<u>A&S Undergrad</u> <u>Representative</u> Scott Altenbach

<u>A&S Graduate</u> <u>Representative</u> Randy Thornhill

Mol. Biology Facility Richard Cripps

Microscopy Facility Steve Stricker (on sabbatical) Faculty Senate Richard Cripps

Library Liaison Bruce Milne

LTER Director Scott Collins

IMSD Co-Director Maggie Werner-Washburne

IGERT Director Cliff Dahm

<u>UNM Biosafety</u> <u>Committee</u> David Faguy or Larry Barton

UNM Radiation Control Committee Richard Cripps

BGSA Computer Pod Alison Boyer

BGSA Darkroom Toni Smythe

Animal Care and Use Blair Wolf Bill Gannon

<u>New Grad Student</u> <u>Orientation</u> David Hanson Luis Cadavid

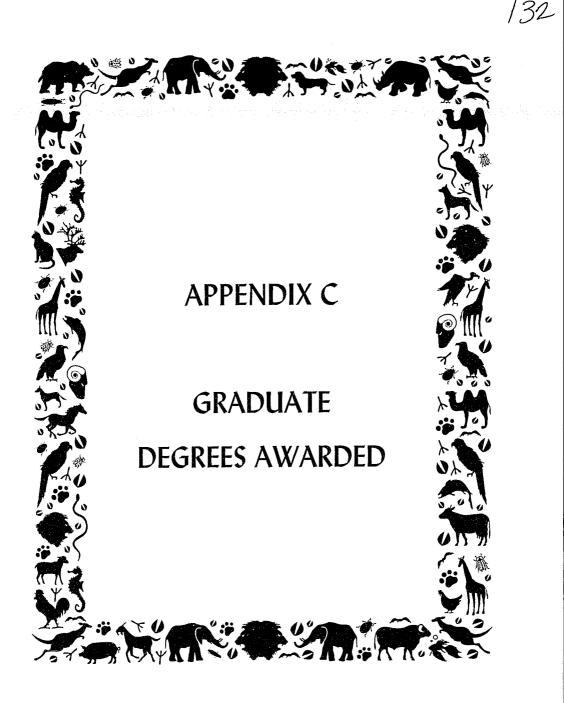
Glass Case Displays Lee Couch Lecturer II Search Committee Mary Anne Nelson, Chair Will Pockman Eric Toolson C. Council-Garcia Jerusha Reynolds, BGSA

<u>Biological Society of</u> <u>New Mexico/UNM</u> <u>Foundation</u> Don Duszynski, Chair Bob Dickerman Will Pockman Theresa Kelley Terry Yates

Building Master Plan Steering Committee Bob Sinsabaugh. Chair Rob Miller Maggie Werner-Washburne Cliff Dahm Jim Gosz Don Natvig Bruce Milne Marla Wonn John Cox Roy Ricci Heather Parmeter Ernie Valdez Undergrad student

Salary Strategy Diane Marshall Jim Brown Ric Charnov Mary Anne Nelson

15 Sept. 2003



2003-2004 DEPARTMENT OF BIOLOGY GRADUATE DEGREES AWARDED BY SEMESTER

SUMMER 2003

<u>M.S.</u>

Dominique, Alo Dunnum, Jonathan Schultz, Anne Shaner, Mariken Smith, B. Hamilton

Ph.D.

Allen, Andrew Asmundsson, Ingrid Ballantyne, Ford Chung–MacCoubrey, Alice DeJong, Randell Eichhorst, Kimberly McPhee, Megan Sherwin, Richard E. Tinnin, David

FALL 2003

<u>M.S.</u>

Medeiros, Juliana Ortiz, Andrina Smith, Ruth

<u>Ph.D.</u>

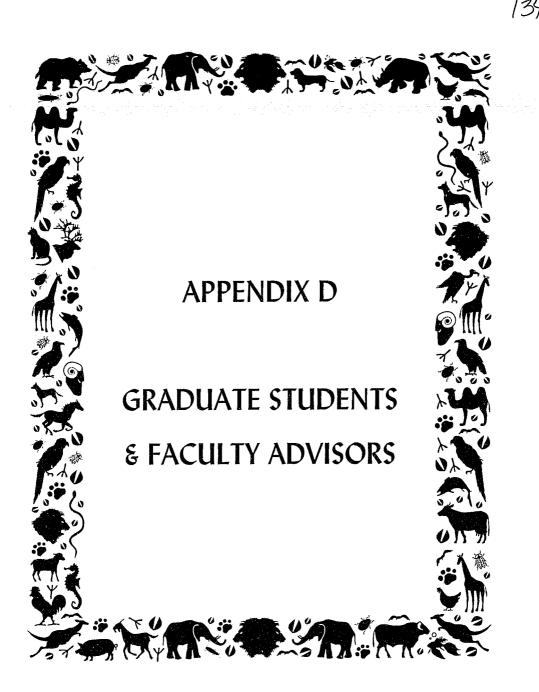
Boykin, Laura Kelly, Kathleen McClellan, Yvonne

SPRING 2004

<u>M.S.</u> Dichosa, Armand Long, Steven Lynch, Andrew

<u>Ph.D.</u>

Conant, Gavin Passell, Howard



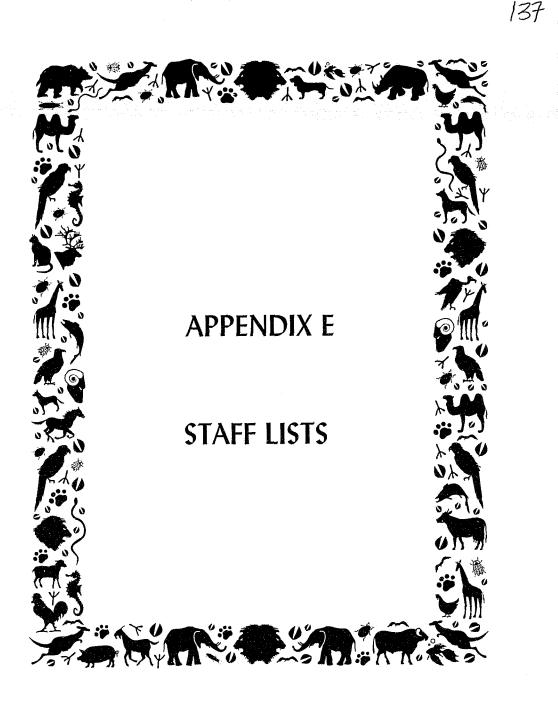
GRADUATE STUDENTS AND FACULTY ADVISORS, 2003-04

<u>STUDENT</u>	ADVISOR	<u>STUDENT</u>	ADVISOR
Ancell, C.	Dahm	Guzman, L.	Molles
Anderson, K.	Brown/Milne	Hall, P.	Marshall
Aragon, A.	Werner–Washburne	Harding, L.	Yates
Baker, P.	Cripps	Harner, M.	Dahm
Bateman, H.	Snell	Hertel, L.	Loker
Baum, N.	Milne	Howe, K.	Nelson
Bishop, Y.	Barton	Hurlbert, A.	Yates/Brown
Boyer, A.	Brown	Keil, P.	Thornhill
Boykin, L.	Lowrey	Kelly, K.	Cripps
Bragg, J.	Brown	Kitchen, C.	Faguy
Cline, K.	Thornhill	Koehler, A.	Cook
Conant, G.	Wagner	Koontz, T.	Marshall
Crawford, D.	Cook	Lauber, C.	Sinsabaugh
Crenshaw, C.	Dahm/Molles	Lease, H.	Wolf
Davidson, A.	Gosz	Linderoth-Hummel, O.	Molles
Dawson, N.	Cook	Long, S.	Faguy
Dichosa, A.	Faguy	Luck, M.	Milne/Brown
Ditto, A.	Natvig/Smith	Lynch, A.	Duszynski
Dunsdon, N.	Loker	Maas, K.	TackasVesbach
Dudley, R.	Turner	Magana, H.	Dahm
Edwards, M.	Turner	Martinet, M.	Dahm
Elwell, J.	Faguy	McDonnell, D.	Dahm
England, A.	Altenbach	McIntyre, J.	Gosz
Evangelisti, A.	Wagner	Medeiros, J.	Pockman
Fincher, C.	Thornhill	Medrano, M.	Molles
Flores–Ramirez, S.	Miller	Meehan,T.	Brown/Molles/
Follstad, J.	Dahm		Milne
Franklin, M.	Thornhill	Moses, M.	Brown/Milne
Frazier, C.	Lowrey	Neuwirth, W.	Brown/Molles/
Fuller, M.	Wagner		Milne
Gaines, K.	Brown	Nonaka, E.	Milne
Gallo, M.	Sinsabaugh	Nowak, T.	Loker
Garcia, J.	Gosz	Ortiz, A.	Snell
Geluso, K.	Brown	Parmeter, H.	Turner
Giermakowski, J.	Snell	Parra, Z.	Miller
Goheen, J.	Brown/Milne	Passell, H.	Dahm
Goodwin, M.	Gosz	Pease, A.	Turner

<u>STUDENT</u>	ADVISOR	STUDENT	ADVISOR
Phillips, R.B.	Snell	Yanoff, S.	Lowrey
Platania, S.	Snell	Zeglin, L.	Dahm/Molles
Platero, H.	Nelson		
Plunkett, R.	Barton		
Putze, M.	Brown		
Racz, G.	Yates		
Redfern, J.	Marshall/Lowrey		
Reynolds, J.	Lowrey		
Ryan, K.	Nelson		
Samaniego, H.	Yates		
Schwanz, L.	Kodric-Brown		
Schwarz, R.	Cadavid,		
Shah, A.	Cripps		
Shore, G.	Gosz		
Sias, D.	Snell	1	
Simpson, H.	Marshall		
Smith, R.	Wolf		
Smythe, T.	Stricker		
Suzan, G.	Yates		
Swenton, D.	Kodric-Brown		
Tech, C.	Kodric-Brown		
Thibault, K.	Yates		
Tibbets, T.	Molles/Lowrey		
Trafton, A.	Pockman/Dahm		
Tyler, A.	Pockman		
Valdez, E.	Altenbach/Bogan		
Walker, H.	Brown		
Warne, R.	Wolf/Brown/		
	Kodric-Brown		
Watson, M.	Altenbach		
Weaver, H.	Kodric-Brown		
Weise, C.	Yates/Bogan		
Whalen, D.	Gosz		
White, E.	Brown		
Wilson, W.	Turner		
Winslow, F.	Wolf		
Wright, A.	Miller		

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DEPARTMENT OF BIOLOGY STAFF & NON-TENURE TRACK FACULTY

CURRENT STAFF

LAST NAME	FIRST NAME	JOB TITLE
ALO	DOMINIQUE	RESEARCH TECH LIFE SCIENCES
ATENCIO	LUPE	
AVRITT	JOY	RESEARCH TECH/LIFE SCIENCES
BRANDENBURG	WILLIAM H.	SR. RESEARCH TECH/LIFE SCIENCES
BRISCO	ANDREA	ADMINISTRATIVE ASSISTANT I
BROWDER	AMANDA KENNEDY	FIELD RESEARCH TECH/LIFE SCIENCES
BROWN	RENEE	USER SUPPORT ANALYST II
CALLISON	CRAIG	FIELD RESEARCH ASSOCIATE/BIOL SCIENCE
CANTRELL	SHANA	ACCOUNTING CLERK
CHAUVIN	YVONNE	SR. RESEARCH TECH/LIFE SCIENCES
COHEN	ADAM	FIELD RESEARCH ASSISTANT - ON CALL
COSTA	DUANE	ANALYST/PROGRAMMER I
сох	JOHN B.	MANAGER, FACILITIES SERVICES
CRAIG	JOHN A., JR.	ANALYST/PROGRAMMER I
CRENSHAW	CHELSEA	RESEARCH TECH/LIFE SCIENCES TEMPORARY
DAVIS	NANCY L.	SYSTEM ADMINISTRATOR
DE LA GARZA	RAUL	DATABASE ADMINISTRATOR
DEWITT	JOHN W.	COORD, RESEARCH
DINETS	VLADIMIR	FIELD RESEARCH ASSOCIATE/BIOL SCI
DONART	NATHAN	RESEARCH TECH LIFE SCIENCES- TEMPORARY
DORAN	LINDA	FIELD RESEARCH ASSISTANT TEMPORARY
DOWD	BRANDON	FIELD RESEARCH ASSOCIATE/BIOL SCI
DOWNEY	LAURA	SR. RESEARCH ENGINEER III
DUDLEY	ROBERT	FIELD RESEARCH ASSISTANT ON CALL
EDELEN	TESSA	FIELD RESEARCH ASSOCIATE/BIOL SCIENCES
ELLIOTT	JAMES	RESEARCH TECH/LIFE SCIENCES
ELLIS	LISA	DATA ANALYST - TEMPORARY
ELWELL	JENNIFER	SR. RESEARCH TECH/LIFE SCIENCES
FARRINGTON	MICHAEL	SR RESEARCH TECH/LIFE SCIENCES
FIEHLER	CRAIG	FIELD RESEARCH ASSOCIATE/BIOL SCIENCES
FRAZIER	CHRISTOPHER	PROGRAM MANAGER
FREEHLING	MICHAEL D.	SR. RESEARCH TECH/LIFE SCIENCES - ON CALL
FRIGGENS	MICHAEL T.	IGIS ANALYST
GANNON	WILLIAM	SR. COLLECTION MANAGER
GARCIA	LARISSA E.	SUPPLY/STOCK CLERK
GARCIA	JOSLYN	ADMINISTRATIVE ASSISTANT II
GIBSON	DON	FIELD RESEARCH ASSISTANT ON CALL
GIERMAKOWSKI	JACEK T.	MUSEUM COLLECTION MANAGER
GOSZ	MARY JANE	FIELD RESEARCH ASST ON-CALL
GOTTLIEB	SARA J.	DATA MANAGER

GRIEGO	PAMELA M.	ADMINISTRATIVE ASSISTANT III
GRIFFIN	CAROL-ANN	ADMINISTRATIVE ASSISTANT II
GURULE	FRANK	LAB ANIMAL TECH
HALL	JENNIFER	RESEARCH SCIENTIST I
HARRINGTON	CHRISTINE	RESEARCH TECH/LIFE SCIENCES
HAYMOND	SHAUNA	FIELD RESEARCH ASSISTANT
HENDREN	JILL	PROFESSIONAL INTERN
HERTEL	LYNN	RESEARCH SCIENTIST III
HICKMAN	CALEB	FIELD RESEARCH ASSOCIATE BIOL SCIENCES
HODES VILLAMAR	LINDA	RESEARCH TECH/LIFE SCIENCES
HORNER	MARK	FIELD RESEARCH TECH-TEMP
HUDSON	MARJORIE	SR. PROGRAM MANAGER
IRELAND	KAISA	FIELD RESEARCH ASSISTANT TEMPORARY
JI	MING	RESEARCH TECH/LIFE SCIENCES
JOHNSON	ANDREW	MUSEUM COLLECTIONS MANAGER
JOHNSON	JENNIFER	RESEARCH SCIENTIST I
KAPOOR	MAYA	FIELD RESEARCH ASSOCIATE/LIFE SCI
KAVKA	JENNIFER	PROGRAM MANAGER
KEESHEN	REBECCA A.	OFFICE ADMINISTRATOR
KELLEY	THERESA	ACCOUNTANT III
KENT	VIVIAN	COORDINATOR, GRADUATE PROGRAM
KJONEGAARD	MARIA	PROGRAM COORDINATOR
KNAPP	WILLIAM	FIELD RESEARCH ASSOCIATE/BIOL SCIENCES
LAUBER	CHRISTIAN	RESEARCH SCIENTIST I
LIGHTFOOT	DAVID C.	SR. RESEARCH SCIENTIST I
LITER	MATTHEW	SUMMER HELPER
LOKER	KRISTEN	SUMMER HELPER
MARCE SANTA	ERIKA	FIELD RESEARCH ASSOCIATE/BIOL SCI
MARSHALL	JENNIFER	RESEARCH SCIENTIST I
MARTINEZ INGRAM		ADMINISTRATIVE ASSISTANT III
	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OF THE OWNER	
MATHER	TRISHA LYNN	
MCCOLLOUGH	CHARLES	
MCCOY HAYES	SHANNON	EDITORIAL TECH
MCGANN	JEANINE	WEB DESIGNER
MCOWITI	THOMAS	PUBLIC INFORMATION REPRESENTATIVE
MILFORD	ELIZABETH R.	RESEARCH SCIENTIST I
MOORE	DOUGLAS I.	RESEARCH SCIENTIST II
MULDAVIN	ESTEBAN H.	RESEARCH ASSOCIATE PROFESSOR
MURILLO	MICHELLE	DATA MANAGER
MYGATT	JANE	SR.MUSEUM COLLECTION MANAGER
NEVILLE	TERRI BROTMAN	GIS ANALYST
NIELSON	TOMMIE SUE	ADMINISTRATIVE ASSISTANT II
OSTERMAN	AMY	RESEARCH SCIENTIST I
PARMENTER	CHERYL	MUSEUM COLLECTIONS MANAGER
PARMETER	HEATHER	RESEARCH TECH/LIFE SCIENCES TEMPORARY
PEDREGO	LILIA	RESEARCH ASSISTANT TEMPORARY
PERRY	KATY	ADMINISTRATIVE ASSISTANT II
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PERSHALL	ALAINA	RESEARCH SCIENTIST I	7
PIERCE	LELAND	FIELD RESEARCH TECH LIFE SCI ON CALL	
RICCI	ROY	SUPV., ANIMAL RES. FACILITY	1
RICE	ANNE	TECHNICAL WRITER	
ROSENBERG	GEORGE E.	RESEARCH SCIENTIST II	
ROSERO	DAISY V.	ADMINISTRATIVE ASSISTANT II	
SANCHEZ RODRIGUEZ	ANGELINA	SR. RESEARCH TECH/LIFE SCIENCES	
SANTILLANES	RENEE	ADMINISTRATIVE ASSISTANT III	1
SEAMEN	EMYLIE	RESEARCH TECH/LIFE SCIENCES TEMPORARY	
SHORE	GREGORY A.	ANALYST PROGRAMMER III	
SMITH	JACQUELINE	SR. RESEARCH TECH/LIFE SCIENCES	
SMITH	JUSTIN	GIS ANALYST/PROGRAMMER	
SNYDER	ALEXANDRA M.	MUSEUM COLLECTION MANAGER	7
SPROTT BONITO	PATRICIA L.	TECHNICAL EDITOR	
STACEY	PETER	RESEARCH PROFESSOR	
TEKELL	STEVE	SR WEB DESIGNER]
THIBAULT	JAMES	SR. RESEARCH TECH/LIFE SCIENCES	
TONNE	PHILLIP C.	SR RESEARCH SCIENTIST I	
TORRES	LEEANNA	FIELD RESEARCH TECH/LIFE SCIENCES- ON CALL	
WALTERS	JOSHUA	FIELD RESEARCH ASSISTANT ON CALL	
WANG	IVAN	LECTURE DEMONSTRATION COORDINATOR	
WEINBRECHT	PATRICIA	ACCOUNTANT III	
WELLS	JAMIE	FIELD RESEARCH ASSOCIATE/BIOL SCIENCES	
WETHERILL	KAREN R.	RESEARCH SCIENTIST I	
WHITE	MARSHALL	SR WEB DESIGNER	
WONN	MARLA F.	DEPARTMENT ADMINISTRATOR III	
WRIGHT	APRIL	RESEARCH SCIENTIST I	_

STAFF HIRED DURING FY 2003 – 2004

LAST NAME	FIRST NAME	JOB TITLE	HIRE DATE
ABAYA	MARIE	FIELD RESEARCH ASSOCIATE/BIOL SCI	
CANTRELL	SHANA	ACCOUNTING CLERK	11/3/2003
COSTA	DUANE	ANALYST/PROGRAMMER I	10/15/2003
DINETS	VLADIMIR	FIELD RESEARCH ASSOCIATE/BIOL SCI	3/31/2004
DOWD	BRANDON	FIELD RESEARCH ASSOCIATE/BIOL SCI	3/31/2004
ELLIOTT	JAMES	RESEARCH TECH/LIFE SCIENCES	6/9/2004
FRIGGENS	MICHAEL T.	GIS ANALYST	10/1/2003
GOMEZ	ANGELA	ADMINISTRATIVE ASSISTANT I	
GRIEGO	VERONICA	ADMINISTRATIVE ASSISTANT I	
HALL	JENNIFER	RESEARCH SCIENTIST I	11/14/2003
HENDREN	JILL	PROFESSIONAL INTERN	6/21/2004
HODES VILLAMAR	LINDA	RESEARCH TECH/LIFE SCIENCES	12/17/2003
JI	MING	RESEARCH TECH/LIFE SCIENCES	3/1/2004
JOHNSON	ANDREW	MUSEUM COLLECTIONS MANAGER	10/1/2003

4.

JOHNSON	JENNIFER	RESEARCH SCIENTIST I	4/1/2004
KAPOOR	MAYA	FIELD RESEARCH ASSOCIATE/BIO SCI	9/15/2003
KAVKA	JENNIFER	PROGRAM MANAGER	1/5/2004
LIDEN	KATHERINE	PROGRAM COORDINATOR	
MARCE SANTA	ERIKA	FIELD RESEARCH ASSOCIATE/BIOL SCI	3/31/2004
MARSHALL	JENNIFER	RESEARCH SCIENTIST I	12/15/2003
MCGANN	JEANINE	WEB DESIGNER	1/5/2004
MURILLO	MICHELLE	DATA MANAGER	12/1/2003
NIELSON	TOMMIE SUE	ADMINISTRATIVE ASSISTANT II	3/22/2004
PFAFFLY	JASON	FIELD RESEARCH ASSOCIATE/BIOL SCI	
SMITH	JUSTIN	GIS ANALYST/PROGRAMMER	8/11/2003
TEKELL	STEVE	SR WEB DESIGNER	1/27/2004
WRIGHT	APRIL	RESEARCH SCIENTIST I	1/5/2004

STAFF SEPARATIONS DURING FY 2003 - 2004

LAST NAME	FIRST NAME JOI	B TITLE END DA	TE
ABAYA	MARIE	FIELD RESEARCH ASSOCIATE/BIOL SCI	7/23/2004
APKARIAN	WENDY E.	ADMINISTRATIVE ASSISTANT II	7/25/2003
BLANKMAN	DAVID	DATABASE ADMINISTRATOR	2/28/2004
BONITO	GREG	RESEARCH SCIENTIST I	10/31/2003
BOUCHER	RAYMOND	RESEARCH TECH/LIFE SCIENCES	4/12/2004
DUNNUM	JONATHAN	FIELD RESEARCH ASSOCIATE	8/1/2003
EASTMAN	JOSEPH	RESEARCH SCIENTIST III	2/29/2004
GALLEGOS	MELISSA A.	ADMINISTRATIVE ASSISTANT II	1/30/04
GOMEZ	ANGELA	ADMINISTRATIVE ASSISTANT I	5/13/2004
GRIEGO	VERONICA	ADMINISTRATIVE ASSISTANT I	7/21/2004
KOONTZ	TERRI L.	FIELD RESEARCH ASSOCIATE/BIOL. SCI	8/15/2003
LIDEN	KATHERINE	PROGRAM COORDINATOR	8/6/2004
LOUDERBOUGH	JEANNE VANGILS	RESEARCH TECH/LIFE SCIENCES	7/2/2004
LOVATO	TYANNA L.	SR. RESEARCH TECH/LIFE SCIENCES	8/6/2004
MADDUX	TROY B.	DATABASE ADMINISTRATOR	12/31/2003
MUNSON	SETH	FIELD RESEARCH ASSOCIATE BIO SCI	6/18/2004
OLSEN	PETER	SENIOR WEB DESIGNER	1/31/2004
ORR	TERI	FIELD RESEARCH ASSOCIATE/BIOL SCI	8/17/04
PFAFFLY	JASON	FIELD RESEARCH ASSOCIATE/BIOL SCI	7/7/2004
SCHUETZ	JENNIFER F.	SR. RESEARCH TECH/LIFE SCIENCES	1/30/04
FRANK	BRIAN D.	FIELD RESEARCH ASSOCIATE/BIOL SCI	8/13/04

CURRENT NON-TENURE TRACK FACULTY

LAST NAME	FIRST NAME	JOB TITLE
COUCH	LEE	LECTURER II
COUNCIL-GARCIA	CARA LEA	
FRIDRICK	CHRISTINA	LECTURER II
LIGON	SANDY	LECTURER II
SWAN	JAMES	LECTURER II
Hofkin	BRUCE	LECTURER III
HOWE	KELLY	LECTURER III
ALLEN	ANDREW	POSTDOCTORAL ASSOCIATE
ALLEN	CHRIS	POSTDOCTORAL ASSOCIATE
BRANT	SARA	POSTDOCTORAL ASSOCIATE
ERNEST	SK MORGAN	POSTDOCTORAL ASSOCIATE
FARGIONE	JOE	POSTDOCTORAL ASSOCIATE
JIANG	YIGUO	POSTDOCTORAL ASSOCIATE
GIUGGIOLI	LUCA	POSTDOCTORAL ASSOCIATE
HANELT	BEN	POSTDOCTORAL ASSOCIATE
HICE	CHRISTINE	POSTDOCTORAL ASSOCIATE
JETZ	WALTER	POSTDOCTORAL ASSOCIATE
MARTINEZ	MARIA JUANITA	POSTDOCTORAL ASSOCIATE
MCCLAIN	CRAIG	POSTDOCTORAL ASSOCIATE
OSBORNE	MEGAN JANE	POSTDOCTORAL ASSOCIATE
ROMANELLO	SAMANTHA	POSTDOCTORAL ASSOCIATE
STEINAUER	MICHELLE	POSTDOCTORAL ASSOCIATE
ZHANG	YONG-AN	POSTDOCTORAL ASSOCIATE
ARBETAN	PAUL T.	RESEARCH ASSISTANT PROFESSOR
BAKER	MICHELLE L.	RESEARCH ASSISTANT PROFESSOR
BRUNT	JAMES W.	RESEARCH ASSISTANT PROFESSOR - ASSOC. DIR. FOR IMR
CLEVERLY	JAMES R.	RESEARCH ASSISTANT PROFESSOR
DRAGOO	JERRY W.	RESEARCH ASSISTANT PROFESSOR
EICHHORST	KIM	RESEARCH ASSISTANT PROFESSOR
GILLOOLY	JAMES F.	RESEARCH ASSISTANT PROFESSOR
LARKIN	LEAH	RESEARCH ASSISTANT PROFESSOR
PENNINGTON	DEANA	RESEARCH ASSISTANT PROFESSOR
SANTA ANNA- ARRIOLA	SONIA	RESEARCH ASSISTANT PROFESSOR
SERVILLA	MARK	RESEARCH ASSISTANT PROFESSOR
SMITH	FELISA	RESEARCH ASSISTANT PROFESSOR
STACEY	PETER B	VISITING RESEARCH PROFESSOR
SYLVESTER	KENNETH	VISITING ASSISTANT PROFESSOR
ZHANG	SI-MING	RESEARCH ASSISTANT PROFESSOR
JOHNSON	KRISTINE	RESEARCH ASSOCIATE PROFESSOR
ADEMA	COENRAAD M.	RESEARCH ASSOCIATE PROFESSOR
MICHENER	WILLIAM K.	ASSOCIATE PROFESSOR
MULDAVIN	ESTEBAN H.	RESEARCH ASSOCIATE PROFESSOR

VANDE CASTLE	JOHN	RESEARCH ASSOCIATE PROFESSOR
VANDERBILT	KRISTIN	RESEARCH ASSISTANT PROFESSOR
WAIDE	ROBERT	RESEARCH PROFESSOR
WHITE	CARLETON	RESEARCH ASSOCIATE PROFESSOR
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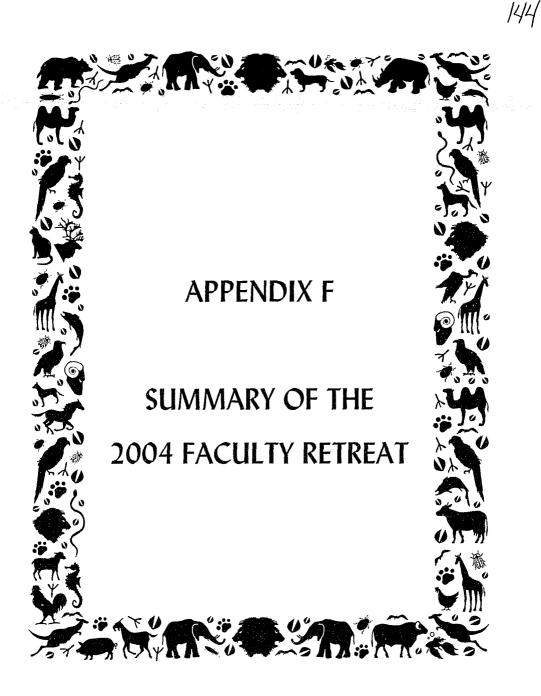
Non-Tenure Track Faculty Separations During FY 2003 - 2004

LAST NAME	FIRST NAME	JOB TITLE	END DATE
BELGRANO	ANDREA	POSTDOCTORAL ASSOCIATE	11/30/2003
CARTRON	JEAN-LUC	POSTDOCTORAL ASSOCIATE	8/31/2003
DEJONG	RANDALL	POST DOCTORAL ASSOCIATE	6/30/2004
GILCHRIST	MICHAEL	POSTDOCTORAL ASSOCIATE	6/10/2004
LYONS	SARA KATHLEEN	POSTDOCTORAL ASSOCIATE	7/25/2003
MCKECHNIE	ANDREW	POSTDOCTORAL ASSOCIATE	11/30/2003
MOYER	GREG	POSTDOCTORAL ASSOCIATE	8/31/04

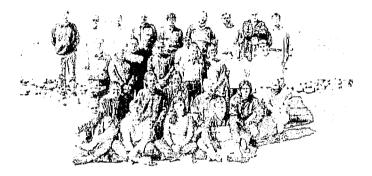
Non-Tenure Track faculty Hired During FY 2003 - 2004

LAST NAME	FIRST NAME	JOB TITLE	HIRE DATE
ALLEN	ANDREW	POSTDOCTORAL ASSOCIATE	7/16/2003
EICHHORST	KIM	RESEARCH ASSISTANT PROFESSOR	8/1/2003
FRIDRICK	CHRISTINA	LECTURER II	8/18/2003
MCCLAIN	CRAIG	POSTDOCTORAL ASSOCIATE	8/25/2003
BRANT	SARA	POSTDOCTORAL ASSOCIATE	9/1/2003
HANELT	BEN	POSTDOCTORAL ASSOCIATE	9/1/2003
ROMANELLO	SAMANTHA	POSTDOCTORAL ASSOCIATE	9/2/2003
SHERWIN	RICHARD	POSTDOCTORAL ASSOCIATE	12/15/2003
JIANG	YIGUO	POSTDOCTORAL ASSOCIATE	1/2/2004
SANTA ANNA-ARRIOLA	SONIA	RESEARCH ASSISTANT PROFESSOR	3/1/2004
GIUGGIOLI	LUCA	POSTDOCTORAL ASSOCIATE	3/1/2004
ZHANG	YONG-AN	POSTDOCTORAL ASSOCIATE	3/31/2004
LARKIN	LEAH	RESEARCH ASSISTANT PROFESSOR	4/1/2004
HICE	CHRISTINE	POSTDOCTORAL ASSOCIATE	4/1/2004
SERVILLA	MARK	RESEARCH ASSISTANT PROFESSOR	5/3/2004
FARGIONE	JOE	POSTDOCTORAL ASSOCIATE	7/1/2004
HOWE	KELLY	LECTURER III	8/16/2004
STEINAUER	MICHELLE	POSTDOCTORAL ASSOCIATE	9/1/2004

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REPORT OF THE FACULTY RETREAT DEPARTMET OF BIOLOGY UNIVERSITY OF NEW MEXICO 5-6 March 2004



The retreat was held at the Sevilleta National Wildlife Refuge Conference Room and was attended by 28 faculty members. We were served an outstanding dinner by Mary Jane Gosz on Friday evening, followed by informal conversations. Our meeting commenced the next morning and lasted until about 12:30pm. The major agenda items for the meeting were as follows:

A brief recap of building issues The future of the department over a 5-year time frame. A consideration of hiring opportunities in that time frame Discussion of opportunities for hiring new staff A brief discussion of the policy about lecturers' voting privileges.

The meeting began with a reaffirmation from the chair about some of the general principles underlying the department's future. They were stated as follows:

1. We need to remain distinctive and not try to be like everyone else.

2. We are for the time being committed to being one big, complex, but influential department that strives for integration, rather than to split to become two or more lesser departments.

3. We affirm a policy of trying to keep a healthy balance between cell/molecular vs. organismal/ecology/evolution biology, and a balance between sources of funding (such as NSF and NIH).

4. We affirm a fundamental focus on basic biology, although admittedly the dividing line with applied biology is sometimes nebulous

5. The Museum of Southwestern Biology is an integral part of the Biology Department.

6. Ours is a department that in general is doing well, so we need to proceed in our thinking by evolution rather than revolution.

7. It is also prudent for us not to consider areas that are extremely expensive, though this should not be taken as an excuse to be low-tech.

Some of the general kinds of questions for us to keep in mind during are deliberations were posed as follows: Do we want to grow? Do we want to develop new areas? Do we want to instead emphasize solidifying our existing areas? Do we want to focus hires and develop a smaller number of concentration areas? Or do we want to remain broader?

Building Issues

The plans for ongoing and upcoming building renovations were briefly discussed. Biology's master building planning process is underway and should be completed before the end of the spring semester. This plan will guide future renovation efforts in Castetter Hall, Marron Hall and the Annex. There is currently an ongoing build-out of the third floor of the CERIA building, expected to be completed on schedule in July, 2004. The next most imminent renovations relate to the second floor of the old wing of Castetter Hall where two faculty labs and offices and the department's molecular facility and associated offices will be renovated to accommodate 2 faculty hires made for the COBRE – CETI program (scheduled completion is Christmas, 2004). Also, minor capital improvement funds will be used to create a microbiology teaching facility in the basement of the new wing of Castetter Hall (completion date mid-August, 2004). The plan to renovate Castetter completely and to add a 3 floor addition in the courtyard area was discussed briefly, including the estimated price of the entire project (\$33 M!).

Other building related projects were discussed including current requests for minor capital improvement funds (\$490K) and core building renewal (\$2.5M) for Biology's buildings. Also, we will attempt to get back on the state legislature's major renovation schedule. We were on this list for \$4.5M for fiscal 2004-5, but fell off just before the final general obligation bond was passed. Also, Jim Gosz told us that initial funding has been obtained from the U.S. Fish and Wildlife Service for a research/education building to be part of Sevilleta field station.

Faculty Hires

We discussed this topic extensively from the standpoint of what our future hiring opportunities are likely to be, and how we might wish to capitalize on such opportunities. Given the current political and financial climate, we need to consider alternative hiring strategies, such as leveraging hires from large funded programs. For example, our next two faculty hires (one in 2003-2004 and one in 2004-2005) are connected to, and largely funded by, the COBRE-CETI program. Without such opportunities, it is unlikely that net new hires will be readily forthcoming. Otherwise, any future hires seem to be firmly tied to retirements or resignations.

Our general discussion of faculty hires began with the reading of a plan by Randy Thornhill (see attached) for ensuring continuity of the group of **Evolutionary and Behavioral Animal Ecologists**, given a number of impending retirements facing this group. The first such retirement from this group is likely to be David Ligon in January, 2005, though David's retirement plans are still being decided. David's replacement poses some dilemma for the department as he is not only a behavioral ecologist but also an **ornithologist and curator of birds**. This group stated the need to make one senior and two junior hires. Terry Yates mentioned the possibility of seeking joint appointments relative to this plan, since this group already interacts with other departments. The museum curators agree that it may be necessary to decouple a behavioral ecology position from a curator of birds position. Further specific discussion of how we will proceed with the position vacated by Dr. Ligon will likely occur in spring, 2005.

Discussion of this plan sparked a broader discussion of hiring. Maggie Werner-Washburne mentioned the importance of considering teaching needs in our hires, and supported a hire in ecological genomics. Andreas Wagner mentioned the need to consider "bridging hires" that in fact span traditional disciplines, such as "genetics of collective behavior". Jim Brown mentioned the need to build on existing strengths. Eric Toolson argued for maintaining breadth and collegiality. Rich Cripps, speaking on behalf of many of the junior faculty who had met earlier in the week, argued that we must also make new hires that reflect the needs of junior faculty, who will collaborate and interact with the new hires for many years to come. He argued for positions in evolutionary developmental biology and functional morphology and for better balance between cell/molecular and organismal biology. We discussed the provost's program of areas of marked distinction as a possible way to support some of our distinguished programs, Jim Brown argued that the need for interdisciplinary science should not compromise our strengths in core areas. Jim Gosz argued that we need to break down traditional boundaries and there is a great deal of grant support for interdisciplinary approaches. David Hanson emphasized the need to allow for new initiatives, possibly including stress physiology.

A more comprehensive list of potential hires for us to consider, in no implied order, was assembled as follows:

Animal evolution and behavioral ecology Genetics of collective behavior Traditional "ologies" Evolutionary developmental biologist Functional morphologist Cell Biology Ecological genomics Stress Physiology Plant developmental biology Insect Biology

Our most immediate hire, namely the second COBRE-CETI search to occur in 2004-2005, was also discussed extensively. Such hires represent a balancing act between the needs to fulfill the obligations of this NIH-funded grant to build a visible program in evolutionary and theoretical immunology, and the need to get broad departmental buy-in with respect to the hires. Bruce Milne emphasized the theme of networks as a possible hiring theme, with Andreas adding the caveat that we have to be careful because a lot of people working with networks are not at all biological in their thinking. Jim Gosz mentioned that nanobiology is a theme compatible with EPSCoR. Jim Brown mentioned a theoretical immunologist or epidemiologist or a person interested in genomic conflicts might be someone who could interface with his programs. There was general enthusiasm for hiring someone who generates data, or for a combination theorist/experimentalist. Astrid Kodric Brown mentioned genomic inprinting as a possible study area. Mary Anne Nelson mentioned the importance that CETI hires be able to teach in our new core curriculum. The nature of the second hire will logically be influenced by the outcome of the first CETI hire, a process that was ongoing at the time of the retreat.

Some of the more general conclusions emerging from our discussions of faculty hires were as follows:

- We need to maintain some of our traditional core strengths but at the same time we can not stifle the development of new areas or the interests of younger faculty.
- 2. We need to have balance, including not only between cell/molecular and organismic approaches, but also among the organisms themselves.
- We must continue to emphasize the need for diversity (women and minority faculty).

A Few Comments on Budget

Following our consideration of faculty hires, we moved to a discussion of the departmental budget. A general outline of the three major components of our departmental budget was presented: the state-provided "I&G" (instructional and general) budget, our course fees budget, and the "F&A" (facilities and administration) budget. The latter is essentially our returned overhead budget. Last year, and this year as well, we have had significant carry-forward in our I&G budget, in large part due to the absorption of many of our instructional fees by our increased course fee budget. Given the flat nature of the I&G budget over the past decade, the department has had to require course fees of students enrolled in more of our classes, especially those involving labs or that are otherwise expensive to teach. Our general strategy is to spend down our course fee account every year, with the outlays tied properly to the courses that incur the expenses. Our general strategy will also be to divert to our I&G budget as many expenses as possible and legitimate, so as to take as much pressure off our F&A budget as possible. The rationale for this is that our F&A budget provides us the greatest discretion and can accumulate across years. This should help to free up funds for our creative endeavors.

One idea that has surfaced is that given our many pressing needs for additional staff, and that our course fees account has taken some of the pressure off our I&G budget, should we not use some of our surplus I&G funds to hire additional staff, or shore up existing staff positions? We should have funds to hire 1 to 1.5 new staff lines. Some possibilities brought up included a full-time lab prepper, an advisor, a greenhouse technician, a grant's facilitator, or a public relations/development person. Another idea that was discussed was either increasing our teaching assistants' (TA) salaries, or increasing the number of TA positions. Terry Yates mentioned that a grant-support center was soon to come on line from the central administration, and Mary Anne Nelson mentioned that A&S is about to hire a new grant writer. We discussed the possibility of hiring a part-time public relations/development person for particular tasks, as needed.

Departmental Policy Regarding Lecturers

As a final issue, it was noted that lecturers were not in attendance at our retreat, and that they were not sure if they should attend or not. This raises the more general point that a comprehensive policy for this important group of faculty (soon to total six in number) is lacking for our department. A debate followed regarding the merits of having the lecturers vote in various departmental matters, with a variety of opinions expressed. Don Natvig suggested we seek the input of lecturers and then discuss this at length at a future faculty meeting. Rob Miller reminded us of the policy passed three years ago regarding lecturer voting privileges. There is a general need to revisit voting privileges and other matters such as annual reviews and career ladders germane to the lecturers.

Some New Ideas Emerging from the Retreat That We Need to Pursue:

- 1. The possibility of seeking "real" joint appointments with other departments.
- 2. Think of hiring a lobbyist, as needed, to look after particular interests of the department. We need in particular to do a better job interfacing with the state legislature, and in selling the value of our science to the public. We need professional help in doing this and may bungle it if we try to do it on our own.
- An opportunity for hiring may be presented by the new BA/MD program being contemplated by the deans of Arts and Sciences and the School of Medicine.
- 4. We mentioned the desirability of having several of our Wednesday brown bag seminars given over to talks by our present faculty, as a way to educate one another about what we are doing. This might also be the focus of a future retreat.
- 5. Directed or targeted hires are still possible under certain circumstances at UNM.

Some Guiding Departmental Philosophies Stated During the Retreat:

Build on our existing strengths Proceed by evolution not revolution Make good hires! Retain breadth and avoid formalized divisions Hire to build bridges between areas Be ever mindful of students' needs Do a better job selling ourselves Be more opportunistic Retain core strengths but don't be too rigid Be mindful of the need to retain and recruit diversity

Prepared by Eric S. Loker, Chair, Biology, August 6, 2004.



Department of Biology MSC03 2020 I University of New Mexico Albuquerque, NM 87131-0001 (505) 277-3413

February 27, 2004

Dr. Eric S. Loker Chair, Department of Biology The University of New Mexico

Re: The Group of Senior Evolutionary and Behavioral Animal Ecologists (James H. Brown, Eric L. Charnov, Astrid Kodric-Brown, J. David Ligon and Randy Thornhill)

Dear Sam;

This letter represents a synthesis of the sentiments our group has expressed about the future of our program in our meetings and conversations among ourselves and with you. Our group is facing retirement (see details below) and we want the excellent program we have developed here over our careers to continue with Biology's and UNM's priority of new hires in our area of scholarship.

Strong programs of national and international scholarly impact are the goal of universities around the world. Our group has achieved a very high level of national and international recognition. This is seen in the great impact of our published work as measured by citations in the scientific literature. It also is seen in the many fine graduate students and post-doctoral associates our group has attracted to UNM. Some of these people have had accomplished, brilliant carcers in biological research and are among the best biologists produced anywhere. In recognition by UNM of some of the contributions of our group, three of its members are Distinguished Professors, UNM's highest faculty rank and one held by only seven professors across all departments at UNM. It would be short-sighted for the Department of Biology and UNM as a whole not to support the continuation of our successful program.

Some areas of modern biology would have a difficult time achieving the stature of our program because of their high set-up and maintenance costs. Our group has thrived here at UNM despite the monetary constraints on higher education in New Mexico. This shows that scholarship at its best can be achieved on New Mexico's educational budget in our area of expertise, and provides a strong argument for the financial feasibility of the continuation of our program at UNM.

We feel it is critical to the continuation of our program to hire at least three new scholars in our area of animal evolutionary and behavioral ecology. Ideally, the first hire would be a senior person as the strength of our present group could attract an eminent scholar. With the addition of the newly established scholar, our group could serve as a uniquely strong attractant for hiring at least two junior biologists in our area of expertise. Additionally, our department (and UNM) is in an excellent geographical location to provide locally unique resources (e.g., the Sevilleta Field Station) and diverse Dr. Eric S. Loker Chair, Department of Biology, UNM February 27, 2004 Page 2

ecological settings that are not available to most institutions and would be an important attractant to recruit excellent faculty in our area of research.

Potential retirement schedules for our group are as follows: Ligon as early as December, 2004; Thornhill, 2008; Kodric-Brown, 2009; Brown, 2012; and Charnov, 2014. These schedules, however, are just the feelings of the individuals as of last month. Although there is nothing firm in these schedules, they do give some realistic data indicating that we all will probably be retiring within the next 10 years, and more than half of us within the next 5-6 years. Therefore, our position is that there is a need to move forward on the first (senior) hire as soon as possible, followed quickly thereafter with the additional (junior) hires. As our group retires, our department loses attractiveness to both seniorand junior-level biologists in our area of expertise. We also feel that the junior faculty are more likely to develop their full potential in the kind of scholarly environment we now provide, an environment that dwindles with each retirement from our group.

The first retirement in our group will be by David Ligon. His position includes curatorial responsibilities in the MSB Division of Birds. We feel it is critical *not* to tie a senior hire to curatorial duties as this would limit a broad search for an eminent scholar withour restriction to taxon or museum-oriented research interests. We appreciate fully the importance of replacing the curatorial loss of David, and would support the second hire being a bird behavioral ecologist interested in museum-related research and willing to accept curatorial duties. Of course, the top candidate for a senior hire might turn out to be an ornithologist who would fulfill the curatorial needs in the Division of Birds.

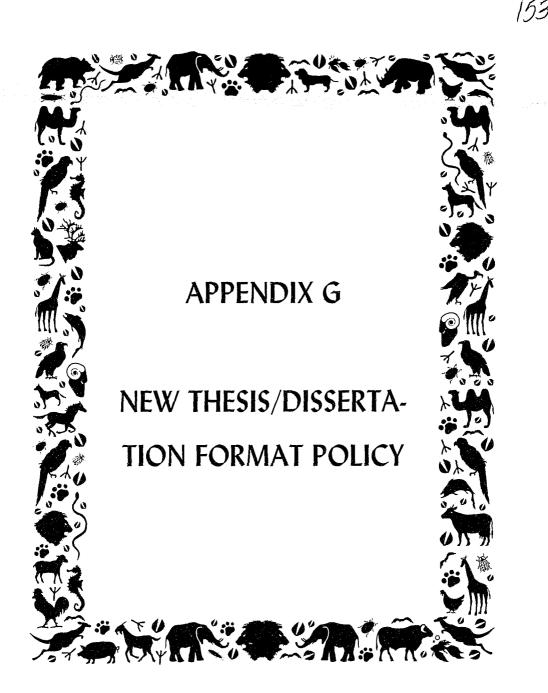
We have identified certain research directions as possible target-hire disciplines within animal evolutionary and behavioral ecology. One is the research domain of communication and signaling, especially in concert with immunology. Another is the organization of social systems. Currently, theoretical and empirical advances in these two disciplines promise synthesis in the near future. We want to emphasize, however, the importance of a broad job description for each new position, one without the implication that only one or a few research topics will be considered.

Thank your for your time and consideration of our proposal.

Sincerely,

Randy Thornhill Distinguished Professor of Biology

RT/aer



PROPOSED POLICY TO FORMALIZE MANUSCRIPT-BASED THESES AND DISSERTATIONS FOR THE BIOLOGY DEPARTMENT

PREPARED BY DRS. SAM LOKER AND ROB MILLER, 17 FEBRUARY 2004

APPROVED BY THE BIOLOGY GRADUATE POLICY COMMITTEE AND FACULTY, 17 FEBRUARY 2004

SUBMITTED TO THE SENATE GRADUATE COMMITTEE ON 19 FEBRUARY 2004

APPROVED AS CONSISTENT WITH POLICIES EXPRESSED IN UNM'S CATALOG ON 19 FEB 2004 BY THE GRADUATE COMMITTEE

The principles underlying this proposed policy are:

1. publishing peer reviewed manuscripts remains the prime measure of scholarship;

2. an environment should be created that encourages graduate students to strive to publish their work;

3. modern biology depends upon collaboration and it is accepted that most graduate students will have colleagues and collaborators that appear as co-authors on their publications;

4. waiting for all work to be published before students can use the manuscript-based style thesis or dissertation will unnecessarily delay awarding of the degree, hence manuscripts in preparation or in review for publication should be included;

5. time is better spent preparing manuscripts for publication rather than writing a traditional style thesis or dissertation, if the intent is to ultimately publish the work; and

6. the approved examination committee is the best judge of the acceptability of the student's work for fulfilling the requirements of the degree.

Proposed Policy on Format for M.S. Thesis and Ph.D. Dissertation in Biology

All Plan I M.S. students and doctoral students are required to prepare a thesis or dissertation respectively, as part of the fulfillment of the degree requirements. There are two acceptable, alternative formats for the thesis or dissertation: the traditional and the manuscript-based. The latter is often referred to in the Department as a "hybrid" thesis or dissertation. Students may opt to use either style. However, approval of which style is used will be obtained from their major professor and the members of their examination or dissertation committee prior to preparing the thesis or dissertation.

For either style, the rules and regulations established by the Office of Graduate Studies (OGS) regarding format (Front Matter, Text, Reference Matter, paper dimensions, margins, etc.) must be adhered to. The OGS guidelines are available at http://www.unm.edu/~grad/manuscripts/guidelines.html.

Traditional Thesis or Dissertation

The traditional thesis or dissertation is a single manuscript, authored solely by the student, presenting original research performed by the student. The text section is typically subdivided into: Introduction, Materials and Methods, Results, Discussion, References, and Appendices (optional).

Manuscript-based Thesis or Dissertation

A manuscript-based thesis or dissertation is a collection of manuscripts or articles formatted for publication and presented as separate chapters of a single thesis or dissertation. This style must satisfy the following guidelines:

1) the articles or manuscripts must report original research that is primarily the student's or to which the student contributed significantly. The student must be the first author on at least one of the manuscripts in their thesis or dissertation. The inclusion of a particular manuscript in the thesis or dissertation will be with the approval of the student's advisor and the members of the examination committee;

2) the manuscripts must be articles published in a peer-reviewed national or international journal and/or manuscripts prepared for publication in a peer-reviewed national or international journal. This guideline allows for a single thesis or dissertation to consist of a mixture of published and unpublished material;

3) the chapters may be in the format style for the journal to which they are intended. However, the student's advisor and the members of the examination committee have the option to require re-formatting of chapters to a single uniform style;

4) the names of all co-authors on multi-authored manuscripts will be included. If one or more of the manuscripts are already published at the time the thesis or dissertation is submitted, the article's citation will be provided at the beginning of each chapter.

5) Students should consult OGS regulations regarding issues related to copyright. Students are responsible for obtaining permission to use a published, copyrighted manuscript in their thesis or dissertation from the journal in which the paper is published. Students are advised to consult the policies of the journal regarding release of copyright for use in theses and dissertations. Many journals openly state in their policies and guides to authors that published manuscripts may be used for theses and dissertations without obtaining additional permission.

6) the completed thesis or dissertation will contain:

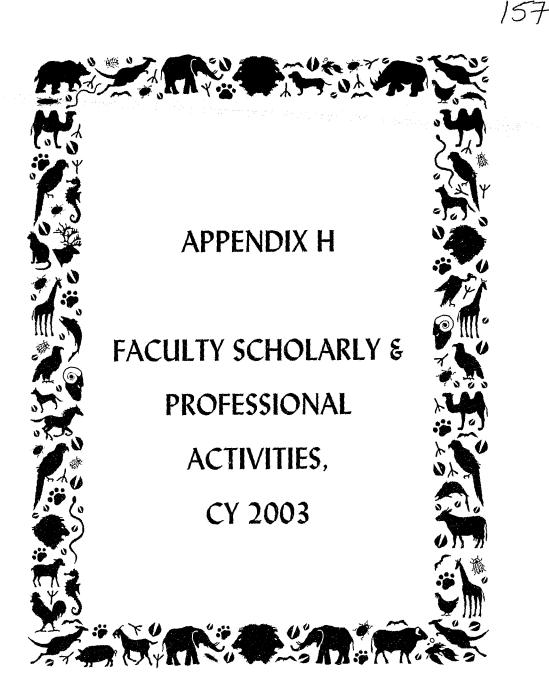
a) an abstract that collectively summarizes the individual manuscripts or chapters;

b) a general introduction that lists the individual manuscripts and describes how each chapter or manuscript relate to a general theme of the thesis or dissertation is recommended. The student should seek the advice of their faculty mentor and members of their thesis examination or dissertation defense committee on the content of the introduction. 156

c) the articles or manuscripts as separate chapters;

d) a conclusion or summary that provides an overview of the collective findings reported in the separate chapters is recommended at the discretion of the committee;

e) an optional appendix containing any additional material that will not be submitted for publication may be included or a literature review section, as appropriate.



UNM DEPARTMENT OF BIOLOGY

FACULTY SCHOLARLY ACTIVITIES & PUBLICATIONS

CY 2003

I. TEACHING.

A. Graduate Education.

I. Masters degrees awarded.

BARTON, L.L.

Spring: YVONNE BISHOP, "Methylotrophy in the Phyllosphere of Plants: Carbon and Iron Translocation in the Presence of Applications of Cytokinins and Production of Siderophores by *Methylobacterium mesophylicum*."

COOK, J.A.

Idaho State University:

- Spring: Michael Lucid, "Phylogeography of Keen's Mouse in a Naturally Fragmented Landscape."
- Fall: Byron Weckworth, "Genetic Variation in Wolves (*Canis lupus*) of the Pacific Northwest."

Aren Eddingsaas, "The Effects of Pleistocene Glacial Processes on Beringia: The Evolutionary History of the Arctic Ground Squirrel (Spermophilus parryii)."

Eric Tomasik, "Mitochondrial Phylogeography and Conservation Genetics of Wolverine (*Gulo gulo*) of Northwestern North America."

CRIPPS, R.M.

Spring: CHRISTINA FRIDRICK, "Identification of Myosin Light Chain 2 as a Target of MEF2 Transcriptional Regulation."

KODRIC-BROWN, A.

Spring: KATHERINE I. HOWARD, "Good Parent Sexual Selection in Feral Pigeons (Columba livia)."

LIGON, J.D.

Summer: BRUCE HAMILTON SMITH, "Song Bird Use of Exotic vs. Native Riparian Vegetation in an Ephemeral Wash, Chaco Canyon, NM."

MARSHALL, D.L.

Summer: ANNE SCHULTZ, "The Galápagos Giant Tortoise and the Spread of Invasive Plants"

Summer: MARIEKEN SHANER, "Effects of Pollen Load Size, Pollen Donor Number and Pollen Quality on Non-random Mating in Wild Radish."

MILLER, R.D.

Spring: ALLISON GREENING (Plan II)

POCKMAN, W.T.

Fall: JULIANA MEDEIROS, "Differences in Growth, Water Use and Hydraulic Constraints on Two Size Classes of *Larrea tridentata*."

SNELL, H.L.

- Spring: ANNE SCHULTZ, "The Galápagos Giant Tortoise (*Geochelone elephantopus*) and the Spread of Invasive Plants."
- Fall: ANDRINA ORTIZ, "Improving Efficiency of Restoration Ecology Programs— Dispersal Patterns of Repatriated Galápagos Tortoises."

TURNER, T.F.

Summer: DOMINIQUE ALÒ, "Genetic Effects of River Fragmentation on the Federally Endangered Rio Grande Silvery Minnow (*Hybognathus amarus*)." Currently a research technician in UNM Biology Dept.

WERNER-WASHBURNE, M.

Spring: Jeb Flemming, Chemical Engineering, UNM

WOLF, B.O.

Fall: RUTH B. SMITH, "Migratory Movements of Hatching-year Sharp-shinned Hawks (Accipiter striatus) and Their Potential Costs."

YATES, T.L.

- Spring: MICHAEL THOMAS FRIGGENS, "Spatio-temporal Dynamics of Rodent Communities on the Sevilleta National Wildlife Refuge."
- Summer: JONATHAN LEE DUNNUM, "Systematics of Bolivian Cavia, with Biogeographic Notes on the Genus."
- 2. Doctors degrees awarded.

ALTENBACH, J.S.

Spring: PAUL CRYAN, "Migration and Thermoregulation Strategies of Hoary Bats (Lasiurus cinereus) in North America." Summer: RICHARD SHERWIN, "Effects of Spatial and Temporal Variation on the Conservation of Townsend's Big-eared Bat."

BROWN, J.H.

Summer: FORD BALLANTYNE IV, "Variance to Mean Scaling of Correlated Individuals in Ecological Populations."

ALICE LING CHUNG-MACCOUBREY, "The Ecology and Genetic Diversity of the Human Parasite Schistosoma mansoni and its Snail Host, Biophalaria."

CHARNOV, E.L.

Spring: WILLIAM ANDREW LARUE, "Manipulation of Bumblebee Foraging Behavior by a Sexually Transmitted Parasite, *Mycorobotrium violaceum*, of Plants in the Genus *Silone*." (A. Kodric–Brown, Co-chair)

CRIPPS, R.M.

Fall: KATHLEEN KELLY, "Transcriptional Regulation of Actin 57B in Drosophila Muscle Development." (M. Werner-Washburne, co-chair)

DAHM, C.N.

Spring: BUXBAUM, CHARLES ALBERT ZACHARY, "Landscape Heterogeneity, Soil Development, Soil Moisture, and the Growth and Distribution of Plants in a Desert-Grassland Transition Zone." (J.R. Gosz, co-chair)

GOSZ, J.R.

Spring: BUXBAUM, CHARLES ALBERT ZACHARY, "Landscape Heterogeneity, Soil Development, Soil Moisture, and the Growth and Distribution of Plants in a Desert-Grassland Transition Zone." (C.N. Dahm, co-chair)

KODRIC-BROWN, A.

- Fall: MAUREEN LEONARD, "Singing on the Nest: A Review and an Experimental Study Examining the Costs and Benefits of this Seemingly Paradoxical Behavior."
- Fall: WILLIAM ANDREW LARUE, "Manipulation of Bumblebee Foraging Behavior by a Sexually Transmitted Parasite, *Mycorobotrium violaceum*, of Plants in the Genus *Silone*." (E.L. Charnov, co-chair)

LIGON, J.D.

Spring: JENNIFER A. HILL, "Sexual Selection in Golden Pheasants: Female Mate Choice, Male-Male Competition, and Growth of Chicks."

LOKER, E.S.

Summer: RANDY DEJONG, "Phylogeography and Genetic Diversity of the Human Parasite Schistosoma mansoni and its Snail Host, Biomphalaria."

LOWREY, T.K.

Fall: LAURA BOYKIN, "Phylogeny and Evolutionary Biology of Orcutticae (Poaceae; Chloridoideae): Analysis of Radiation into a Unique Amphibious Environment."

MILNE, B.T.

Summer: Andrew P. Allen, "???."

MOLLES, M.C. JR.

Summer: KIM D. EICHHORST, "Effects of Ozone on Cottonwood Leaf Chemistry and Herbivore Response in Different Flooding Regimes."

SNELL, H.L.

Spring: ANDRÉS GARCIA AGUAYO, "Biogeography, Ecology, and Conservation of Tropical Dry Forest Herptofauna of Western México."

TURNER, T.F.

Summer: MEGAN V. MCPHEE, "Dominance and Invasive Species: The Roles of Dispersal and Body Size in the Displacement of a Native Fish by an Introduced Congener." Currently post-doctoral research associate at UC-Irvine.

WERNER-WASHBURNE, M.

Spring:	Bryan Alexander, Cell Biology, UNM
Summer:	Guy Brock, Math, UNM

KATHLEEN KELLX, "Transcriptional Regulation of Actin 57B in Drosophila." (C.R. Cripps, co-chair)

YATES, T.L.

Summer: GABOR ROBERT RACZ, "The Effect of Forest Fragmentation on the Distribution of Zoonotic Disease with Special Reference to the Hantavirus."

 Bona fide graduate courses and number of students enrolled. Indicate new courses (for you) with an asterisk.

BARTON, L.L.

Spring :	* Biol. 502, ST/Bacterial Genomes, 4 students
	Biol. 551, Research Problems, 2 students
	Biol. 699, Dissertation, 1 students
Fall:	Biol. 502, Pathogenic Bacteria, 4 students
	Biol. 551, Research Problems, 1 student
	Biol. 699, Dissertation, 1 student

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BROWN, J.H.

Spring:	

Fall:

Biol. 551, Research Problems, 3 students Biol. 699, Dissertation, 6 students Biol. 503, Biocomplexity Seminar, 20 students

Biol. 511, Community Ecology, 19 students

Biol. 551, Research Problems, 2 students

Biol. 699, Dissertation, 8 students

CADAVID, L.F.

Spring:	Biol. 556, Immunology, 4 students
	Biol. 502, ST/Evolution of the Immune System, 4 students
Fall:	* Biol. 429, Molecular Cell Biology I, 2 students
	Biol. 502, ST/Evolution of the Immune System, 4 students

CHARNOV, E.L.

Spring:	Biol. 565, Sociobiology and Evolutionary Ecology, 12 students
Fall:	Biol. 502, ST/Evolutionary Ecology, 7 students
	Biol. 516, Basic Graduate Ecology, 6 students

COLLINS, S.L.

Fall:	Biol. 516,	Basic Graduate	Ecology	(25%), 7	students
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COOK, J.A.

Idaho State	University:
Spring:	Biol. 599, Molecular Evolution, 3 credits
Fall:	Biol. 659, Advanced Topics in Genetics, 3 credits

CRIPPS, R.M.

Fall: Biol. 597, Principles of Gene Expression, 6 students

DAHM, C.N.

Spring:	Biol. 495, Limnology, 5 students
	Biol. 496L, Limnology Lab, 2 students
	Biol. 502, Freshwater Sciences IGERT Seminar, 12 students
	* Biol./EPS 535, Freshwater Ecosystems, 20 students (11 UNM and 9
	University of Alabama)
Fall:	Biol. 502, Freshwater Sciences IGERT Seminar, 10 students
	Biol. 514, Ecosystem Studies, 8 students
	Biol./EPS 558, Geomicrobiology, 19 students (11 UNM and 8 University of
	Alabama)

FAGUY, D.M.

Spring:	Biol. 502-025, ST/Archaeal Biology, 3 students
Fail:	Biol. 502-025, ST/Archaeal Biology, 4 students

GOSZ, J.R.

Spring: Biol. 514, Ecosystem Studies, 8 students Biol. 575, Desert Field Biology, 2 students

HOFKIN, B.V.

Spring: * Biol. 450/Biomed. 472, approx. 5 graduate students, a total of 69 students

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KODRIC-BROWN, A.

Spring: Biol. 502, ST/Problems in Behavioral Ecology, 3 students Biol. 551, Research Problems, 3 students

LOKER, E.S.

Spring:	Biol. 502, ST/Parasites and Hosts, 3 students
	Biol. 699, Dissertation, 2 students (Lynn Hertel and Thomas Nowak)
Fall:	Biol. 502, ST/Parasites and Hosts, 2 students (co-taught with D.W. Duszynski)
	Biol. 551, Research Problems (Nirvana Dunsdon)
	Biol. 699, Dissertation, 2 students (Lynn Hertel and Thomas Nowak)
Note:	Each semester every week several postdocs and technicians attend Biol. 502.

LOWREY, T.K.

Spring:	Biol. 561, Tropical Biology, 2 students
	Biol. 699, Dissertation Research, 2 students

MARSHALL, D.L.

Fall: Biol. 502, ST/Plant Ecology, 6 students

MILLER, R.D.

Spring:	Biol. 502, ST/Immunology Letters, 1 student
Fall:	Biol. 556, Immunology, 7 students
	Biol. 502, ST/Graduate Immunology, 5 students

MILNE, B.T.

 Spring:
 Biol. 503, Biological Complexity Seminar, 20 students (co-instructor with Jim Brown)

 Fall:
 Biol. 503, Biological Complexity Seminar, 15+ students (co-taught with Prof. Kenkre of UNM Physics & Astronomy)

MOLLES, M.C. JR.

- Spring: *Biol. 502, ST/Ecology of Deserts and Grasslands, 5 students (with Loren Potter)
- Fall: Biol. 507, Bosque Biology, 6 students

NATVIG, D.O.

Spring: Biol. 502, ST/Graduate Core Course in Evolution, 15 students

Fall:

Biol. 502, ST/Advanced Fungal Genetics, 1 student (1 cr) Biol, 699, Dissertation, 1 student (Amy Ditto, 6 cr)

Biol. 502, ST/Advanced Fungal Genetics, 1 student (1 cr)

Biol. 551, Research Problems, 2 students (C. Kitchen, 11 cr; J. Garcia, 3 cr)

Biol. 699, Dissertation, 1 student (Amy Ditto, 6 cr)

NELSON, M.A.

Spring: Biol. 425, Molecular Genetics, 21 total students * Biol. 502, ST/Genome Biology, 2 students

POCKMAN, W.T.

Spring: Biol. 571, Plant Physiological Ecology, 7 students

SINSABAUGH, R.L.

Spring:	* Biol. 402/502, ST/Soil Ecology, 13 students, 3 credits
	* Biol. 402/502, ST/Interactivity of Dissolved Organic Matter, 4 students,
	3 credits
Fall:	* Biol. 516, Introduction to Ecology, 6 students, 4 credits; taught 1/4 of the
	course
	Biol. 551, Research Problems, Marcy Gallo, 1 credit

SNELL, H.L.

Spring:	Biol. 551, Research Problems, 3 students
	Biol. 599, Master's Thesis, 1 student
	Biol. 699, Dissertation, 1 student
Fall:	Biol. 551, Research Problems, 2 students
	Biol. 599, Master's Thesis, 1 student
	Biol. 699, Dissertation, 2 students

STRICKER, S.A.

Spring: Biol. 502, ST/Fertilization Biology, 1 student Biol. 547, Advanced Techniques in Light Microscopy, 6 students

TAKACS-VESBACH, C.

Spring:	* Biol. 451, Microbial Ecology, 6 students
Fall:	* Biol. 546, Laboratory Methods in Molecular Biology, 3 students

THORNHILL, R.

Spring:	Biol. 517, Basic Graduate Evolution, 10 students
Fall:	Biol. 502, ST/Evolutionary Problems, 10 students

TOOLSON, E.C.

Spring:	Biol. 502, ST/Ecology Seminar, 2 students
Fall:	Biol. 502, ST/Ecology Seminar, 4 students

TURNER, T.F.

Fall:	Biol. 502-003, ST/EEI Seminar, 6 students
	* Biol. 502-025, ST/Molecular Ecology and Evolution, 9 students

WAGNER, A.

Spring: Biol. 537, Evolutionary Genetics (3 cr.), 16 students Biol. 502, ST/Genome Biology, 9 students

WERNER-WASHBURNE, M.

 Spring:
 On sabbatical

 Fall:
 Biol. 502, ST/Genomics, 2 students (taken with Biol. 544, Genomic Analysis)

 Biol. 544, Genomic Analyses, 15 students (taken with Biol. 502, ST/Genomics)

 This was a complete modification of the course I taught before. This was a literature-based, not a computational course.

WOLF, B.O.

- Fall: Biol. 516, Ecology Graduate Core (3), team-taught with E.L. Charnov, S.L. Collins, and R.L.Sinsabaugh, 6 students
- 4. Your service on graduate student committees, not as chair, in semester oral exam was given.

BARTON, L.L.

Chiling Lu, Ph.D. student in the Department of Chemistry, UNM, January 28.

Nick Rubie, Ph.D. student in the Department of Chemistry, UNM, April 30.

CADAVID, L.F.

ZULY PARRA, M.S., Committee of Studies WADE WILSON, Ph.D., Committee of Studies APRIL WRIGHT, M.S., Committee of Studies

COLLINS, S.L.

Committee member for an Arizona State University graduate student who defended his thesis in November.

DAHM, C.N.

Spring:	CHUCK BUXBAUM (Jim Gosz, advisor), Ph.D. Final Exam
• -	Jim Karner, (Jim Papike, advisor), Ph.D. Final Exam
	JENNIFER FOLLSTAD SHAH, (Cliff Dahm, advisor), Comprehensive Exam
Summer:	JON DUNNUM, (Terry Yates, advisor), M.S. Final Exam
	DAVID TINNIN, (Terry Yates, advisor), M.S. Final Exam
Fall:	Thibault Datry, (Janine Gibert, advisor), Ph.D. Final Exam (examiner for
	dissertation at Claude Bernard University, Lyon, France)
	MARY HARNER, (Manuel Molles, advisor), Comprehensive Exam

HANSON, D.T.

Fall: JULIANA MEDIEROS

HOFKIN, B.V.

Spring:	ALI GREENING, M.S. (chair: R.D. Miller)
Fall:	STEPHEN LONG, M.S. (chair: D.M. Faguy)

MARSHALL, D.L.

Spring:	KIM D. EICHHORST, Ph.D.
Fail:	Andrina Ortiz, M.S.
	Juliana Medieros, M.S.

MILLER, R.D.

Spring:	Chris Allen, Ph.D. defense (Jac Nickoloff, Molecular Genetics and Micro-
	biology)
	RANDALL DEJONG, Ph.D. defense (Eric S. Loker, advisor)
Fall:	KATHLEEN KELLEY, Ph.D. defense (Richard Cripps, advisor)
	STEVEN LONG, M.S. examination (David Faguy, advisor)

External Reader on doctoral thesis: Lauren Young, University of Western Sydney, Australia, "Cellular Immune Responses of Marsupials" (E. Deane, advisor) 166

MILNE, B.T.

HEATHER BATEMAN; REESE BRAND PHILLIPS

MOLLES, M.C. JR.

PAUL CRYAN, Dissertation Defense, March 14.

REESE BRAND PHILLIPS, Comprehensive Exam, November 21.

NATVIG, D.O.

Spring: CHRISTINA FRIDRICK, Master's defense committee

NELSON, M.A.

Spring: CHRISTINA FRIDRICK, Master's defense

POCKMAN, W.T.

MARY HARNER, oral exam, September 22 MATTHEW LUCK, oral exam, October 27

SINSABAUGH, R.L.

Chelsea Crenshaw, Ph.D. student, UNM Jared Deforest, Ph.D. student, University of Michigan Kristi Judd, Ph.D. student, University of Michigan Maceo Martinet, Ph.D. student, UNM Lydia Zeglin, Ph.D. student, UNM

WERNER-WASHBURNE, M.

Bryan Alexander, Cell Biology, UNM
Helen Baca, Chemical Engineering, UNM
Jeb Flemming, Chemical Engineering, UNM
Guy Brock, Math, UNM
KATHLEEN KELLY, Biology, UNM

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.).

BARTON, L.L.

RICHARD PLUNKETT:

- First Place Award for an Oral Presentation, 12th Annual Research Day, Department of Biology, UNM, April 4.
- First Place Award for Graduate Students, Rio Grande Branch of American Society for Microbiology, Albuquerque NM, February 15.
- Presented a 30-minute oral presentation at an invited symposium on Sulfate-Reducing Bacteria at the 103rd General Meeting of the American Society for Microbiology, Washington DC, May.

BROWN, J.H.

ANDERSON, KRISTA: Attended the International Biogeography Society Symposium, January.

Anderson, K.A. 2003. Latitudinal trends in energy expenditure of endotherms. Annual Meeting of the Ecological Society of America, Savannah GA, August.

BOYER, ALISON:

Boyer, A.G., R.E. Swearingen, M.A. Blaha, C.T. Fortson, S.K. Gremillion, K.A. Osborn and M.D. Moran. 2003. Seasonal variation in top-down and bottom-up processes in a grassland arthropod community. *Oecologia* 136:309-316.

"Effects of Fire on Plants in an Arkansas Relict Grassland," Annual Meeting of the Ecological Society of America, Savannah GA, August.

BRAGG, JASON:

"Nitrogen Versus Carbon Use in Prokaryotic Genomes and Proteomes," Comparative Ecology Lab (Prof. Mark Westoby's lab), Macquarie University, Sydney, Australia, August 7. GELUSO, KEITH:

Best, T. L., K. Geluso, J. L. Hunt and L. A. McWilliams. 2003. The lesser prairie chicken (*Tympanuchus pallidicinetus*) in southeastern New Mexico: A population survey. *Texas Journal of Science* 55:225-234.

Geluso, K., M.A. Bogan and L. Harding. 2003. Mammal inventories of selected parks in the southern Colorado Plateau network. Annual Report for FY2002 to the National Park Service, Flagstaff AZ. 12 pp. plus figures and tables.

Geluso, K.N. and K. Geluso. In press. Mammals of Carlsbad Caverns National Park, New Mexico. Bulletin of the University of Nebraska State Museum, Lincoln NE.

Geluso, K., J. A. White and M. A. Bogan. In press. Least shrew (Cryptotis parva) in extreme west-central Nebraska. Transactions of the Nebraska Academy of Sciences.

Geluso, K., J.J. Huebschman, J.A. White and M.A. Bogan. In press. Reproduction and seasonal activity of silver-haired bats (*Lasionycteris noctivagans*) in western Nebraska. *Western North American Naturalist.*

Geluso, K. In press. Distribution of the white-ankled mouse (*Peromyscus pectoralis*) in New Mexico. *The Southwestern Naturalist*.

Geluso, K., J.D. Hoffman, V.A. Ashe, J.A. White and M.A. Bogan. In review. Westward expansion of the tawny-bellied cotton rat (*Sigmodon fulviventer*) in west-central New Mexico. *Southwestern Naturalist.*

Geluso, K. 2003. Westward expansion of the castern fox squirrel (*Sciurus niger*) in northcastern New Mexico and southeastern Colorado. 50th Annual Meeting of the Southwestern Association of Naturalists, Norman OK, April.

White, J.A. and K. Geluso. 2003. Light intensity and onset of surface activity in the nocturnal rodent, Ord's kangaroo rat (*Dipodomys ordii*). 50th Annual Meeting of the Southwestern Association of Naturalists, Norman OK, April.

Geluso, K., J.J. Huebschman, J.A. White and M.A. Bogan. 2003. Reproduction and seasonal activity of silver-haired bats (*Lasionycteris noctivagans*) in western Nebraska. 33rd Annual Meeting of the North American Symposium for Bat Research, Lincoln Nebraska, October.

Geluso, K. 2003. "What Do Bats Do in Winter?", Winter Bird and Bat Festival, Rio Grande Nature Center State Park, NM, January.

Geluso, K. 2003. Session Moderator, Mammals. 50th Annual Meeting of the Southwestern Association of Naturalists, Norman OK, April.

GOHEEN, JACOB:

Goheen, J.R. and R.K. Swihart. 2003. Foraging behavior of gray squirrels and North American red squirrels in the central hardwoods: Implications for forest regeneration. *Canadian Journal of Zoology* 81:1636-1639. DeWoody, Y.D., R.K. Swihart, B.A. Craig, and J.R. Goheen. 2003. Diversity and stability in communities structured by asymmetric resource allocation. *American Naturalist* 162:514-527.

Goheen, J.R., R.K. Swihart, T.M. Gehring and M.S. Miller. 2003. Forces structuring tree squirrel communities in fragmented landscapes: species differences in forest connectivity and carrying capacity. *Oikos* 102:95-103.

Goheen, J.R., R.K. Swihart and J.H. Robins. 2003. The anatomy of a range expansion: Changes in cranial morphology and rates of energy extraction for North American red squirrels from different latitudes. *Oikos* 102:33-44.

Goheen, J.R., G.A. Kaufman, and D.W. Kaufman. 2003. Effect of body size on reproductive characteristics of the northern grasshopper mouse in north-central Kansas. *Southwestern Naturalist* 48:427-431.

Swihart, R.K., T.C. Atwood, J.R. Gohcen, D. Scheiman, K. Munroe and T.M. Gehring. 2003. Patch occupancy of North American mammals: Is patchiness in the eye of the beholder? *Journal of Biogeography* 30:1259-1279.

Goheen, J.R., E. Keesing, B.F. Allan, D. Misurelli-Ogada and R.S. Ostfeld. In press. Net effects of large mammals on Acacia seedling survival in an African savanna. *Ecology*.

Graduate, Santa Fe Institute's Complex Systems Summer School. Anna M. Jackson Award, American Society of Mammalogists, \$600. Grant-in-Aid of Research, American Society of Mammalogists, \$1,250. Research Grant, Graduate Resource Allocations Committee, UNM, \$200.

HURLBERT, ALAN:

Hurlbert, A.H. and J.P. Haskell. 2003. The effect of energy and seasonality on avian species richness and community composition. *American Naturalist* 161:83-97.

Conducted fieldwork at the Smithsonian Institution's Barro Colorado Island Biological Field Station in Panama, WHEN?

LEASE, HILARY:

Meehan, T.D., H.M. Lease and B.O. Wolf. (Submitted.) Negative indirect effects of an avian insectivore on the fruit set of an insect-pollinated herb. *Oecologia*.

Moses, M.E. and H.M. Lease. 2003. Ant energetics-The scaling of foraging costs with colony size. Annual Meeting of the Ecological Society of America, Savannah, GA, August.

Lease, H.M. 2003. Measuring insect breath: How exhalations of ants vary with body size. Annual Meeting of the Southwestern Association of Biologists, Portal AZ, September.

Part-time GIS assistant on a UNM biocomplexity project with the goal of creating a global bird distribution database, May-September.

THIBAULT, KATHERINE:

Adams, R.A., S.C. Pedersen, K.M. Thibault, J. Jadin and B. Petru. 2003. Calcium as a limiting resource to insectivorous bats: Can water holes provide a supplemental mineral source? *Journal of Zoology* 260:189-194.

WHITE, ETHAN:

Allen, A.P. and E.P. White. 2003. Interactive effects of range size and plot area on speciesarea relationships. *Evolutionary Ecology Research* 5:493-499.

White, E.P. In press. Two-phase species-time relationships in North American land birds. *Ecology Letters*.

White, E.P. In press. Factors affecting bat house occupancy in Colorado. The Southwestern Naturalist.

White, E.P. 2003. The species-time relationship in North American breeding birds: A twophase approach. Annual Meeting of the Southwestern Association of Biologists, Portal AZ, September:

White, E.P. 2003. The species-time relationship in birds: A two-phase approach. LTER All Scientists Meeting, Seattle WA, September.

White, E.P. 2003. A two-phase approach to the species-time relationship. Annual Meeting of the Ecological Society of America, Savannah GA, August.

White, E.P. 2003. Geographic patterns of temporal turnover and the species-time relationship. Annual Meeting of the International Society of Biogeography, Mesquite NV, January.

CADAVID, L.F.

RYAN S. SCHWARZ, Ph.D.: Spring: GRAC Fellowship, SRAC Fellowship Summer: Grove Scholarship

DAHM, C.N.

JENNIFER FOLLSTAD SHAH received an EPA Minority Academic Institution Fellowship for \$25,713 to support her Ph.D. research.

FAGUY, D.M.

ARMAND DICHOSA, SRAC and GRAC awards, "The isolation of the ftsZ gene from Methanospirillum hungatei."

KODRIC-BROWN, A.

LISA SCHWANZ: Grants from UNM: BGSA, Fall and Spring; GPSA, Fall and Spring; Grove Summer Research Grant; Graduate Research and Development Fund.

CYNTHIA TECH:

Grants: Graduate Research Development Fund (with K. Howard); Animal Behavior Society Graduate Research Grant.

KAREN GAINES:

Grants: Boesel–Sanderson Award, North American Benthological Society; Aquatic Ecology Section Travel Grant, Ecological Society of America; Graduate Studies Scholarship, UNM; BGSA Travel and Research Grants; Grove Research Award.

Presentations as Sole Author:

Poster presentation, "Islands of Water, Oceans of Land: Are the Diversities of Larval Dragonfly Communities Consistent with Island Biogeography Theory Predictions?, International Biogeography Society Meeting, Mesquite NV, January.

Oral presentation, "Why Isn't Everyone Everywhere? Ecological Factors Driving Larval Odonate Diversity and Distribution Patterns in a Desert Sinkhole Complex," Annual Meeting of the North American Benthological Society, Athens, GA, May.

Oral presentation, "Does Size Really Matter? Ecological Factors Driving Larval Odonate Diversity and Distribution Patterns in a Desert Sinkhole Complex in New Mexico, USA," The Third Symposium of European Freshwater Science, Edinburgh, Scotland, July.

Oral presentation, "Does Size Really Matter? Factors Affecting Larval Odonate Diversity Patterns in a Desert Sinkhole Complex," Annual Meeting of the Ecological Society of America, Savannah GA, August 1-5.

LOWREY, T.K.

LAURA BOYKIN: Grants: Grove Summer Research Fellowship, Department of Biology, UNM,2003, \$800 Travel Grant, Monocot Conference, 2003, \$300

PAULA HALL: Grants: Graduate Resource Allocations Committee, Dept. of Biology, UNM, Fall, \$250 Graduate Resource Development, Spring, UNM, \$4,907.02 Grove Summer Research Scholarship, UNM, Summer, \$800 UNM, Student Resource Allocations Committee, GPSA, Fall, \$400

International Travel: Monterrey, Mexico for collecting of *Callirhoe involucrata* var. *tenuissima* for dissertation research.

Domestic Travel: New Mexico and Texas for collection of *Callirhoe* sp. for dissertation research.

JOANNA REDFERN: Grants: GRAC, Department of Biology, UNM, Spring, \$75 Springfield Fellowship, Department of Biology, UNM, Spring, \$2,000 Sevilleta/NSF Summer Research Fellowship, Summer, \$4,000 SRAC, GPSA, UNM, Fall, \$150 GRAC, Department of Biology, UNM, \$100

Field Research:

Anza Borrego Desert State Park CA, March 17–23, 2003 for collecting. Big Bend National Park TX, July 21-27, 2003 for collecting. Sevilleta National Wildlife Refuge NM, June–August 2003, for research and collecting.

MARSHALL, D.L.

JERUSHA REYNOLDS, presented a paper at the 2003 Annual Meeting of the Society for the Study of Evolution.

HEATHER SIMPSON, attended a Fall national meeting on the biology of weedy and invasive plants.

MILNE, B.T.

ANDREW P. ALLEN: Allen, A.P. and E.P. White. 2003. Effects of range size on species-area relationships. *Evolutionary Ecology Research* 5:493-499.

Allen, A.P., J.H. Brown and J.F. Gillooly. 2003. Global biodiversity, biochemical kinetics, and the energetic-equivalence rule Science 297:1545-1548.

Belgrano, A., A.P. Allen, B.J. Enquist and J.F. Gillooly. 2002. Allometric scaling of maximum population density: a common rule for marine phytoplankton and terrestrial plants *Ecology Letters* 5:611-613.

Enquist, B.J., E.P. Economo, T.E. Huxman, A.P. Allen, D.D. Ignace and J.F. Gillooly. 2003. Scaling metabolism from organisms to ecosystems. *Nature* 423:639-642.

KRISTA ANDERSON (co-advised with J. H. Brown): Anderson, K.A. 2003. Latitudinal trends in energy expenditure of enotherms. Annual Meeting of the Ecological Society of America, Savannah GA, August 1-5.

ANDREW J. KERHOFF (work completed while at UNM): Kerkhoff, A.J. and F. Ballantyne. 2003. The scaling of reproductive variability in trees. *Ecology Letters* 6:850-856.

MELANIE MOSES:

Moses, M.E. and J.H. Brown. 2003. Allometry of human fertility and energy use. *Ecology Letters* 6 (4), 295-300.

Presentation at 18th Annual Symposium, International Association of Landscape Ecology, Banff, Alberta, Canada, April 2-6.

HORACIO SAMANIEGO:

Presentation at 18th Annual Symposium, International Association of Landscape Ecology, Banff, Alberta, Canada, April 2-6.

MOLLES, M.C. JR.

KAREN GAINES:

Presented a paper at the North American Benthological Society (NABS) meeting in Athens GA, June.

MARY HARNER:

Submitted NSF Dissertation Improvement Grant. Presented a paper at the North American Benthological Society (NABS) meeting in Athens GA, June.

TERESA TIBBETS:

Worked in the Laboratory of Dr. Isabel Pardo, University of Vigo, Spain, Fall. Awarded a MARC fellowship to for her graduate studies in Bosque Biology. Presented a paper at the North American Benthological Society (NABS) meeting in Athens GA, June.

NELSON, M.A.

HARRIETT PLATERO: received an award from the NM Alliance for Graduate Education & the Professoriate.

POCKMAN, W.T.

ALEA N. TRAFTON. Water Transport Limits of Native and Non-native Riparian Trees along The Middle Rio Grande. General Research Project Grant, Graduate Research Development Fund, GPSA, UNM,\$1,846, April.

ALEA N. TRAFTON. Water Transport Limits of Native and Non-native Riparian Trees along the Middle Rio Grande. Grove Research Scholarship, Department of Biology, UNM, \$800, July.

JULIANA MEDEIROS. Differences in Growth, Water Use and Hydraulic Constraints on Two Size Classes of *Larrea Tridentata*. Summer Fellowship from Sevilleta LTER, Department of Biology, UNM, \$3,600, June.

SNELL, H.L.

HEATHER BATEMAN: UNM Latin American Institute Field Travel Grant, UNM, \$1,500, Summer. Language training in Quito, Ecuador, May. Dissertation research in the Galápagos Islands, May –August.

ANDRINA ORTIZ: Office of Graduate Studies Fellowship, UNM,\$3,600, Spring. "Improving Efficiency of Restoration Ecology Programs—Dispersal Patterns of Repatriated Galápagos Tortoises," 12th Annual Research Day, Department of Biology, UNM, April 4. Reviewed 30+ proposals for SRAC competition, UNM. 1'74

"Aspiring to Affect the Future," Annual Meeting of New Mexico Alliances for Graduate Education and the Professoriate (NM-AGEP), Socorro, NM, September.

"30 Years at the Crossroads: Merging Disciplines & Advancing Diversity," Annual Meeting of Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Albuquerque NM, October.

"Improving Efficiency of Restoration Ecology Programs—Dispersal Patterns of Repatriated Galápagos Tortoises", Brown Bag Seminar, Department of Biology, UNM, November.

TOMAS GIERMAKOWSKI:

Dissertation research in the Galápagos Islands, March.

Giermakowski, J.T., J.N. Stuart and J.E. Ubelaker. 2003. Geographic distribution: Bufo punctatus (Red-spotted Toad). Herpetological Review 34:380.

Giermakowski, J.T. and A.W. Lamb. 2003. Geographic distribution: Chelydra serpentina (Common Snapping Turtle). Herpetological Review 34:382.

TURNER, T.F.

GREGORY R. MOYER, Ph.D. (post-doc) Peer-reviewed Publications:

Moyer, G., and C. Krajewski. Phylogenetic relationships of thorny catfishes (Siluriformes: Doradidae) inferred from molecular and morphological data. *Zoological Journal of the Linnean Society*, in press.

Moyer, G., and N. Billington. A survey of genetic variation among yellow perch (*Perca flaves*cens) populations determined from allozyme and mitochondrial DNA data. *Third International Percid Symposium*, in press.

Awards:

SIUC-Richard E. Blackwelder Award (presented for conspicuous development as a scholar, dedication to research, outstanding teaching, meritorious publication or presentation, or leadership), Spring 2003.

MEGAN J. OSBORNE, Ph.D. (post-doc) Reviewer, Rio Grande silvery minnow broodstock management plan, U.S. Fish and Wildlife Service.

Panelist, scientific advisory panel on development of a broodstock management plan for Rio Grande silvery minnow, U.S. Fish and Wildlife Service.

ALLISON A. PEASE, M.S. candidate Presentation: "Microhabitat use and spatial distribution of larval and juvenile fishes in the Middle Rio Grande, New Mexico," Desert Fishes Council Annual Meeting, Furnace Creek Ranch, Death Valley National Park, CA, November 22, 2003.

ROBERT K. DUDLEY, Ph.D. candidate

Provided peer review for journal articles in the Journal of Arid Environments and the Southwestern Naturalist.

Member, Upper Rio Grande Basin Water Operations (URGWOPS) Aquatic Habitat Committee.

Member, Rio Grande silvery minnow Recovery Team.

Reports:

Dudley, R.K., S.J. Gottlieb and S.P. Platania. 2003. 2002 Population monitoring of Rio Grande silvery minnow, *Hybognathus amarus*. Report to U. S. Bureau of Reclamation, 53 pp.

Platania, S.P. and R.K. Dudley. 2003a. Summary of the biology of Rio Grande silvery minnow, an endangered species in the Middle Rio Grande, New Mexico. Report prepared for the Office of the Governor, State of New Mexico, and the McCune Charitable Foundation, 30 pp.

Platania, S.P. and R.K. Dudley. 2003b. Spawning periodicity of Rio Grande silvery minnow, *Hybognathus amarus*, during 2002. Report to U. S. Bureau of Reclamation, 42 pp.

Platania, S.P., M.A. Farrington, W.H. Brandenburg, S.J. Gottlieb and R.K. Dudley. 2003. Movement patterns of Rio Grande silvery minnow, *Hybognathus amarus*, in the San Acacia Reach of the Rio Grande during 2002. Report to U. S. Bureau of Reclamation, 31 pp.

Invited Presentation:

Dudley, R.K. and S.P. Platania. 2003. Summary Rio Grande silvery minnow life history and conservation status. Invited presentation given to tribal leaders representing Middle Rio Grande Pueblo Nations, U.S. Fish and Wildlife Field Office, Albuquerque, New Mexico, February 7, 2003.

MELANIE S. EDWARDS, Ph.D. candidate Awarded doctoral dissertation improvement grant (DDIG), National Science Foundation, 2003.

Awarded Grove Doctoral Fellowship, Fall 2003.

HUGO MAGAÑA, Ph.D. student Peer-reviewed publication: Magaña, H.A., C. Contreras and T.A. Villareal. 2003. An assessment of *Karenia brevis* in the western Gulf of Mexico. *Harmful Algae* 2(3):158-163.

Committees:

Middle Rio Grande Endangered Species Act Collaborative Program Science Subcommittee (USFS alternate)

Grants:

U.S. Army Corps of Engineers, Los Lunas Habitat Restoration, MIPR Grant 04-IA-11221602-306, \$6,000.

U.S. Bureau of Reclamation, Los Lunas Habitat Restoration, Interagency Acquisition 02-AA-40-6800, \$5,500.

Volunteer Work:

National Hispanic Cultural Center, Jardines del Bosque, June 2003.

U.S. Bureau of Reclamation, Rio Grande silvery minnow egg transport study, Dr. Michael Porter.

HEATHER PARMETER, M.S. candidate Received Student Research Allocations Committee Grant Award, Fall 2003. Received Graduate Research Allocations Committee Grant Award, Fall 2003. Graduate Representative for the Building Master Plan Steering Committee.

WADE D. WILSON (Ph.D. student) Co-President, Biology Graduate Student Association

Attended Desert Fishes Council Meeting, Death Valley, CA, November 2003.

Peer-reviewed Publication:

DeJong, R.J., J.A.T. Morgan, W.D. Wilson, M.H. Al-Jaser, C.C. Appleton, G. Coulibaly, P.S. D'Andrea, M.J. Doenhoff, W. Haas, M.A. Idris et. al. 2003. Phylogeography of *Biomphalaria glabrata* and *B. pfeifferi*, important intermediate hosts of *Schistosoma mansoni* in the New and Old World tropics. *Molecular Ecology* 12:3041-3056.

WAGNER, A.

MICHAEL FULLER:

Fuller, M.M., T.N. Romanuk and J. Kolasa. Submitted. Community structure and metacommunity dynamics of aquatic invertebrates: A test of the Neutral theory. *The American Naturalist*.

Invited Lecture: Tropical Forest Community Dynamics: the Scale of Neutrality. Presented at the Enquist Lab, University of Arizona, Tucson AZ.

Fall: Stipend and tuition waiver from NSF Biocomplexity RTG (PIs: J.H. Brown and B.T. Milne, Dept. of Biology, UNM).

WERNER-WASHBURNE, M.

JUANITA MARTINEZ, third year continuation of Minority Post-Doc.

B. Undergraduate Education. Bona fide undergraduate courses taught each semester and number of students enrolled. Indicate new course (for you) with an asterisk.

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ALTENBACH, J.	S
Fall:	Biol. 386L, General Vertebrate Zoology, 40 students
Spring:	*Biol. 121L, Principles of Biology, Special Hewlett Cluster Section, 25 students
BARTON, L.L.	
Spring:	Biol. 400, Senior Honors Thesis, 2 students * Biol. 402, ST/Bacteria Genomes, 16 students Biol. 460, Microbial Physiology, 60 students Biol. 499, Undergraduate Problems, 1 student
Summer: Fall:	Biol. 499, Undergraduate Problems, 1 students Biol. 499, Undergraduate problems, 2 students Biol. 351, General Microbiology, 80 students Biol. 402, ST/Pathogenic Bacteria, 14 students Biol. 499, Research Problems, 1 student
CADAVID, L.F.	
Spring:	Biol. 456, Immunology, 66 students
Fall:	Biol. 402, Evolution of the Immune System, 4 students * Biol. 429, Molecular Cell Biology I, 33 students
	Biol. 402, ST/Evolution of the Immune System, 4 students
CHARNOV, E.L.	
Spring:	Biol. 465, Sociobiology and Evolutionary Ecology, 18 students
COOK, J.A.	
Idaho State Un	•
Spring:	Biol. 499, Molecular Evolution, 3 credits, 3 students
COUCH, L.	
Spring:	Biol. 123, Biology for Health-related Sciences and Non-majors, 150 students Biol. 239L, Microbiology for Health Sciences and Non-majors, 75 students
Fall:	Biol. 239L, Microbiology for Health Sciences and Non-majors, 150 students
CRIPPS, R.M.	
Spring:	*Biol. 412, Developmental Biology, 90 students
Fall:	Biol. 497, Principles of Gene Expression, 25 students
DAHM, C.N.	
Spring:	Biol. 495, Limnology, 10 students Biol. 496L, Limnology Lab, 4 students

FAGUY, D.M.	
Spring:	Biol. 351, General Microbiology, 95 students
Fall;	Biol. 402, ST/Archaeal Biology, 3 students Biol. 400, Senior Honors Thesis, 2 students Biol402-025, ST/Archaeal Biology, 2 students
FRIDRICK, C.	
Summer:	* Biol. 110, Biology for Non-majors (1 lecture section), 33 students
Fall:	* Biol. 123, Biology for Health Related Sciences and Non-majors (2 lecture sections), 655 students
GOSZ, J.R.	
Spring:	Biol. 575, Desert Field Biology, 8 students
HANSON, D.T.	
Spring: Fall:	* Biol. 478, Plant Physiology, 6 students * Biol. 121, Principles of Biology, 426 students
HOFKIN, B.V.	
Spring:	* Biol. 450, General Virology, 69 students
Summer: Fall:	 Biol. 221, Introductory Genetics, 81 students Biol. 221, Introductory Genetics, 40 students Biol. 219, Principles of Cell Biology, 50 students Biol. 371L, Invertebrate Biology Lab, 12 students
KODRIC-BROW	N, A.
Spring:	Biol. 455, Ethology: Animal Behavior, 35 students
LIGON, J.D.	
Spring: Fall:	Biol. 379, Conservation Biology, 37 students Biol. 486L, Ornithology,13 students
LIGON, S.H.	
Spring: Fall:	Biol. 110, Biology for Non-Majors, 206 students in two sections Biol. 110, Biology for Non-majors, 120 students in one section Biol. 324, Natural History of the Southwest, 13 students
LOKER, E.S.	
Spring:	Biol. 121, Principles of Biology, 206 students
Fall:	Biol. 402, ST/Parasites and Hosts, 1 student Biol. 402, ST/Parasites and Hosts, 1 student (co-taught with D.W. Duszynski)

LOWREY, T.K.

Spring: Biol. 461, Tropical Biology, 15 students

MARSHALL, D.L.

Spring:	Biol 360L,	General Botany,	18 students
Fall:	Biol 360L,	General Botany,	16 students

MILLER, R.D.

Spring:	Biol. 219, Principles of Cell Biology, 122 students
Fall:	Biol. 456, Immunology, 81 students

MILNE, B.T.

Spring:	Biol. 122, Principles of Biology, 300+ students
Fall:	Biol. 310, Principles of Ecology, 18 students

MOLLES, M.C. JR.

Spring:	*Biol. 402, ST/Studies in Deserts and Grasslands, 3 students
Fall:	Biol. 407L, Bosque Biology, 9 students

NELSON, M.A.

Spring:	Biol. 400, Senior Honors Thesis, 4 students
	* Biol. 402, ST/Genome Biology, 1 student
	Biol. 425, Molecular Genetics, 21 total students
	Biol. 499, Undergraduate Problems, 3 students
Summer:	Biol. 499, Undergraduate Problems, 1 student
Fall:	Biol. 400, Senior Honors Thesis, 2 students
	* Biol. 402, ST/Undergraduate Research, 3 students
	Biol. 499, Undergraduate Problems, 4 students

POCKMAN, W.T.

Spring:	Biol. 471, Plant Physiological Ecology, 6 students
Fall:	Biol. 121, Principles of Biology, 480 students

POE, S.

Spring:	* Biol. 386, General Vertebrate Zoology, 32 students (co-taught with W.L.
	Gannon)

SINSABAUGH, R.L.

Fail:	Biol. 122, Princi	ples of Biology,	first half of course.	138 students

SNELL, H.L.

Fall:	Biol. 379, Conservation Biology, 24 students
Spring:	Released from teaching duties as part of the UNM/Charles Darwin Foundation
	(Galápagos, Ecuador) Collaborative Program in Conservation Biology.

STRICKER, S.A.	
Spring:	Biol. 402, ST/Fertilization Biology, 6 students
SWAN, J.	
Fall:	Biol. 237, Human Anatomy and Physiology I, 324 students in two sections Biol. 238, Human Anatomy and Physiology II, 132 students in one section Biol. 447, Prosection, 8 students
Spring:	Biol. 237, Human Anatomy and Physiology I, 202 students in one section Biol. 238, Human Anatomy and Physiology II, 215 students in one section Biol. 447, Prosection, 5 students
TAKACSVESBA	СН, С.
Spring:	* Biol. 451, Microbial Ecology, 9 students
Fall:	* Biol. 446, Laboratory Methods in Molecular Biology, 8 students
THORNHILL, R.	
Fall:	Biol. 300, Evolution, 65 students
TOOLSON, E.C.	
Spring:	Biol. 122, Principles of Biology, 250 students * Biol. 402, ST/ Biology of Toxins (FLC course), 21 students Biol. 402, ST/Ecology Seminar, 14 students
Fall:	 Biol. 402, ST/Ecology Johnna, 14 students Biol. 402, ST/Ecology Seminar, 16 students *A&S 198, Biology of Toxins (FLC course), 21 students Biol. 402, ST/Ecology Seminar, 16 students Biol. 435, Animal Physiology,17 students
TURNER, T.F.	
Fall:	Biol. 400-030, Senior Honors Thesis, 1 student
WAGNER, A.	
Spring:	Biol. 437, Evolutionary Genetics (3 cr.), 16 students
Fall:	Biol. 402, ST/Genome Biology (1 cr.), 9 students Biol. 221, Introductory Genetics (3 cr.), 97 students
WERNER-WASHE	BURNE, M.
Spring: Fall:	On sabbatical Biol. 402, ST/Genomics, 6 students (taken with Biol. 444, Genomic Analysis) Biol. 444, Genomic Analyses, 1 student (taken with Biol. 402, ST/Genomics) This was a complete modification of the course I taught before. This was a literature-based, not a computational course.
WOLF, B.O.	
Spring:	Biol. 435, Animal Physiology (4), 16 students

**

Fall: Biol. 122, Principles of Biology (4), team-taught with R.L. Sinsabaugh, 145 students

C. Teaching Awards.

CRIPPS, R.M.

Gunter Starkey Award for Teaching Excellence, College of Arts & Sciences, UNM, December.

MARSHALL, D.L.

UNM Alumni Association Faculty Award for dedication to students and research, presented in February.

D. Curriculum Development/Production of Teaching Materials.

BARTON, L.L.

Developed curriculum for "Pathogenic Bacteria" Special Topics course.

Developed curriculum for new "Bacterial Genomes" Special Topics course.

Preparation of 14 chapters for text in "Physiology of Bacteria," to be published by Springer, New York, in 2004.

COUCH, L.

Revision of Biol. 123 (Biology for Health-related Sciences and Non-majors) and Biol. 239 (Microbiology for Health Sciences and Non-majors) lab manuals. Biol. 239 published Aug. 2003; Biol. 123 pending until old manuals are sold out.

DAHM, C.N.

I coordinate the UNM component of the distance learning classes in the NSF IGERT-supported interinstitutional (Center for Freshwater Studies at the University of Alabama) and interdisciplinary Ph.D. program. Classes taught in 2003 were Freshwater Ecosystems (Biol./EPS 558) in the spring and Geomicrobiology (Biol./EPS 535) in the fall. I taught the hydrology component of the Freshwater Ecosystems class (Biol./E&PS 535) in the spring of 2003 and I developed curriculum and teaching materials for this distance learning class. I also coordinated the one-credit seminar class (Biol. 502) for the Freshwater Sciences IGERT students in the spring and fall of 2003.

HANSON, D.T.

Lab development for Biology 204, Plant and Animal Form and Function.

Grant writing to acquire equipment for Biology 204, Plant and Animal Form and Function.

Created a lab manual for Biology 478L, Plant Physiology.

HOFKIN, B.V.

Wrote, edited, produced and recorded 18 two-minute audio programs on various topics in biology. These programs form part of the web-based activities to accompany the text: "Biology: A Guide to the Natural World," third edition, by David Krogh, Pearson Publications. These programs augment the 54 programs that I produced for the second edition. 182

KODRIC-BROWN, A.

U.S. Computer Emergency Readiness Team (CERT) Workshop, Basic WebCT, UNM, March 31 and April 2.

LOKER, E.S.

Production of a set of MS Powerpoint® presentations for Biology 121, Principles of Biology.

MARSHALL, D.L.

Development of materials for new core, Biol. 201, 202, 203 and 204.

MILNE, B.T.

Member, Biol. 203L, Ecology and Evolution, transition group.

MOLLES, M.C. JR.

Scanned more than 2,000 35-mm slides and built PowerPoint® presentations for Loren Potter's lectures; supervised video taping of all lectures for permanent UNM archive of Potter's teaching, Spring.

Revised my ecology text (Molles, M.C., Jr. 2002. *Ecology: Concepts and Applications*, WCB/ McGraw-Hill, Dubuque, IA) and produced the manuscript for the third edition, including a 23section introduction to the scientific method, Spring and Fall.

Wrote as a contributor for the seventh edition of Campbell and Reece *Biology*, thoroughly revised the ecology and behavior sections of the book. My name and affiliation with the Department of Biology at UNM will appear on frontice piece of the book, circulation approximately one million worldwide.

Invited participant, NSF conference on web-based teaching and publication at Arizona State University, Tempe AZ, October 31–November 1.

SINSABAUGH, R.L.

Developed lectures and presentations for three new grad courses:

- Biol. 402/502, ST/Soil Ecology, 3 credits;
- Biol. 402/502, ST/Interactivity of Dissolved Organic Matter, 3 credits;
- Biol. 516, Introduction to Ecology, 4 credits

STRICKER, S.A.

New course handouts for Biol. 547, Advanced Techniques in Light Microscopy.

SWAN, J.

Developed online curriculum for Biol. 237-238, Human Anatomy and Physiology and Anatomy Laboratories.

TOOLSON, E.C.

Developed two computer simulations for toxicology courses, one for Biology 435 (Animal Physiology).

TURNER, T.F.

Developed New Graduate Course: Molecular Ecology and Evolution

Developed Web-based course support, including class readings, syllabus and links; http://biology. unm.edu/Biology/fishes/people/mee

E. Museum Curator, Advisor, Assistant Chair, EM Director, etc.

CHARNOV, E.L.

Graduate Student Advisor

COLLINS, S.L.

PI of the Sevilleta LTER program, led the organization to its first successful, positive NSF review in six years.

COOK, J.A.

Chair, Department of Biological Sciences, Idaho State University, Pocatello ID, July 2000-November 30, 2003.

COUCH, L.

Coordinator for Microbiology Cultures, Media Prep., and Microbiology laboratories.

CRIPPS, R.M.

Director, Molecular Biology Facility, Department of Biology, UNM.

HANSON, D.T.

Associate Curator (Curator of Bryophytes), Division of Herbarium, Museum of Southwestern Biology, Department of Biology, UNM, March 2003–present.

HOFKIN, B.V.

Undergraduate advisor, including pre-veterinary advisement.

LIGON, J.D.

Curator, Division of Birds, Museum of Southwestern Biology, UNM.

LOKER, E.S.

Chair, Department of Biology, UNM, mid-July to December.

LOWREY, T.K.

Curator, Division of Herbarium, Museum of Southwestern Biology, UNM.

MARSHALL, D.L.

Director of Curriculum Implementation for the new core sequence in biology. This involved working with programs across campus, preparing forms, meeting with the curriculum committee, etc. 184

Undergraduate Advisor

MILLER, R.D.

Spring:	Director, Molecular Biology Facility
Fall:	Department Associate Chair
	Co-Director, COBRE Center for Evolutionary and Theoretical Immunology

MILNE, B.T.

Founding Director of the UNM Sustainability Program, which is housed in the University College, Peter White, Dean.

Co-Chair, Honors Program in Biology.

MOLLES, M.C. JR.

Curator, Division of Arthropods, Museum of Southwestern Biology, UNM

Director, Museum of Southwestern Biology, UNM

NATVIG, D.O.

Director, UNM Sevilleta Research Station, starting June 2003.

Co-director, UNM Initiatives for Minority Student Development (IMSD) program.

POE, S.

Associate Curator, Division of Reptiles and Amphibians, Museum of Southwestern Biology, UNM

SNELL, H.L.

Curator, Division of Herpetology, Museum of Southwestern Biology, UNM.

Director of Science Programs, Charles Darwin Foundation, Galápagos, Ecuador.

Coordinator, UNM-Charles Darwin Foundation Collaborative Program in Conservation Biology.

STRICKER, S.A.

Director, Electron Microscopy and Confocal Facilities

Associate Chair, January-June.

TOOLSON, E.C.

Associate Curator, Division of Arthropods, Museum of Southwestern Biology, UNM

Undergraduate Advisor

TURNER, T.F.

Curator, Division of Fishes, Museum of Southwestern Biology; 2003 summary:

- ➤ Supervised accessions and cataloging of more than 54,000 specimens in 2003.
- Recruited Curator Emeritus, Prof. Stephen T. Ross.
- Awarded NSF REU funds for training undergraduates in museum-based research.
- ➤ Participated in Phase II of MSB construction planning.
- Obtained significant collections from the U.S. Fish and Wildlife Service and New Mexico Department of Game and Fish.
- Provided teaching materials for Ichthyology, GVZ, and Natural History of New Mexico courses.
- More than \$1.2 million for ongoing projects focusing on fishes in the southwest.

VOGEL, K.G.

Director, Minority Access to Research Careers (MARC) Program, UNM

Chairman, Department of Biology, UNM (through mid-July, 2003)

F. Mentoring. Please list names of undergraduates (with or without Biol. 400 or 499 credit) or non-UNM students you mentored this year. Indicate the period of mentoring, program (if any), Honor's thesis, etc.

BARTON, L.L.

Shaun Dolk, employed on research project.

Danyelle Gamble, future graduate student

Juan Peña-Philippides, honors student

Nicole Woodwards, undergraduate student in the MBRS/IMSD program, entire year of 2002–2003.

Megan Wynn, future vet school applicant

CADAVID, L.F.

Andrea Aragon, Biology honors program, August. I am her thesis reader and anchor in the Biology Department; her primary advisor is at the Health Sciences Center.

John-Paul Larrieu; UNM Biology major, all year, "Genetics of autoreactivity in Hydractinia."

Sarah Coster, UNM Biology major, Spring, graduated in May; "Epidemiology of Rheumatic Fever."

Mona Rezaei, UNM Biology major, Summer and Fall; "Allorecognition in Hydractinia."

Bradley Rodgers, UNM Biology major, Spring, graduated in May, "Allorecognition in *Hydractinia.*"

Jonathan Olp, UNM Biology major, Spring and Summer, "Allorecognition in Hydractinia."

COLLINS, S.L.

The Sevilleta LTER hired six undergraduates last summer, and I worked with them to some degree in organizing a research project, or introducing the students to other faculty and grad student researchers. Two of these students will be presenting the results of their work at the annual Sevilleta LTER research symposium in January 2004. One of them is working on a manuscript with two other UNM Biology faculty members.

COOK, J.A.

Idaho State University:

Laboratory:

"Hybrid Zone Dynamics in *Clethrionomys*, Kaycee Bell

"Phylogeography of Jumping Mice, Harmony Dancing Rain Spoonhunter

"Population Genetics of Insular Deer Mice," Aaron Orme

"Mitogenomics of Cetaceans and Octodontids," Karl Vanderwood and Carlee Hengel

Fieldwork—Advanced Methods in Arctic Mammalogy: Kayce Bell, Carlee Hengel, Skyler Smith, Karl Vanderwood

CRIPPS, R.M.

Lynda Arguello, Honor's student, all of 2003.

Biol 402/499: Kenji Tanaka, all of 2003; Jennifer Brower, all of 2003; Sarah Venable, Fall.

Spring: Cherice Mumford, Work-Study.

DAHM, C.N.

I supervised Tiffany Shaw and Brandy Crowder during the summer of 2003. Tiffany also worked with me during the spring and fall semesters with support from the NSF UMEB program. Tiffany is majoring in Environmental Sciences, and Brandy graduated in December 2003 in Biology. Tiffany presented her research at the Annual Meeting of the North American Benthological Society in Athens, Georgia in May 2003.

FAGUY, D.M.

Darrell Dinwiddie, Biol. 400, Senior Honors Thesis, Spring 2002-Spring 2003

Sheila Kelly, Biol. 402, ST/Archaeal Biology, Spring 2003-Summer 2003

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HANSON, D.T.

	Fall: Summer:	Christopher Erickson, independent research for Biol. 400, Senior Honors Thesis Phillip Enriquez, independent research for Biol. 499, Undergraduate Problems Susan Sanchez Monzon, independent research not for credit Camille Puronen, independent research for Biol 499, Undergraduate Problems Honors Thesis reader for David Stromberg (C. Takas–Vesbach) Honors Thesis reader for Laura Green (W.T. Pockman) Gloria Kreitinger, University of Notre Dame, independent research not for	
	Cantan	credit	
	Spring:	Jake Mace, independent research for Biol. 499, Undergraduate Problems	
	HOFKIN, B.V.		
	Spring:	Melissa Smith, Biol. 499, Undergraduate Problems Nathan Hansen, reader on his honors thesis (supervisor: D.M. Faguy)	
	Summer:	Simon Livingstone, Biol. 400, Senior Honors Thesis	
	Fall:	John Mathews Edwards, Biol. 499, Undergraduate Problems Simon Livingstone, Biol. 400, Senior Honors Thesis Brian Abbot, Kelley Hollingsworth, Gena McLellan, Melissa Smith, Biol. 499, Undergraduate Problem Bo Tran, began research and continuing	
	KODRIC-BROW	N, A.	
	Spring:	Biol. 400, Hilary Watts, Honor's thesis Biol. 499, Jaclyn Murton, Chandra Tweet	
	LOKER, E.S.		
	Fall: Summer:	Diana Aranda, Elisa M. La Beau, Biol. 499, Undergraduate Problems Dayton Davis, Biol. 499, Undergraduate Problems	
	LOWREY, T.K.		
	Fall:	Jeffrey Lucero, Minorities Access to Research Careers (MARC) Program	
MARSHALL, D.L.			
	Spring:	Biol. 400, Andrea Harbison, completed an honors thesis Biol. 400, Erik Leve	
	Fall:	Biol. 499, Kara Lopez	
	MILLER, R.D.		
	Spring:	Grace Esquibel, IMSD Christina Lin, Robert E. McNair Scholar Julie McCollough, non-degree undergraduate Robert Sasaki-McClees (Medical School student-research rotations) Melissa Smith	

Summer: Tammy Arnold, IMSD Sandra Brumburgh Christina Lin, Robert E. McNair Scholar Julie McCollough, non-degree undergraduate Jon Olp Fall: Tammy Arnold, IMSD Sandra Brumburgh Christina Lin, Robert E. McNair Scholar Jon Olp Melissa Smith

MILNE, B.T.

Conrad Zack, former Biol. 310, Principles of Ecology, student: Zack, C.S., B.T. Milne, and W.C. Dunn. 2003. Southern oscillation index as an indicator of encounters between humans and black bears in New Mexico. *Wildlife Soc. Bull.* 31(2):517-520. 188

Andrea Harbison (Diane Marshall's student): I wrote an extensive image analysis package for her study of fluctuating asymmetry.

Advisor of NM Alliance for Graduate Education and Professoriate student, Melanie Moses.

MOLLES, M.C. JR.

MARY HARNER passed comprehensive exam, September.

NATVIG, D.O.

Spring:	Biol. 499, Undergraduate Problems, 2 students (Brianne Scneider, 3 cr; Todd Dettmer, 3 cr)
Fall:	Biol. 499, Undergraduate Problems, 1 student (Amanda Reichert, 1 cr)
NELSON, M.A.	
Spring:	Gilbert Harrison (Minority Access to Research Careers [MARC]), Jonas Hines, Heather Keys (Senior Honors Thesis), Jeanne VanGils Louderbough (Senior Honors Thesis), Erica Mandell (Senior Honors Thesis), Gary Montry, Rina Patel (Senior Honors Thesis) and Gabriel Quiñones (Senior Honors Thesis & MARC).
Summer: Fall:	Gilbert Harrison (MARC), Heather Keys (Senior Honors Thesis), Gary Montry Gilbert Harrison (MARC), Jaminelli Liwanag (Senior Honors Thesis), Gary Montry, Kristine Rubio (Initiative for Minority Student Development [IMSD]).

Advisor on Jeanne VanGils Louderbough's Senior Honors Thesis: "The Role of the asd-1 Gene in Sexual Development and Post-transcriptional Silencing in *Neurospora crassa*," graduated magna cum laude in the Spring.

Advisor on Gabriel Quiñoncs' Senior Honors Thesis: "Assessment of Parameters Crucial for Making DNA Microarray Technology a Robust and Efficient Means for the High-throughput Analysis of Gene Expression," graduated summa cum laude in the Spring, won BSNM's Outstanding Graduating Senior Award.

Co-advisor (with R. Savich, Dept. of Obstetrics and Gynecology, School of Medicine, UNM) on Erica Mandell's Senior Honors Thesis: "VEGF mRNA Expression Is Decreased in the Hypoplastic Feral Lung Due to Oligohydramnios in the Rat Model," graduated magna cum laude in the Spring.

Co-advisor (with R. Glew, Dept. of Biochemistry and Molecular Biology, School of Medicine, UNM) on Rina Patel's Senior Honors Thesis: "High-density Lipoprotein (HDL) and Homocysteine Levels Correlate Inversely in Preeclamptic Women in Northern Nigeria," graduated cum laude in the Spring.

Ebany Martinez, Regent's Scholar

POCKMAN, W.T.

Spring: Summer:	Michelle Gonzales, Scott Knapp, Nicole Payton, Conrad Zack Laura Green (Honor's research), Miles Heyden, Bridget Lynch, Nicole Payton, Jesse Wilson
Fail:	Laura Green (Honor's research), Mariel Tribby
POE, S.	
Fall:	Shane Torgerson, Biol. 499, Undergraduate Problems, project describing new lizard species; field work in Jamaica.

SINSABAUGH, R.L.

Laura Green, summer research

TAKACS-VESBACH, C.

Laura Evans, Spring 2003
Andrea Leather-Lopez, Spring 2003-present
Jennifer Pincus, Spring 2003-present (working on Honors thesis in my lab)
Olan Jackson-Weaver, Spring 2003-present (started as work-study washing dishes, is now conducting paid research)
Nik Rael, Summer 2003-present (Nik was an REU for me in the summer, a Biol. 499 student in the fall, and currently, I am a reader on his Honors Thesis in EPS)

David Stromberg, Fall 2003-present (working on Honors thesis in my lab)

THORNHILL, R.

Sixteen undergrad students enrolled in Biol. 499 (Undergraduate Problems) in this period.

TOOLSON, E.C.

Spring:	Olivia Hopkins (Honor's Thesis), Amanda Hodson (Biol. 400, Senior Honor's
	Thesis)
Summer:	Casey Gilman (LTER REU), Donna Phamm, Josh Nguyen (McNair Scholar)

Fall: Amanda Hodson (Biol. 400, Senior Honor's Thesis), Casey Gilman (LTER REU), Mindy Avery (Biol. 499, Undergraduate Problems), Jessica Valdez (Biol. 499, Undergraduate Problems)

TURNER, T.F.

Melissa Benavides, 2002-present, Undergraduate Mentoring in Environmental Biology, REU, Senior Honors Thesis advisor.

Jessica (Justine) Davis, Summer/Fall 2003, REU for museum-based research.

VOGEL, K.G.

Spring: Kathryn Ryan, lab research Julie Weldon, lab research Christopher Strawter, Biol. 499, Undergraduate Problems (Biology mentor with R. Larson) Tony Salazar, Biol. 400, Honors Thesis, (Biology mentor with N. Peronne-Bizozaro)

WAGNER, A.

June 2003-present: Jeremiah Wright, undergraduate in Chemistry.

WERNER-WASHBURNE, M.

Amanda Archuleta (full year) LaraLea Chavez (full year) Ray Joe (summer 2003) Brett Manifold (summer 2003) Jason Padilla Jatao (full year) Calvin Tribby (Fall 2003)

WOLF, B.O.

Summer: Casey Gilman, Cindy Mathiasen, Donna Pham, NSF REU Josh Nuygen, McNair Fellow

G. Other Teaching Activities.

ALTENBACH, J.S.

Guest Lectures in Biol. 379, Conservation Biology, for Dr. J. David Ligon.

COOK, J.A.

Idaho State University:

PI–Undergraduate Mentoring in Environmental Biology—NSF-funded project that sponsored five Shoshone Bannock Native students and two other undergraduates.

COUNCIL-GARCIA, C.L.

Responsible for TAs teaching the lower-level biology labs.

FAGUY, D.M.

Supervised Media Prep labs and Biol. 352L, General Microbiology Lab, Spring

Supervised three M.S. students

HANSON, D.T.

Fall:

Administered preliminary Ph.D. exam for Eunsoo Kim, University of Wisconsin–Madison Guest lecture for Biol. 360, General Botany Biol. 500, Graduate Student Orientation

KODRIC-BROWN, A.

IMAGE at Mountain States Alliance (MSA), Annual Arizona Faculty Doctoral Mentoring Institute Workshop, Tempe AZ, April 1.

LOWREY, T.K.

UNM Department of Biology Tropical Biology field course in Belize, Central America, March.

TAKACS-VESBACH, C.

Training graduate students in molecular techniques:

- ➤ Chelsea Crenshaw, Fall 2003
- ➤ Jennifer Follstad–Shah, Fall 2003
- Maceo Martinet, Fall 2003
- Lydia Zeglin, Spring 2003-present

VOGEL, K.G.

Spring: Biol. 402, ST/Undergraduate Research Topics, with Melanie Moses (MARC, preparation for GRE), 1 CR, 6 students

WERNER-WASHBURNE, M.

Summer: Lecture for AP High School Science Teachers.

II. PUBLICATIONS.

A. Books Authored.

BROWN, J.H.

Brown, James. 2003. Macroecología. México, D.F. Fondo de Cultura Economica.

MOLLES, M.C. JR.

Completed manuscript for third edition of *Ecology: Concepts and Applications* (WCB/McGraw-Hill, Dubuque, IA), which will appear in print in 2004 with a 2005 publication date.

B. Books Edited.

BARTON, L.L.

Biochemistry and Physiology of Anaerobic Bacteria. 2003. L. Ljungdahl, M. Adams, L.L. Barton, J. Ferry and M. Johnson, eds. New York: Springer-Verlag. 18 chapters and 270 pages.

C. Chapters in Books or Major Synthetic Reviews.

BARTON, L.L.

Barton, L.L., R.M. Plunkett and B.M. Thomson. 2003. Reduction of metals and non-essential elements by anaerobes. Pp. 220-235 in *Biochemistry and Physiology of Anaerobic Bacteria*, L. Ljung-dahl, M. Adams, L.L. Barton, J. Ferry, and M. Johnson, eds. New York: Springer-Verlag.

BROWN, J.H.

Brown, J.H., C.G. Curtin and R.W. Braithwaite. 2003. Management of the Semi-Natural Matrix. In *How Landscapes Change: Human Disturbance and Ecosystem Fragmentation in the Americas*, G.A. Bradshaw and P.A. Marquet, eds. Germany: Springer.

Brown, J.H., J.F. Gillooly, G.B. West and V.M. Savage. 2003 The next step in macroecology: From general empirical patterns to universal ecological laws. In *Macroecology: Concepts and Consequences*, T.M. Blackburn and K.J. Gaston, eds. Oxford, UK: Blackwell.

DAHM, C.N.

Hauer, F.R., C.N. Dahm, G.A. Lamberti and J.A. Stanford. 2003. Landscapes and ecological variability of rivers in North America: factors affecting restoration strategies. Pp. 81-105 in *Strategies for Restoring River Ecosystems: Sources of Variability and Uncertainty in Natural and Managed Systems*, R.C. Wissmar and P.A. Bisson, eds. Bethesda, MD: American Fisheries Society.

LOKER, E.S.

Loker, E.S. and T.S. Nowak. 2003. Of genomes and parasitism. Pp. 59-80 in Taxonomie, Écologie et Évolution Des Métazoaires Parasites. Taxonomy, Ecology and Evolution of Metazoan Parasites. (Livre hommage à Louis Euzet), Tome 2, C. Combes and J. Jourdane, eds. PUP Perpignan.

MILNE, B.T.

Milne, B.T., D.I. Moore, J.L. Betancourt, J.A. Parks, T.W. Swetnam, R.R. Parmenter and W.T. Pockman. 2003. Mulitdecadal drought cycles in South-Central New Mexico: Patterns and consequences. Pp. 286-307 in *Climate Variability and Ecosystem Response at Long-Term Ecological Research Sites*, D. Greenland, D.G. Goodin and R.C. Smith, eds. Oxford, UK: Oxford University Press. 459 pp.

NATVIG, D.O.

Braun, E.L., D.O. Natvig, M. Werner-Washburne and M.A. Nelson. 2003. Genomics in *Neurospora crassa*: From One-Gene-One-Enzyme to 10,000 Genes. Elsevier Applied Mycology and Biotechnology Series, Volume 4: Fungal Genomics.

NELSON, M.A.

Braun, E.L., D. O. Natvig, M. Werner-Washburne and M.A. Nelson. 2003. Genomics in *Neurospora crassa*: From One-Gene-One-Enzyme to 10,000 Genes. Elsevier Applied Mycology and Biotechnology Series, Volume 4: Fungal Genomics.

POCKMAN, W.T.

Milne, B.T., D.I. Moore, J.L. Betancourt, J.A. Parks, T.W. Swetnam, R.R. Parmenter and W.T. Pockman. 2003. Multidecadal drought cycles in south-central New Mexico: Patterns and consequences. Pp 286–307 in *Climate Variability and Ecosystem Response at Long Term Ecological Research (LTER) Sites* (D. Greenland, D. Goodin and R. Smith, eds.). New York, NY: Oxford University Press.

SNELL, H.L.

Snell, H.L. and C. Marquez. 2003. Chapter 18: Iguanas marinas. Pp 324-342 in *Reserva Marina de Galápagos: Línea Base de la Biodiversidad*, E. Danulat and G.J. Edgar, eds. Fundacíon Charles Darwin/Servico Parque Nacional Galápagos, Santa Cruz, Galápagos, Ecuador. Available online: http://www.darwinfoundation.org/downloads/RMG-Linea-Base-Bio.pdf

THORNHILL, R.

Thornhill, R. 2003. Darwinian aesthetics informs traditional aesthetics. Pp. 9-38 in *Evolutionary* Aesthetics, K. Grammer and E. Voland, eds. Springer-Verlag, Berlin, Germany.

Thornhill, R. and S.W. Gangestad. 2003. Do women have evolved adaptation for extra-pair copulation? Pp. 341-368 in *Evolutionary Aesthetics*, K. Grammer and E. Voland, eds. Springer-Verlag, Berlin, Germany.

Grammer, K., B. Fink, A.P. Møller and R. Thornhill. 2003. Darwinian aesthetics: Sexual selection and the biology of beauty. *Biological Reviews* 78:385-407.

Gangestad, S.W. and R. Thornhill. 2003. Fluctuating asymmetry, developmental stability, and fitness: Toward a model-based interpretation. Pp. 62-80 in *Developmental Instability: Causes and Consequences*, M. Polak, ed. Oxford University Press, New York.

Polak, M., A.P. Møller, S.W. Gangestad, D.E. Kroeger, J.T. Manning and R. Thornhill. 2003. Does an individual asymmetry parameter exist? A meta-analysis. Pp. 81-98 in *Developmental Instability: Causes and Consequences*, M. Polak, ed. Oxford University Press, New York.

TURNER, T.F.

Wares, J.P. and T. F. Turner. 2003. Phylogeography and diversification in aquatic mollusks. Pp. 229-269 in *Molecular Systematics and Phylogeography of Mollusks*, C. Lydeard and D. Lindberg, eds. Smithsonian Institution Press, Washington DC, 328 pp.

WERNER-WASHBURNE, M.

Braun, E.L., D. O. Natvig, M. Werner–Washburne and M.A. Nelson. 2003. Genomics in *Neurospora crassa:* From One-Gene-One-Enzyme to 10,000 Genes. Elsevier Applied Mycology and Biotechnology Series, Volume 4: Fungal Genomics.

D. Articles in Refereed Journals.

ALTENBACH, J.S.

Sherwin, R.E., W.L. Gannon and J.S. Altenbach. 2003. Managing complex systems simply: Understanding inherent spatial and temporal variation in the use of roosts by Townsend's bigeared bat. *Wildlife Society Bulletin* 31:62-72.

Hofkin, B.V., A. Wright, J.S. Altenbach, K. Rassmann, H.M. Snell, R.D. Miller, A.C. Stone and H.L. Snell. 2003. Ancient DNA gives green light to Galápagos Land Iguana repatriation. *Conservation Genetics* 4:105-108.

BARTON, L.L.

Brown, G., L.L. Barton and B.M. Thomson. 2003. Oxidation of sorbed polycyclic aromatic hydrocarbons. *Waste Management* 23:737-740.

BROWN, J.H.

Brown, J.H. and J.F. Gillooly. 2003. Ecological food webs: High-quality data facilitate theoretical unification. *Proceedings of the National Academy of Sciences of the United States of America* 100 (4):1467-1468.

Brown, J.H., A.P. Allen and J.F. Gillooly. 2003. Heat and biodiversity—Response. Science 299 (5606):512-513.

Brown, J.H., J.F. Gillooly, G.B. West and V.M. Savage. 2003. The next step in macroecology: From general empirical patterns to universal ecological laws. In *Macroecology: Concepts and Consequences*, T.M. Blackburn and K.J. Gaston, eds. Blackwell, Oxford.

Allen, A.P., J.H. Brown and J.F. Gillooly. 2003. Response to comment on "Global biodiversity, biochemical kinetics, and the energetic-equivalence rule." *Science* 299 (5605):U2.

Ernest, S.K.M., B.J. Enquist, J.H. Brown, E.L. Charnov, J.E. Gillooly, V. Savage, E.P. White, EA. Smith, E.A. Hadly, J.P. Haskell et. al. 2003. Thermodynamic and metabolic effects on the scaling of production and population energy use. *Ecology Letters* 6 (11):990-995.

Gillooly, J.F., E.L. Charnov, J.H. Brown, V.M. Savage and G.B. West. 2003. Allometry: How reliable is the biological time clock? Reply. *Nature* 424 (6946):270-270.

Huston, M.A., J.H. Brown, A.P. Allen and J.F. Gillooly, JF. 2003. Heat and biodiversity. Science 299 (5606):512-512.

Jun, J., J.W. Pepper, V.M. Savage, J.F. Gillooly and J.H. Brown. 2003. Allometric scaling of ant foraging trail networks. *Evolutionary Ecology Research* 5 (2):297-303.

Moses, M.E. and J.H. Brown.2003. Allometry of human fertility and energy use. *Ecology Letters* 6 (4): 295-300.

Smith, EA., S.K. Lyons, S.K.M. Ernest, K.E. Jones, D.M. Kaufman, T. Dayan, T. P.A. Marquet, J.H. Brown and J.P. Haskel. 2003. Body mass of late quaternary mammals. *Ecology* 84 (12):3403-3403.

West, G.B., V.M. Savage, J. Gillooly, B.J. Enquist, W.H. Woodruff and J.H. Brown. 2003. Why does metabolic rate scale with body size? *Nature* 421 (6924):713-713.

CHARNOV, E.L.

Charnov, E.L. and J.F. Gillooly. 2003. Thermal time: Body size, food quality and the 10°C rule. *Evolutionary Ecology Research* 5:43-51.

Charnov, E.L. 2003. Cohort-size/body-size scaling rules for stationary populations. *Evolutionary Ecology Research* 5:1111-1112.

Ernest, S.K.M., Enquist, B.J., Brown, J.H., Charnov, E.L., Gillooly, J.E, Savage, V, White, E.P., Smith, F.A., Hadly, E.A., Haskell, J.P., et. al. Thermodynamic and metabolic effects on the scaling of production and population energy use. *Ecology Letters* 6:990-995.

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McDonnell, D.E., C.N. Dahm, J.E. Coonrod, J.R. Cleverly and J.R. Thibault. 2003. Scaling evapotranspiration depletion rates in native and non-native vegetation along the middle Rio Grande riparian corridor. Annual Meeting of the American Geophysical Union, San Francisco CA, December 8-12.

Cleverly, J.R., J.R. Thibault, M. Slusher, L. Hipps, J. Prueger and C.N. Dahm. 2003. Surface flux processes and evolution of characteristic eddy scales above a young Middle Rio Grande forest. Annual Meeting of the American Geophysical Union, San Francisco CA, December 8-12.

Valett, H.M, S.A. Thomas, P.J. Mulholland, J.R. Webster, C.N. Dahm and C.G. Peterson. 2003. Assessing transient storage influences on nutrient spiraling: An updated approach. Annual Meeting of the Geological Society of America, Seattle WA, November 2-5.

Dahm, C.N., J.R. Cleverly, J.R. Thibault, M.C. Molles, Jr., D.E. McDonnell and J.E.A. Coonrod. 2003. Environmental changes to river and riparian ecosystems in arid environments. Symposium of European Freshwater Scientists 3 (SEFS3), Edinborough, Scotland, July 14 (plenary presentation).

HANSON, D.T.

Hanson, D. T., L. Franklin, G. Samuelsson, and M. R. Badger. 2003. Does PSII Activity or CO₂ Availability Limit Photosynthesis When the Thylakoid Lumen-localized Carbonic Anhydrase Is Absent? Invited speaker and chair of the Plant Biology 2003 Photosynthesis-Light Minisymposium, American Society of Plant Biologists, Honolulu HI, July.

LOKER, E.S.

DeJong, R.J., J.A.T. Morgan, M.V. McPhee, G.M. Mkoji and E.S. Loker. 2003, Mitochondrial and microsatellite analysis of global *Schistosoma mansoni* isolates. Presented at the 52nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia PA, December 3-7.

Zhang, S-M., C.M. Adema, T.B. Kepler and E.S. Loker. 2003. A challenge to the invertebrate paradigm of immunity: insights from diversification of Ig superfamily genes in the snail *Biomphalaria* glabrata. Presented at the 52nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia PA, December 3-7.

LOWREY, T.K.

Lowrey, T.K. and L. Urbatsch. 2003. Phylogenetic studies In The Astereae: The need for generic redelimitation and a reasonable subtribal classification. *Compositae Newsletter* 40:1-3.

NATVIG, D.O.

Saenz, G.S., D.J. Jacobson, W.H. Dvorachek and D.O. Natvig. 2003. Sympatric biological and phylogenetic species among pseudohomothallic isolates identified as *Neurospora tetrasperma*. Abstract of invited talk and poster presentation at the Fungal Genetics Conference, Asilomar CA, March.

MILNE, B.T.

Milne, B.T., Baum, N. and M. Luck. Individuals compose patches: Resource partitioning in landscapes. 18th Annual Symposium, International Association for Landscape Ecology, Banff, Alberta, Canada, April 2-6.

POCKMAN, W.T.

Pockman, W.T., R.B. Jackson, E.G. Jobbagy, J.L. Banner and D.H. Wall. 2003. Ecosystem losses of carbon with woody encroachment. Symposium: Carbon Storage in Rangeland. Society for Range Management, Casper WY, February.

TURNER, T.F.

Osborne, M.J., D. Alò, M.A. Benavides and T.F. Turner. 2003. Genetic effects of hatchery propagation in the endangered Rio Grande silvery minnow. Governor's symposium on Rio Grande silvery minnow, sponsored by the McCune Foundation, Santa Fe, NM, October.

VOGEL, K.G.

Vogel, K.G. 2003. Tendon structure and response to changing mechanical load. 33rd International Sun Valley Hard Tissue Workshop, Sun Valley ID, August (invited).

WERNER-WASHBURNE, M.

Haaland, D.M., J.A. Timlin, M.R. Keenan, M.H. Van Benthem, M.B. Sinclair, M.J. Martinez and M. Werner–Washburne. 2003. Methods to improve the efficiency of the quantitative analysis of hyperspectral image data. Pittsburgh Conference, Orlando FL, March 9-14.

Aragon, A.D., G.A. Quinones and M. Werner–Washburne. 2003. Analysis of transcriptional changes in quiescent yeast cells in response to stress. Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Meeting, Albuquerque, October.

Martinez, J., A. Aragon, A. Archuletta, A. Rodriguez, S. Roy, M. Werner-Washburne. 2003. A Genomic analysis of quiescence and exit from the quiescent state in *S. cerevisiae*. International Yeast Genetics Meeting, Göteborg, Sweden, July.

I. Abstracts (Contributed) (including Research Day abstracts of your students).

BARTON, L.L.

Woodwards, N.A. and L.L. Barton. 2003. Resistance of the anaerobic bacterium *Desulfavibrio* desulfuricans to heavy metals. SACNAS National Conference, Albuquerque NM, October 2-5.

Plunkett, R. and L.L. Barton . 2003. Redox mechanisms of oxygen defense in anaerobic bacteria. 12th Annual Research Day, Department of Biology, UNM, April 4.

Plunkett, R. and L.L. Barton . 2003. Tolerance of anaerobic bacteria to oxygen. Rio Grande Branch of American Society for Microbiology, Albuquerque NM, February.

Bishop, Y. and L.L. Barton. 2003. Cytokinin production by methylotrophic bacteria. Rio Grande Branch of American Society for Microbiology, Albuquerque NM, February.

CADAVID, L.F.

Schwarz, R. and L.F. Cadavid. 2003. Dynamics of cell-lineage competition on chimeras of the colonial hydroid *Hydractinia symbiologicarpus* (Cnidaria; Hydrozoa). 12th Annual Research Day, Department of Biology, UNM, April.

Larricu, J.P. and Cadavid, L.F. 2003. Genetics of autoreactivity in the colonial hydroid *Hydractinia* symbiolongicarpus (Cnidaria; Hydrozoa). 12th Annual Research Day, Department of Biology, UNM, April.

COLLINS, S.L.

"Effects of Water and Nitrogen on Community Structure in Tallgrass Prairie" and "Effects of Fire and Grazing on Community Heterogeneity in Space and Time," Ecological Society of America Annul Meeting, Savannah GA, August.

COOK, J.A.

Lessa, E.P., J.A. Cook and J.L. Patton. 2003. Genetic footprints of expansion in North America, but not Amazonia, during the Late Quaternary. International Biogeography Society Meeting, Mesquite, NV, January.

Waltari, E. and JA Cook. 2003. Hares on ice. Society for the Study of Evolution, Chico CA, June.

CRIPPS, R.M.

Kelly, K.K. and R.M. Cripps. 2003. Regulation of the Act57B actin gene in *Drosophila*. Molecular Biology of Myogenesis, Banff, Canada, May.

Baker, P.W. and R.M. Cripps. 2003. Transcriptional regulation of the Act79B actin gene in *Drosophila* adult myogenesis. Molecular Biology of Myogenesis, Banff, Canada, May.

Kelly, K.K. and R.M. Cripps. 2003. Regulation of the Act57B actin gene in *Drosophila*. 12th Annual Research Day, Department of Biology, UNM, April 4.

Arguello, L. and R.M. Cripps. 2003. Transcriptional regulation of cardiogenesis in Drosophila. 12th Annual Research Day, Department of Biology, UNM, April 4.

DAHM, C.N.

Pershall, A.D., C.L. Crenshaw and C.N. Dahm. 2003. Concentrations of 15N in river and ground water from the Middle Rio Grande and surrounding bosque above and below a wastewater treatment facility. Annual Meeting of the American Society of Limnology and Oceanography, Salt Lake City UT, February 9-14.

Zeglin, L.H., A.D. Pershall, C.L. Crenshaw and C.N. Dahm. 2003. How changing land use affects stream nutrient availability and uptake in arid environments. Annual Meeting of the American Society of Limnology and Oceanography, Salt Lake City UT, February 9-14.

Thibault, J.R., J.R. Cleverly and C.N. Dahm. 2003. Ground water depth and water use by phreatophyte communities during drought. Annual Meeting of the American Geophysical Union, San Francisco CA, December 8-12.

Follstad Shah, J.J., C.N. Dahm, M.C. Molles, Jr. and J.F. Schuetz. 2003. Effects of flooding on net nitrogen mineralization potentials within stands of native and non-native vegetation along the middle Rio Grande, New Mexico. Annual Meeting of the North American Benthological Society, Athens, GA, May.

Valett, H.M., S.A. Thomas, J.R. Webster, P.J. Mulholland, C.N. Dahm and C.G. Peterson. 2003. Nitrate spiraling in headwater streams: The importance of temporal variation. Annual Meeting of the North American Benthological Society, Athens, GA, May.

Crenshaw, C.L., D.T. Chaloner, C.N. Dahm, G.A. Lamberti and J.L. Tank. 2003. The effect of spawning salmon on dissolved organic carbon in southeastern Alaska streams. Annual Meeting of the North American Benthological Society, Athens, GA, May.

Dahm, C.N., C.L. Crenshaw, C.F. Fellows, H.M. Valett, J.L. Tank and M.C. Marshall. 2003. Benthic and subsurface ammonium and nitrate uptake in a headwater montane stream. Annual Meeting of the North American Benthological Society, Athens, GA, May. Shaw, T.E., C.N. Dahm, T.M. Tibbets and C.L. Crenshaw. 2003. Elemental stoichiometry of aquatic invertebrates and possible food sources in a montane stream. Annual Meeting of the North American Benthological Society, Athens, GA, May.

Zeglin, L.H., C.L. Crenshaw, A.D. Pershall and C.N. Dahm. 2003. Nutrient dynamics vary seasonally in arid-land streams within basins with differing land use. Annual Meeting of the North American Benthological Society, Athens, GA, May.

FAGUY, D.M.

Dichosa, A. and D.M. Faguy. 2003. Isolation, cloning, and sequencing of the ftsZ gene of *Methanospirillum hungatei*. Rio Grande Branch American Society for Microbiology (ASM) Annual Meeting, Albuquerque, NM, January 19-21.

Long, S.W. and D.M. Faguy. 2003. Creation of an N-terminal deletion mutation in the smc gene of *Methanococcus voltae*. Rio Grande Branch ASM Meeting, Albuquerque, NM, January 19-21.

Elwell, J. and D.M. Faguy. 2003. Characterization of cdc6-2 from *Sulfalobus solfataricus* in *E. coli.*" Rio Grande Branch ASM Meeting, Albuquerque, NM, January 19-21.

Hansen, N. and D.M. Faguy. 2003. Expression of cdc6-1 from Sulfalobus solfataricus in E. coli. 12th Annual Research Day, Department of Biology, UNM, April 4.

Long, S.W. and D.M. Faguy, 2003. Creation of an N-terminal deletion mutation in the smc gene of *Mathanococcus voltae*. 12th Annual Research Day, Department of Biology, UNM, April 4.

Dichosa, A. and D.M. Faguy. 2003. Isolation, cloning, and sequencing of the ftsZ gene of *Methanospirillum huingatei*. 12th Annual Research Day, Department of Biology, UNM, April 4.

HANSON, D.T.

Mace, J. and C. Grose. 2003. Characterization of Some Varicella–Zoster virus Monoclonal Antibodies. 12th Annual Research Day, Department of Biology, UNM, April 4. (Jake Mace based on his poster on his summer research at the University of Iowa.)

KODRIC-BROWN, A.

Aarielle Frazier, poster, "UV Reflectance and Mate Choice in Pupfish," 12th Annual Research Day, Department of Biology, The University of New Mexico, April 4.

Jaclyn Murton, poster, "Swim Endurance in Pupfish," 12th Annual Research Day, Department of Biology, The University of New Mexico, April 4.

LOKER, E.S.

Nowak, T.S. and E.S. Loker. 2003. Discovery of genes differentially expressed in the sporocysts of *Echinostoma paraensei*. Presented at the 12th Annual Research Day, Department of Biology, UNM, April 4.

Loker, E.S., J.A.T. Morgan, R.J. DeJong and G.M. Mkoji. 2003. Snails and schistosomes: Some perspectives from molecular phylogenetics. Presented at the 69th Annual Meeting of the American Malacological Society, Ann Arbor MI, June 25-29.

Morgan, J.A.T., R.J. DeJong, F. Kazibwe, G.M. Mkoji and E.S. Loker. 2003. A newly identified lineage of *Schistosoma*. Presented at the 78th Annual Meeting of the American Society of Parasitologists, Halifax, Nova Scotia, Canada, August 1-5.

Asmundsson, I.M., E.S. Loker and D.W. Duszynski. 2003. Phylogenetic relationships among *Eimeria* of vertebrates. Presented at the 78th Annual Meeting of the American Society of Parasitologists, Halifax, Nova Scotia, Canada, August 1-5.

DeJong, R.J., J.A.T. Morgan, M.V. McPhee, G.M. Mkoji and E.S. Loker. 2003. Microsatellite analysis of global Schistosoma mansoni isolates. Presented at the 78th Annual Meeting of the American Society of Parasitologists, Halifax, Nova Scotia, Canada, August 1-5.

LOWREY, T.K.

Frazier, C.K. and T.K. Lowrey. 2003. Combined Natural History Collections Web-accessible Database for New Mexico. Botany 2003 Meeting Abstracts.

Boykin, L.M., L.A. Salter and T.K. Lowrey. 2003. Success of Bayesian methods for rooting phylogenetic trees: A case study using Orcuttieae (Poaceae: Chloridoideae). Society for the Study of Evolution, Chico CA, June.

Boykin, L.M., T.K. Lowrey and W.T. Pockman. 2003. Rooting the Orcuttieae. International Monocot Conference, Monocot Congress, St. Louis MO, April.

Redfern, J. and T.K. Lowrey. 2003. A study of Ocotillo, Fouquieria splendens (Fouquieriaceae), from a phylogeographic and population genetic perspective. Guild of Rocky Mountain Population Biologists Rocky Mountain Research Station, University of Colorado, Boulder CO, September 19-21.

Hall, P.M., T.K. Lowrey and D.L. Marshall. Sexual System Evolution in Callibroe (Malvaceae). Society for the Study of Evolution, Chico CA, June.

Hall, P.M., T.K. Lowrey and D.L. Marshall. Sexual System Evolution in Callihroe (Malvaceae). 12th Annual Research Day, Department of Biology, UNM, April 4.

MARSHALL, D.L.

ERIK LEVE, "The Effect of Pollen Donor Number and Pollen Load Size on Interference Competition in Wild Radish," 12th Annual Research Day, Department of Biology, The University of New Mexico, April 4.

PAULA M. HALL, "Phylogenetic Relationships and Sexual System Evolution in Callirhoë (Malvaceae)," 12th Annual Research Day, Department of Biology, The University of New Mexico, April 4.

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ANDREA HARBISON, oral presentation, "Fluctuating Asymmetry in Reproductive Characters of *Raphanus satirus*," 12th Annual Research Day, Department of Biology, The University of New Mexico, April 4.

ANDRINA ORTIZ, "Improving Efficiency of Restoration Ecology Programs-Distribution Patterns of Repatriated Galápagos Tortoises,"

JERUSHA REYNOLDS, "Gene Flow in Fragmented Populations of *Raphanus sativus* L. on a Landscape Scale," 12th Annual Research Day, Department of Biology, The University of New Mexico, April 4.

MARIEKEN SHANER, poster presentation, "Effects of Pollen Donor Number, Pollen Load Size and Pollen Quality on Non-random Mating Patterns in Wild Radish (*Raphanus sativus* L.)," 12th Annual Research Day, Department of Biology, The University of New Mexico, April 4.

NATVIG, D.O.

Saenz, G.S., D.J. Jacobson, W.H. Dvorachek and D.O. Natvig. 2003. Sympatric biological and phylogenetic species among pseudohomothallic isolates identified as *Neurospora tetrasperma*. Abstract of invited talk and poster presentation at the Fungal Genetics Conference, Asilomar CA, March.

Saenz, G.S., D.J. Jacobson, A.J. Powell, W.H. Dvorachek and D.O. Natvig. 2003. Multiple phylogenetic and reproductive groups among pseudohomothallic isolates identified as *Neurospara tetrasperma*. Abstract of poster presentation at the Annual Meeting of the Mycological Society of America, Asilomar CA, July.

NELSON, M.A.

Quiñones, G.A., G. Montry, G. Harrison and M.A. Nelson. 2003. Evaluation of target DNA used for manufacturing reliable Neurospora crassa cDNA microarrays. 12th Annual Research Day, Department of Biology, UNM, April 4. Note: won the prize for Best Undergraduate Oral Presentation.

Harrison, G., G.A. Quiñones, G. Montry and M.A. Nelson. 2003. Development of robust methods for cDNA microarrays in *Neurospora crassa*. 12th Annual Research Day, Department of Biology, UNM, April 4.

Louderbough, J.V.G., K. Howe and M.A. Nelson. 2003. The role of the *asd-1* gene in sexual development and post-transcriptional silencing in *Neurospora crassa*. 12th Annual Research Day, Department of Biology, UNM, April 4.

POCKMAN, W.T.

Pockman, W.T. and E.E. Small. 2003. Effects of extended drought and above-average precipitation on grassland, shrubland and ecotone vegetation at the Sevilleta LTER. Sevilleta Symposium, Albuquerque NM, January.

Boykin, L.M., T.K. Lowrey and W.T. Pockman. 2003. Rooting the Orcuttieae. Monocot Congress, St. Louis MO, April.

Pockman, W.T. and E.E. Small. 2003. Impact of rainfall variability and woody encroachment on productivity in a semiarid grassland in New Mexico. Workshop of the South-Central Region of National Institute for Global Environmental Change, New Orleans LA, April.

Pockman, W.T., S. Kurc, E.B. Bhark, C. Buxbaum, E.E. Small and S.L. Collins. 2003. Water in the environment at the Sevilleta LTER. NSF Site Review of Sevilleta LTER, August 21.

Snyder, K.A., T.F. Huxman, B.P. Wilcox, R.L. Scott, D.D. Breshears, E.E. Small, R.B. Jackson, W.T. Pockman and K.R. Hultine. 2003. An ecohydrological framework for determining the landscape effects of woody plant encroachment. Annual Meeting of the Ecological Society of America, Savannah GA, August.

McElrone, A.J., W.T. Pockman, R.N. Addington and R.B. Jackson. 2003. 20,000 mm under the surface: Structure and function of deep roots of woody trees in central Texas. Annual Meeting of the Ecological Society of America, Savannah GA, August.

McCulley, R., E.G. Jobbagy, W.T. Pockman and R.B. Jackson. 2003. Understanding patterns of root uptake using strontium isotopes, root and soil nutrient distributions and modeling. Annual Meeting of the Ecological Society of America, Savannah GA, August.

Medeiros, J.A. and W.T. Pockman. 2003. Differences in growth, water use and hydraulic constraints on small and large Larrea tridentata. LTER All-Scientists Meeting, Seattle WA, September.

Pockman W.T., E.E. Small, S. Kurc, E. Bhark, C. Buxbaum and S.L. Collins. 2003. Water cycling across a grassland-shrubland transition zone: The effect of vegetation structure and responses to climate forcing on ecosystem processes. LTER All-Scientists Meeting, Seattle WA, September.

Huxman, T.E., K.A. Snyder, B.P. Wilcox, R.L. Scott, D.D. Breshears, E.E. Small, R.B. Jackson, W.T. Pockman and K.R. Hultine. 2003. Ecohydrology and woody plant encroachment: A conceptual framework for evaluating landscape consequences Annual Meeting of the American Geophysical Union, San Francisco CA, December.

Jackson, R.B., A. McElrone, V. Engel, E.G. Jobbagy and W.T. Pockman. 2003. Interactions among water carbon and nutrient cycles with woody plant encroachment into grasslands. Annual Meeting of the American Geophysical Union, San Francisco CA, December.

McElrone, A., Pockman, W.T. and R.B. Jackson. 2003. Cotterell cave sap flow, etc. Annual Meeting of the American Geophysical Union, San Francisco CA, December.

SINSABAUGH, R.L.

Lauber, C. and R.L. Sinsabaugh. 2003. Inhibiters and inducers of extracellular enzyme activity. Annual Meeting of American Society of Limnology and Oceanography, Salt Lake City UT, February 12. (talk)

Sinsabaugh, R.L., D.R. Zak, M. Waldrop and M.E. Gallo. 2003. N deposition, microbial community organization and soil carbon dynamics in north temperate forests. Soil Ecology Society Biannual Meeting, Palm Springs CA, May 12. (talk) Gallo, M., R. Amonette, C. Lauber, R.L. Sinsabaugh and D.R. Zak. 2003. Microbial community responses to N amendment in North Temperate Forest Soils. Soil Ecology Society Biannual Meeting, Palm Springs CA, May 13. (poster)

Moorhead, D.L. and R.L. Sinsabaugh. 2003. Modeling impacts of N- and polyphenolic inhibition on litter decay. Annual Meeting of Ecological Society of America, Savannah GA, August 5.

Finzi, A.C., E.H. DeLucia, J. Lichter, R.L. Sinsabaugh and W.H. Schlesinger. 2003. Progressive nitrogen limitation to ecosystem function in the Duke Forest FACE Experiment. Annual Meeting of Ecological Society of America, Savannah GA, August 5.

Judd, K.E., B.C. Crump, R.L. Sinsabaugh, G.W. Kling and D.R.Zak, 2003. Dissolved organic carbon in soils, streams, and lakes of an arctic catchement: Linking bioavailability, chemistry, and microbial community composition. Annual Meeting of Ecological Society of America, Savannah GA, August 5.

Antibus, R.K., C. Lauber, R.L. Sinsabaugh and D.R. Zak. 2003. The impact of nitrogen amendment on glomalin content in soils in three forest communities in Lower Michigan, USA. Fourth International Conference on Mycorrhizae, St. Louis MO, August. (talk)

Antibus, R.K., C. Lauber, R.L. Sinsabaugh and D.R. Zak. 2003. The impact of nitrogen amendment on glomalin production in soils in three forest communities in lower Michigan, USA. DOE Terrestrial Carbon Program Meeting, Boulder CO, October 16-17. (poster)

Gallo, M.E., C. Lauber, M. Waldrop, R.L. Sinsabaugh and D.R. Zak. 2003. Nutrient amendment alters soil carbon storage by disrupting the microbial loop: Data from temperate forest ecosystems in northern Michigan. DOE Terrestrial Carbon Program Meeting, Boulder CO, October 16-17. (poster)

Moorhead, D.L. and R.L. Sinsabaugh. 2003. Modeling impacts of nitrogen deposition on decomposition: Interactions with litter quality (poster). DOE Terrestrial Carbon Program Meeting, Boulder CO, October 16-17.

SNELL, H.L.

Ortiz, A. and H.L. Snell. 2003. Improving Efficiency of Restoration Ecology Programs—Dispersal Patterns of Repatriated Galápagos Tortoises. 12th Annual Research Day, Department of Biology, UNM, April 4.

Giermakowski, J.T. and H.L. Snell. 2003. Increasing Data Accuracy in a Regional Collection: Inventory and Quantification of Data Errors. Annual Meeting of the Society for the Preservation of Natural History Collections, Lubbock TX, June.

TAKACS-VESBACH, C.

Maas, K., A. Rodman, A.-L. Reysenbach and C. Takacs-Vesbach. 2003. A microbial inventory of Greater Yellowstone Ecosystem thermal features. Poster presentation, 12th Annual Research Day, Department of Biology, UNM, April 4.

TOOLSON, E.C.

Giiman, C., E.C. Toolson and B.O. Wolf. 2003. Thermal Biology and Behavioral Ecology of the Grasshopper *Trimerotropis pallidipennis* (Orthoptera:Acrididae). Poster presentation, NSF site review of UNM Biology Department's LTER Project.

Phamm, D., B.O. Wolf and E.C. Toolson. 2003. Elemental Stoichiometry in the Grasshopper *Trimerotropis pallidipennis* (Orthoptera:Acrididae). Poster presentation, NSF site review of UNM Biology Department's LTER Project.

Nguyen, J.C., E.C. Toolson and B.O. Wolf. 2003. Effects of Temperature on Metabolism and Ecological Energetics in the Grasshopper *Trimerotropis pallidipennis* (Orthoptera: Acrididae). Poster presentation, NSF site review of UNM Biology Department's LTER Project.

Gilman, C., E.C. Toolson and B.O. Wolf. 2003. Thermal Biology and Behavioral Ecology of the Grasshopper *Trimerotropis pallidipennis* (Orthoptera:Acrididae). Poster presentation, 13th Annual Research Day, Department of Biology, UNM.

Hodson, A. 2003. Behavioral Fever in Response to Fungal Infection in *Trimerotropis pallidipennis* and *Xanthippus corallipes* (Orthoptera: Acrididae). Poster presentation, 13th Annual Research Day, Department of Biology, UNM.

Hopkins, O. and E.C. Toolson. 2003. Preliminary Investigations Into an Unusual Visual Phenomenon Reported By Cavers. Poster presentation, 13th Annual Research Day, Department of Biology, UNM.

TURNER, T.F.

Edwards, M.S. and T.F. Turner. 2003. Using stable isotope analysis techniques to characterize the food web of the Kissimmee River, Florida. Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem, "From Kissimmee to the Keys," Palm Harbor FL, April.

Osborne, M.J., D. Alò, M.A. Benavides and T.F. Turner. 2003. Genetic effects of hatchery propagation in the endangered Rio Grande silvery minnow. Arid Lands Conference, New Mexico State University, Las Cruces NM, April.

Turner, T.F. and D. Alò. 2003. Phylogeography of the orangebelly darter, *Etheostoma radiosum*. Southwestern Association of Naturalists, Norman OK, April.

Edwards, M.S. and T.F. Turner. 2003. Stable isotope analysis of current and historical of Rio Grande food webs. North American Benthological Society, Athens GA, May.

Turner, T.F., G.R. Moyer, M.V. McPhee and K.O. Winemiller. 2003. Comparison of nuclear and mtDNA genes implicate natural selection and demography as primary determinants of intraspecific genetic variation in prochilodontid fishes of northern SA. American Society of Ichthyologists and Herpetologists, Manaus, Brazil, June.

Wares, J.P. and T.F. Turner. 2003. Conservation genetics and evolution of quantitative trait markers in Gila trout. Society for the Study of Evolution, Chico CA, July.

Benavides, M.A., M.J. Osborne, D. Alò and T.F. Turner. 2003. Temporal genetic variability of pelagic eggs in the endangered Rio Grande silvery minnow. Ecological Society of America, Savannah GA, August.

Moyer, G.R., D. Alò, M.J. Osborne and T.F. Turner. 2003. A comparison of genetic effective population size between the Rio Grande silvery minnow and the plains minnow. Desert Fishes Council, Death Valley CA, November.

Osborne, M.J., M.A. Benavides, D. Alò and T.F. Turner. 2003. Genetic effects of hatchery propagation in the endangered Rio Grande silvery minnow. Desert Fishes Council, Death Valley CA, November.

Turner, T.F., J.P. Wares and D. Alò. 2003. Evolution of MHC class I and class II loci among three closely related trouts in the American southwest. Desert Fishes Council, Death Valley CA, November.

THORNHILL, R.

Two at the 2003 Human Behavior and Evolution Society annual meeting.

WERNER-WASHBURNE, M.

Aragon, A.D., M.J. Martinez, J.M. Weber, A.L. Rodriguez, J.A. Timlin, M.B. Sinclair, D.M. Haaland and M. Werner–Washburne. 2003. Identification and removal of contaminating fluorescence in the Cy3 channel of DNA microarrays. Annual Research Day, Department of Biology, UNM, April 4.

Roy, S. and M. Werner–Washburne. 2003. Refining information obtained through data mining. Annual Research Day, Department of Biology, UNM, April 4.

Archuleta, A., J. Martinez and M. Werner–Washburne. 2003. Phenotypic analysis of stationary-phase genes. Annual Research Day, Department of Biology, UNM, April 4.

Jaetao, J., A. Aragon, J. Martinez, G. Quinones and M. Werner-Washburne. 2003. Building a rapid sampler. Annual Research Day, Department of Biology, UNM, April 4.

J. Other.

WERNER-WASHBURNE, M.

Spring: Quantum, UNM

"A Perfect Mix," an NIH Findings article, September.

III. RESEARCH PROJECTS OR OTHER CREATIVE WORK IN PROGRESS OR COMPLETED DURING PERIOD.

- A. Grants and Contracts, Extramural and Intramural.
 - Submitted to all agencies in 2003.

BARTON, L.L.

"Algal Growth Potential of Selected Streams and Rivers in New Mexico"; L.L. Barton, PI; Environment Department, State of New Mexico; \$20,000, June 1, 2003–December 31, 2004.

BROWN, J.H.

"FIBR"; J.H. Brown, F. Smith and G.P. West, co-PIs; NSF; \$5,000,000, September 1, 2004–August 31, 2009.

"LTREB: Experimental Manipulation of Chihuahuan Desert Ecosystems at Portal, AZ"; J.H. Brown, PI; NSF; \$187,497, March 1, 2004–February 28, 2009.

"Resurveying Fish Communities in Australian Desert Springs"; J.H. Brown, PI; RAC, UNM;\$7,500, July–November 2003, \$7,216/year.

CADAVID, L.F.

"Molecular and Functional Characterization of an Ancient Histocompatibility System"; L.F. Cadavid, PI; National Science Foundation; \$508,809, August 2003–August 2006.

"Center for Theoretical and Evolutionary Immunology"; E.S. Loker, PI, L.F. Cadavid, co-PI; National Institutes of Health COBRE Program;\$12,000,000, September 2003–September 2008.

COLLINS, S.L.

"RCN: Functional and Mechanistic Approaches to Understanding the Productivity-diversity Relationship: PDTNet"; S.L. Collins and K. Suding (UC–Irvine); NSF; \$468,000 for five years. Proposal was rated "Meritorius" by the panel, so NSF declined it.

"LTREB: Long-term Ecosystem Responses to More Extreme Precipitation Patterns and Warming"; A. Knapp (Colorado State University), P. Fay (UMinn.–Duluth), M. Smith (Yale), S.L. Collins and J. Blair (Kansas State University), co-PIs, submitted through KSU; \$300,000 for five years. Proposal is still pending.

CRIPPS, R.M.

"Transcriptional Control of Muscle Remodeling in *Drosophila*"; R.M. Cripps; Muscular Dystrophy Association; \$238,000, July 2003–June 2006, \$80,000/year.

"Genetic Control of Heart Morphogenesis in *Drosophila*; R.M. Cripps; American Heart Association; \$198,000, July 2003–June 2006, \$66,000/year.

"The Role of Hox Genes in Patterning the *Drosophila* Heart"; R.M. Cripps; National Science Foundation; \$518,000, July 2003–June 2006, ~\$170,000/year.

DAHM, C.N.

"The Sevilleta Research Field Station: Infrastructure Enhancements for High-quality Water Resources and Wireless Data Transmission"; R.R. Parmenter, W.T. Pockman, S.L. Collins and C. N. Dahm, co-PIs; National Science Foundation; \$101,694, December 1, 2003–November 30, 2006. 216

"Supplement to Sevilleta LTER: Long Term Ecological Research in a Biome Transition Zone"; C.N. Dahm, PI; National Science Foundation; \$52,000, August 1, 2003–July 31, 2004.

"Supplement to Sevilleta LTER: Long Term Ecological Research in a Biome Transition Zone"; C.N. Dahm, PI; National Science Foundation; \$19,955, September 1, 2003–August 31, 2004.

"Collaborative Research: Identification of Microbial Signatures in Biogenic Cave Ferromanganese Deposits"; D.E. Northup, L.J. Crossey, C.N. Dahm and M.N. Spilde. co-PIs; National Science Foundation; \$301,289, June 1, 2003–May 31, 2007.

FAGUY, D.M.

"Genome Sequencing of a Rhizosphere-associated Low-temperature Crenarchaeote"; D.M. Faguy, H. Simon (UW–Madison), G. Olsen (UL–Urbana–Champaign), R. McCombie (Cold Spring Harbors Labs, WA), co-PIs; Joint NSF/USDA Microbial genome Sequencing Program; \$174,979, January 1, 2004–December 31, 2005.

"Chromosome Segregation in Archaea"; D. M. Faguy, PI; INBRE Pilot Project NIH through NMSU; \$98,991, July 1, 2004–June 30, 2005.

"Chromosome Scgregation in Archaea: Characterization of the smc gene of *M. voltae*"; D.M. Faguy, PI; National Science Foundation; \$376,199, July 1, 2004–June 30, 2007.

HANSON, D.T.

"Rubisco Specificity in Red and Brown Macro-algae"; D.T. Hanson, PI; Research Allocations Committee, UNM; \$3,481, June 1, 2003–May 31, 2004.

"Experiment-based Biology Laboratorics: Trial Equipment for Introductory Courses and New Lab Implementation in Advanced Courses"; D.T. Hanson, B.O. Wolf, W.T. Pockman, D.L. Marshall, E.C. Toolson and A. Kodric–Brown, co-PIs; Ocean Optics Educational Grant Program B, Cost Sharing Award; \$4,501, November 11, 2003–May 11, 2004.

"How Does Red Rubisco Outperform Green Rubisco?"; D.T. Hanson, PI; National Science Foundation (NSF) Molecular and Cellular Biosciences (MCB); \$397,219, June 1, 2004–May 31, 2007, Year 1: \$173,816.

"Instrumentation to Support Undergraduate Plant and Animal Physiology Laboratories"; B.O. Wolf, D.T. Hanson, W.T. Pockman, D.L. Marshall and E.C. Toolson, co-PIs; NSF Course, Curriculum, and Laboratory Improvement (CCLI) Adaptation and Implementation; \$183,719, June 1, 2004–May 31, 2005.

"Climatic and Anthropogenic Controls on Carbon and Nitrogen Cycle Coupling in an Arid Ecosystem: The Nutrient-Climate Interaction (NuClimX) Experiment"; S. Collins, R.L. Sinsabaugh, S. Cabaniss, D.T. Hanson (key personnel), co-PIs; NSF Coupled Biogeochemical Cycles (CBC); \$2 million, July 1, 2004–July 1, 2009.

HOFKIN, B.V.

"Resolving the Origin of the Galápagos Land Iguana *Conolophus subcristatus* from North Seymour Island: Implications for Iguana Conservation"; B.V. Hofkin, PI; UNM Research Allocation Committee; \$7,480, January–September, 2004.

KODRIC-BROWN, A.

"Evolution of Reproductive Isolation in Pupfish"; A. Kodric-Brown, PI; National Science Foundation; \$324,334, January 1, 2004–December 31, 2006, \$108,111/year.

"Resurveying Fish Communities in Australian Desert Springs"; A. Kodric–Brown and J.H. Brown, Co-PIs; NSF; \$72,000, June 15, 2003–December 31, 2003.(Not funded, but still sabbatical leave project.)

LOKER, E.S.

"Evo-epidemiology of *Schistosoma mansoni* in Western Kenya"; E.S. Loker, PI; National Institutes of Health (NIH); \$1,497,748, April 1, 2004–March 31, 2009.

MARSHALL, D.L.

"Gene Flow in Fragmented Populations"; D.L. Marshall and J. Reynolds, co-PIs; subcontract from Arizona State University for an NSF-funded program; \$18,461, June 1, 2003–August 31, 2004.

"Noyce Scholarships to Improve Secondary Science Teaching in New Mexico"; D.L. Marshall, K. Watkins, D. Earick and W. Marting, co-PIs; National Science Foundation; \$500,000, January 1, 2004–December 31, 2007, declined.

"Laboratory Equipment for Implementation of Experiment-based Introductory Biology Laboratories"; W.T. Pockman, D.T. Hanson, D.L. Marshall, E.C. Toolson and B.O. Wolf, co-PIs; DOD; \$199,610, August 9, 2004–July 31, 2006.

"Instrumentation to Support Undergraduate Plant and Animal Physiology Laboratories"; B.O. Wolf, D.T. Hanson, D.L. Marshall, W.T. Pockman and E.C. Toolson, co-PIs; NSF; \$183,719, June 1, 2004–May 31, 2007.

"Experiment-based Biology Laboratories: Trial Equipment for Introductory Courses and New Lab Implementation in Advanced Courses, Grant #115"; D.T. Hanson, B.O. Wolf, W.T. Pock-

man, D.L. Marshall, E.C. Toolson and A. Kodric–Brown, co-PIs; Ocean Optics Educational Grant Program; \$4,501.21, November 11, 2003–May 11, 2004.

"Conceptually Advanced Reform of Education in the Sciences (CARES)"; R. Dasenbrock, A. Aceves, D.L. Marshall, C. Chandler and M. Ondrias, co-PIs; NSF; ~\$2,000,000. Declined.

MILLER, R.D.

"COBRE Center for Evolutionary and Theoretical Immunology"; E.S. Loker, PI, R.D. Miller, co-PI; NIH; \$11,393,866.

"RAC Structure and Content of the Major Histocompatibility Complex in a Viviparous Reptile"; R.D. Miller, PI; UNM; \$7,337.

NELSON, M.A.

"Functional Analysis of a Model Filamentous Fungus: ESTs"; J. Dunlap, Dartmouth Medical School, PI, M.A. Nelson, co-PI, and PI on Project 4; NIGMS Program Project Grants, National Institutes of Health; site-reviewed December 12, 2003, awarded in full, with a start date of April 1, 2004, April 1, 2004–March 31, 2009; direct costs: Year 1, UNM part of award (Project 4); \$166,039.

POCKMAN, W.T.

"Postdoctoral Research: Controls over Plant and Ecosystem Carbon Isotope Fluxes and Wateruse Efficiency: A Study in Bandelier National Monument"; N. McDowell and W.T. Pockman, co-PIs; National Parks Ecological Research Fellowship Program; \$150,000, March 1, 2004–February 28, 2007.

"Root Zone Soil Moisture from Space Observations?"; J. Hendrickx and W.T. Pockman, co-PIs (with five other collaborators); NASA; \$919,000 (UNM sub-contract \$315,265), 2003–2006.

"Collaborative Research: Using Non-destructive Electromagnetic Techniques to Quantify the Drought Response of Whole Plants"; W.T. Pockman, PI; P. Ferre, E. Burke and T. Huxman (University of Arizona), co-PIs; National Science Foundation, Ecological and Evolutionary Physiology Panel; \$40,583 (total project budget \$396,000), July 1, 2003–June 30, 2006.

"Water Transport Limits of Native and Non-native Riparian Trees along the Middle Rio Grande"; W.T. Pockman and A.N. Trafton, co-PIs; U.S. Fish and Wildlife Service, Bosque Improvement Group; \$43,585 (funding cut for program), July 1, 2003–June 30, 2004.

"Riparian Evapotranspiration: Evaluating the Effectiveness of Restoration Projects through Improved Depletion Predictions"; J. Cleverly, C.N. Dahm and W.T. Pockman, co-PIs; U.S. Fish and Wildlife Service, Endangered Species Workgroup–Science Committee; \$714,250, September 2003–August 2006.

"Experiment-based Biology Laboratories: Trial Equipment for Introductory Courses and New Lab Implementation in Advanced Courses"; D.T. Hanson, B.O. Wolf, W.T. Pockman, D.L. Marshall, E.C. Toolson, A. Kodric–Brown, co-PIs; Ocean Optics Educational Grant, Program B, Grant #115; \$4,501.21, November 11, 2003–May 11, 2004.

"The Sevilleta Research Field Station: Infrastructure Enhancements for High-quality Water Resources and Wireless Data Transmission"; R.R. Parmenter, PI, S.L. Collins, C.N. Dahm and W.T. Pockman, co-PIs; NSF Biological Field Stations and Marine Labs; \$76,270, December 1, 2003–November 30, 2006.

"Dendroecology as a Tool for Assessing past Land-use in Arid Zones: Wood Structure and Isotopic Composition of a Patagonian Shrub as a Record of Grazing History"; InterAmerican Institute (IAI) for Global Change Research; R.J. Fernandez, A. Wolodarsky–Franke and W.T. Pockman, co-PIs (administered through University of Buenos Aires, Argentina); \$30,000, November 1, 2003–October 31, 2004.

"Laboratory Equipment for Implementation of Experiment-based Introductory Biology Laboratories"; W.T. Pockman, PI, D.M. Marshall, D.T. Hanson, E.C. Toolson and B.O. Wolf, co-PIs; DoD Instrumentation and Research Support Program for Historically Black Colleges and Universities and Minority Institutions; \$199,610, August 9, 2004–August 8, 2007.

"Instrumentation to Support Undergraduate Plant and Animal Physiology Laboratorics"; B.O. Wolf, PI, D.M. Marshall, D.T. Hanson, E.C. Toolson and W.T. Pockman, co-PIs; NSF DUE-CCLI Adaptation and Implementation; \$183,719, June 1, 2004–May 30, 2007.

POE, S.

"Anolis Lizard Phylogeny, Taxonomy, Genomics, and Databasing: A Model System for Systematic Analyses"; S. Poe; National Science Foundation CAREER; \$600,000, January 2004–January 2009, \$120,000/year.

SINSABAUGH, R.L.

"Distribution of Stream Biofilm Bacteria in Relation to Natural and Anthropogenic Gradients in Dissolved Organic Matter"; R.L. Sinsabaugh, S. Findlay, C. Takacs-Vesbach, co-PIs; NSF MIP Program; \$500,000, July 2003–July 2006, 166,000/year.

STRICKER, S.A.

"MAPK Activity During Egg Maturation and Death"; S.A. Stricker, PI, W. Rudolph, co-PI; RAC Interdisciplinary Grant, UNM;\$7,500, starting June.

SNELL, H.L.

"Spatial Correlation of New Mexican Biological Diversity and Threats to Its Persistence: Contributions Towards A Biodiversity Vision for New Mexico"; Research Allocation Committee, UNM, \$7,000.

TAKACS-VESBACH, C.

"A Microbial Inventory of the Greater Yellowstone Ecosystem Thermal Features"; C. Takacs-Vesbach, PI; NSF REU Supplement; \$5,950, June 1, 2003–July 31, 2005.

"A Microbial Inventory of the Greater Yellowstone Ecosystem Thermal Features"; C. Takacs-Vesbach, A.-L. Reysenbach, co-PIs; NSF ROA Supplement; \$17,186, June 1, 2003–July 31, 2005. "Role of Secondary Metabolites and Their Diagenetic Products in The Organization of Freshwater Bacterioplankton Communities"; R.L. Sinsabaugh, C. Takacs–Vesbach, D.M. Faguy, S. Cabaniss and S. Findlay, co-PIs; NSF; proposal declined. ココロ

"Distribution of Stream Biofilm Bacteria in Relation to Natural and Anthropogenic Gradients in Dissolved Organic Matter"; S. Findlay, R.L. Sinsabaugh, C. Takacs–Vesbach, co-PIs; NSF; proposal declined.

"Collaborative Research: Hydrologic Controls over Biogeochemistry and Microbial Community Structure and Function Across Terrestrial/aquatic Interfaces in a Polar Desert"; C. Takacs–Vesbach, M. Gooseff and J. Barret, co-PIs; NSF; \$160,747 (UNM), July 1, 2004–June 30, 2007, Year 1: \$54,050, Year 2: \$56,265, Year 3: \$50,432.

"A Research Coordination Network for Thermal Biology in Yellowstone National Park"; W. Inskeep and M. Young, PIs, with participants from 12 universities and agencies including C. Takacs–Vesbach (UNM); NSF; no funds for UNM.

TOOLSON, E.C.

"Laboratory Equipment for Implementation of Experiment-based Introductory Biology Laboratories"; W.T. Pockman, PI, D.M. Marshall, D.T. Hanson, E.C. Toolson and B.O. Wolf, co-PIs; DoD Instrumentation and Research Support Program for Historically Black Colleges and Universities and Minority Institutions; \$199,610, August 9, 2004–August 8, 2007.

"Instrumentation to Support Undergraduate Plant and Animal Physiology Laboratories"; B.O. Wolf, PI, D.M. Marshall, D.T. Hanson, E.C. Toolson and W.T. Pockman, co-PIs; NSF DUE-CCLI Adaptation and Implementation; \$183,719, June 1, 2004–May 30, 2007.

TURNER, T.F.

"Travel Supplement to the CAREER Award"; T.F. Turner, PI; National Science Foundation; 2004–05, \$15,157. Pending.

"Historical and Current Ecosystem Function in the Murray River (Australia)"; A.I. Robertson, PI, T.F. Turner, co-PI; Land and Water Foundation, Australia; 2004–05, \$10,000. Pending.

"Dispersal and Metapopulation Structure of the Southwestern Willow Flycatcher in the Middle Rio Grande Valley: How Do New Populations Become Established in Restored Habitats?"; P.B. Stacey, T. F. Turner co-PIs; US Bureau of Reclamation; July 1, 2003– June 30, 2005, \$356,618, \$119,049/year.

"Supplemental Award for Genetic Monitoring of Wild and Captively-propagated Rio Grande Silvery Minnow Stocks"; T.F. Turner, PI; N.M. Department of Game and Fish, May 30, 2003– June 30, 2003,\$72,000.

VOGEL, K.G.

"Biology Laboratories for Comparative Genomics"; R. Dasenbrock, PI, K.G. Vogel, co-PI; National Institutes of Health, Infrastructure; \$4.2 million, not funded.

WERNER-WASHBURNE, M.

"T32 Training Grant in Genomics"; M. Werner–Washburne, co-PI; SACNAS-sponsored; submitted June 1, 2003, starts Spring 2004, currently funded at \$2.5M direct.

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WOLF, B.O.

"Laboratory Equipment for Implementation of Experiment-based Introductory Biology Laboratories"; W.T. Pockman, PI, D.T. Hanson, D.L. Marshall, E.C. Toolson and B.O. Wolf, co-PIs; Department of Defense (DOD) Instrumentation for Historically Black Colleges and Universities and Minority Institutions (HBSU/MI); \$199,610, August 9, 2004–August 9, 2005 (pending).

"Instrumentation to Support Undergraduate Plant and Animal Physiology Laboratories"; B.O. Wolf, PI, D.T. Hanson, D.L. Marshall and E.C. Toolson, co-PIs; NSF DUE Course, Curriculum, and Laboratory Improvement (CCLI), \$183, 917, June 1, 2004–May 31, 2007(pending).

2. Awarded with 2003 initial start date.

ALTENBACH, J.S.

"Evaluation of Bat Habitat in Abandoned Mines in New Mexico"; J.S. Altenbach, PI; New Mexico Energy, Minerals and Natural Resources Division; \$14,000, July 1, 2003–June 30, 2004.

BARTON, L.L.

"Algal Growth Potential of Selected Streams and Rivers in New Mexico"; L.L. Barton, PI; Environment Department, State of New Mexico; \$20,000, June 1, 2003–December 31, 2004.

BROWN, J.H.

"Resurveying Fish Communities in Australian Desert Springs"; J.H. Brown, PI; RAC, UNM; \$7,500, July–November 2003, \$7,216/year.

CADAVID, L.F.

"Molecular and Functional Characterization of an Ancient Histocompatibility System"; L.F. Cadavid, PI; National Science Foundation; \$508,809, August 2003–August 2006.

"Center for Theoretical and Evolutionary Immunology"; E.S. Loker, PI, L.F. Cadavid, co-PI; National Institutes of Health COBRE Program;\$12,000,000, September 2003–September 2008. Note: I became ineligible to participate in this project because I was awarded the above NSF grant.

COOK, J.A.

UNM:

"Molecular Genetics of Coastal and Insular Mammals"; J.A. Cook, PI; U.S. Fish and Wildlife Service, Juneau, Alaska; \$35,000, October 2003–December 2004.

Idaho St. Univ.:

"Undergraduate Mentoring Environmental Biology Program"; J.A. Cook, PI, with five Idaho co-PIs; National Science Foundation; \$391,000, 2003–2007.

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"Inventory of SWAN Parks"; J.A. Cook, PI; National Park Service Coop Agreement; \$71,000, 2003.

Aleutian Ground Squirrels: Endemics or Exotics; J.A. Cook, PI; U.S. Fish and Wildlife Service, Homer, AL; \$25,351, 2003–2004.

"Molecular and Morphological Perspectives on the Dynamics of a Post-glacial Contact Zone"; J.A. Cook, PI; National Science Foundation 0309377 Dissertation Research (Amy Runck); \$11,018, October 2003–June 2005.

CRIPPS, R.M.

"Transcriptional Control of Muscle Remodeling in *Drosophila*"; R.M. Cripps; Muscular Dystrophy Association; \$238,000, July 2003–June 2006, \$80,000/year.

DAHM, C.N.

"Supplement to Sevilleta LTER: Long Term Ecological Research in a Biome Transition Zone"; C.N. Dahm, PI; National Science Foundation; \$52,000, August 1, 2003–July 31, 2004.

"Supplement to Sevilleta LTER: Long Term Ecological Research in a Biome Transition Zone"; C.N. Dahm, PI; National Science Foundation; \$19,955, September 1, 2003–August 31, 2004.

"Collaborative Research: Identification of Microbial Signatures in Biogenic Cave Ferromanganese Deposits"; D.E. Northup, L.J. Crossey, C.N. Dahm and M.N. Spilde. co-PIs; National Science Foundation; \$301,289, June 1, 2003–May 31, 2007. The proposal was funded in 2003 for \$291,644, August 15, 2003–July 31, 2007.

GOSZ, J.R.

"Research and Education Laboratory—Sevilleta (Design and Construction)"; J.R. Gosz, PI; U.S. Fish & Wildlife Service, Department of Interior; \$590,139, November 1, 2003–July 31, 2004.

"Supplement to the New Mexico Experimental Program to Stimulate Competitive Research (EPSCoR) RII Award"; J.R. Gosz, PI; National Science Fundation (NSF); \$60,000, March 2003.

HANSON, D.T.

"Rubisco Specificity in Red and Brown Macro-algae"; D.T. Hanson, PI; Research Allocations Committee, UNM; \$3,481, June 1, 2003–May 31, 2004.

"Experiment-based Biology Laboratories: Trial Equipment for Introductory Courses and New Lab Implementation in Advanced Courses"; D.T. Hanson, B.O. Wolf, W.T. Pockman, D.L. Marshall, E.C. Toolson and A. Kodric-Brown, co-PIs; Ocean Optics Educational Grant Program B, Cost Sharing Award; \$4,501, November 11, 2003–May 11, 2004.

LOKER, E.S.

"COBRE: Center for Evolutionary and Theoretical Immunology"; E.S. Loker, PI; NIH, National Center for Research Resources, P20 RR018754; \$7,732,729, September 30, 2003–June 30, 2008.

MARSHALL, D.L.

"Gene Flow in Fragmented Populations"; D.L. Marshall and J. Reynolds, co-PIs; subcontract from Arizona State University for an NSF-funded program; \$18,461, June 1, 2003–August 31, 2004.

"Experiment-based Biology Laboratories: Trial Equipment for Introductory Courses and New Lab Implementation in Advanced Courses, Grant #115"; D.T. Hanson, B.O. Wolf, W.T. Pockman, D.L. Marshall, E.C. Toolson and A. Kodric–Brown, co-PIs; Ocean Optics Educational Grant Program; \$4,501.21, November 11, 2003–May 11, 2004.

MILLER, R.D.

"Structure and Evolution of the MHC in a Model Marsupial"; R.D. Miller, PI; NSF; \$420,000, May 1, 2003–April 30, 2007.

"COBRE Center for Evolutionary and Theoretical Immunology"; E.S. Loker, PI, R.D. Miller, co-PI; NIH;\$2,393,866, September 30, 2003–June 30, 2004.

"RAC Structure and Content of the Major Histocompatibility Complex in a Viviparous Reptile"; R.D. Miller, PI; UNM; \$7,337.

NELSON, M.A.

"ATMS/Diazotization Chemistry for the Covalent Attachment of Nucleic Acids: Optimization for Microarray Analyses"; M.A. Nelson, PI, and G. Lopez, co-PI; RAC Award, UNM; \$7,460, May 1–September 30, 2003.

POCKMAN, W.T.

"Impact of Rainfall Variability and Woody Encroachment on Productivity in a Semiarid Grassland in New Mexico"; W.T. Pockman, PI, and E.E. Small; DOE-NIGEC; \$289,498, September 1, 2003–August 30, 2006.

"The Sevilleta Research Field Station: Infrastructure Enhancements for High-quality Water Resources and Wireless Data Transmission"; R.R. Parmenter, PI, S.L. Collins, C.N. Dahm and W.T. Pockman, co-PIs; NSF Biological Field Stations and Marine Labs; \$76,270, December 1, 2003–November 30, 2006.

"Riparian Evapotranspiration: Evaluating the Effectiveness of Restoration Projects through Improved Depletion Predictions"; J. Cleverly, C.N. Dahm and W.T. Pockman, co-PIs; U.S. Fish and Wildlife Service, Endangered Species Workgroup–Science Committee; \$714,250, September 2003–August 2006. "Experiment-based Biology Laboratories: Trial Equipment for Introductory Courses and New Lab Implementation in Advanced Courses"; D.T. Hanson, B.O. Wolf, W.T. Pockman, D.L. Marshall, E.C. Toolson, A. Kodric–Brown, co-PIs; Ocean Optics Educational Grant, Program B, Grant #115; \$4,501.21, November 11, 2003–May 11, 2004.

SINSABAUGH, R.L.

"Role of Solar Ultraviolet Radiation in Organic Matter Decomposition in Arid Ecosystems"; R.L. Sinsabaugh and S. Cabaniss, co-PIs; UNM RAC; \$7,500, April–December 2003.

"Can We Now Determine If, When, and How Microbial Community Composition Impacts Ecosystem Processes? Will That Understanding Yield Critical New Information about Ecosystem Function and Response to Change?"; J. Schimel, M. Firestone, M. Allen, R.L. Sinsabaugh, J. Neff, B. Bohannan and K. Treseder, co-PIs; National Center for Ecological Analysis and Synthesis; \$12,420, January 2004–January 2006.

SNELL, H.L.

"Southern Isabela---A Hotspot for Galápagos Conservation"; H.L. Snell, C. Márquez and D. Wiedenfeld, co-PIs; The Swiss Friends of Galápagos,2003-2004, \$40,000.

STRICKER, S.A.

"MAPK Activity During Egg Maturation and Death"; S.A. Stricker, PI, W. Rudolph, co-PI; RAC Interdisciplinary Grant, UNM;\$7,500, starting June.

TAKACS-VESBACH, C.

"A Microbial Inventory of the Greater Yellowstone Ecosystem Thermal Features"; C. Takacs-Vesbach, PI; NSF REU Supplement; \$5,950, June 1, 2003–July 31, 2005.

"A Microbial Inventory of the Greater Yellowstone Ecosystem Thermal Features"; C. Takacs-Vesbach, A.-L. Reysenbach, co-PIs; NSF ROA Supplement; \$17,186, June 1, 2003–July 31, 2005.

TURNER, T.F.

"REU Supplement to CAREER Award"; T.F. Turner, PI; National Science Foundation; May 1, 2003–April 30, 2007,\$6,000.

"Dissertation Research: Stable Isotope Analysis of Current and Historical Aquatic Food Webs"; T.F. Turner, PI, M. Edwards, co-PI; National Science Foundation; June 1, 2003–May 1, 2004, \$8,000.

"Supplemental Award for Genetic Monitoring of Wild and Captively Propagated Rio Grande Silvery Minnow Stocks"; T.F. Turner, PI; N.M. Department of Game and Fish; May 30, 2003– June 30, 2003, \$72,000.

WOLF, B.O.

"Research Experiences for Undergraduates (REU) supplement, Sevilleta LTER VI, Ecological Stoichiometry of a Desert Grasshopper Community"; S.L. Collins, PI, C.N. Dahm, W.T. Pockman, B.O. Wolf and T.L. Yates, co-PIs; NSF; \$6,000, April 1–December 31, 2003.

"Research Experiences for Undergraduates (REU) supplement, Columnar Cacti: A Critical Resource for Avian Consumers? Quantifying Avian Community Responses and Nutrient Fluxes in Natural and Experimental Settings"; B.O. Wolf, PI; NSF Ecology Panel, DEB-0213659; \$6,000, April 1–December 31, 2003.

3. In force from previous years.

ALTENBACH, J.S.

"Evaluation of Bat Habitat in Abandoned Mines in New Mexico"; J.S. Altenbach, PI; New Mexico Energy, Minerals and Natural Resources Division; \$14,000, July 1, 2002–June 30, 2003.

BARTON, L.L.

"Corrosion of Depleted Uranium"; L.L. Barton, PI; Dowbeggin Limited, Inc.; \$79,980; December 1, 2001–August 15,2003.

"Algal Growth Potental"; L.L. Barton, PI; Environment Department, State of New Mexico; \$14,792; March 1, 2001–December 31, 2003.

IMSD/MBRS

BROWN, J.H.

"Scaling of Biodiversity: Physical and Biological Foundations of Ecological Principals"; B.T. Milne and G.B. West, co-PIs; NSF Grant DEB-0083422; \$2,500,000, 2000–2005.

"Biological Scaling Laws: Interdisciplinary Collaboration Between Physics and Biology"; J.H. Brown and G.B. West, co-PIs; David and Lucille Packard Foundation #99-8330; \$960,000, 1999–2003.

COLLINS, S.L.

"Sevilleta Long-term Ecological Research Program"; S.L. Collins, PI, W.T. Pockman, B.O. Wolf, J.R. Gosz, D. Peters and R.R. Parmenter, co-PIs; NSF; \$2,800,000 plus supplements; November 1, 2002–October 31, 2006,last year supplements to the annual award totaled ~\$71,000.

COOK, J.A.

"An Arctic Archival Observatory (9981915)"; J.A. Cook, PI, with Gangloff, Winker, Jarrell and Oswood, co-PIs), co-PI status in 2000; National Science Foundation, \$1,100,000, May 2000–May 2004.

"The Beringian Coevolution Project"; J.A. Cook, PI, Hoberg and Telford, co-PIs; National Science Foundation DBI-9972154 (moved to ISU as 0196095); \$240,243, 3 years, August 2001–August 2003.

"The Beringian Coevolution Project, UNM Coccidia and Siberian Invertebrates"; J.A. Cook, PI; National Science Foundation Supplement to 0196095; \$70,677, ended 2003, August 2001– August 2003.

CRIPPS, R.M.

"Genetic Regulation of Muscle Fiber Diversity"; R.M. Cripps, PI; National Institutes of Health; \$1,040,000, direct and indirect costs, May 2001–April 2006, \$210,000/year.

"Molecular Genetic Analysis of Heart Muscle Remodeling"; R.M. Cripps, PI; American Heart Association, Desert/Mountain Affiliate; \$110,000, direct and indirect costs only, July 2001–June 2003.

"Regulation and Function of the Actin57B Gene in Drasophila"; K. Kelly, PI, R.M. Cripps, sponsor; American Heart Association, Desert/Mountain Affiliate; \$20,000, July 2002–July 2003.

DAHM, C.N.

"REU Supplement to Collaborative Research: NO₃-N Retention in Headwater Streams: Influences of Riparian Vegetation, Metabolism, and Subsurface Processes"; C.N Dahm, PI; National Science Foundation, \$12,000, June 1, 2002–May 31, 2003.

"LTER: Sevilleta Long Term Ecological Research III: Long Term Ecological Research in a Biome Transition Zone Supplement"; C.N. Dahm, PI; National Science Foundation; \$8,000, August 1, 2002–July 31, 2003.

"Sevilleta LTER: Long Term Ecological Research in a Biome Transition Zone"; C.N. Dahm, W.T. Pockman, B.O Wolf, R.R. Parmenter and T.L. Yates, co-PIs; National Science Foundation; \$700,000, November 1, 2002–October 31, 2003.

"Nitrate Uptake and Retention in Streams: Mechanisms and Effects of Human Disturbance from Stream Reaches to Landscapes"; subcontract from the University of Tennessee on a National Science Foundation award; \$138,751, April 1, 2002–March 31, 2007.

"Riparian Ecosystem Restoration: Effects of Flooding and Vegetation Type on Evapotranspiration"; C.N. Dahm and J.R. Cleverly, co-PIs; U.S. Fish and Wildlife Service Bosque Improvement Group; \$94,800, April 16, 2001–April 15, 2003.

"Biocomplexity—Incubation Activity: Drought in Mesic and Arid Environments—Climatology, Biotic Responses, and Feedbacks"; C.N Dahm and D.S. Gutzler, co-PIs; National Science Foundation via subcontract from the University of Alabama; \$49,997, April 1, 2001–January 31, 2003.

"IGERT: Freshwater Graduate Studies Link Fundamental Science with Applications Through Integration of Ecology, Hydrology and Geochemistry in Regions with Contrasting Climates"; A.K. Ward, A.C. Benke, C.N. Dahm, W.B. Lyons, and R.G. Wetzel, co-PIs; \$2,699,289; National Science Foundation; January 1, 1999–December 31, 2004. 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–May 31, 2003.

"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–January 31, 2003.

GOSZ, J.R.

"New Mexico Experimental Program to Stimulate Competitive Research (EPSCoR) Infrastructure Proposal"; JR. Gosz, PI; National Science Foundation (NSF); \$6,200,000; March 1 2002–February 28, 2005, Year 1: \$1,700,000, Year 2: \$2,100,000, Year 3: \$2,400,000.

"U.S. Hungary Grassland Comparisons: Biodiversity, Disturbance, and Landscape Mosaics"; D. Peters and J.R. Gosz, co-PIs; National Science Foundation (NSF); \$200,054, September 2000–September 2003, Year 1: \$70,218, Year 2: \$63,84, Year 3: \$65,994.

"Undergraduate Mentorships in Environmental Biology (UMEB): Undergraduate Career Enhancement and Training in Ecological Studies"; R.R. Parmenter, W.L. Gannon and J.R.Gosz, co-PIs; National Science Foundation (NSF); \$400,000, September 1, 2001–August 31, 2005, \$100,000 annually.

"Cross-site Contrasts of Global Change and Ecotonal Dynamics: Relationships among Abiotic Stress and Positive and Negative Interactions" (subcontract); J.R. Gosz, PI; National Science Foundation (NSF); \$62,897, October 1, 2000–September 30, 2003, \$20,349/year.

LOKER, E.S.

"Biomphalaria in Egypt: Understanding the Changing Biology of the Snails that Transmit Schistosomiasis"; E.S. Loker, U.S. PI, Dr. Wael Lotfy, Egyptian PI; U.S.-Egypt Joint Science and Technology Board; \$50,000; August 1, 2002–July 31, 2004.

"Biology of Trematode–Snail Associations"; E.S. Loker, PI; NIH, RO1 AI24340-14-18; \$830,662; February 1, 2000–January 31, 2005.

"Evolution of Schistosoma mansoni and its Snail Hosts"; E.S. Loker, PI; NIH, RO1 AI44913-1-5, \$853,857, April 1, 1999–March 31, 2004.

LOWREY, T.K.

"Institute for Natural Resource Analysis and Management, New Mexico EPSCoR"; T.K. Lowrey, co-PI and Coordinator; Biodiversity, National Science Foundation; \$790,000; March 1, 2002–February 28, 2005.

MARSHALL, D.L.

REU supplement to "Pollen Competition in Wild Radish"; D.L. Marshall, PI; National Science Foundation; \$5,000, June 1, 2002–May 31, 2003.

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"Gene Flow and Population Dynamics at the Landscape Level"; D.L. Marshall, PI; Arizona State University/NSF; \$21,000, July 1, 2002–June 30, 2003.

"Pollen Competition in Wild Radish: Effects of Variation in Pollen Load Size and Composition on Seed Paternity and Progeny Growth"; D.L. Marshall, PI; National Science Foundation; \$168,705, March 1, 2000–February 28, 2004.

MILLER, R.D.

"Immunoglobulin Genetics in Non-eutherian Mammals"; R.D. Miller, PI; NSF; \$365,000, May 1, 2000–April 30, 2003.

MILNE, B.T.

"Self-organization of Semi-arid Landscapes: Tests of Optimality Principle"; B.T. Milne, PI; NSF; \$674,911, January 2000–February 2004, \$175,000/year.

"Scaling of Biodiversity: Physical and Biological Foundations of Ecological Principles"; J.H. Brown and B.T. Milne, co-PIs; NSF, \$2,500,000, 2000–2005.

"EPA Star Fellowship for Melanie Moses"; B.T. Milne, PI; Environmental Protection Agency; \$8,999, 2000–2003, \$8,999/year.

"Collaborative Research: Scaling and Allometry in River Networks: Coupling Rainfall, Topography and Vegetation with Hydrological Extremes"; B.T. Milne, PI; NASA (as subcontract through University of Colorado, Boulder); \$87,000, 2000–2003.

MOLLES, M.C. JR.

"Flooding Regime and Restoration of Riparian Ecosystem Integrity"; M.C. Molles, Jr., C.N. Dahm, H.M. Valett, C.S. Crawford and P.V. Unnikrishna, co-PIs; NSF Ecosystems; 1999–2003, \$492,000.

NATVIG, D.O.

"Collaborative Research: Signaling via Opsins and Opsin-Related Proteins in Fungi"; D.O. Natvig, PI; NSF (MCB-0078306); \$270,000, August 1, 2000–July 31, 2004.

"Initiative for Minority Student Development at UNM"; E. Walters, PI, D.O. Natvig, co-PI; NIH; \$2,285,329, February 1, 2000–January 31, 2004; \$570,000/yr.

NELSON, M.A.

"Minority Access to Research Carcers (MARC) Program"; K.G. Vogel, PI, Mary Anne Nelson, co-PI; National Institutes of Health; \$1.2 million, August 1, 2000–July 31, 2003.

"Initiative for Minority Student Development at UNM; N. Ahmed, PI, M.A. Nelson, co-PI; National Institutes of Health; \$2,122,248, February 1, 2000–January 31,2004, \$570,000/year.

"The Neurospora Genome Project at UNM: Expressed Sequence Analyses"; M.A. Nelson, PI; National Science Foundation; \$557,798, February 1, 1999–January 31, 2003, Year 1: \$176,938, Year 2: \$185,786, Year 3: \$195,073 (direct plus indirect costs). This grant was funded in full.

POCKMAN, W.T.

"Self-organization of Semi-arid Landscapes: Tests of Optimality Principles"; B.T. Milne, PI, D. Bader, W.T. Pockman and C. Restrepo, co-PIs; NSF—DEB Ecosystems Panel; \$674,911; January 1, 2000–February 28, 2003 (no cost extension February 29, 2004).

"PrecipNet: A Working Group of the National Center for Ecological Analysis and Synthesis (NCEAS)"; M. Loik, U.C.-Santa Cruz, PI (with 15 participants); first meeting: March 21, 2002; second meeting: September 5-7, 2002; third meeting: March 2003.

"Dendroecology as a Tool for Assessing past Land-use in Arid Zones: Influence of Site Grazing on Wood Structure, Hydraulic Properties and Cellulose-deuterium Content of a Patagonian Shrub"; InterAmerican Institute (IAI) for Global Change Research; R.J. Fernandez, A. Wolodarsky–Franke and W.T. Pockman, co-PIs (administered through University of Buenos Aires, Argentina); \$29,900, November 1,2002–October 31, 2003.

"The Contribution of Deep Roots to Whole-plant Water Relations and Xylem Transport"; R.B. Jackson and W.T. Pockman, co-PIs; USDA-National Research Initiatives, Plant Responses to the Environment Panel; \$135,000 (UNM subcontract \$55,000), July 1, 2000–June 30, 2002 (no cost extension to July 31, 2003).

"Field Research Grant: Studies of the Structural and Functional Responses of Plants to Land-Use Change in Patagonia"; W.T. Pockman, PI; Latin American and Iberian Institute, UNM; \$1,126, June 2003.

"Sevilleta Long Term Ecological Research IV: Long Term Ecological Research in a Biome Transition Zone"; S.L. Collins, PI, C.N. Dahm, R.R. Parmenter, W.T. Pockman B.O. Wolf and T.L. Yates, co-PIs, plus 17 non-signatory co-PIs; NSF-DEB, LTER Program; \$2,800,000, October 1, 2002–September 30, 2006.

SINSABAUGH, R.L.

"Water Quality Dynamics in the Western Basin of Lake Erie"; S. Goldman, R.L. Sinsabaugh and D.L. Moorhead, co-PIs; U.S. EPA SRF Program; \$498,900, July 2001–June 2004.

"Sedimentation and Emergent Plant Decay in Great Lakes Coastal Wetlands"; R.K. Neely and R.L. Sinsabaugh, co-PIs; Michigan SeaGrant; \$140,000, January 2001–January 2003.

"Mechanics of Soil Carbon Sequestration by Nitrogen"; R.L. Sinsabaugh, D.R. Zak and D.L. Moorhead, co-PIs; DOE Carbon Sequestration Program, DE-FG02-00ER62998; \$600,000, September 2000–September 2004.

"Microbial Organization in Relation to DOC Processing along Hyporheic Flow Paths (9806466)"; S. Findlay and R.L. Sinsabaugh, co-PIs; NSF Ecological Studies Program; \$441,164, September 98–September 2003.

SNELL, H.L.

"Control Total de Especies Introducidas en Las Islas Galápagos"; H. Negret, M. Patty, R. Bensted–Smith, H.L. Snell, A. Tye, J. Hernandez, E. Cruz and F. Espinoza, co-PIs; Global Environmental Fund (GEF); \$18,000,000 (U.S.D.), April 2002–September 2006, \$3,000,000/ year (U.S.D.).

"Program of Collaboration in Conservation Biology"; H.L. Snell, PI; Charles Darwin Foundation, Galápagos, Ecuador; \$300,000 (U.S.D.), \$300,000, May 15, 2001–May 15 2006.

"Control and Eradication of Invasive Species: A Necessary Condition for Conserving Endemic Biodiversity of Galápagos World Heritage Site"; H.L. Snell, R. Bensted–Smith, A. Tye, J. Hernandez, co-PIs; United Nations Foundation via UNESCO World Heritage Center; \$3,000,000 (U.S.D.), March 1, 2000–March 1 2004, \$750,000/year.

STRICKER, S.A.

"International: The Role of Akt/PKB in the Maturation of Marine Worm Eggs"; S.A. Stricker, PI; NSF, International Programs; \$8,000, August 2002–December 2003.

"Cross-disciplinary Optics Research Education"; W. Rudolph, PI, J. Brozik, G. Lopez, M. Sheik–Bahae and S.A. Stricker, co-PIs; NSF IGERT Training Grant; \$1,600,000, 2002–05.

TAKACS-VESBACH, C.

"A Microbial Inventory of Greater Yellowstone Ecosystem Thermal Features"; C. Takacs– Vesbach and A.-L. Reysenbach, co-PIs; NSF; \$354,654; August 1, 2002–July 31, 2005, Year 1; \$137,500, Year 2: \$117,494, Year 3: \$99,365.

THORNHILL, R.

"Genetic Conflicts of Interest, fluctuating asymmetry, and the MHC"; S.W. Gangestad and R. Thornhill, co-PIs; NSF; \$340,000, August 1, 2002–December 1, 2005.

TURNER, T.F.

"Conservation Genetics of Gila and Apache Trout (Renewal)"; T.F. Turner, PI; U.S. Forest Scrvice; \$100,000; September 30, 2001–September 30, 2003, \$35,000/year.

"Freshwater Graduate Studies Link Fundamental Science with Applications Through Integration of Ecology, Hydrology and Geochemistry in Regions with Contrasting Climates"; A. Ward (UA), PI, C. Dahm (UNM), Co-PI, T.F. Turner, one of 16 other participants; National Science Foundation—IGERT; January 1, 1999–December 31, 2004, \$2,687,181.

"CAREER: Museum-based Approaches to Ecology and Evolution of Aquatic Systems: An Integrated Research and Educational Program"; T.F. Turner, PI; National Science Foundation; May 1, 2002–April 30, 2007, \$500,000, \$100,000/year. "Conservation Genetics of the Rio Grande Silvery Minnow (RGSM): Baseline Population Genetics of Wild Stocks and Monitoring Genetic Effects of Captive-propagated Stocks"; T.F. Turner, PI; U.S. Bureau of Reclamation; July 1, 2002–June 30, 2004, \$343,889, \$114,000/ year.

"Temporal Genetic Diversity and the Effective Population Size of the Rio Grande Silvery Minnow (Renewal Proposal)"; T.F. Turner, PI; N.M. Department of Game and Fish; July 1, 2002–June 30, 2003,\$3,900.

"Fish Use of Experimentally Flooded Sites in the Middle Rio Grande, New Mexico"; T.F. Turner, PI; UNM RAC; September 30, 2002–May 19, 2003, \$3,500.

VOGEL, K.G.

"MARC (Minority Access to Research Careers) Undergraduate Research Program"; NIH, NIGMS; T.L. Yates, PI, K.G. Vogel, Director; \$1.2 million, June 2000–May 2005, \$233,000/ year.

WAGNER, A.

"Structural, Functional, and Evolutionary Characterization of a Large Protein Interaction Network"; A. Wagner, PI; NIH R01; \$592,000, July 2001–June 2006, annual direct cost \$80,000.

WERNER-WASHBURNE, M.

"Compendium of Gene Expression in Stationary-Phase Yeast"; M. Werner–Washburne, PI; National Human Genome Research Institute, NIH; \$950,000; July 1, 2002 --June 30, 2006.

"Exit from Stationary Phase: Gene Expression and Its Consequences"; M. Werner–Washburne, PI; National Science Foundation; \$395,000, March 1, 2001–January 31, 2003.

"Biocompatible Sol-gels"; J. Brinker, PI, M. Werner-Washburne, co-PI; Sandia LDRD; approx. \$20,000, October 1,2002-September 31, 2003.

WOLF, B.O.

"Research Starter Grant"; B.O. Wolf, PI; National Science Foundation, Ecological and Evolutionary Physiology Panel, IBN-0217670; \$35,000 (direct); June 1, 2002–May 31, 2003.

"Columnar Cacti: A Critical Resource for Avian Consumers? Quantifying Avian Community Responses and Nutrient Fluxes in Natural and Experimental Settings"; B.O. Wolf, PI; National Science Foundation, Ecology Panel, DEB-0213659; \$300,000 (\$201,851 direct, \$98,149 indirect); September 1, 2002–August 31, 2005.

"Sevilleta LTER VP'; C.N. Dahm, PI, R.R. Parmenter, W.T. Pockman, B.O. Wolf and T.L. Yates, co-PIs; National Science Foundation; \$2,600,000 (\$1,890,331 direct, \$909,669 indirect); October 15, 2002–October 14, 2006.

B. Other.

ALTENBACH, J.S.

Ongoing research on bats and abandoned mines.

COLLINS, S.L.

"The Sevilleta Field Research Station: Infrastructure Enhancements for High-quality Water Resources and Wireless Data Transmission"; D.O. Natvig, PI, S.L. Collins, W.T. Pockman, RR. Parmenter and C.N. Dahm, co-PIs; NSF; \$76,270 + \$25,424 matched by UNM; December 1, 2003–November 30, 2006. To be awarded in Spring 2004.

COUCH, L.

Continued research on the Systematics and Taxonomy of the Coccidia in all animals.

Continued to input into the Coccidia of the World Database and Coccidia of the World website (http://biology.unm.edu/biology/coccidia/home.html)

HOFKIN, B.V.

Initiated collaboration with the Biodisease Management Division of the Albuquerque Department of Public Health, starting in May 2003. I am currently involved, along with two UNM undergraduate students in plague surveillance and in the use of stray animals as sentinels for vector-borne diseases.

MILLER, R.D.

The following are two "white papers" to propose the opossum and the platypus to be the first model marsupial and monotreme species, respectively, to have their genome sequenced. The first proposal resulted in the opossum rated as high priority by NIH and sequencing has commenced. The second proposal is still pending.

- (1) Proposal for Complete Sequencing of the Genome of a Marsupial: The Gray, Short-tailed Opossum, *Manodelphis domestica*. C.T. Amemiya (Genome Resource Center, Benaroya Research Institute at Virginia Mason), J.M. Greally (Dept. of Medicine, Albert Einstein College of Medicine), R.L. Jirtle (Dept. of Radiation Oncology, Duke University Medical Center), E.S. Lander (Whitehead Institute/MIT Center for Genome Research), K. Lindblad–Toh (Whitehead Institute/MIT Center for Genome Research), R.D. Miller (Dept. of Biology, The University of New Mexico), D.D. Pollock (Dept. of Biological Sciences, Louisiana State University), P.B. Samollow (Dept. of Genetics, Southwest Foundation for Biomedical Research), M.S. Springer (Dept. of Biology, University of California–Riverside) and R.K. Wilson (Washington University Genome Sequencing Center). Submitted June 10, 2003.
- (2) A Proposal to Sequence the Genome of the Platypus, Ornithorhyneus anatimus. P.D. Temple-Smith (The University of Melbourne, Melbourne), J.A. Marshall Graves (Australian National University, Canberra), F. Grützner (Australian National University, Canberra), J. Deakin (Australian National University, Canberra), M.B. Renfree (The University of Melbourne, Melbourne), K. Belov (The Australian Museum, Sydney), R.D. Miller (The University of New Mexico), K. Lindblad-Toh (Whitehead Institute/MIT Center for Genome Research), E.S.

Lander (Whitehead Institute/MIT Center for Genome Research) and R.K. Wilson (Washington University School of Medicine, St. Louis, MO). Submitted October 10, 2003.

MILNE, B.T.

Ongoing advisor and software development for Mr. Bill Dunn, N.M. Department of Game and Fish, "Evaluation of Critical Deer Habitat in Lama and El Rito, NM."

SINSABAUGH, R.L.

Advised two Ph.D. students, one postdoc.

IV. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES.

A. Invited or Plenary Talks at Professional Meetings, Workshops, Etc.

ALTENBACH, J.S.

Altenbach, J.S. 2003. Bats and Abandoned Mines, Two Resources and Their Evaluation. Invited Keynote address to Geo Fest 2003, U.S. Forest Service Conference, Park City UT, September 9.

BARTON, L.L.

Organizer of symposium "Stress Response of Sulfate-Reducing Bacteria," 102nd General Meeting of American Society for Microbiology, Washington DC, May 2003.

Eight-hour course "Microbiology and Virology: Issues of National Security," Sandia National Laboratory, Albuquerque NM, July 14 and 15.

BROWN, J.H.

Quivera Coalition, "Long-term Changes in a Chihuahuan Desert Ecosystem," Albuquerque NM, January.

Capstone Address, International Biogeography Society, Mesquite NV, January.

2003 Carey Conference, Institute of Ecosystem Studies, "Mechanisms of Spatial Variation: Abiotic Environmental, Organisms and Ecosystem Processes," Millbrook NY, April.

MacArthur Award Address, Ecological Society of America, "Toward a Metabolic Theory of Ecclogy," Savannah GA, August.

COOK, J.A.

"The Emerging Phylogeographic View of Arctic Diversity," International Workshop on Arctic Parasitology, Rovaneimi, Finland, September.

DAHM, C.N.

Dahm, C.N. 2003. Environmental changes to river and riparian ecosystems in arid environments. Symposium of European Freshwater Scientists 3 (SEFS), Edinborough, Scotland, July 14 (plenary lecture). Dahm, C.N. 2003. Musings of an old beaver: Carbon, nitrogen, and ground water/surface water interactions. Sixth Annual Symposium H.J. Andrews Experimental Forest, Corvallis OR, October 16 (plenary lecture).

Dahm, C.N. 2003. The University of New Mexico Freshwater Sciences IGERT Program. Annual Retreat of the Earth's Subsurface Biosphere IGERT Program (Oregon State University and Portland State University), Lincoln City OR, June 22 (invited presentation).

GOSZ, J.R.

Plenary Talk, International Long Term Ecological Research (LTER) Network Development, European Environmental Agency Workshop on the Development of an European LTER Network, Copenhagen, Denmark, January 16.

Invited Talk, International Long Term Ecological Research (LTER) and National Ecological Observatory Network (NEON), Global Biodiversity Informatics Facility (GBIF), Copenhagen, Denmark, January 17.

Invited Talk, New Mexico Experimental Program to Stimulate Competitive Research (EPSCoR), National Small Business Innovation Research (SBIR) Conference, Albuquerque NM, March 13.

Invited Talk, Evaluation Practices in Experimental Program to Stimulate Competitive Research (EPSCoR) Programs, National EPSCoR Best Practices Workshop, Jackson Hole WY, June 9-12.

Plenary Talk, U.S. Long Term Ecological Research (LTER) Program and NEON, U.S.–European Union Conference, Morz, France, June 30–July 5.

Plenary Talk, Long Term Ecological Research (LTER) All Scientists Meeting, U.S. LTER Strategic Planning, Seattle WA, September 18.

Invited Talk, Long Term Ecological Research (LTER) All Scientists Meeting, International LTER Efforts, Seattle WA, September 18.

Invited Talk, Long Term Ecological Research (LTER) All Scientists Meeting, Education and LTER Strategic Planning, Seattle WA, September 19.

Invited Talk, Society of Women Engineers, National Ecological Observatory Network (NEON) Opportunities for Engineers, Birmingham AL, October 10.

Invited Talk, BioResearch Consortium, GIS Infrastructure Needs in NM, Albuquerque NM, November 21.

Plenary Talk, Tennessee Experimental Program to Stimulate Competitive Research (EPSCoR) State Committee Meeting, Experiences from NM EPSCoR, Birmingham TN, December 9.

HANSON, D.T.

Hanson, D. T., L. Franklin, G. Samuelsson and M. R. Badger. 2003. Does PSII Activity or CO_2 Availability Limit Photosynthesis When the Thylakoid Lumen-localized Carbonic Anhydrase Is Absent? Invited speaker and chair of the Plant Biology 2003 Photosynthesis-Light Minisymposium, American Society of Plant Biologists, Honolulu HI, July.

LOWREY, T.K.

Overview of the Astereae. Deep Achene International Symposium, Pretoria, South Africa, January 6-9.

MARSHALL, D.L.

"Pollen Competition in Wild Radish," presented at a symposium on the biology of pollen and sperm, Ascona, Switzerland, February.

NATVIG, D.O.

Saenz, G.S., D.J. Jacobson, W.H. Dvorachek and D.O. Natvig. 2003. Sympatric biological and phylogenetic species among pseudohomothallic isolates identified as *Neurospora tetrasperma*. Abstract of invited talk and poster presentation at the Fungal Genetics Conference, Asilomar CA, March.

MILNE, B.T.

Milne, B.T., Baum, N. and M. Luck. Individuals compose patches: Resource partitioning in landscapes. 18th Annual Symposium, International Association for Landscape Ecology, Banff, Alberta, Canada, April 2-6.

NELSON, M.A.

Chair, Fungal Genomics session, 22nd Fungal Genetics Conference, Asilomar CA, March 18-23.

POCKMAN, W.T.

Pockman, W.T., R.B. Jackson, E.G. Jobbagy, J.L. Banner and D.H. Wall. 2003. Ecosystem losses of carbon with woody encroachment. Symposium: Carbon Storage in Rangeland. Society for Range Management, Casper WY, February. (Invited talk.)

SNELL, H.L.

"Retos Al Estado Natural de Galápagos," Naturalist Guides Seminar Series, Puerto Ayora, Galápagos, Ecuador, July.

"Geological Controls of the Distribution of Biological Diversity in the Galápagos Islands," Division of Natural Sciences and Mathematics Science Colloquium, Colgate University, Hamilton NY, April.

TAKACS-VESBACH, C.

Invited poster, First Biannual Conference: Geothermal Biology and Geochemistry in Yellowstone National Park, "A Microbial Inventory of the Greater Yellowstone Ecosystem Thermal Features," Takacs–Vesbach, C., K. Maas, A.-L. Reysenbach, A. Rodman, W.C.P. Shanks III, L. Morgan and D. Nordstrom, Yellowstone National Park WY, October 9-11.

Invited talk by A.-L. Reysenbach, First Biannual Conference: Geothermal Biology and Geochemistry in Yellowstone National Park, "Physiological Ecology of Aquificales in Yellowstone National Park," Reysenbach, A.-L., A. Banta, J. Daly, J. Heidelberg, K. Maas, D. Preston, A. Rodman, S. Seitinger, Z. Shtaih, C. Takacs-Vesbach, M. Voytek and the 2002 Yellowstone-ALRlab Field Party, Yellowstone National Park WY, October 9-11.

Invited poster by H. Simon at the Second Annual NSF Microbial Observatory Principal Investigators' Workshop, "A Tropical Microbial Observatory: Collaborative Research on Microbial Diversity in Caterpillars," Simon, H., L.A. Zettler, E. Cambronero, F.C. Diaz, R. Cruz, J. Diaz, G. Fontecha, R. Goodman, F. Hubler, D. Janzen, B. Khatoon, A. Laatsch, M. Lopez, O. Mason, M. Mora, M. Petropoulos, S. Petropoulos, A. Pinto, A.-L. Reysenbach, A. Sittenfeld, C. Takacs– Vesbach, L. Uribe, G. Thorn, B. Young, E. Zettler and J. Zhao, Arlington VA, September 15-16.

THORNHILL, R.

"The Evolution of Woman's Estrus," Symposium on Women's Menstrual Cycle, Human Behavior and Evolution Society Conference, University of Nebraska, Lincoln, NE, June 5, 2003.

TURNER, T.F.

Osborne, M.J., D. Alò, M.A. Benavides and T.F. Turner. Genetic effects of hatchery propagation in the endangered Rio Grande silvery minnow. Governor's symposium on Rio Grande silvery minnow, sponsored by the Office of the Governor and the McCune Charitable Foundation, Santa Fe, NM, October.

VOGEL, K.G.

Vogel, K.G. 2003. Tendon structure and response to changing mechanical load. 33rd International Sun Valley Hard Tissue Workshop, Sun Valley ID, August (invited).

WAGNER, A.

Erwin Schrödinger Institute for Mathematical Physics, Vienna, Austria, January.

Institute of Biochemistry, Technical University Graz, Austria, January.

Lorne Genome Conference, Lorne, Australia, February.

Center For Advanced Study, The University of New Mexico, Albuquerque NM, April.

Insituto de Ecología, Universidad Autónoma de México, Mexico City, Mexico, May.

Center for Nonlinear Studies, Los Alamos National Laboratory, 23rd Annual Conference, Networks: Structure, Dynamics, and Function," Santa Fe NM, May.

Genopole, Evry, France, June.

Institut Henri Poincaré, Paris, France, June.

Virtual Conference on Genomics and Bioinformatics, North Dakota State University, Fargo ND, September.

Aegaean Conference, "Pathways, Networks, and Systems: Theory and Experiments," Santorini, Greece, October.

H-79

Fourth International Conference on Bioinformatics, Atlanta GA, November.

WERNER-WASHBURNE, M.

Keynote speech, Latinas in Sciences, USDA-sponsored, El Rito NM, October.

Panel discussion, Alliances for Graduate Education and the Professoriate (AGEP) meeting, Socorro NM, September.

B. Contributed Talks at Professional Meetings, Workshops, Etc.

ALTENBACH, J.S.

Sherwin, R.E. and J.S. Altenbach. 2003. Spatial and temporal variation in the use of abandoned mines by Townsend's big-eared bat, *Corynorhimus townsendii*. Paper presented at the North American Symposium on Bat Research, University of Nebraska, Lincoln NE, October 23-24.

Presentation of workshop on Protocol for Evaluation of Abandoned Mines for Bat Occupancy and Habitat to U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service, Reno NV, June 9-11.

BARTON, L.L.

"Self-assembly of Molecules: Lessons from Bacteria," Nano-Set Workshop, Department of Earth and Planetary Sciences, UNM, January 15.

BROWN, J.H.

National Center for Ecological Analysis and Synthesis(NCEAS) working group on microbial biodiversity, Santa Barbara CA, April 1.

CADAVID, L.F.

Cadavid, L.F. 2003. Characterization of the hydroid allorecognition complex. Seventh International Conference on Coelenterate Biology, Lawrence KS, July 6-11.

Cadavid, L.F. 2003. Workshop on Evolutionary Genetics of the MHC. Molecular Biomedicine Program, Health Sciences Division, Universidad del Norte, Barranquilla, Colombia, November 26-28.

COLLINS, S.L.

"Effects of Water and Nitrogen on Community Structure in Tallgrass Prairie" and "Effects of Fire and Grazing on Community Heterogeneity in Space and Time," Ecological Society of America Annul Meeting, Savannah GA, August.

COOK, J.A.

Lessa, E.P., J.A. Cook and J.L. Patton. 2003. Genetic footprints of expansion in North America, but not Amazonia, during the Late Quaternary. International Biogeography Society Meeting, Mesquite, NV, January.

CRIPPS, R.M.

Ecdysone Workshop, Annual Drosophila Research Conference, Chicago IL, March.

DAHM, C.N.

Dahm, C.N., C.L. Crenshaw, C.F. Fellows, H.M. Valett, J.L. Tank and M.C. Marshall. 2003. Benthic and subsurface animonium and nitrate uptake in a headwater montane stream. Annual Meeting of the North American Benthological Society, Athens GA, May 31.

HANSON, D.T.

Hanson, D.T., L. Franklin, G. Samuelsson and M.R. Badger. 2003. The *Chlamydomonas reinbardtii cia3* mutant lacking a thylakoid lumen-localized carbonic anhydrase is limited by CO₂ utilization by Rubisco and not PSII function *in vivo*. Plant Biology 2003 Photosynthesis–Light Minisymposium, American Society of Plant Biologists, Honolulu HI, July.

LOKER, E.S.

Loker, E.S., J.A.T. Morgan, R.J. DeJong and G.M. Mkoji. 2003. Snails and schistosomes: Some perspectives from molecular phylogenetics. Presented at the 69th Annual Meeting of the American Malacological Society, Ann Arbor MI, June 25-29.

Morgan, J.A.T., R.J. DeJong, F. Kazibwe, G.M. Mkoji and E.S. Loker. 2003. A newly identified lineage of *Schistasoma*. Presented at the 78th Annual Meeting of the American Society of Parasitologists, Halifax, Nova Scotia, Canada, August 1-5.

Asmundsson, I.M., E.S. Loker and D.W. Duszynski. 2003. Phylogenetic relationships among *Eimeria* of vertebrates. Presented at the 78th Annual Meeting of the American Society of Parasitologists, Halifax, Nova Scotia, Canada, August 1-5.

DeJong, R.J., J.A.T. Morgan, M.V. McPhee, G.M. Mkoji and E.S. Loker. 2003. Microsatellite analysis of global Schistosoma mansoni isolates. Presented at the 78th Annual Meeting of the American Society of Parasitologists, Halifax, Nova Scotia, Canada, August 1-5.

DeJong, R.J., J.A.T. Morgan, M.V. McPhee, G.M. Mkoji and E.S. Loker. 2003. Mitochondrial and microsatellite analysis of global *Schistosoma mansoni* isolates. Presented at the 52nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia PA, December 3-7.

Zhang, S-M., C.M. Adema, T.B. Kepler and E.S. Loker. 2003. A challenge to the invertebrate paradigm of immunity: insights from diversification of Ig superfamily genes in the snail *Biomphalaria glabrata*. Presented at the 52nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia PA, December 3-7.

LOWREY, T.K.

Combined Natural History Collections Web-accessible Database for New Mexico. Botany 2003, National Botanical Meetings, Mobile AL, July.

MARSHALL, D.L.

"Pollen Competition in Wild Radish," presented at the 2003 Annual Meeting of the Guild of Rocky Mountain Population Biologists, Boulder CO, September.

POCKMAN, W.T.

Pockman, W.T. and E.E. Small. 2003. Effects of extended drought and above-average precipitation on grassland, shrubland and ecotone vegetation at the Sevilleta LTER. Sevilleta Symposium, Albuquerque NM, January.

Boykin, L.M., T.K. Lowrey and W.T. Pockman. 2003. Rooting the Orcuttieae. Monocot Congress, St. Louis MO, April.

Pockman, W.T. and E.E. Small. 2003. Impact of rainfall variability and woody encroachment on productivity in a semiarid grassland in New Mexico. Workshop of the South-Central Region of National Institute for Global Environmental Change, New Orleans LA, April.

Pockman, W.T., S. Kurc, E.B. Bhark, C. Buxbaum, E.E. Small and S.L. Collins. 2003. Water in the Environment at the Sevilleta LTER. NSF Site Review of Sevilleta LTER, August 21.

Snyder, K.A., T.E. Huxman, B.P. Wilcox, R.L. Scott, D.D. Breshears, E.E. Small, R.B. Jackson, W.T. Pockman, K.R. Hultine. 2003. An ecohydrological framework for determining the landscape effects of woody plant encroachment. Annual meeting of the Ecological Society of America, Savannah GA, August.

McElrone, A.J., W.T. Pockman, R.N. Addington and R.B. Jackson. 2003. 20,000 mm under the surface: Structure and function of deep roots of woody trees in central Texas. Annual meeting of the Ecological Society of America, Savannah GA, August.

McCulley, R., E.G. Jobbagy, W.T. Pockman and R.B. Jackson. 2003. Understanding patterns of root uptake using strontium isotopes, root and soil nutrient distributions and modeling. Annual meeting of the Ecological Society of America, Savannah GA, August.

Medeiros, J.A. and W.T. Pockman. 2003. Differences in growth, water use and hydraulic constraints on small and large Larrea tridentata. LTER All-Scientists Meeting, Seattle WA, September.

Pockman W.T., E.E. Small, S. Kurc, E. Bhark, C. Buxbaum and S.L. Collins. 2003. Water cycling across a grassland-shrubland transition zone: the effect of vegetation structure and responses to climate forcing on ecosystem processes. LTER All-Scientists Meeting, Seattle WA, September.

Huxman, T.E., K.A. Snyder, B.P. Wilcox, R.L. Scott, D.D. Breshears, E.E. Small, R.B. Jackson, W.T. Pockman and K.R. Hultine. 2003. Ecohydrology and woody plant encroachment: A conceptual framework for evaluating landscape consequences Annual Meeting of the American Geophysical Union, San Francisco CA, December.

Jackson, R.B., A. McElrone, V. Engel, E.G. Jobbagy and W.T. Pockman. 2003. Interactions among water carbon and nutrient cycles with woody plant encroachment into grasslands. Annual Meeting of the American Geophysical Union, San Francisco CA, December.

McElrone, A., W.T. Pockman and R.B. Jackson. 2003. Cotterell cave sap flow, etc. Annual Meeting of the American Geophysical Union, San Francisco CA, December.

SINSABAUGH, R.L.

Lauber, C. and R.L. Sinsabaugh. 2003. Inhibiters and inducers of extracellular enzyme activity. Annual Meeting of American Society of Limnology and Oceanography, Salt Lake City UT, February 12. (talk)

Sinsabaugh, R.L., D.R. Zak, M. Waldrop and M.E. Gallo. 2003. N deposition, microbial community organization and soil carbon dynamics in north temperate forests. Soil Ecology Society Biannual Meeting, Palm Springs CA, May 12. (talk)

Gallo, M., R. Amonette, C. Lauber, R.L. Sinsabaugh and D.R. Zak. 2003. Microbial community responses to N amendment in North Temperate Forest Soils. Soil Ecology Society Biannual Meeting, Palm Springs CA, May 13. (poster)

Moorhead, D.L. and R.L. Sinsabaugh. 2003. Modeling impacts of N- and polyphenolic inhibition on litter decay. Annual Meeting of Ecological Society of America, Savannah GA, August 5.

Finzi, A.C., E.H. DeLucia, J. Lichter, R.L. Sinsabaugh and W.H. Schlesinger. 2003. Progressive nitrogen limitation to ecosystem function in the Duke Forest FACE Experiment. Annual Meeting of Ecological Society of America, Savannah GA, August 5.

Judd, K.E., B.C. Crump, R.L. Sinsabaugh, G.W. Kling and D.R.Zak, 2003. Dissolved organic carbon in soils, streams, and lakes of an arctic catchement: Linking bioavailability, chemistry, and microbial community composition. Annual Meeting of Ecological Society of America, Savannah GA, August 5.

Antibus, R.K., C. Lauber, R.L. Sinsabaugh and D.R. Zak. 2003. The impact of nitrogen amendment on glomalin content in soils in three forest communities in Lower Michigan, USA. Fourth International Conference on Mycorrhizae, St. Louis MO, August. (talk)

Antibus, R.K., C. Lauber, R.L. Sinsabaugh and D.R. Zak. 2003. The impact of nitrogen amendment on glomalin production in soils in three forest communities in lower Michigan, USA (poster). DOE Terrestrial Carbon Program Meeting, Boulder CO, October 16-17.

Gallo, M.E., C. Lauber, M. Waldrop, R.L. Sinsabaugh and D.R. Zak. 2003. Nutrient amendment alters soil carbon storage by disrupting the microbial loop: Data from temperate forest ecosystems in northern Michigan (poster). DOE Terrestrial Carbon Program Meeting, Boulder CO, October 16-17.

Moorhead, D.L. and RL Sinsabaugh. 2003. Modeling impacts of nitrogen deposition on decomposition: Interactions with litter quality (poster). DOE Terrestrial Carbon Program Meeting, Boulder CO, October 16-17.

SNELL, H.L.

Giermakowski, J.T. and H.L. Snell. 2003. Increasing Data Accuracy in a Regional Collection: Inventory and Quantification of Data Errors. Annual Meeting of the Society for the Preservation of Natural History Collections, Lubbock TX, June.

THORNHILL, R.

"Breast Feeding and Fluctuating Asymmetry" (with M. Flinn, S. Gangestad), Human Behavior and Evolution Society Conference, University of Nebraska, Lincoln NE, June 5, 2003.

TURNER, T.F.

Edwards, M.S. and T.F. Turner. 2003. Using Stable Isotope Analysis Techniques to Characterize the Food Web of the Kissimmee River, Florida. Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem, "From Kissimmee to the Keys," Palm Harbor FL, April.

Osborne, M.J, D. Alò, M.A. Benavides and T.F. Turner. 2003. Genetic effects of hatchery propagation in the endangered Rio Grande silvery minnow. Arid Lands Conference, New Mexico State University, Las Cruces NM, April.

Turner, T.F. and D. Alò. 2003. Phylogeography of the orangebelly darter, *Etheostoma radiosum*. Southwestern Association of Naturalists, Norman OK, April.

Edwards, M.S. and T.F. Turner. 2003. Stable isotope analysis of current and historical of Rio Grande food webs. North American Benthological Society, Athens GA, May.

Turner, T.F., G.R. Moyer, M.V. McPhee and K.O. Winemiller. 2003. Comparison of nuclear and mtDNA genes implicate natural selection and demography as primary determinants of intraspecific genetic variation in prochilodontid fishes of northern SA. American Society of Ichthyologists and Herpetologists, Manaus, Brazil, June.

Wares, J.P. and T.F. Turner. 2003. Conservation genetics and evolution of quantitative trait markers in Gila trout. Society for the Study of Evolution, Chico CA, July.

Benavides, M.A., M.J. Osborne, D. Alò and T.F. Turner. 2003. Temporal genetic variability of pelagic eggs in the endangered Rio Grande silvery minnow. Ecological Society of America, Savannah GA, August.

Moyer, G.R., D. Alò, M.J. Osborne and T.F. Turner. 2003. A comparison of genetic effective population size between the Rio Grande silvery minnow and the plains minnow. Desert Fishes Council, Death Valley CA, November.

Osborne, M.J., M.A. Benavides, D. Alò and T.F. Turner. 2003. Genetic effects of hatchery propagation in the endangered Rio Grande silvery minnow. Desert Fishes Council, Death Valley CA, November. Turner, T.F., J.P. Wares and D. Alò. 2003. Evolution of MHC class I and class II loci among three closely related trouts in the American southwest. Desert Fishes Council, Death Valley CA, November.

WOLF, B.O.

Wolf, B.O. 2003. Stables Isotopes as Tools for Examining the Role of "Keystone" Resources in Animal Communities. Seventh Neotropical Ornithological Congress, Termas de Puyehue, Chile, October 5-11.

McKechnie, A.E., B.O. Wolf and C. Martinez del Rio. 2003. Experimental Approaches to Modeling Deuterium Fractionation in Birds: Affects of Heat Stress and Water Flux," Seventh Neotropical Ornithological Congress, Termas de Puychue, Chile, October 5-11.

Wolf, B.O. 2003. The Use of Stable Isotopes to Identify "Keystone" Resources for Wildlife. 10th Annual Conference of the Wildlife Society, Burlington VT, September 6-10.

McKechnie, A.E., B.O. Wolf and C. Martinez del Rio. 2003. Experimental Approaches to Modeling Deuterium Fractionation in Birds: Effects of Heat Stress and Water Flux. Physiological Ecology Meeting, Bishop CA, May 31–June 1.

McKechnie, A.E., B.O. Wolf and C. Martinez del Rio. 2003. Experimental Approaches to Modeling Deuterium Fractionation in Birds: Effects of Heat Stress and Water Flux. 73rd Meeting of the Cooper Ornithological Society, Flagstaff AZ, April 29–3 May 3.

C. Attendance at Professional Meetings, Workshops, Etc.

ALTENBACH, J.S.

Geo Fest 2003, U.S. Forest Service Conference, Park City Utah, September.

BARTON, L.L.

Nano-Set Workshop, Department of Earth and Planetary Sciences, UNM, January 15.

102nd General Meeting of American Society for Microbiology, Washington DC, May.

Rio Grande Branch of American Society for Microbiology, Albuquerque NM, February 15.

BROWN, J.H.

National Center for Ecological Analysis and Synthesis(NCEAS), Santa Barbara CA, April 1.

American Society of Mammalogists, Lubbock TX, June 21-25.

CADAVID, L.F.

Host-parasite interactions and the evolution of the immune system. ETH Zentrum, Zurich, Switzerland, May 20-22.

Seventh International Conference on Coelenterate Biology, Lawrence KS, July 6-11.

COLLINS, S.L.

Regional NEON workshop, LTER Network Office, UNM, Albuquerque NM, July.

Attended LTER Strategic Planning Workshop, Sevilleta LTER, Socorro NM, October.

COOK, J.A.

International Biogeography Society Meeting, Mesquite NV, January.

International Workshop on Arctic Parasitology, Rovaneimi, Finland, September.

COUCH, L.

Southwestern Association of Parasitologists Annual Meeting, Lake Texoma OK, April.

78th Annual Meeting of the American Society of Parasitologists, Halifax, Nova Scotia, Canada, August.

CRIPPS, R.M.

Annual Drosophila Research Conference, Chicago IL, March.

Molecular Biology of Myogenesis, Banff, Canada, May.

DAHM, C.N.

Organized and chaired Sevilleta LTER Annual Symposium, Albuquerque and Sevilleta LTER Field Station, Socorro NM, January 9-10.

IGERT Principal Investigator Meeting at the National Science Foundation, Ballston VA, February 3-4.

National River Restoration Science Synthesis (NRRSS) Meeting at the National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara CA, February 24-26.

Annual Meeting of the North American Benthological Society (NABS), Athens GA, May 26-June 1.

Annual Workshop of the Subsurface Microbiology IGERT Program (Oregon State University and Portland State University), The Inn at Spanish Head, Lincoln City OR, June 22-24.

Symposium of European Freshwater Scientists 3 (SEFS3), Edinborough, Scotland, July 12-17.

New Mexico Annual Alliances for Graduate Education and the Professoriate (AGEP) Meeting, Socorro NM, September 12-13.

Drought Summit, Albuquerque, NM, September 16.

All Scientists Meeting of the LTER Network, Seattle, WA, September 18-21.

Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Albuquerque NM, October 3.

H.J. Andrews LTER Annual Symposium, Corvallis OR, October 15-18.

National River Restoration Science Synthesis (NRRSS), Annapolis MD, November 12-13.

GOSZ, J.R.

Forest Biodiversity Workshop, Denver CO, June 5-6.

BioConsortium Workshop, Albuquerque NM, September 4.

National National Science Foundation (NSF) Experimental Program to Stimulate Competitive Research (EPSCoR) Conference, Las Vegas NV, September 7-9.

New Mexico Drought Conference, Albuquerque NM, September 16.

LTER All Scientists Meeting, Seattle WA, September 17-20.

New Mexico First Town Hall Meeting on the State Water Plan, Albuquerque NM, September 24-25.

Project Science Workshop, Aspen CO, October 1-4.

Riparian Invasive Workshop, Las Cruces NM, October 30.

HANSON, D.T.

Plant Biology 2003 Photosynthesis–Light Minisymposium, American Society of Plant Biologists, Honolulu HI, July.

Plant Genomics 2003, American Society of Plant Biologists, Western Sectional Meeting, University of California, Davis CA, October.

Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Albuquerque NM, October.

LOKER, E.S.

69th Annual Meeting of the American Malacological Society, Ann Arbor MI, June 25-29.

78th Annual Meeting of the American Society of Parasitologists, Halifax, Nova Scotia, Canada, August 1-5.

52nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia PA, December 3-7.

LOWREY, T.K.

Borany 2003, National Boranical Meetings, Mobile AL, July.

Deep Achene International Symposium, Pretoria, South Africa, January 6-9.

MARSHALL, D.L.

Symposium on the biology of pollen and sperm, Ascona, Switzerland, February.

2003 Annual Meeting of the Guild of Rocky Mountain Population Biologists, Boulder CO, September.

MILNE, B.T.

18th Annual Meeting of the International Association for Landscape Ecology, Banff, Alberta, Canada, April 2-6.

NATVIG, D.O.

Fungal Genetics Conference, Asilomar CA, March.

Annual meeting of the Mycological Society of America, Asilomar CA, July.

Annual meeting of the Organization of Biological Field Stations, Calgary, Alberta, Canada, September.

NELSON, M.A.

The 22nd Fungal Genetics Conference, Asilomar CA, March 18-23.

New Mexico Alliance for Graduate Education and the Professoriate, Aspiring to Affect the Future, Socorro NM, September 11-13.

The 2003 Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Albuquerque NM, October 2-5.

The 2003 American Indian Science and Engineering Society (AISES) National Conference, Albuquerque NM, November 20-22.

POCKMAN, W.T.

Workshop of the National Institute for Global Environmental Change, New Orleans LA, April.

Working Group at National Center for Ecological Analysis and Synthesis, New Orleans LA, Spring.

SINSABAUGH, R.L.

Soil Ecology Society, Palm Springs CA, May 12-14.

DOE Terrestrial Carbon Program, Boulder CO, October 16-17.

SNELL, H.L.

Charles Darwin Foundation Meetings, Galápagos, Ecuador, November.

TAKACS-VESBACH, C.

NASA Astrobiology Institute, General Meeting, Tempe AZ, February 10-12.

American Society of Limnology and Oceanography, Aquatic Sciences Meeting, Salt Lake City UT, February 13-15.

THORNHILL, R,

Human Behavior and Evolution Society Conference, University of Nebraska, Lincoln NE, June 5, 2003.

TURNER, T.F.

Southwestern Association of Naturalists, Norman OK, March. American Society of Ichthyologists and Herpetologists, Manaus, Brazil, June. Desert Fishes Council, Death Valley CA, November.

VOGEL, K.G.

33rd International Sun Valley Hard Tissue Workshop, Sun Valley ID, August.

WERNER-WASHBURNE, M.

Keystone meeting on Functional Genomics, Santa Fe NM, March.

International Yeast Genetics and Molecular Biology meeting, Göteborg, Sweden, July.

WOLF, B.O.

73rd Meeting of the Cooper Ornithological Society, Flagstaff AZ, April 29-May 3.

Physiological Ecology Meeting, Bishop CA, May 31-June 1.

10th Annual Conference of the Wildlife Society, Burlington VT, September 6-10.

Seventh Neotropical Ornithological Congress, Termas de Puyehue, Chile, October 5-11.

D. Service as Editor of Scholarly Journal.

NATVIG, D.O.

Associate Editor, Mycologia (editor-in-charge of the review process for 15-20 manuscripts)

NELSON, M.A.

Associate Editor, Fungal Genetics and Biology, 1998-present

E. Service on Editorial Board of Scholarly Journal.

BARTON, L.L. Biometals (an international journal)

BROWN, J.H.

British Ecological Society, Cambridge University Press Evolutionary Ecological Research Journal of Biogeography

COLLINS, S.L.

BioScience Community Ecology

FAGUY, D.M.

Member, Applied and Environmental Microbiology

GOSZ, J.R.

Biogeochemistry

LOKER, E.S.

Developmental and Comparative Immunology

MILLER, R.D. Immunogenetics (Springer-Verlag)

NELSON, M.A.

Functional and Integrative Genomics, 1999-present

Applied Mycology and Biotechnology, 2002-present

POCKMAN, W.T. Editorial Review Board, *Tree Physiology*

SINSABAUGH, R.L.

Applied and Environmental Microbiology Applied Soil Ecology Freshwater Biology

SNELL, H.L.

Editorial advisor, Noticias de Galápagos, Charles Darwin Foundation, Galápagos, Ecuador.

THORNHILL, R. Evolution and Human Behavior

WAGNER, A.

Advances in Complex Systems Journal of Experimental Zoology, Division of Molecular and Developmental Evolution Santa Fe Institute Publications

F. Service as Officer of Professional Organization (indicate whether Elected or Appointed).

BARTON, L.L.

Member, Steering Committee, "International Symposium of Iron Nutrition and Interactions in Plants," XI International Symposium, to be held in Japan.

International Steering Committee for "Biometals Symspoium" for fifth symposium to be held in the U.S.

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BROWN, J.H.

President, International Biogeography Society (elected)

Member, Board of Directors, American Society of Mammalogists (elected)

COLLINS, S.L.

Chair of the Vegetation Section of the Ecological Society of America.

"Visions Committee," Ecological Society of America, which was an intensive, year long effort to outline research priorities and objectives for the next decade.

COUCH, L.

Member, 2003 Education Committee, American Society of Parasitology (ASP) (appointed)

Chair, 2004 Education Committee, ASP (appointed)

DAHM, C.N.

President-elect of the North American Benthological Society (I take office at the annual meeting in Vancouver, British Columbia in June 2004).

FAGUY, D.M.

President-elect, Rio Grande Branch, American Society for Microbiology (elected).

GOSZ, J.R.

Director, New Mexico State Experimental Program to Stimulate Competitive Research (EPSCoR) (hired).

Board of Governors, Ecological Society of America (elected).

Chairman, U.S. LTER Coordinating Committee (elected).

Chairman, International LTER Network Committee (elected).

HANSON, D.T.

Acting co-head of the Southwestern subsection of the Western Sectional Society of the American Society of Plant Biologists (appointed).

LOWREY, T.K.

President, International Organization of Plant Biosystematists (elected).

Member, Nominations Committee, American Society of Plant Taxonomists.

MILNE, B.T.

Co-organizer, 18th Annual Symposium of the International Association for Landscape Ecology, U.S. Regional Chapter, Banff, Alberta, Canada, April 2-6 (volunteered).

NATVIG, D.O.

Student Awards Committee, Mycological Society of America (appointed).

NELSON, M.A.

Member, New Mexico Computational Biology Committee, 1994-present (appointed).

Member, Fungal Genome Initiative Advisory Board, 2001-present (appointed).

SNELL, H.L.

Director of Science Programs, the Charles Darwin Foundation, Galápagos, Ecuador, (appointed, see below).

TURNER, T.F.

Elected Member of the Board of Governors, American Society of Ichthyologists and Herpetologists, 2002–07.

WERNER-WASHBURNE, M.

Chair, Local Organizing Committee, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Meeting

Society for the Advancement of Chicanos and Native Americans in Science(SACNAS) Program Committee

WOLF, B.O.

Board of Directors, The Cooper Ornithological Society, 2002-2005 (elected).

V. OTHER PROFESSIONAL ACTIVITIES.

A. Seminar Presentations, UNM and Elsewhere.

BROWN, J.H.

"The Next step in Macroecology", Syracuse University, Syracuse NY, February 13-14.

Brown University, Providence, RI

CADAVID, L.F.

"Allorecognition in Hydractinia," Stephanie Forrest Group, Computer Science Department, UNM, February.

"Self-discrimination in Metazoans," Brown Bag Seminar, Department of Biology, UNM, October 22.

COOK, J.A.

"Molecular Perspectives on High (And Low) Latitude Mammals," Department of Biology, UNM, April.

CRIPPS, R.M.

Department seminar, Department of Biochemistry, M.D. Anderson Cancer Center, Houston TX, ??.

DAHM, C.N.

Department of Hydrology and Water Resources, University of Arizona, Tucson AZ, October 8.

Department of Earth and Environmental Science, New Mexico Tech, Socorro NM, October 27.

FAGUY, D.M.

"Archaeal Cell Division," Department of Microbiology, Queen's University, Kingston, Canada, July.

"Chromosome Segregation in Archaea," Department of Biology, Earlham College, Richmond IN, November.

GOSZ, J.R.

Patch Dynamics, Sevilleta Annual Symposium, UNM, January 10.

Sevilleta LTER and NEON, NM Research Council, Sevilleta LTER, Socorro NM, August 15.

Sevilleta LTER NSF Site Review, Sevilleta, LTER, Socorro NM, August 21.

KODRIC-BROWN, A.

"The Role of Sexual Selection in Hybridization Between Pupfish Species," Department of Zoology and Entomology, University of Queensland, Australia, September 17.

LIGON, J.D.

Seminar, Adams State College, Alamosa CO, April.

LOKER, E.S.

"Schistosomiasis Before the Pharaohs: Tracing the Origins of Human Blood Flukes and Their Snail Hosts," The University of Peradineya, Sri Lanka, December.

MILNE, B.T.

Milne, B.T. 2003. Scaling and Complexity in Semi-arid Landscapes. Consortium of the Americas, UNM, Albuquerque NM, August 6.

Milne, B.T. Field excursion for LTER site review, LTER Field Station, Socorro NM, August 21.

Milne, B.T. The UNM Sustainability Program. UNM Sustainability Festival, UNM, Albuquerque NM, November 21.

POCKMAN, W.T.

"Structure and Function of Deep Roots," IFEVA, Universidad de Buenos Aires, Argentina, June.

"Hydraulic Limitations upon Plant Function Imposed by Drought and Freezing," Museo Feruglio, Trelew, Argentina, June.

"Structure and Function of Deep Roots," Department of Ecology and Evolutionary Biology, University of Arizona, Tucson AZ.

Department of Biology, Texas Tech University, Lubbock TX.

POE, S.

Invited talk, Department of Biology, Texas Tech University, "Birds in a Bush: Five Genes Indicate Explosive Evolution of Avian Orders," Texas Tech University, Lubbock TX, Fall.

SNELL, H.L.

"Evolutionary Ecology and Conservation Biology of the Galápagos Islands," Environmental Studies Program Seminar, Colgate University, Hamilton, NY, April.

STRICKER, S.A.

"Egg Maturation in Nemertean Worms," University of Washington, Friday Harbor WA, June.

THORNHILL, R.

"The Evolution of Woman's Sexuality," Human Evolution and Behavior Society (HEBS) study group, UNM, October.

"The Evolution of Woman's Estrus," Dept. of Biology, UNM, November 2003.

TURNER, T.F.

"Demography and Conservation Genetics of the Rio Grande Silvery Minnow," Department of Fisheries and Wildlife, Colorado State University, Ft. Collins, CO, February.

"What Caused the Decline of the Rio Grande Silvery Minnow?", Department of Biology, UNM, September.

VOGEL, K.G.

"Proteins of the Tunic," Friday Harbor Laboratories, San Juan Island WA, December 12.

WAGNER, A.

Erwin Schrödinger Institute for Mathematical Physics, Vienna, Austria, January.

Institute of Biochemistry, Technical University Graz, Austria, January.

Insituto de Ecología, Universidad Autónoma de México, Mexico City, Mexico, May.

Center For Advanced Study, The University of New Mexico, Albuquerque NM, April.

Institut Henri Poincaré, Paris, France, June.

WOLF, B.O.

"Columnar cacti: A keystone resource for avian consumers?", Department of Ecology, Evolution and Marine Biology, University of California, Santa Barbara CA January 14.

B. Testimony in a Scholarly Capacity at Hearings of Commissions, Legislative Committees, Etc.

GOSZ, J.R.

Three presentations to the Interim Legislative Committee on Water and Natural Resources.

Congressional Senate Hearing on S.32, Forest Institutes Bill (with W. Covington).

Special meeting with Senator Bingaman on Pine Mortality in New Mexico, March 15.

Meetings with Congressional Staffers on issues of Forest Research Institutes, EPSCoR, NEON (J. Epstein, G. Laughlin, M. Sayer, J. Sanchez and T. Martinez).

Governor's Task Force on Salt Cedar Control. House Education Committee

House Appropriations Committee

Senate Conservation Committee

Interagency Weed Action Group

State Engineers' Office

U.S. Embassy, Danish Group

LOKER, E.S.

Presentation of UNM's Department of Biology renovation needs to the Commission of Higher Education, at UNM, Albuquerque NM, August 14.

SNELL, H.L.

Deposition in lawsuit against Department of Biology, UNM, regarding interactions of graduate students and their advisors, Albuquerque, New Mexico, January.

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C. Presentation to General Audience in a Scholarly Capacity.

ALTENBACH, J.S.

"Wings in the Night," address presented at Festival of the Cranes, Bosque del Apache NWR, Socorro NM, November 18.

COLLINS, S.L.

Many presentations for site visits, outreach at Sevilleta FWS Headquarters, and tours of research site.

DAHM, C.N.

"Beavers: Life History and Ecology," Albuquerque Nature Center, Albuquerque NM, January 22.

"The Sevilleta LTER," UNM Day at the NM State Legislature, Santa Fe NM, February 10.

"Kissimmee River Restoration Project," Rio Grande Heritage, Albuquerque NM, March 24.

HANSON, D.T.

Presentation of my research to students attending the 2003 meeting of the Society for Advancement of Chicanos and Native Americans in Science (SACNAS) as part of the UNM Department of Biology tour.

HOFKIN, B.V.

"Nosocomial Infections and their Control," presented to the pediatric staff at The University of New Mexico Hospital, Albuquerque NM, June 30.

LOWREY, T.K.

Member, Panel of New Mexico Herbarium Curators presentation to New Mexico Native Plant Society Annual Meeting, Los Alamos NM, August.

NELSON, M.A.

"The *Neurospora* Genome Project: Gold from the Mold," with D.O Natvig, on the radio program hosted by Jane Blume, KUNM, Albuquerque NM.

SNELL, H.L.

Five presentations to general audiences aboard tourist vessels visiting the Galápagos Islands, Ecuador.

TAKACS--VESBACH, C.

"Taking Biology to Extremes," invited talk, Science Discovery Night, Sandia Prep High School, Albuquerque NM, April 29.

TOOLSON, E.C.

Asked to appear on-camera and contribute expertise to CDC training video on West Nile Virus.

WERNER-WASHBURNE, M.

"Genomics," Grad-Bridge Program, College of Engineering, UNM

D. Service in a Scholarly Capacity as Member of Local, State or National Panel, Committee, or Commission, for Purpose of Reviews of Public Policy Issues, Scientific Evaluations, Awards of Grants or Fellowships or Prizes, Etc.

ALTENBACH, J.S.

Reviewer for grant applications for Bat Conservation International, Austin TX.

Advisor to the New Mexico Chapter of the Nature Conservancy on the Journada del Muerto bat caves.

Advisor to the University of Wisconsin, Milwaukee WI, on the Neda Mine Bat Hibernaculum, Dodge Co., WI.

BARTON, L.L.

"Role of Selected Soil Bacteria in Bioremediation," testimony in support of Patent Registration.

CADAVID, L.F.

Panelist, National Science Foundation, Arlington VA, April 2-4.

Project Reviewer, National Science Foundation, Washington DC, August.

COOK, J.A.

Panel Reviewer, National Science Foundation, Fall.

Outside Reviewer, Graduate Program in Biology, Bowling Green University, OH, 2003.

Member, Systematic Collections Comm, American Society of Mammalogists, 2003-present.

Member, Resolutions Committee, American Society of Mammalogists, 1998–2003.

CRIPPS, R.M.

Regular Panel Member, Basic Cell and Molecular Biology 2 study section, American Heart Association National Review Panel, April and October.

Ad hoc Member, National Institutes of Health Cardiovascular A Study Section, June.

Ad hoc Member, National Institutes of Health Skeletal Muscle and Exercise Physiology Study Section, November.

Mail-in reviewer for Italy Telethon grant reviews.

DAHM, C.N.

Southwest Florida Water Management District (SWFWMD), Setting Low Flow Criteria, Tampa Bay FL, October 9-11.

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FAGUY, D.M.

Member, panel review committee, NSF BIO panel "Prokaryotic Molecular and Cellular Biology," April.

GOSZ, J.R.

Panel for Canada Foundation for Innovation (CFI).

Scientific Advisory Committee for the National Canopy Crane Facility of the U.S. Forest Service.

Scientific Advisory Committee for the Smithsonian Environmental Research Center.

Scientific Advisory Committee for the Southern Colorado Plateau National Park Service Network.

Advisor for the Tennessee EPSCoR Program.

Science Committee, Bioresearch Consortium (Sandia National Laboratory-UNM-New Mexico state agency Consortium).

Committee member for the Scientific Advisory Committee for the Chinese Ecosystem Research Network.

EPSCoR Coalition member.

Technology Ventures Corporation, representing EPSCoR.

New Mexico First Conference, Las Vegas NM.

University of Wyoming Field Station Program.

Advisory Board, Smithsonian Environmental Research Center, Maryland (appointed).

Scientific Committee, Consortium of University for Advancement of Hydrologic Sciences, Inc. (appointed)

Proposal Reviewer for NSF (10 proposals).

Proposal Review for DOE (1).

LOKER, E.S.

NIH NIAID Ad Hoc Study section on Tropical Medicine and Parasitology, March 13-14.

Ad Hoc Review of National Sea Grant Proposal (1)

LOWREY, T.K.

NSF ad hoc proposal reviews (4)

Member, New Mexico Rare Plant Technical Council

Member, New Mexico Institute for Natural Resource Analysis and Management.

MILLER, R.D.

NIGMS Advisory Committee, Santa Fe Institute, Santa Fe, NM. "Mathematical Tools and Modeling for Biologists," an NIH-funded program. 256

NSF Signal Transduction grant review panel.

MILNE, B.T.

National Science Foundation Ecosystem Panel, completed service on 5th and 6th panels.

NELSON, M.A.

National Science Foundation, Eukaryotic Genetics Panel, October 8-10.

Scientific Review Committee, 2003 National American Indian Science and Engineering Society (AISES) Fair; co-Chair, 1999–2003.

NIH Center of Biomedical Research Excellence (COBRE) Review for UNM Medical School and Main Campus pre-proposals.

SINSABAUGH, R.L.

Member, reviewed 15 proposals, DOE review panel for Phytoremediation, Washington DC, April 1-2.

SNELL, H.L.

Member of the International Union for Conservation of Nature and Natural Resources (IUCN) Iguana Specialists Group.

General Assembly Member of the Charles Darwin Foundation, Galápagos, Ecuador.

TAKACS-VESBACH, C.

U.S. Committee on the International Polar Year (2007–08), National Academy of Sciences. Initial appointment period: August 2003–December 2004.

TURNER, T.F.

Rio Grande Fishes Recovery Team, presentation on genetic issues for Rio Grande fishes, Albuquerque, NM, January. Gila Trout Recovery Team, member, presentation on genetic issues for Gila trout recovery, Albuquerque, NM, December. コカイ

UNM Representative, Interim Steering Committee, Endangered Species Act Workgroup, Middle Rio Grande.

WERNER-WASHBURNE, M.

NIH---NHGRI Grant Review Panel, 2001-06

National Advisory Committee, LTER, started 2002

WOLF, B.O.

Grant proposal reviews:

- Israel–U.S. Bi-National Science Foundation (1)
- ➤ National Science Foundation, DEB- Ecology (2)
- National Science Foundation, IBN- Ecological & Evolutionary Physiology (1)

Chair, Publications Committee, The Cooper Ornithological Society

Member, Finance Committee, The Cooper Ornithological Society

E. List Journals and the Number of Papers You Refereed for Each in 2002.

ALTENBACH, J.S.

Journal of Mammalogy (1)

BARTON, L.L.

Anaerobe (3) Applied and Environmental Microbiology (2) Canadian Journal of Microbiology (1)

CADAVID, L.F.

International Journal of Developmental Biology (1)

COLLINS, S.L.

BioScience (4) Ecography (1) Ecology (1) Invasive Species (1) Journal of Applied Ecology (1) Journal of Vegetation Science (1) Journal of Ecology (1) NSF (4) Oikos (2) Proceedings of the Royal Society of London (1)

COOK, J.A.

Biological Journal of the Linnaean Society (1) Evolution (1) Journal of Manumalogy (2) Molecular Ecology (3) Proceedings of the Royal Society, B (1)

COUCH, L.

Journal of Parasitology (1)

CRIPPS, R.M.

Development (2) Developmental Biology (2) Proceedings of the National Academy of Sciences USA (1) Trends in Cardiovascular Development (1)

DAHM, C.N.

Freshwater Biology (1) Hydrological Processes (1) Journal of Ecology (1) Journal of the North American Benthological Society (2) Limnology and Oceanography (1) Nature (1)

FAGUY, D.M.

Applied and Environmental Microbiology (16) Canadian Journal of Microbiology (1) Journal of Bacteriology (2) Molecular Microbiology (1) Transactions of the Royal Society (1) Trends in Microbiology (1)

GOSZ, J.R.

Ecology (3) Journal of Vegetation Science (1)

HANSON, D.T.

American Journal of Botany (1)

HOFKIN, B.V.

American Journal of Tropical Medicine and Hygiene (1) Journal of Parasitology (1)

KODRIC-BROWN, A.

American Naturalist (1) Behavioral Ecology (2) Behavioral Ecology and Sociobiology (2) Conservation Biology (1) Environmental Biology of Fishes (1) Ethology (1)

LOKER, E.S.

Developmental and Comparative Immunology (2)

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LOWREY, T.K.

Systematic Botany (1)

MARSHALL, D.L.

American Journal of Botany (2) Annals of Botany (2) New Phytologist (2) Perspectives in Plant Ecology and Evolution (1)

MILLER, R.D.

Journal of Immunology (3) Developmental and Comparative Immunology (6) Immunogenetics (10) Journal of Anatomy (1) Molecular Biology and Evolution (1)

MILNE, B.T.

Journal of Ecology (1)

NATVIG, D.O.

Evolution (1) Fungal Genetics and Biology (2) Genetics (2) PNAS (1)

Reviewed two chapters for the new edition of Molecular Cell Biology by Lodish et al.

NELSON, M.A.

Eukaryotic Cell (2) Fungal Genetics and Biology (3) Microbiology (2) Mycologia (1) National Science Foundation (14 research proposals)

POCKMAN, W.T.

American Journal of Botany (1) Canadian Journal of Botany (1) Canadian Journal of Forest Research (1) Ecology (1) New Phytologist (1) Oecologia (2) Physiologia Plantarum (1) Tree Physiology (3) 26Ō

POE, S.

American Naturalist (1) Herpetologica (1)

SINSABAUGH, R.L.

Applied and Environmental Microbiology (7) Applied Soil Ecology (9) Aquatic Science (1) Ecology (1) Freshwater Biology (3) Limnology and Oceanography (1) Microbial Ecology (1) Soil Biology & Biochemistry (7)

SNELL, H.L.

Noticias de Galápagos (3)

STRICKER, S.A.

Biotechniques (1) Journal of Biological Chemistry (1) Microscopic Techniques (1) Molecular Reproduction and Development (1)

TAKACS-VESBACH, C.

Limnology and Oceanography (1) Polar Biology (1)

THORNHILL, R.

Various journals in biology, anthropology and psychology.

TURNER, T.F.

AAAS Women in Science Program (1) Jeffress Foundation Awards in Biology (1) National Science Foundation (2) BioMed Central—Evolutionary Biology (1) Journal of Heredity (2) Molecular Phylogenetics and Evolution (1)

VOGEL, K.G.

Biorheology (1) Connective Tissue Research (1) Journal of Musculoskeletal and Neuronal Interactions (1) Journal of Orthopaedic Research (2)

WAGNER, A.

Bioessays (2) Journal of Biological Chemistry (1) Journal of Experimental Zoology/Molecular and Developmental Evolution (1) Molecular Biology and Evolution (1) Nature (3) Nature Biotechnology (2) Nature Genetics (1) Nature Review Genetics (1) Physical Review E (1) Trends in Genetics (2) 91o1

WERNER-WASHBURNE, M.

Molecular Cell Biology (1) Nucleic Acids Research (1) Proceedings of the National Academy of Sciences (1) Yeast (1)

WOLF, B.O.

Ardea (1) Auk (1) Ecology (1) Journal of Animal Ecology (1) Journal of Arid Environments (1) Physiological and Biochemical Zoology (2) Wilson Bulletin (1)

VI. NON-TEACHING UNIVERSITY, COLLEGE AND DEPARTMENT SERVICE.

A. Symposia, Workshops, Conferences, Etc., Sponsored, Hosted, Organized.

COLLINS, S.L.

Organized a workshop at the Ecological Society of America meetings on NEON and other funding opportunities for infrastructure needs in ecology, August.

CRIPPS, R.M.

Moderator, Organogenesis session, Annual Drosophila Research Conference, Chicago IL, March.

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DAHM, C.N.

Sevilleta LTER Annual Symposium, Albuquerque and Sevilleta LTER Field Station, Socorro NM, January 9-10.

GOSZ, J.R.

Co-organized National SBIR Conference, Albuquerque NM, March 13.

National DOE EPSCoR Conference, Albuquerque NM, June 4-7.

LTER National Advisory Board, Albuquerque NM, June 20.

Southwest Regional NEON Consortium Meeting, Sevilleta LTER, Socorro NM, December 1-2.

Invasive Species Workshop, Sevillera LTER, Socorro NM, December 5.

LOKER, E.S.

Center for Evolutionary and Theoretical Immunology (COBRE) Organizational Meeting, Santa Fe Institute, Santa Fe NM, December 1.

SNELL, H.L.

Organized a one-day symposium, "Research in Support of Conservation in the Galápagos Islands," the Charles Darwin Foundation, Galápagos, Ecuador, November.

TAKACS--VESBACH, C. 2003 and 2004 Annual Research Days

WERNER-WASHBURNE, M.

Chair, Local Organizing Committee, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Meeting, Albuquerque NM, October 2-5.

Local Organizing Committee, American Indian Science and Engineering Society (AISES) National Meeting, Albuquerque NM, November.

WOLF, B.O.

Symposia organizer and presenter, Seventh Neotropical Ornithological Congress, Termas de Puyehue, Chile, October 5-11.

B. Distinguished Departmental Visitors You Hosted.

BROWN, J.H.

George Utz, University of Cincinnati, Cincinnati OH Almo Farina, University Urbino, Italy David Schneider, University of Newfoundland, Newfoundland, Canada Lars Hedin, Princeton University, Princeton NJ David Storch, Center for Theoretical Biology, Czech Republic

CADAVID, L.F.

Dr. Louis Du Pasquier, Professor, Department of Biology, University of Basel, Switzerland, September 11-15 103

COOK, J.A.

Idaho State University:

Dr. Enrique Lessa, Professor of Evolution, Universidad de la Republic, Montevideo, Uruguay, March

Dr. Eric Hoberg, National Parasite Laboratory, Agricultural Research Station, USDA, Beltsville MD, May

DAHM, C.N.

Dr. Doug James, National Science Foundation, Washington DC, February 12

Dr. Laura Gough, University of Texas, Arlington TX, March 13

Dr. Tom Kieft, New Mexico Tech, Soccoro NM, April 17

FAGUY, D.M.

Prof. Richard Shand, University of Northern Arizona, Flagstaff AZ

GOSZ, J.R.

Douglas James, Hydrology Program Office, NSF

James Hoehn, EPSCoR Director, NSF

Thomas Spence, GeoSciences Directorate, NSF

Carter Kinsey, BioSciences Directorate, NSF

James Firnberg, Special Assistant to the NSF EPSCoR Program

Scott Hauger, Competitive Research Service, AAAS

John Hunt, GeoSciences Directorate, NSF

Marilyn Suiter, EHR Directorate, NSF

HANSON, D.T.

Dr. Edward DeLong, Senior Scientist and Chair, Science Department, Research and Development, Monterey Bay Aquarium Research Institute, Moss Landing CA. Keynote speaker at the 12th Annual Research Day, Department of Biology, UNM, April 4.

KODRIC-BROWN, A.

Departmental seminar speaker, Dr. George W. Uetz, Department of Biological Sciences, University of Cincinnati, Cincinnati Ohio, "Sex, Lies and Videotape: Multimedia Approaches to the Study of Multi-modal Communication in Spiders," February 6.

LOKER, E.S.

Dr. Willard O. Granath, University of Montana, Missoula MT, March

Dr. Dennis Minchella, Purdue University, West Lafayette IN, May

Dr. Louis DuPasquier, Senior Scientist, Basel Institute of Immunology, Basel, Switzerland, September 11-15

MILNE, B.T.

Prof. Almo Farina, Italy Prof. Vijay K. Gupta Dr. Allen Hunt, NSF program officer Robert Sneikus, NRCS regional planner Dr. Bill Swenson, University San Diego

MOLLES, M.C. JR.

Dr. Manuela Abelho, visiting stream ecologist, Coimbra, Portugal

NELSON, M.A.

Susan Ross, Professor, Department of Microbiology, University of Pennsylvania School of Medicine, September 30

Kay Johnson, EEO Officer for NIDCD (National Institute on Deafness and Other Communication Disorders) and NINR (National Institute of Nursing Research) at NIH, October 1

POCKMAN, W.T.

Dr. John Sperry, Professor, University of Utah, Salt Lake City, Utah, November

SINSABAUGH, R.L.

Dr. Sarah Karpanty, SUNY-Stony Brook, April 27-May 1

TAKACS-VESBACH, C.

Co-hosted with David Hanson Dr. Edward DeLong, Sr., Monterey Bay Aquarium Research Institute, Moss Landing, CA, for Research Day 2003, April 4.

THORNHILL, R.

Dr. Mark V. Flinn, Department of Anthropology, University of Missouri, Columbia MO, November 2003

TURNER, T.F.

Dr. Barrie Robison, University of Idaho, seminar and planning visit for collaborative research.

WERNER-WASHBURNE, M.

Dr. Peter Wentzell, Dalhousie University, Halifax, Nova Scotia, Canada

C. Committee Service.

1. Departmental committees served on in 2002 (indicate chair with asterisk).

ALTENBACH, J.S.

Undergraduate Policy Committee

BARTON, L.L.

* Graduate Student Scholarship Program Undergraduate Advisement

BROWN, J.H.

Promotion and Tenure Committee

CADAVID, L.F.

Biology Honors Committee Comparative Genomics Search Committee Graduate Policy Committee Mammalogist Search Committee Graduate Student Selection Committee 2003 Annual Research Day Committee Undergraduate Policy Committee

CHARNOV, E.L.

Salary Policy Committee

COLLINS, S.L.

Grove Scholarship Committee Graduate Student Selection Committee

COOK, J.A.

As the Chair of the Department of Biology at Idaho State University, I was on numerous committees.

COUCH, L.

* Graduation Committee (co-chair)

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CRIPPS, R.M.

* Dept. Seminars New Core Implementation Senior Ecology Hire COBRE Implementation * Molecular Biology Facility Lecturer III Search Committee

DAHM, C.N.

Salary Committee * Space/Buildings Committee Sevilleta Project Manager Search Committee

FAGUY, D.M.

Undergraduate Policy Committee 12th Annual Research Day Committee

FRIDRICK, C.

Fall: Biology Undergraduate Academic Advisor 2004 Annual Research Day Committee

HANSON, D.T.

BGSA Faculty Advisor, 2003–2004 Seminars Committee (sole member) Evolutionary and Theoretical Genomics Faculty Search Committee Greenhouses Committee New Graduate Student Orientation Committee 2003 Annual Research Day Committee

HOFKIN, B.V.

* Graduation Committee (co-chair) Undergraduate Policy Committee (through spring 2003) Publicity Committee (Fall 2003–present) Undergraduate Advisement, including pre-veterinary advisement

GOSZ, J.R.

Grove Award Committee

KODRIC-BROWN, A.

Museum of Southwestern Biology Curatorial Committee Salary Evaluation Committee

LIGON, J.D.

Fall: * Graduate Policy Committee

LIGON, S.H.

* 12th Annual Research Day (2003) Committee Undergraduate Curriculum Implementation Committee

LOKER, E.S.

Space/Buildings Committee, January-July.

LOWREY, T.K.

* Mammalogy Faculty Search Committee Board of Curators, Museum of Southwestern Biology Greenhouse Committee Biology Executive Committee Member, Museum of Southwestern Biology Space Committee, 2003

MARSHALL, D.L.

* Greenhouse Committee * Curriculum Implementation Committee

MILLER, R.D.

Spring: * Graduate Policy Committee Department Graduate Advisor * Department Tenure and Promotion Committee Steering Committee for Master Building Planning

MILNE, B.T.

Graduate Student Selection Committee *Biology Honors Program (co-chair) Library Liaison Castetter Renovation Planning Committee Biol. 203L, Ecology and Evolution, Transition Team

MOLLES, M.C. JR.

Executive Committee, Spring Collection Manager Search Committee, Division of Birds, Museum of Southwestern Biology Museum of Southwestern Biology Program Coordinator Search Committee

NATVIG, D.O.

Committee to oversee design and construction of a new research building at the Sevilleta LTER Field Station, Socorro NM.

Castetter Hall Renovation Committee

NELSON, M.A.

Space/Buildings Committee * 2003 Research Day Committee * Lecturer II Search Committee Interim Director, MARC Program, June 2003–present Associate Chair, Biology, Fall 2003–present

POCKMAN, W.T.

Biological Society of New Mexico Committee, Fall Biology Scholarship Committee, Spring Castetter Renovation Planning Committee, Summer Executive Committee, Spring Graduate Selection Committee Greenhouse Committee Lecturer II Search Committee, Fall

POE, S.

Space/Buildings Committee

SINSABAUGH, R.L.

* Strategic Building Plan Committee Museum of Southwestern Biology Executive Committee Sevilleta Scientific Advisory Committee

SNELL, H.L.

Tenure and Promotion Committee

Coordinator, Collaborative Program in Conservation Biology with the Charles Darwin Foundation, Galápagos, Ecuador, 1997-present.

STRICKER, S.A.

Executive Committee Biology Advisors Committee

SWAN, J.

Undergraduate Policy Committee

TAKACS-VESBACH, C.

2003 Annual Research Day Committee * 2004 Annual Research Day (co-Chair with Sandra H. Ligon) Graduate Policy Committee

THORNHILL, R.

Spring: * Graduate Student Selection Committee Fall: Graduate Policy Committee

TOOLSON, E.C.

Brown Bag Seminar Coordinator Core Curriculum Revision Committee Department Computer Oversight Committee Lecturer II Search Committee * Undergraduate Policy Committee

TURNER, T.F.

Ad-hoc Vehicle Committee Biology Department Space Committee Graduate Policy Committee MSB Executive Committee MSB Publications Committee

VOGEL, K.G.

* 2003 Annual Research Day Committee (co-chair)

WAGNER, A.

Graduate Student Selection Committee Computer Committee

WERNER-WASHBURNE, M.

Faculty Advisory Committee, Diversity Programs, College of Engineering Space committee, Biology Department Tenure and Promotion Committee, Biology Department Co-chair, Lecturer II Search Committee, Biology Department

WOLF, B.O.

Computer Committee Sevilleta LTER Research Building Committee

2. College/University committees served on in 2002 (indicate chair with asterisk).

BARTON, L.L.

Admissions and Registration Committee Undergraduate Committee Scholarships and Awards Committee

CADAVID, L.F.

New Mexico Alliance for Graduate Education and the Professoriate (NM-AGEP) Steering Committee

COOK, J.A.

As the Chair of the Department of Biology at Idaho State University: Member, Professional Achievement Selection Committee, College of Arts & Sciences, 2003

Member, Idaho Statewide Steering Committee, NIH-Biomedical Research Infrastructure Network, 2001–2003.

Numerous ad hac committees and studies

COUCH, L.

* Faculty Senate Undergraduate Committee Faculty Senate Teaching Enhancement Committee

CRIPPS, R.M.

Faculty Senate * Radiation Safety (co-chair)

DAHM, C.N.

UNM alternate (to Dr. Julie Coonrod) to the Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI) by UNM Vice-Provost for Research.

FAGUY, D.M.

University Biosafety Committee

GOSZ, J.R.

UNM Federal Priorities Committee

HANSON, D.T.

External Advisory Board, Mass Spectrometry Facility, UNM Biology Department Alternate for Faculty Senate meeting, October 28

KODRIC-BROWN, A.

Research Policy Committee

LOKER, E.S.

A & S Promotion and Tenure Committee Animal Care and Use Committee, January–July

MARSHALL, D.L.

Academic Freedom and Tenure Committee A&S Science Education Group

MILLER, R.D.

2003 A&S Junior Tenure and Promotion Committee (first year of two-year service) Senate Graduate Committee, Spring

MILNE, B.T.

Senior Tenure and Promotion Committee

MOLLES, M.C. JR.

Consortium of University of New Mexico Museums Committee A&S UNM Property Committee Coordinator, Program in Museum Studies Institute of Natural Resources Analysis and Management (INRAM) Advisory Committee *Southwest Hispanic Research Institute Director Search Committee J7 I

NATVIG, D.O.

Committee to select an architectural firm for the design of a new research building at the Sevilleta LTER Field Station, Socorro NM. Searle Committee (reviewed one proposal)

NELSON, M.A.

SEC Program Committee Albuquerque High Performance Computing Center (AHPCC) Associated Faculty Group (Charter member) Genomics Facility User Group, UNM School of Medicine Member, Action Team for Science, Technology, Engineering and Mathematics (STEM) National Institutes of Health (NIH) Center of Biomedical Research Excellence (COBRE) Review Committee Regents' Lecturers Selection Committee Member, Steering Committee, Southwest Graduate Coalition Bridges to the Doctorate Program

SNELL, H.L.

Grant's Committee, Latin American/Iberian Institute Board of Curators, Museum of Southwestern Biology

STRICKER, S.A.

Undergraduate Policy Committee, College of Arts and Sciences

TAKACS-VESBACH, C.

Alliances for Graduate Education and the Professoriate (AGEP), appointed Fall 2003.

THORNHILL, R.

Spring and Fall: Senate Graduate Committee, A & S

VOGEL, K.G.

Chemistry Department Graduate Review, UNM member Lane Scholarships Selection Committee (A&S)

WAGNER, A.

Center for Advanced Study Steering Committee

WERNER-WASHBURNE, M.

Faculty advisor, American Indian Science and Engineering Society (AISES) Faculty Advisory Committee for PROFOUND/CUGR Office, A&S and Engineering, UNM Advisor, Cancer Center, re: Native American Cancer Outreach and Education

WOLF, B.O.

Computer Committee Sevilleta LTER Research Building Committee

D. Other.

CHARNOV, E.L.

Rewrote college/university procedures for promotion to ranks of Regents' Professor and Distinguished Professor (changes not yet adopted as of January 2004).

COUNCIL-GARCIA, C.L.

A UNM Faculty Mediator.

DAHM, C.N.

Served as Interim Principal Investigator for the Sevilleta Long-Term Ecological Research (LTER) Project, June 2002–March 2003.

Helped Dr. Scott L. Collins coordinate the NSF Site Review of the Sevilleta LTER, August 20-22.

FAGUY, D.M.

Faculty Advisor for Biology Club and Asian-Pacific Islanders Pre-medical Student Society.

GOSZ, J.R.

Special Assistant to the UNM Vice Provost for Research for congressional liaison.

LOKER, E.S.

New Chair's Workshop, August 11-15

MARSHALL, D.L.

Departmental mentor for William T. Pockman and David T. Hanson, Assistant Professors

MOLLES, M.C. JR.

Coordinated planning of final phase of the Museum of Southwestern Biology (MSB) Center for Environmental Research, Information & Art (CERIA) building.

SNELL, H.L.

Charles Darwin Foundation and the Galápagos National Park Service:

- Ecological Monitoring Development Coordinator.
- Geographical Information Systems Supervisor.

Review 5-10 proposals for research permits each year for the Galápagos National Park Service.

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STRICKER, S.A.

NSF IGERT Steering Committee

Search Committee, University of Copenhagen, Copenhagen, Denmark Advisory Committee, Friday Harbor Laboratories, University of Washington, Friday Harbor WA Illg Lecture Committee, Chair, University of Washington, Friday Harbor WA

SWAN, J.

Development and coordination of modular flexible-schedule anatomy laboratories.

TOOLSON, E.C.

Continued development and maintenance of Biology Department web site and Undergraduate Advising web site.

VII. ADVANCED STUDY AND NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

CHARNOV, E.L.

Appointed Courtesy Professor of Fisheries and Wildlife, Oregon State University, Corvallis OR.

LOKER, E.S.

Appointed as Regents' Professor, April.

LOWREY, T.K.

Regents' Lectureship, UNM, 2003-2006.

MARSHALL, D.L.

UNM Alumni Association Faculty Award for Teaching and Research.

NELSON, M.A.

Regents' Lecturer Award, UNM, 2000–2003.

SNELL, H.L.

Conservation Fellow, Conservation Institute of the St. Louis Zoo, St. Louis MO, 2003-present.

WERNER-WASHBURNE, M.

Chosen one of nine Latinas in the U.S. to represent American Association for the Advancement of Science (AAAS) at international scientific meetings in 2003, will represent AAAS at a meeting in Argentina in April, 2004.

VIII. SABBATICALS, LEAVES OF ABSENCE, SUMMER TEACHING ELSEWHERE, TRAVEL, ETC., DURING THE PERIOD.

BROWN, J.H.

Sabbatical Leave, August-December.

CADAVID, L.F.

Visiting Professor, Universidad del Norte, Barranquilla, Colombia, November 26-28.

GOSZ, J.R.

Traveled to Denmark January 14-19, and to France June 29-July 6.

HANSON, D.T.

Travel:

- Research collaboration with Dr. Michael Salvucci, USDA Western Cotton Research Laboratory, Phoenix AZ, May 20-22.
- Research collaboration with Dr. John Andrews, Australian National University, Canberra, Australia, June 18–July 20.
- Research collaboration with Dr. Jack Meeks, University of California, Davis, CA, October 10-11.
- Trip with Terry Yates to New Mexico State University, Las Cruces NM, October 27 for coordination of research ideas for Defense Threat Reduction Agency (DTRA) proposal.
- Research collaboration with Dr. Steven Murray, University of California, Fullerton CA, December 22-23.

KODRIC-BROWN, A.

Fall: Sabbatical Leave

LOKER, E.S.

Traveled to Egypt to collect specimens related to grant "*Biomphalaria* in Egypt: Understanding the Changing Biology of the Snails That Transmit Schistosomiasis," Spring break.

Traveled to Kenya for two weeks to collect specimens related to grant "Evolution of Schistosoma mansoni and its Snail Hosts," June-July.

Traveled to Sri Lanka to collect snails and schistosomes, December 8-18.

LOWREY, T.K.

Sabbatical Leave, Fall.

Field Research, South Africa and Madagascar, January and February.

Traveled to Belize, Central America for Tropical Biology course.

MILLER, R.D.

Traveled to Adelaide and Sydney, Australia, May 27-June 21, 2003.

MILNE, B.T.

Travel to Alberta, Canada.

POCKMAN, W.T.

Visited Argentina to develop research opportunities and an intensive graduate course in environmental physiology at the University of Buenos Aires that will be taught in Fall 2004, June.

POE, S.

Field work in Bolivia (January), Belize (March), Jamaica (June), and Panama (December).

SNELL, H.L.

Re-assignment to the Charles Darwin Research Station (CDRS), Galápagos, Ecuador, as Director of Science Programs under a collaborative agreement between Biology Department and the CDRS.

STRICKER, S.A.

Sabbatical at Friday Harbor Laboratories, University of Washington, Friday Harbor WA, June 1, 2003–August 2004.

TAKACS-VESBACH, C.

Field work in Yellowstone National Park, with students K. Maas (Master's) and Nik Rael (undergraduate), May-August.

THORNHILL, R.

Research in the West Indies, December 2003.

TURNER, T.F.

Awarded Research Semester, Spring.

Travel to Manuas, Brazil, for American Society of Ichthyologists and Herpetologists (ASIH) Annual Meeting, June.

VOGEL, K.G.

Fall: On sabbatical, research on tunicate proteins at Friday Harbor Labs, Friday Harbor, WA.

WERNER-WASHBURNE, M.

Spring: On sabbatical Fall 2002.

IX. PUBLIC SERVICE.

ALTENBACH, J.S.

Advisor to the City of Albuquerque on the Bat Habitat Project in the Montaño Bridge.

BROWN, J.H.

Board of Trustees, Nature Conservancy of New Mexico.

COLLINS, S.L.

Represented the Sevilleta LTER and UNM at several outreach venues, including the NM State Fair, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Meeting (Albuquerque NM, October), and several educational groups.

DAHM, C.N.

State Fair Science Judge, New Mexico Science and Engineering Fair, Socorro NM, April 12.

Field Trip Guide, Center for the Southwest Colloquium on Climate Change, Sevilleta National Wildlife Refuge, April 13.

Mountain View Middle School Career Fair, Rio Rancho NM, April 23.

FRIDRICK, C.

Basic Literacy Tutor, Literacy Volunteers at Albuquerque Technical Vocational Institute, an accredited affiliate of ProLiteracy America, March-December.

HANSON, D.T.

Identification of biotic materials for the Sci-Fi Channel in collaboration with Dr. William H. Doleman, Office of Contract Archaeology, UNM, Fall.

HOFKIN, B.V.

Writer, editor, and on-air presentation of "Today's BioCast" on KANW, 89.1FM. This two-minute biology feature is underwritten by the UNM Biology Department.

MARSHALL, D.L.

Presentations on botanical topics to Escuela del Sol Montessori, Albuquerque NM.

MILNE, B.T.

U.S. Green Building Council-NM Chapter: Elected to Board of Directors (Advisory).

U.S. Green Building Council-NM Chapter: Member, Events Committee.

Volunteer, Miles Nelson for Congress campaign.

NELSON, M.A.

Judge, 2003 Native American Science and Engineering Fair, Albuquerque NM, March 13-15.

Judge, 2003 American Indian Science and Engineering Society (AISES) National Conference, Albuquerque NM, November 20-22.

SNELL, H.L.

Constant activity promoting the conservation of the Galápagos archipelago, Ecuador.

THORNHILL, R.

Advisor for New Mexicans for Science and Reason.

Advisor for TV documentaries by three TV companies on topics related to human evolution.

TURNER, T.F.

Science Fair judge, Zia Elementary School, February.

"The Silvery Minnow: A Canary in the Coal Mine," KUNM's "University Showcase," June. Hosted by Jane Blume, produced by Dick Frederiksen, KUNM 89.9 FM, the program focused on Museum of Southwestern Biology-based research in the Middle Rio Grande.

WERNER-WASHBURNE, M.

Helped organize Native American Cancer Education and Outreach, UNM HSC Cancer Center.

Wrote major components of Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Genomics training grant.

Toured and made a presentation to approx. 40 AP high school teachers during their summer training session.

Coordinated a tour of UNM for approximately 30 students during Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) meeting.

Local Organizing Committee, American Indian Science and Engineering Society (AISES) National Meeting.

Received a proclamation from Gail Beam, viewable on my website.

DEPARTMENT OF CHEMISTRY ANNUAL REPORT

July 1, 2003 - June 30, 2004 Thomas M. Niemczyk, Chair

Significant Developments During the Academic Year, 2003-2004

<u>New Faculty</u> The department carried out a search for an additional organic chemist during the 02/03 academic year. The search led to the hiring of Wei Wang as an assistant professor of chemistry starting in August of 2003. Wei's interests are in the synthesis of pharmaceutically active compounds. The hiring of Wei brings the organic division of chemistry to six full-time faculty and one fractional appointment (Richard Holder). With this number of faculty the division can adequately cover both the undergraduate and graduate courses in organic chemistry.

Wei worked very hard to get his lab operational, and by the end of the spring semester was producing results. He has gotten his research program off to a very fast start.

<u>Code 3</u> A code 3 review of David Tierney was carried out. The tenured members of the department voted unanimously to renew Dave's contract. Dave's contract was extended on the basis of this positive review.

<u>Whaley Endowment</u> In May of 2000 Thomas H. Whaley donated 25k to the chemistry department to establish a scholarship in honor of his son, Thomas "Bud" W. Whaley. Bud Whaley received both his BS and PhD in the department, and died in the late 1990s. Thomas H. Whaley died about a year ago and left an additional 700k to this scholarship fund. We intend to use this fund to give scholarships to undergraduates at all levels, thus encouraging undergraduate students to stay in the chemistry program.

Introductory Courses The Chemistry Department has put a considerable amount of effort into the improvement of the introductory chemistry courses over the last two years. Two central goals have been the focus of the effort that has been put into these courses. The goals are to have full-time Chemistry Department faculty as the instructors in these classes, and to have, as much as possible, the exact same syllabus used in all sections of the course. Li Qui-Gresham was hired as coordinator of the introductory chemistry program starting in the fall of 2003. She is responsible for the coordination/implementation of the revised curriculum.

The Chemistry 131/132 (Advanced Introductory Chemistry) sequence was reintroduced in the fall of 2002. The students, limited to about 25-30 in number, are generally well-prepared, bright, motivated, and interested in science. The student reviews of the class are very positive, and we now are seeing advanced undergrads in the program who have started in that course. We believe that this class will contribute to the number of chemistry majors. We plan to expand this class to a cap of 48 student (one additional lab section). It is our belief that the quality of the student experience can be maintained by such a modest expansion.

Graduate Program Much effort was put into a restructure of the graduate program during the year. One of the changes that was adopted over the year was to change the proficiency requirements/first-year course requirements for the entering graduate students. The students that enter in the fall of 2004 will be under these new requirements. The students are required to successfully complete a minimum of three of four possible "core" courses. The core courses are new courses offered by each of the traditional divisions within the department. The courses are designed to expose the students, at a graduate level, to materials that represent the most important concepts within each area. The students are still required to demonstrate proficiency in the four traditional areas of chemistry, but this can now be accomplished by successfully passing any of the new core courses, or by passing a proficiency exam. New proficiency exams have been adopted. The new proficiency exams have been written by members of the department. The exams that used to be used were exams developed by the American Chemical Society, but the feeling within the department was that these exams were generally hopelessly out of date.

The department is continuing to work on the research proposal requirement. The goal is to assure that the research proposal stresses creativity on the part of the student, but does so without an enormous increase in the amount of time required of the student relative to the amount of time they now spend on this requirement. There are several ideas being discussed, but we have yet to come to some general agreement about the optimum course of action to take.

<u>Major Instrumentation Facilities</u> Members of the Chemistry Department, most specifically Chris Enke and John Engen, have put forth considerable effort trying to establish a **Mass Spectrometer Facility** in the Chemistry Department. Built around INBRE funding (PI Engen) and help from the College of Arts and Science, the College of Engineering, the College of Medicine, and numerous departments in the three colleges, enough funding has been secured

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to get the facility started. Two mass spectrometers will be purchased. One will serve the needs of the bio-oriented researchers and the second will provide exact mass measurements. Space for the facility has been identified in the chemistry building to house the facility and a facility manager will be hired. Plans are to have the facility up and operating by January of 2005.

A proposal (lead PI is Kemp) to acquire a state-of-the-art single crystal X-ray diffractometer was submitted to the NSF in January of 2004. This was a resubmission of a proposal that received good reviews the previous year, but wasn't funded. The proposal was revised according to the reviewers' comments, so we are hopeful that this time it will be successful. The instrument will replace an instrument that is more than twenty years old.

<u>Graduate Recruitment</u> Recruitment of high quality graduate students remains a considerable challenge for the Chemistry Department. Nationally there are approximately half the number of undergraduate chemistry majors turned out as there are openings in graduate programs in Chemistry. In the last two decades graduate programs have fiercely recruited domestic students, but have had to heavily rely on foreign students to make up first-year graduate classes in chemistry. Since 9/11 there has been a fall off of students entering the USA to pursue graduate studies. Hence, it is becoming increasingly hard to recruit good students to fill out first-year graduate classes in chemistry.

The department has a graduate recruitment committee under the leadership of Prof. Dunaway-Mariano that is working very hard to recruit good students for the graduate program. A program has been set up where one of our faculty members will visit many of the regional schools to meet perspective students. We are also sending someone to each of the regional ACS meetings as most of these meetings have student poster sessions. We are trying to make contact with as many domestically trained students as possible. At the same time, all faculty members with international contacts are being asked to try to help to identify foreign students that might be recruited to our program.

There is continuing need to increase the stipends of the graduate assistants in chemistry. The regional salaries are 2-3k per year higher then what we are offering, making it very difficult to recruit domestic students, and increasingly hard to recruit foreign students.

Significant Plans and Recommendations for the Near Future

<u>Future Hiring</u> The chemistry department is currently searching for an experimental physical chemist. A successful hire will significantly impact the physical division. This division was probably short faculty even prior to the retirement of Ed Walters. The department is faced with a number of retirements in the next three years (Morrow, Deck, Paine, Enke, Pat Mariano, and Niemczyk), hence needs to continue to hire new faculty to remain viable. Richard Holder (fractionally in chemistry) has also been at UNM for more than thirty years. Given the difficulty and costs of hiring chemistry faculty, there could be a significant shortage of faculty in approximately three years if plans are not adopted to deal with the retirements. There are a number of Code 3/tenure decisions coming up in the next two years, and if any of these are negative the problem will be compounded.

An effort to identify the next chair of the department should begin no later than the spring of 2005. Dr. Niemczyk will be stepping down as of July 1, 2006.

Space The department currently has a good laboratory to house an experimental chemist, and an additional small laboratory that has been identified as space for a mass spectrometer facility. Once these laboratories are filled, the department will be in the position of having no space to offer to new faculty without moving current faculty out of laboratories. There might be enough currently underutilized space to house one additional research active faculty member. We can probably accommodate two more faculty members in terms of office space.

As discussed above, there will surely be some retirements of current Chemistry faculty in the next few years. In some cases (Enke, Walters, Morrow, and Holder) no laboratory space will be vacated. Without additional space it will be impossible to recruit replacement faculty for these retirements.

<u>Graduate Student Stipends</u> The stipends offered by the Chemistry Department to teaching assistants are low relative to other schools in the region, or relative to our peer institutions. The low salary makes it especially hard to recruit well trained and motivated domestic students. Initially, this negatively impacts the instructional program of the department because poorly trained and, perhaps, not highly motivated students are serving as laboratory instructors in the Department. In the longer run, it hurts the research program of the department. The level of the stipends must be increased to the point where our program is attractive to welltrained domestic students.

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IX I

Appointments to Faculty/Staff

Wei Wang was appointed assistant professor of chemistry on August 18, 2003..

Separations of Faculty/Staff

Ed Walters retired effective June 30, 2004 and was named Professor Emeritus. Ed has agreed to teach the trailer introductory chemistry course (Chem 121) in the spring of 2005 and the spring of 2006.

Publications of the Department

Cabaniss, Stephen

Pullin, M. J. and S.E. Cabaniss, "The effects of pH, ionic strength, and iron-fulvic acid interactions on the kinetics of non-photochemical iron transformations. I. Iron(II) oxidation and iron colloid formation" 2003 Geochim. Cosmochim. Acta 67, 21, 4067-4077.

Pullin, M.J. and S.E. Cabaniss, "The effects of pH, ionic strength, and iron-fulvic acid interactions on the kinetics of non-photochemical iron transformations. II. The kinetics of dark reduction" 2003 Geochim. Cosmochim. Acta 67, 21, 4079-4089.

Xiang, X., Huang, Y., Madey, G., Cabaniss S. 2004, "A web portal for supporting environmental science research" Environmental Online Communication, Arno Scharl, ed. Springer, London.

Dejanovic, K.N. and S.E. Cabaniss "A reverse phase HPLC method for determining polarity distributions in natural organic matter" 2004 Envr. Sci. Technol. 38, 1108-1114.

Deck, Lorraine

W.M. Brown, L.A. Hunsaker, L.M. Deck, R.E. Royer, and D.L. Vander Jagt, 17-β-Hydroxysteroid Dehydrogenase Type1: Computational Design of Active Site Inhibitors Targeted to the Rossmann Fold, *Chem. Biol. Interact.* **2003**, *143-144*, 481-491.

L.M. Deck, E.P. Papadopoulos and K.A. Smith, Reactions of Isocyanates with Methyl N-(Cyanothioformyl) anthranilate, *J. Heterocyclic Chem.* **2003** *40*, 885-893.

W.M. Brown, A. Hoard, T.A. Vander Jagt, L.A. Hunsaker, L.M. Deck, R.E. Royer, R. C. Piper, J.B. Dame, M.T. Makler and D. L. Vander Jagt, Comparative Structural Analysis and Kinetic Properties of Lactate Dehydrogenases from the Four Species of Human Malarial Parasites, *Biochemistry*, 2004, 43, 6219-6229.

J.E. Heidrich, L.M. Contos, L.A. Hunsaker, L.M. Deck and D.L. Vander Jagt, Inhibition of Pancreatic Cholesterol Esterase Reduces Cholesterol Absorption in the Hamster, *BMC Pharmacol.* 2004, *4*, 5-13.

Dunaway-Mariano, Debra

Xu D, Wei Y, Wu J, Dunaway-Mariano D, Guo H, Cui Q, Gao J. QM/MM studies of the enzyme-catalyzed dechlorination of 4-chlorobenzoyl-CoA provide insight into reaction

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Peisach E, Selengut JD, Dunaway-Mariano D, Allen KN. X-ray crystal structure of the hypothetical phosphotyrosine phosphatase MDP-1 of the haloacid dehalogenase superfamily. Biochemistry. 2004 Oct 12;43(40):12770-9.

Allen KN, Dunaway-Mariano D. Phosphoryl group transfer: evolution of a catalytic scaffold. Trends Biochem Sci. 2004 Sep;29(9):495-503.

Gulick AM, Lu X, Dunaway-Mariano D. Crystal structure of 4-chlorobenzoate:CoA ligase/synthetase in the unliganded and aryl substrate-bound states. Biochemistry. 2004 Jul 13;43(27):8670-9.

Lu X, Galkin A, Herzberg O, Dunaway-Mariano D. Arginine deiminase uses an active-site cysteine in nucleophilic catalysis of L-arginine hydrolysis. J Am Chem Soc. 2004 May 5;126(17):5374-5.

Zhang G, Morais MC, Dai J, Zhang W, Dunaway-Mariano D, Allen KN. Investigation of metal ion binding in phosphonoacetaldehyde hydrolase identifies sequence markers for metal-activated enzymes of the HAD enzyme superfamily. Biochemistry. 2004 May 4;43(17):4990-7.

Liu S, Lu Z, Han Y, Jia Y, Howard A, Dunaway-Mariano D, Herzberg O. Conformational flexibility of PEP mutase.Biochemistry. 2004 Apr 20;43(15):4447-53.

Lahiri SD, Zhang G, Dai J, Dunaway-Mariano D, Allen KN. Analysis of the substrate specificity loop of the HAD superfamily cap domain. Biochemistry. 2004 Mar 16;43(10):2812-20.

Zhuang Z, Song F, Takami H, Dunaway-Mariano D. Free in PMC The BH1999 protein of Bacillus halodurans C-125 is gentisyl-coenzyme A thioesterase. J Bacteriol. 2004 Jan; 186(2):393-9.

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Zhang G, Allen KN, Dunaway-Mariano D. Enzymatic synthesis of radiolabeled phosphonoacetaldehyde. Anal Biochem. 2003 Nov 15;322(2):233-7.

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Zhang G, Dai J, Lu Z, Dunaway-Mariano D. The phosphonopyruvate decarboxylase from Bacteroides fragilis. J Biol Chem. 2003 Oct 17;278(42):41302-8. E pub 2003 Aug 06.

Dong J, Lu X, Wei Y, Luo L, Dunaway-Mariano D, Carey PR. The strength of dehalogenase-

substrate hydrogen bonding correlates with the rate of Meisenheimer intermediate formation. Biochemistry. 2003 Aug 12;42(31):9482-90.

Evans, Deborah

R.D. Coalson and D.G. Evans*, Condensed phase vibrational relaxation: calibration of approximate relaxation theories with analytical and numerically exact results, Chem. Phys., 296, 117, 2004.

V. Subramanian and D.G. Evans and, Excitation energy transfer in model light-harvesting antennae, J. Phys. Chem B; 108, 1085 (2004)

Guo, Hua

D. Xu, H. Guo, S. Zou and J. M. Bowman, Chem. Phys. Lett., 377, 582 (2003), A scaled ab initio potential energy surface for acetylene and vinylidene.

R. Chen and **H. Guo**, J. Chem. Phys., 119, 5762 (2003), On the convergence scaling laws of Lanczos and Chebyshev recursion methods.

S. Y. Lin and **H. Guo**, J. Chem. Phys., 119, 5876 (2003), Exact quantum mechanical calculation of rovibrational energy levels of hydrogen peroxide (HOOH).

S. Y. Lin and **H. Guo**, J. Phys. Chem. (Kouri Festschrift), 107, 7197 (2003). Full-dimensional quantum wave packet studies of collisional vibrational relaxation of both p- and o-H₂.

D. Xu, D. Xie, and **H. Guo**, J. Theo. Comp. Chem., (Special Issue on Iterative Methods) 2, 639 (2003). Theoretical studies of resonance emission spectra of HCN/DCN using single Lanczos propagation method.

S. Y. Lin and **H. Guo**, J. Chem. Phys., 119, 11602 (2003), Quantum wave packet study of reactive and inelastic scattering between $C(^{1}D)$ and H_{2} .

S. Y. Lin and **H. Guo**, Chem. Phys. Lett, 385, 193 (2004), Quantum integral cross-section and rate constant of the $O(^{1}D) + H_{2} \rightarrow OH + H$ reaction on a new potential energy surface.

H. Li, D. Xie, and **H. Guo**, J. Chem. Phys., 120, 4273 (2004), An ab initio potential energy surface and predissociative resonances of HArF.

S. Y. Lin and **H. Guo**, J. Phys. Chem. A108, 2141 (2004), Quantum wave packet studies of the $C(^{1}D) + H_{2} \rightarrow CH + H$ reaction: integral cross-section and rate constant.

D. Xu, H. Guo, J. Gao, and Q. Cui, Chem. Comm., 891 (2004), A QM/MM study of nucleophilic aromatic substitution reaction catalyzed by 4-chlorobenzoyl-CoA dehalogenase.

S. Y. Lin and **H. Guo**, J. Chem. Phys., 120, 9907 (2004), A wave packet based statistical approach to complex-forming reactions.

H. Guo, Chebyshev propagation and applications to scattering problems, in Theory of Chemical Reaction Dynamics, edited by A. Lagana and G. Lendvay, Kluwer, 2004, Dordrecht.

Kemp, Richard A.

Y. Tang, L.N. Zakharov, A.L. Rheingold, and R.A. Kemp, "Insertion of Carbon Dioxide into Mg-N Bonds. Structural Characterization of a Previously Unknown h² Chelation Mode to Mg in Magnesium Carbamates", Organometallics, 23, 4788 (2004).

T.J. Boyle, E.N. Coker, C.A. Zechmann, J.A. Voigt, M.A. Rodriguez, R.A. Kemp, and M.P. Zum Mallen, "Precipitation of Spherical Magnesium(II) Cresolate Particles", *Chemistry of Materials*, **15**, 309 (2003).

Mariano, Patrick

"The Photochemistry of Silicon Substituted Phthalimides," U.C. Yoon, P.S. Mariano, Handbook of Organic Photochemistry and Photobiology, W. Horspool ed., CRC Press, 2003.

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"A New Look at Pyridinium Salt Photochemistry," P.S. Mariano, Handbook of Organic Photochemistry and Photobiology, W. Horspool ed., CRC Press, 2003.

"The Influence of Aminium Radical Heterolytic Fragmentation Rates on the Nature and efficiencies of SET-Promoted Photochemical Reactions," U.C. Yoon, P.S. Mariano, *J. Photosciences*, **10**, 89-96 (2003).

"A Synthetic Strategy for the Preparation of Cyclic Peptide Mimetics Based on SET-Promoted Photocyclization Processes," U.C.Yoon, Y.X. Jin, S.W. Oh, C.H. Park, J.H. Park, C.F.Campana, X. Cai, E.N. Duesler, P.S. Mariano, *J. Amer. Chem. Soc.*, **125**, 10664-10671 (2003).

"The Photochemistry of Polydonor-Substituted Phthalimides. Curtin-Hammet Type Control of Competing Reactions of Potentially Interconverting Zwitterionic Biradical Intermediates," U.C. Yoon, H.C. Kwon, T.G. Hyung, K.H. Choi, S.W. Oh, S. Yang, Z. Zhao, P.S. Mariano, *J. Amer. Chem. Soc.*, **126**, 1110-1124 (2004).

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Paine, Robert T.

X. Gan, R.T. Paine, E.N. Duesler and H. Nöth "Synthesis and Coordination Chemistry of Arene Soluble 4-Alkyl-2,6-bis[(diphenylphosphino)methyl] pyridine N,P,P'-trioxide Ligands" J. Chem. Soc. (Dalton) 153 (2003).

M. Fan, E.N. Duesler and R.T. Paine "Syntheses and Structure of an Amidoimidotitanium Cage Complex" *Applied Organometal. Chem.* 17, 549 (2003).

X. Gan, E.N. Duesler and R.T. Paine "Synthesis of Trifunctional Ligands Containing Thiophosphoryl, Pyridine and Pyridine N-oxide Donor Groups", *J. Chem. Soc.* (Dalton), 4704 (2003).

J.F. Janik, M. Drygas, C. Czosnek, M. Kaminska, M. Palczewska and R.T. Paine "Carbothermallyassisted Aerosol Synthesis of Semiconducting Materials in the System GaN/Mn". *J. Phys. Chem. Solids* 65, 639 (2004).

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Tierney, David

"Comparison of Cysteine and Penicillamine Ligands in a Co(II) Maquette" A. K. Petros, S. E. Shaner, A. L. Costello, D. L. Tierney and B. R. Gibney, Inorganic Chemistry (2004), 43, 4793-4795.

Wang, Wei

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Wang, W.; Wang, J.; Li, H. "Catalysis of Highly Stereoselective Mannich-Type Reactions of Ketones with alpha-Imino Esters by a Pyrrolidine Sulfonamide. Synthesis of Unnatural alpha-Amino Acids," Tetrahedron Lett., 2004, 45, 7243-7246.

Outside Professional Activities

Niemczyk gave a plenary lecture entitled "Quantitative Analysis of Polymorphic Mixtures Using Infrared Spectroscopy" at a meeting titled Diversity Amidst Similarity: A Multidisciplinary Approach to Polymorphs, Solvates, and Phase Relationships that was held in Erice, Italy from June 9-20, 2004

Outside Sponsored Research

Brozik, James United States Air Force: Intergovernmental Personnel Act Assignment, Jason Marshall; 11/1/03-10/31/04, \$85,680.

Sandia National Laboratories, Spectroscopic Characterization of Transmembrane Protein Reactivity/Restructuring within Lipid Layers and/or Whole Cells; 2/18/03-8/31/04, \$40,000.

Los Alamos National Laboratory, Membrane Bound Amphiphilic & Biamphipjilic Oligomers, W. Photo-initiated Electron & Energy Transfer Properties; 4/403-4/4/05, \$124,590.

Deck, Lorraine

National Institutes of Health: Irreversible Inhibitors of Cholesterol Esterase; 2/15/02-2/14/05, \$73,668.

Arizona State University: Synthesis of Inhibitors for Breast Cancer; 9/15/03-9/14/04, \$756.

Arizona State Unversity: Synthesis of Substituted Tetralones as Inhibitors of NfkB &LDH; 1/20/04-01/19/05, \$756.

Dunaway-Mariano, Debra National Institute of General Medical Sciences: Enzyme Mechanisms; 2/1/98-5/31/05, \$660,798

Boston University: NIH/Structural and Mechanistics Studies of Phosphonatase; 04/01/00-03/31/05, \$302,463.

National Institutes of Health: Mechanisms and Inhibition of Pyruvate Phosphate Dikinase; 4/01/02-03/31/05, \$378,592.

Engen, John

New Mexico State University: Progtine Folding/Refolding During Mitochondiral Import; 09/30/03-08/31/04, \$60,000.

National Institutes of General Medical Sciences: Structural Dynamics of Src-Family Kinase activation; 4/01/04-3/31/05, \$229,154.

National Institutes of Health: Arrestin Activation Proed with Mass Spectophotometry; 04/01/04-3/31/05, \$250,000.

Evans, Deborah Cottrell Research Corporation: Theoretical Studies of Electron and Exceton Transport in Dendremeric Macromolecules; 7/1/99-6/30/04, \$50,000.

American Chemical Society: Simulation and Control of Electron Transfer in Molecular Arrays; 09/01/01-08/31/04, \$60,000.

Dreyfus: Computational Methods for Undergrad Instruction & for Electron Transport in Dendrimer Arrays; 6/15/00-6/14/05, \$60,000.

Guo, Hua

National Science Foundation: Theoretical Studies of Spectroscopy and Dynamics of Molecular Systems; 01/01/01-12/31/04, \$294,000.

National Science Foundation: Collaborative Research of Proton Transfers in Enzymes: A Synergetic Theory-Experiment Approach; 09/01/03-08/30/05, \$116,959.

National Science Foundation: theoretical Studies of Spectroscopy and Dynamics of Molecular Systems; 4/01/04-3/31/05, \$135,000.

Keller, David

National Institute of General Medical Sciences, Mechanics and Mechanisms of HIV Reverse Transcriptase; 8/01/01-07/31/04, \$800,000.

Kemp, Richard A.

National Science Foundation: Fixation of CO_2 for Use in Radiopharmaceuticals; 8/01/02-7/31/05, \$420,000.

Sandia National Laboratories: Management for Automotive Catalysts; 11/22/02-12/01/04, \$139,000.

National Science Foundation: Inorganic Chemistry Workshops, 2004-2006; 4/15/04-3/31/05, \$30,000.

Kirk, Martin L.

National Institutes of General Medical Sciences: Spectroscopic Studies of Molybdoenzymes and Models '02-'03; 06/01/02-05/31/04, \$787,110.

American Chemical Society: metal-Ligand Redox Interplay & Molecular Bistability in Quinoxaline-Bases Complexes; 06/01/02-08/31/04, \$88,000.

National Science Foundation: MRI Proposal for Acquisition/Construction of Combined X-Bank/Q-Band CW IPR/Endor; 8/15/02-7/31/05, \$306, 691.

Mariano, Patrick

National Science Foundation: Preparative Electron Transfer Photochemistry; 03/10/02-02/28/05, \$376,000.

National Science Foundation/KOSEF: Preparative Electron Transfer Photochemistry; 12/01/01-11/30/04, \$28,000.

National Institute of General Medical Sciences: Novel Approaches for Alkaloid Synthesis; 6/1/97-2/29/05, \$1,615,106.

Niemczyk, Thomas

Sandia National Laboratories, Determination of Type III Desiccant Adsorption Isotherms; 7/29/98 – 12/31/02, \$309,937.

Paine, Robert T.

National Science Foundation: Ring and Cage Assemblies for Main Group Elements; 3/1/00-2/28/05, \$378,615.

Oak Ridge National Laboratory: BNComposite Materials for Hydrogen Storage; 05/24/04-08/31/04, \$25,000.

American Chemical Society: Development of New Imidophosophonanes; 01/01/02-12/31/04, \$132,054.

Department of Energy: Preorganized & Immobilized Ligands for Metal Ion Separation; 08/01/03-07/30/04, \$304,000.

Tierney, David

ACS/PRF: A Comprehensive Spectroscopic Approach to structure and Bonding High-spin CO₂ Systems; 7/1/00-8/31/05, \$35,000.

Annual Report / 2003-2004 Department of Communication & Journalism Submitted by Bradford 'J' Hall, Chair

Appointments:

August 2003, Ilia Rodriguez, Assistant Professor March 2004, Shirley-Rey Lovato, Department Administrator

Separations:

Jack Condon and Everett Rogers each retired over the last year. Both were recommended for Professor Emeritus status

Change in status:

- Virginia McDemott was changed from Instructor status to Assistant Professor Status as she completed her Ph.D. over the summer (2004)
- Glenda Balas and Krishna Kandath both successfully passed their mid-probationary reviews

Departmental Developments:

The Department of Communication & Journalism continued to work on its building renovation fund raising. Part of that process was facilitated through a newsletter that was sent out via hard copy to past graduates. The department also made plans for e-mail newsletters in the future.

The Department sponsored the National Communication Association Doctoral Honors Seminar (July 2004). Krishna Kandath served as coordinator for the whole event. Brad Hall, Ev Rogers, and Karen Foss each served as area leaders for specific content areas addressed by the seminar. Their were 36 students and 12 area experts (faculty) from around the nation who participated. The seminar theme was Communication and Borders. The event went very well and received positive reviews.

The Department also played host to the Western States Communication Association Conference which had more than 700 participants (February, 2004). Many faculty and graduate students helped to make this possible, but Ken Frandsen played a key role as the departmental kink with the regional association.

At the end of 2003-04 the Department has 601 majors. In 2003-2004 the Department graduated in 129 students with B.A.s, 19 with M.A.'s and 8 with a Ph.D.'s for a total of 156 graduates.

The department had six active student organizations, including Media Honors, PRSSA, AAF, Women in Communication, Society of Professional Journalists, Undergraduate

Communication Association, continued to be active.

The Department withdrew from the journalism accreditation process to give further review to issues raised by the accrediting team. Miguel Gandert continued to head this review process.

The Department made a number of curriculum changes designed to give greater clarity and organization to the departmental listings.

Janet Cramer received a research semester to help with tenure and promotion preparation.

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Summary of a few faculty activities (other than published research):

Janet Cramer continued to serve as co-director of graduate studies for the department, chairing the MA admissions committee, planning new graduate student orientations and visitation days for prospective students, coordinating and raising funds for alumni receptions at conventions, and serving as major advisor to several MA and Ph.D. students.

Karen Foss continued to serve as co-director of graduate studies for the department, chairing the MA admissions committee, planning new graduate student orientations and visitation days for prospective students, coordinating and raising funds for alumni receptions at conventions, and serving as major advisor to several MA and Ph.D. students. She also continued to participate in various capacities in the Women Studies program at UNM. She was selected as the first joint appointment in the program, teaching one class per semester for Women Studies during her 2-year tenure. She served as department liason to the FLC Committee. She served as an associate editor for five communication journals

Ken Frandsen served as host for the Western States Communication Association Conference. He also received from WSCA the distinguished service award for a lifetime of service.

Bradford 'J' Hall: Continued to serve as department chair. As chair he sat in on many committees and continued to oversee issues related to budgeting, scheduling and various types of student and faculty problems.

Judith Hendry organized and directed the first Mercer Scholarhip Speech Tournament in which 24 student speakers participated and a total of \$2550 of scholarship awards were given. She also created and am currently teaching a new course (first time teaching) in Persuasion as part of the Distance Education programs' Interactive TV offerings. She also co-directed the core course in Public Speaking and oversaw the departmental scholarships that we give out each Spring.

Dennis Herrick served as secretary-treasurer of the board of directors for Albuquerque's public access television station, editor of a national newsletter published by a national veterans organization, and State Sunshine Chair of the Society of Professional Journalists. He is also on

the Executive Committee of AEJMC's Media Management and Economics division. He was a speaker at the 24th annual New Mexico High School Journalism Workshop.

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Krishna Kandath served as chair of the Intercultural Communication Interest Group for the Western States Communication Association, organizing the program for the Albuquerque convention. He also served as vice-chair of the Communication Theory Interest Group for the Western States Communication Association. He served on the Asian Studies committee and advisory group, and also as faculty advisor to the Indian Students Association.

Ginny McDermott co-wrote a \$1,000,000 grant to the National Institute of Health on Understanding and Promoting the Health Literacy of American Indian Adolescents. She created and delivered a week-long health campaign writing workshop to 15 American Indian community representatives. She also trained staff at the Veteran's Administration Hospital in interpersonal and leadership skills.

Richard Schaefer has put in three research proposals as part of an umbrella NSF center-creation proposal being coordinated by Kristy Mills at UNM. This group has been meeting twice a week for two hours a week. He has also been sitting on the UNM Digital Media & Film Initiative working group that recently received more than \$3 million from the State of New Mexico. He also worked on an educational video entitled "Facilitative Management," in partnership with Kathy Domenici, Stephen Littlejohn, and Janet Cramer.

Jan Schuetz, has continued to serve as the undergraduate committee chair and advisor for the communication program. She participated in five professional conferences, worked with the N.M. Trial Lawyers' Association, and worked with the National Debate Watch. She also worked as an associate editor on four journals, was a reviewer for papers for 3 conferences, and worked with several students from other universities on their dissertations related to public communication research in law, politics, and religion.

Olaf Werder worked with the American Advertising Federation student organization, helping them to finish third in the district with the national student advertising competition (NSAC). He organized and executed positive media coverage of our students' activities and success (articles appeared in the NM Business Journal and Daily Lobo). He also helped the volunteers of the Indian Pueblo Cultural Center (IPCC) to craft a mission statement and self promotion drive.

Committee Assignments 2003-2004

Undergraduate/Teaching Journalism Committee

Dirk Gibson, Chair (Miguel took over due to Dirk's illness) Miguel Gandert Ilia Rodriguez Dennis Herrick Mary Bibeau Graduate Teaching Assistant

Undergraduate/Teaching Communication Committee

Jan Schuetz, Chair Ginny McDermott John Oetzel Jack Condon (Fall only) Gill Woodall (Spring only) Mary Bibeau Graduate Teaching Assistant

Graduate Committee - Doctoral level admissions

Janet Cramer, Chair Ev Rogers Olaf Werder Richard Schaefer Amy Jameson Graduate Student - MA

Graduate Committee - Masters level admissions

Karen Foss, Chair Jack Condon (Fall only) Ginny McDermott (Spring only) Glenda Balas Krishna Kandath Amy Jameson Graduate Student - Ph.D.

Associate Chair (with special responsibilities for reaccreditation): Miguel Gandert Web Cite & Newsletter Supervisor: Dennis Herrick Library Coordinator: Krishna Kandath Colloquim Organizers: Ken Frandsen, Janet Cramer and 2 Graduate Students (one M.A. one Ph.D.)

Building Renovation Committee

Brad Hall, Co-Chair Judith Hendry, Co-Chair Karen Foss Ev Rogers Amy Jameson Graduate Student

Graduate Annual Review Committee

Bob Gassaway, Chair Ken Frandsen Glenda Balas Gill Woodall

Budget Committee

John Oetzel, Chair Ilia Rodriguez Dennis Herrick Amy Jameson Graduate Student

Merit Committee

Richard Schaefer, Chair Jan Schuetz Dirk Gibson Olaf Werder

Scholarship/Internship Committee

Judith Hendry, Chair Bob Gassaway Brad Hall Amy Jameson **Faculty Publications**

Glenda Balas

Balas, G. (2003). <u>Recovering a Public Vision for Public Television</u>. (Critical Media Series, Series Editor Andrew Calabrese, Rowman and Littlefield Publishing, Boulder, CO).

Janet Cramer

Cramer, Janet M. (2003). White womanhood and religion: U. S. missionary women's publications, 1890-1905. The Howard Journal of Communications 14 (4).

Cramer, Janet M. and McDevitt, Michael (2003). Ethnography. In <u>Qualitiative Research in Journalism:</u> <u>Taking it to the Streets</u>, Sharon Iorio (Ed.), pp 127-143. New York: Lawrence Erlbaum Associates, Inc.

Karen Foss

Foss, K A, Foss, S K., and Griffin C., eds., (2004) Readings in Feminist Rhetorical Theory (Sage).

Dennis Herrick

Herrick, D. (2004) Media Management in the Age of Giants: Business Dynamics of Journalism. Ames, IA: Iowa State Press.

Krishna Kandath

Krishna P. Kandath, John Oetzel, Everett M. Rogers, and Ann M. Mayer-Guell (2003), <u>Communication</u> <u>Behavior of Virtual Workforces: A Report on Effective Communication</u>, San Francisco: IABC Research Foundation.

John Oetzel

- Oetzel, J. G., & Ting-Toomey, S. (2003). Face concerns and facework during conflict: A test of the facenegotiation theory. Communication Research, 30, 599-624.
- Oetzel, J. G., Ting-Toomey, S., Chew Sanchez, M., Harris, R., Wilcox, R., & Stumpf, S. (2003). Face and facework in conflicts with parents and siblings: A cross-cultural comparison of Germans, Japanese, Mexicans, and U. S. Americans. *Journal of Family Communication*, 3 (2), 67-93.
- Oetzel, J. G., Torres, A. B., Meares, M. M., Ginossar, T., & Derkacs, D. (2003). Mistreatment as a source of intergroup conflict in the culturally diverse organization. *Journal of Intergroup Relations*, 29(4), 44-63.

- Myers, K. K., & Oetzel, J. G. (2003). Exploring the dimensions of organizational assimilation: Creating and validating a measure. *Communication Quarterly*, 51, 436-455.
- Oetzel, J. G., Myers, K. K., Meres, M. M. & Lara, E. (2003). Interpersonal conflict in organizations: Explaining conflict styles via face-negotiation theory. *Communication Research Reports*, 20, 106-115.
- Bailey, C., & Oetzel, J. G. (2003). Tighten me up: Reflecting and maintaining ethnic identity through daily interactions in an African American-owned beauty salon. In M. Fong R. Chuang (Eds.) *Communicating ethnic and cultural identity* (pp. 217-229). Lanham, MD: Rowman & Littlefield (refereed).
- Meares, M. M., & Oetzel, J. G. (2003). A case of mistreatment? In J. Keyton & P. Shockley-Zalabak (Eds). Case studies for organizational communication: Understanding communication processes (pp. 359-368). Los Angeles, CA: Roxbury Press (refereed).
- Oetzel, J. G. & Robbins, J. (2003). Group identity in a cooperative: A bona fide group perspective. In L. Frey (Ed.) Groups in context: Bona fide groups (pp. 183-208). Mahway, NJ: Lawrence Erlbaum (refereed).

Everett Rogers

- Wheeler, Denise R., Everett M. Rogers, J. Scott Tonigan, & W. Gill Woodall (2003), "Effectiveness of Customized Victim Impact Panels", <u>Accident Analysis and Prevention</u>, 36 (1): 29-35.
- Rogers, Everett M. (2003), Diffusion of Innovations, Fifth Edition, New York, Free Press.
- Everett M. Rogers (2003), "Technology Diffusion and the Global Village", in Kwadwo Anokwa, Carolyn A. Lin, and Michael B. Salwen (Eds.), <u>International Communication: Concepts and Cases</u>, Belmont, CA, Thomson/Wadsworth, pp. 255-266.
- Raul Zaritsky, Anthony E. Kelly, Woodie Flowers, Everett M. Rogers, and Patrick O'Neill (2003), "Clinical Design Sciences: A View from Sister Design Efforts," <u>Educational Researcher</u>, 32(1): 32-34.
- Everett M. Rogers (2003), "Diffusion of News of the September 11th Terrorist Attacks," in A. Michael Noll (ed.), <u>Crisis Communications: Perspectives on September 11th</u>, Rowan & Littlefield, pp..
- Everette E. Dennis, Philip Meyer, S. Shyam Sundar, Larry Pryor, Everett M. Rogers, Helen L. Chen, and John Pavlik (2003), "Learning Reconsidered: Education in the Digital Age," <u>Journalism & Mass</u> <u>Communication Educator</u>, 57(4): 292-317.
- Rogers, Everett M. (2003), "Diffusion of the Internet," in Paul S.N. Lee, Louis Leung, and Clement Y.K. So (eds.), <u>Impact and Issues in New Media: Toward Intelligent Societies</u>, Cresskill, NJ, Hampton Press, pp. 21-34.

- Everett M. Rogers, Shiro Takegami, & Jing Yin (2003), "Lessons Learned about Technology Transfer," in David V. Gibson, Chandler Stolp, Pedro Conceicao, & Manuel V. Hector (Eds.), <u>Systems and Policies</u> for the Global Learning Economy, Westport, CN: Praeger, pp. 369-382.
- Everett M. Rogers & Arvind Singhal (2003), "Empowerment and Communication: Lessons Learned from Organizing for Social Change," in Pamela J. Kalbfleisch (ed.), <u>Communication Yearbook 27</u>, pp. 67-85.
- Everett Rogers (2003), "Diffusion Networks," in Rob Cross, Andrew Parker, & Lisa Sasson (Eds.), <u>Networks in</u> <u>the Knowledge Economy</u>, New York: Oxford University Press.

Richard Schaefer

- Schaefer, R. J. (2003, March). Wither digital television? (An introduction to a series of articles edited by Richard Schaefer on the current state of digital television in the United States.) Journal of Broadcasting & Electronic Media 47:1, 145.
- Schaefer, R. J., & Gonda, G. K. (2004). U.S. public television workers' initial impressions of the DTV transition. Southwestern Mass Communication Journal 15:1, 10 proofed pages.

Jan Schuetz

Schuetz, (2004). J."Victim Impact Arguments in the Timothy McVeigh Trial," Argumentation Studies. Eds. F. van Eemeren & P. Houtlouser. Dordrect: Kluwer Academic Publishers.

Gill Woodall

- Wheeler, D. R., Rogers, E. M. Tonigan, J. S., & Woodall, W. G. (2003). Effectiveness of customized Victim Impact Panels on first-time DWI offender inmates. Accident Analysis and Prevention, 36(1), 29-35.
- Walters, S. T., & Woodall, W. G. (2003). Mailed feedback reduces consumption among moderate drinkers who are employed. *Prevention Science*, 4(4), 287-294.

THE ANNUAL REPORT OF THE DEPARTMENT OF EARTH AND PLANETARY SCIENCES

July 1, 2003 to June 30, 2004

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Department of Earth and Planetary Sciences

Annual Report

July 1, 2003 – June 30, 2004

Leslie D. McFadden, Chair

I. GENERAL DEPARTMENTAL INFORMATION (Calendar Year 2003)

FACULTY AND STAFF

PROFESSORS:

Carl Agee, Ph.D., University of Columbia, 1988.
Adrian J. Brearley, Ph.D., University of Manchester, (United Kingdom), 1984.
Michael E. Campana, Ph.D., University of Arizona, 1975.
Laura J. Crossey, Ph.D., University of Wyoming, 1985.
John W. Geissman, Ph.D., University of Michigan, 1980.
David Gutzler, Ph.D., Massachusetts Institute of Technology, 1986. (Regents Lecturer)
Karl E. Karlstrom, Ph.D., University of Arizona, 1981.
Barry S. Kues, Ph.D., Indiana University, 1974.
Leslie D. McFadden, Ph.D., University of Arizona, 1982.
Jane Selverstone, Ph.D., Massachusetts Institute of Technology, 1985. (Regents Lecturer)
Gary Smith, Ph.D., Oregon State University, 1986.
Zachary Sharp, Ph.D., University of Michigan, 1987.

ASSOCIATE PROFESSORS:

Yemane Asmerom, Ph.D., University of Arizona, 1988. Maya Elrick, Ph.D., Virginia Tech. University, 1990. Peter Fawcett, Ph.D., Pennsylvania State University, 1994. Stephen P. Huestis, Ph.D., University of California, San Diego, 1976. Grant Meyer, Ph.D., University of New Mexico, 1993. Louis A. Scuderi, Ph.D., University of California, Los Angeles, 1984.

ASSISTANT PROFESSORS:

Tobias Fischer, Ph.D., Arizona State University, 1999. Mousumi Roy, Ph.D., Massachusetts Institute of Technology, 1997.

SENIOR RESEARCH PROFESSORS:

Roger Y. Anderson, Ph.D., Stanford University, 1960. Cornelis ("Kase") Klein, Ph.D., Harvard University, 1965. Wolfgang E. Elston, Ph.D., Columbia University, 1953. Lee A. Woodward, Ph.D., University of Washington, 1962.

RESEARCH PROFESSORS:

Horton Newsom, (Institute of Meteoritics), Ph.D., University of Arizona, 1981. Franciscus J.M. Rietmeijer, Ph.D., Rijksuniversiteit-Utrecht, Netherlands, 1979. Charles K. Shearer, Jr., (Institute of Meteoritics), Ph.D., University of Massachusetts, 1983.

PROFESSOR EMERITUS:

Rodney C. Ewing, Ph.D., Stanford University, 1974. J. Paul Fitzsimmons, Ph.D., University of Washington, 1949. James J. Papike, Ph.D., University of Minnesota, 1964. (Regents Professor)

RESEARCH STAFF:

Mehdi Ali, Research Scientist I, Ph.D., University of Arizona, 1989. Viorel Atudorei, Research Scientist III, Ph.D., University of Lausanne, Switzerland, 1998. Lars Borg, Senior Research Scientist (Institute of Meteoritics), Ph.D., University of Texas at Austin, 1996. James Connolly, Research Scientist II, M.S., University of New Mexico, 1981. Barbara Cohen, Research Assistant Professor, Ph.D., University of Arizona, 2000. Dave Draper, Senior Research Scientist III, Ph.D., University of Oregon, 1991. John Husler, Research Scientist III, M.S., University of New Mexico, 1968. Ying-Bing Jiang, Research Scientist I, M.S., University of New Mexico, 2002. Rhian H. Jones, Senior Research Scientist (Institute of Meteoritics), Ph.D., University of Manchester, Great Britain, 1986. Victor Polyak, Research Scientist III, Ph.D., Texas Tech University, 1998. Aurora Pun, Post-Doctoral Scientist, Ph.D., University of New Mexico, 1996. Michael N. Spilde, Research Scientist III, (Institute of Meteoritics), M.S., South Dakota School of Mines and Technology, 1987.

Huifang Xu, Research Scientist III, Ph.D., Johns Hopkins University, 1993.

ADJUNCT PROFESSORS:

Bruce Allen, University of New Mexico, 1993. Warren S. Baldridge, Ph.D., Caltech University, 1978. M. Susan Barger, Ph.D., Pennsylvania State University, 1982. John D. Bloch, Ph.D., The University of Calgary, 1989. Fraser E. Goff, Ph.D., University of California, Santa Cruz, 1977. Grant H. Heiken, Ph.D., University of California, Santa Barbara, 1972. Claudia Lewis, Ph.D., Harvard University, 1994. Spencer G. Lucas, Ph.D., Yale University, 1983. Sean McKenna, Ph.D., Colorado School of Mines, 1994. Duane M. Moore, Illinois State Geological Survey Matthew Nyman, Ph.D., Virginia Polytechnic Institute and State University, 1992. Donald Peterson, Ph.D., Stanford University, 1961. Aurora Pun, Ph.D., University of New Mexico, 1996. Walter C. Riese, Ph.D., University of New Mexico, 1980. John Shomaker, Ph.D., University of Birmingham (United Kingdom), 1995. Gregory Valentine, Ph.D., University of California, Santa Barbara, 1988. Erik Webb, Ph.D., University of Wisconsin, Madison, Thomas Williamson, Ph.D., University of New Mexico, 1993. Yifeng Wang, Ph.D., Indiana University, 1993, Kenneth Wohletz, Ph.D., Arizona State University, 1980.

STAFF:

Mary Bennett, Accounting Technician Mabel T. Chavez, Editorial Technician

Shannon Clark, Administrative Assistant III, Institute of Meteoritics Gilbert E. Griego, Harding Mine Maintenance Mechanic Sally E. Hayes, Accounting Technician Cindy Jaramillo, Administrative Assistant II Ying-Bing Jiang, Research Scientist Beth Lehman, Department Administrator Robert Macy, Research Engineer Matt Nyman, Natural Science Coordinator John Rogers, Natural Science, Instructor Florine Rietmeijer, Lab Assistant Yolanda Skotchdopole, Administrative Assistant I, Institute of Meteoritics Anthony Velardez, Facilities Service Technician

VISITING SCIENTISTS:

Manuel Aragon, CICESE, Mexico Ana-Voica Bojar, University of Graz, Austria. Gustav Bodner, University of Hawaii. Pat Castillo, Scripps University. Esteve Cardellach, Universitat Autonoma de Barcelona, Spain Jeanne Fair, Los Alamos National Laboratory. Todd C. Feeley, Montana State University. Jennifer Fimbres, University of Arizona. Henry Fricke, Colorado College. Roberto S. Molina-Garza, Universidad de Mexico. Max Gibbs, National Institute of Water and Atmospheric Research, New Zealand Steve Harlan, George Mason University. Jeff Heikoop, Los Alamos National Laboratory. David Hilton, Scripps University. Jeff Kelly, University of Oklahoma. Jose Ignacio Querejeta Mercader, University of California Riverside. Peter Luffi, University of Bucharest, Romania Tom Marshall, University of Victoria, Canada Dr. Joe McAuliffe, Desert Botancial Garden, Tempe, Arizona, David Moecher, University of Kentucky. Claudia Mora, The University of Tennessee. Jim O'Neil, USGS Menlo Park, California. Jose Ouereieta, Universityof California, Riverside, Barbara Vokal, Ljubljiana, Slovenia,

DEPARTMENTAL STANDING COMMITTEES, 2003-2004¹

GRADUATE COMMITTEE

<u>A. Brearley</u> <u>G. Meyer</u> C. Agee P. Fawcett K. Karlstrom M. Campana Z. Sharp

UNDERGRADUATE COMMITTEE

<u>G. Smith</u> L. Crossey S. Huestis J. Selverstone M. Elrick Y. Asmerom D. Gutzler

FACILITIES COMMITTEE

J.W. Geissman A. Brearley Z. Sharp C. Agee Y. Asmerom M. Ali

COMPUTER COMMITTEE

P. Fawcett D. Gutzler J. Connolly T. Fischer L. Scuderi M. Spilde T. Wawrzyniec (Graduate student computer TA)

GEOCHEMISTRY LABORATORY COMMITTEE

L. Crossey Z. Sharp Y. Asmerom M. Elrick J. Selverstone M. Ali

FACULTY PRODUCTIVITY ASSESSMENT

L.D. McFadden A. Brearley Y. Asmerom M. Roy Z. Sharp

COLLECTIONS COMMITTEE

<u>B. Kues</u> G. Smith

GRADUATE ADVISORS

G. Meyer

UNDERGRADUATE ADVISORS

- S. Huestis
- L, Crossey
- D. Gutzler (Environmental Science)

HONORS ADVISOR

L. Crossey

¹ Committee Chair underlined.

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LIBRARY LIAISON

B. Kues

VEHICLES

G. Meyer B, Lehman

A.Velardez

SAW ROOM

T, Fischer (Graduate student TA)

ALUMNI RELATIONS

L. McFadden B. Kues Z. Sharp L. Crossey J. Geissman

APPOINTMENTS AND SEPARATIONS

APPOINTMENTS TO FACULTY

Barbara Cohen, Research Assistant Professor, May 1, 2003

SEPARATIONS FROM FACULTY

None

APPOINTMENTS TO STAFF

Abdul-Mehdi S. Ali, Senior Research Scientist I, August 4, 2003 Mary Bennett, Accounting Technician, June 1, 2004 Shannon Clark, Administrative Assistant III, December 1, 2003

SEPARATIONS FROM STAFF

Sally E. Hayes, Accounting Technician, May 31, 2004 Yolanda Skotchdopole, Administrative Assistant I, Institute of Meteoritics, July 1, 2004 Sara Lentz, Administrative Assistant III, Institute of Meteoritics, September 30, 2003

II. ACTIVITIES, ACHIEVEMENTS, AND PLANS

INTRODUCTION

This annual report summarizes the activities, accomplishments and plans of the Department of Earth and Planetary Sciences (E&PS), including the Institute of Meteoritics (IOM), a Category II Institute in the College of Arts and Sciences closely affiliated with the Department, during the academic year 2003-2004. Most details of faculty activities (Part III), including faculty, staff, and student publications, however are derived from biographical supplements for 2003. Therefore, published papers, chapters and other documents included in the report, for example, are only for the calendar year 2003. As this is the only document that comprehensively summarizes the Department's history during the past year and it is used as a source of information by many people both within and outside of the University, we have endeavored to make it as complete as possible.

During academic year 2003-2004, the faculty of the Department of Earth and Planetary Sciences consisted of 20 regular tenured or tenure-track faculty, and 7 Senior Research Professors and/or Research Professors. In addition, 12 Ph.D.-level research scientists (4 within IOM and 1 M.S. level research staff member) filled a variety of non-faculty positions within the Department. Most of these persons are scientific staff with specific responsibilities relating to analytical laboratories and departmental research endeavors. The Departmental faculty is thus augmented by a significant number of other Earth and Planetary Scientists, with Ph.D., or Master's degrees, who in some cases participate in teaching and 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 Earth and Planetary Scientists affiliated with other institutions were in residence in the Department for periods ranging from weeks to the entire year, conducting research as visiting scientists and working with faculty and staff members. The names of all these departmental personnel are included in the first section of this report and in the Appendix.

FACULTY AND STAFF ACCOMPLISHMENTS

Position Changes in Faculty

No new tenure-stream faculty members joined the department between July 2003 and June 30, 2004. Dr. Barbara Cohen, however, joined the Department as a Research Assistant Professor. Also, the faculty decided to have Dr. Elizabeth Ritchie-Tyo join the Faculty as a Research Associate Professor, as of July 1, 2004.

Faculty and Research Staff Advancement and Selected Honors

- Dr. Mousumi Roy received a successful, mid-probationary review, and also served as Chair of the Geophysics Division of the Geological Society of America.
- Dr. Adrian Bearley was a New Mexico Regent's Lecturer in the College of Arts and Sciences.
- Dr. Dave Gutzler was a UNM Regents Lecturer.
- Dr. Karl Karlstrom was named a Co-Editor of the Geological Society of America Bulletin.
- Dr. Tobias Fischer was granted a Research Semester for the Spring Semester 2004, during which he spent several weeks conducting research with colleagues in a major Japanese University.
- Dr. Yemane Asmerom presented an invited presentation at the Goldschmidt Conference, held in Japan.
- Dr. Michael Campana served as the Interim Director of the International Rural Water Institute at UNM, heading the effort to establish the Institute on a global lender in the critical area of rural water issues.
- Dr. Laura Crossey was pointed to serve on the New Mexico State Science Standards Committee.
- Dr. Jane Selverstone was named a Fellow of the Geological Society of America.
- Dr. Zachary Sharp served as Chair of the Extenal Review Board, University of Utah Geology Department.

Instructional Activities

1. Student enrollments

Student enrollments in Department of Earth and Planetary Sciences courses during the 2003-2004 academic years, as indicated by total student credit hours (SCH), totaled 8785 for regular courses, and 10,161 counting Natural Sciences courses (see Table below). These figures represents the fifth straight increase in SCH associated with E&PS courses, and an overall increase of 2.1% with Natural Sciences courses (included, compared to the previous year. These figures include academic year courses plus our three summer courses (E&PS-319, 420, and 451) as well as, for the second year, student credit hours generated by courses that are part of the new Department degree program in Environmental Sciences (Env. Sc.). The Department's SCH figures for the past 7 years are given below.

Five consecutive years of increased SCH have resulted in an overall increase of 55.5% (for E&PS courses only) since academic year 1989-99. In addition, overall E&PS SCH productivity returned to levels last observed during the late 1980s and early 1990s.

Year	Year	SCH	SCH (with Natural	% change fro	m previous year
		Sciences)	regular	Inc. N.S.	
1997-98	5882	6534	-6.7	+ 3.7	
1998-99	5705	6777	-3.0	+3.7	
1999-00	6464	7580	+13.3	+11.8	
2000-01	6752	7812	+4.5	+3.1	
2001-02	7041	8181	+4.3	+4.7	
2002-03	8417	9953	+19.5	+21.7	
2003-04	8705	10,061	+4.4	+2.1	

As noted in last years report, the nearly decade-long decline in Department SCH production clearly ended in the 1998-99 academic year. In the past few annual reports, we have pointed out that these profound increases in enrollments have occurred not just because overall enrollments at UNM have increased, because the Departmental increase in SCH is much, much larger than the overall increases on both UNM and in Arts and Sciences over this time period. As pointed out, the increases probably reflect several changes to these courses (e.g., addition of new sections of popular classes. Clearly, the single most important factor, however, has been the huge success of Environmental Sciences 101 and Lab course, Env. Sc. 105L. This class, the introductory class in the Environmental Sciences B.S. degree program, along with two other Env. Sc. Courses (Env. Sc. 330 and 430) now account for an astonishing 20% of all SCH generated by the Department (over 25% of Natural Science Courses are not included). In fact, Environmental Science majors now (as of May, 2004) account for 44 of 160 majority of all students who have declared EPS as their major. As well be pointed out later, this success has not come without problem's despite these unusually large increases in SCH, which is of course associated with increases in the number of laboratory sections the Department must teach, there has been no increase in the number of Teaching Assistant lines in the Department, circumstances that have created real problems in being able to respond to the increase discussed for EPS courses.

2. Developments in Course Offerings

As always, the tenure-stream faculty continued to teach over 90% of the courses offered during academic year 2003-04. The handful of courses taught by "Part-time Instructors" are taught by researchers who have a strong affiliation with the Department, often through "Adjunct Professor" status, such as Dr. Aurora Pun, Dr. Thomas Williamson (Dinosaurs and their World); and Dr. Susan Barger (Ceramics and Earth Materials).

Dr. Yemane Asmerom offered EPS 203 (Earth Resources and Man) for the first time in several years, essentially as a new updated course that reflected considerable redevelopment. During the semester, 2003, Dr. Laura Crossey and Dr. Karl Karlstrom co-taught a new course, EPS 523 (Selected topics in Tectonics) that was designed as a teaching-training workshop for science teachers, including teachers from four nearby Pueblos. Dr. Les McFadden and

Dr. Louis Scuderi offered a special seminar Ens. 516 (Selected topics in Geomorphology) that focused on studies of landscapes at the Colorado Plateau.

The Department continued to assume responsibility for the Natural Sciences Program, which consists of a sequence of three courses integrating the natural sciences for College of Education students who will become K-9 teachers in New Mexico's public schools. 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 2003-2004 16 classes were offered producing over 1200 student credit hours, a significant contribution to the total SCH produced by the Department. The further integration of Natural Sciences Program and geoscience education into the Department continues to be an important goal for the Department and another important step was taken in 2003-04 towards achieving this goal when the Department learned in the Spring of 2004 that it would be able to add a new "Lecturer" position to be filled by the Coordinator of the Program. This individual will also teach Natural Science courses, and as needed, courses in the E&PS cirriculum.

3. Summer Course Offerings

During Summer 2003 the Department conducted its 3-week Beginning Field Geology course (E&PS-319). A course offered last semester, along with the Volcanology field class. The Department also offered E&PS 101, and E&PS 105. For the first time in several years, E&PS 420 (Advanced Field Geology) another key course to the E&PS Summer Field course, was not offered during the summer due to recent budget cuts. It is hoped that funding will return to levels needed to support this course in the Summer of 2005.

4. Curriculum Changes and Outcomes Assessment

There were no significant changes in curriculum in 2003-2004.

Outcomes assessment again was not conducted by the Department during the academic year, owing to a decision by higher-level administrators review and reconsider outcomes assessment at UNM.

Research and Publication

The faculty, research staff and students of the Department continued their high level of productivity in research in 2003. 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 2003, members of the Department and Institute of Meteoritics (including faculty, research scientists and students) produced over fifty publications, scholarly papers in refereed journals, edited volumes or geologic maps (see section III). A significant fraction of these publications are papers published in major national and international journals or edited volumes (see "Faculty Publications and Creative Works, 2003). Department and IOM scientists and students collectively also published well over 120 abstracts and extended notes published in Abstract Volumes and meeting programs. Although publications by Department Adjunct faculty are not formally included in this report, many of them are also quite active with respect, to publishing results of their research. Part 4 of Section III includes additional information concerning the research activities of a few other Adjunct faculty members.

As in past years, graduate students and several undergraduates participated significantly in the Department's publication effort (see section IV). Many refereed papers published in 2003 had student coauthors and students also contributed to many of the published abstracts based on presentations made at professional meetings; in many cases

students were the presenters. This shows the importance the faculty places on involving students in research and in presenting the results of their research through professional talks and publications, an important part of their preparation for careers in the geosciences.

E&PS and IOM have and continue to be very successful in acquiring substantial amounts of funding from a variety of agencies in support of it's research and teaching mission (see section III, part 3). Contracts and Grants to the Department of Earth and Planetary Sciences during the fiscal year 2003-2004 (new funds) totalled \$3,223.703, a substantial increase over the previous fiscal year, and the largest one-year totol in the Department, at least based on figures available. Also, research scientists and faculty in the Institute of Meteoritics were awarded well over one million dollars in funding associated with several grants, mostly associated with research supported by NASA.

Many other research grants and contracts received by UNM scientists in other Departments or Colleges require the presence of the E&PS TEM laboratory or other Department Laboratories to support research activities at UNM. As noted in last year's Annual Report, Dr. Louis Scuderi and a few other colleagues learned that NASA would provide its appropriation of nearly \$3.5 million to support development of facilities to support a new Center in the Department called "CREATE" (Center for Rapid Environmental Analysis and Terrain Evaluation). Significant progress has been made with respect to development of the Center; the seven meter satellite dish has been installed, computers and software installed and activiated. Dr. Yeamen Asmerom also learned that his NSF proposal to support and purchase a new, state-of-the-art multichannel ICP was accepted. His plans are to have the instrument in-house before the end of CY 2004.

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 2003 that were not externally funded or published upon during the year (see Section 3).

Other Scholarly Activities

As reported in previous Annual Reports, most of the faculty and research staff participated widely outside the University in various professional activities at the state, national and international levels. These include service on the committees and panels of governmental agencies, as well as participation in professional organizations, such as presenting talks and posters at national meetings, organizing and chairing symposia, leading field trips, and serving as officers. Such activities are a form of service to the profession, but also increase professional recognition, the opportunity for collaborative research, and leads to greater visibility for UNM and the work of its faculty. This participation is shown in sections III and IV.

Participation by the faculty and research staff as Editors, Associate Editors, and on Editorial Boards of national and international journals was substantial in 2003 as it has been in the past. Also, several faculty participated in scholarly and professional activities in numerous foreign countries. Such activities help to advance UNM's reputation nationally and worldwide.

University and Public Service

Service to the College, University and to the public is an important component of the Department's activities. E&PS Faculty members are heavily involved in different areas of service to the College, University and Community. A few selected examples of this service include: (1) Active participation in Amnesty International (Asmerom); (2) Development of the Ana Campana Judge Foundation, a charitable foundation dedicated to undertaking and funding philanthropic projects in development countries that focus on water, health, Sanitatum and student involvement (Campana); (3) Several contributions to Albuquerque Journal articles that concern important New Mexico weather issues (Gutzler); (4) Help in construction of a geologic wall display at the UNM Gallup Campus (Meyer); (5) Judge in Junior Earth Science Division, NW New Mexico Regional Science Fair (Selverstone); (6) Guest appearance on the KUNM "University Showcase" program, addressing Global Warming (Sharp).

In 2003, many E&PS faculty and research scientists were featured in newspaper articles and radio and television reports on a variety of topics.

An important resource provided by the Department to the University and the public is maintenance (without direct University support) of two public museums, one devoted to geology (rocks, minerals, fossils, New Mexico geology) and the other to meteorites. These museums are open each weekday, are free, and are visited by thousands of school children and adults each year. A free pamphlet provides information for a self-guided tour, and faculty and graduate students on occasion lead tours when arrangements have been made in advance. Thousands of recorded (group) visitors toured the Geology Museum in 2003; as many or more unrecorded (individual) visitors also visit the museum. These visitors include dozens of elementary, middle, and high school classes from around New Mexico, together with teachers and parents (see Appendix for a complete list). The Geology Museum and collections constantly receive donations of new materials, and donated funds are used to purchase several display-quality specimens each year. The Geology Museum was again represented by G. Smith at the Annual Tucson Gem and Mineral Show, the nation's largest, in March of 2003.

Another important form of service the Department provides to the University is through assistance lent to the Center for the Southwest and the Institute for Medieval Studies. Research and other activities concluded in them contribute in many important ways to the dissemination, publicizing and understanding of Earth, environmental and planetary sciences, both within the University community and the public.

The Department also maintains the Harding Pegmatite mine in southern Taos County, donated to UNM by Dr. Arthur Montgomery, as an unusual mineral-collecting locality and outdoor geological laboratory. Mr. Gilbert Griego, a Department staff member, is the long-time caretaker of the property. Over 1000 people visited the Harding property in 2003, and they came from all over the country (see Appendix). Among the visitors were mineralogy and field geology classes from several other universities, in addition to students from UNM. Clearly, the Harding mine is very well known to geologists and amateur rock hounds and mineral collectors, and in maintaining and operating it, the University and Department perform a notable service for the public. The Department welcomes visitors and voluntary contributions to help maintain this resources, but permission from the E&PS Chair must be obtained before each visit.

GENERAL DEPARTMENTAL ACTIVITIES

Facilities

1. Capital Improvements

As usual, there were no major or minor capital improvements to Northrop Hall this past year, although some are still clearly needed. We are pleased to see, however, the construction of a new "Chemistry-E&PS" building as a high college and university priority and that a formal request has been made to the legislature for allocation of funds to support preliminary plans for planning and design of such a facility. This has been the Department's primary major capital important request for many years, and it will remain so. Using Departmental funds, substantial modifications were made to the Department Administrator's office that represent a significant improvement in space use. Efficiency is critical, with new instruments and anticipated new faculty positions, office, laboratory and classroom space in Northrop Hall are now very limited. Substantial future growth of the Department and IOM would not be possible unless new building space beyond Northrop Hall is made available, illustrating the significance of the new E&PS/Chemistry Building initiative.

In 2003-04, no requests for new equipment and minor capital improvements were submitted, presumably because no funds were then available to support them.

We continue to upgrade the Department's facilities with available funds. In 2003-04, the faculty voted to utilize 2003-04 college "Educational Equipment Allocation funds to purchase a new computer equipment and a saw blade.

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). Sustaining the operation and maintenance of the Department's analytical laboratories (mainly from grants and user feez) 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; however, the recent addition of salary support for a research scientist in one of these laboratories is very helpful.

In 2003-2004, the Department used its IDC return funds to help support successful cost-share proposals to acquire a new multicollector ICP in the Radiogenic Isotope Laboratory. During the summer of 2004, two new NSF proposals involving Department cost share commitments were submitted to support the acquisition of a "LIDAR" system used to acquire and analyze three-dimensconator imagery, and a new ICP-OES for the Department's Geochemistry Laboratory.

3. Computing Facilities

During 2003-04, the Department used over \$10,000 to continue to maintain, whenever possible, upgrade the computer facilities in Northrop Hall. Products range from funds used to renew software licences critical for both research and education (e.g., ARC-GIS) installation of additional network ports; install "firewalls" increasingly necessary to prevent "hackers" from breaking into the "Department's high-end computer systems, and an installation of a new network server.

4. Teaching Facilities

The main changes and modifications made to the Department's classrooms this year include purchases of new chairs for Northrop 105, an important classroom used for petrology classes.

Recruiting Visits

The Department was not visited by any companies or other representatives this year.

Professional Lectures given in the Department during the 2003-2004 academic year are listed below:

<u>Date</u>	<u>Speaker</u>	Title of Presentation
8/29/03	Leslie D. McFadden	Chair, E&PS, UNM, Introduction of New and Old Graduate Students, Faculty and Staff.
9/05/03	Zachary Sharp	University of New Mexico, Earth and Planetary Sciences. "Serpentinite as a Carrier of Chlorine into the Mantle."
9/12/03	Deirdre Kann	National Weather Service, Albuquerque. "Climate Variability in New Mexico during the 20 th Century."
9/19/03	Rama Murthy	University of Minnesota. "Heresy and Experiment: Potassium Radioactivity in Earth's Core".
9/26/03	James Bartolino	United States Geological Survey, Albuquerque. The Middle Rio Grande Basin Study: Interdisciplinary Highlights and Summary,"
10/03/03	Tim Wawrzyniec	University of New Mexico, Earth and Planetary Sciences. "The Cenozoic Structural Framework of the Laguna-Madre-Tuxpan Shelf with Implications for the Interplay of Sedimentation and Intrabasinal Tectonics."
10/10/03	Anthony Lowry	University of Colorado, Boulder. "Silent Slip and the Earthquake Cycle on Maior Faults."
10/17/03		FALL BREAK

10/24/03	Rick Carlson	Carnegie Institute, Washington, D.C. "The Role of Mantle Lithosphere in Continent Formation and Evolution."
10/31/03		GSA MEETING – No Colloquium
11/11/03		GSA MEETING - No Colloquium
11/14/03	Pete DeCelles	University of Arizona. "Foreland Basin Evolution and Crustal Thickening in Central Andes, Bolivia."
11/21/03	Peter Koons	University of Maine. "Influence of Surficial Processes on Lithosphere Dynamics."
11/28/03		THANKSGIVING – No Colloquium
12/05/03	Bruce Huckell	Anthropology, University of New Mexico. "Maize Agriculture and Late Holocene Stream Behavior: Dynamics of Human Subsistence Adaptations in the Southwestern United States."
12/12/03		AGU MEETING – No Colloquium
1/30/04	Barbara Bekins	United States Geological Survey. "Hydrogeology and the Weak Nature of Plate Boundary Faults."
2/06/04	Frank Pazzaglia	LeHigh University. "Shortening, Extension, and the Emergence of Topography, Apennines, Northern Italy."
2/13/04	Kim Cobb	California State Polytechnic University. "El Niño/Southern Oscillation and Tropical Pacific Climate during the Last Millennium."
2/20/04	Marc Hirschmann	University of Minnesota. "A Petrological Perspective on Cycling of Crust and Volatiles in the Mantle."
2/26/04	David Bercovici	Vale University, Caswell Silver Distingished Lecturer. "Mantle Convection, Mantle Geochemistry and the Transition-Zone Water- Filter Hypothesis."
2/27/04	David Bercovici	Yale University, Special Lecture. "Mantle Dynamics and the Generation of Plate Tectonics."
3/05/04	Christopher Andronicos	University of Texas El Paso. "Crustal Deformation in the India-Asia Collision Constrained by Earthquakes."
3/12/04	Gerard Bond	Columbia University. "Abrupt Climate Changes during our Present Interglacia (Holocene) Climate: Were they Triggered by Changes in Solar Irradiance."
3/19/04		SPRING BREAK
3/26/04	Jim Brown	Earth and Planetary Sciences, University of New Mexico. "The Scale
5/20/01	Jun promi	of Life: Toward a Metabolic Theory of Ecology."
4/02/04	Les McFadden	Earth and Planetary Sciences, University of New Mexico. "Solar Weathering and Desert Pavements."
4/09/04	Todd Ehlers	University of Michigan. "Glacial Erosion and Paleotopography in the Coast Mountains British Columbia."
4/09/04	Josep Maria	University of California. "Meteor Spectroscopy and CCD Fireball
	Trigo-Rodriquez	Networks: What they can say to us about Meteoroids and their Parent Bodies?
4/16/04		NMGS MEETING – No Colloquium
4/23/04	Giday WoldeGabriel	Los Alamos National Labs. "Volcanic and Tectonic Processes and the Paleoanthropological Record in the Ethiopian Rift System".
4/30/04	Barbara Cohen	University of New Mexico, Earth and Planetary Sciences. "In Search of Space Rocks in Antarctica."
5/07/04	Undergraduates	Caswell Silver Undergraduate Research Symposium. Presentations of Completed Research Projects.
	Laura Crossey	Introduction, University of New Mexico, Earth and Planetary Sciences.
	Marissa Reno	"Experimental and Numerical Studies on Colloid Transport and Filtration through Simulated Fractures using a Parallel Plate Flow Cell." Advisor: Dr. Laura Crossey.
	Linnah Neidel	"Oxygen Isotopes of Middle Pennsylvanian Apatitic Conodonts as a Potential Record of Pennsylvanian Glacial Ice Volume Variations." Advisor: Dr. Maya Elrick.

Melissa Nelson	"Impact-Produced Hydrothermal Alteration may be a Component in the Mars Soil." Advisor: Dr. Horton Newsom.
Michelle Leister	"Oxygen Isotopes and Upward-Shallowing Carbonate Sequences of the Eocene Guara Formation, North-Central Spain." Advisor: Dr. Maya Elrick.
Caroline Myer	"Petrographic Analysis of Cuttings from the Yates #2 La Mesa Well and Implications for the Tectonic History of the Southern Expañola Basin." Advisor: Dr. Gary Smith.
Chloe Peterson	"Gravity Models of the Albuquerque Basin, Jornada del Muerto Basin, and Tularosa Basin in the Rio Grande Rift." Advisor: Dr. Mousumi Roy. Research Progress Reports
Sara Caldwell	"Diversity and Spatial Heterogeneity of Prokaryotes Responsible for Biogeochemical and Mineral Cycling of the Middle Rio Grande Aquifer, New Mexico: Searching for Functional Genes in Groundwater Based on 16S rDNA Analysis." Advisor: Dr. Laura Crossey.
Erik Jung	"Partial Melting and Assimilation of Granitic Xenoliths, Puerco Necks, New Mexico." Advisor: Dr. Jane Selverstone.
Matt Dillon	"Neotectonics along the Jemez Lineament: Is Doming Recorded by River Profiles?" Advisor: Dr. Karl Karlstrom.
Daniel Dehn	"Implications of Near-Absent Arc Volcanic Component of Upper Cretaceous Foreland Basin Turbidites, Southern Mexico." Advisor: Dr. Maya Elrick.
Nik Rael	"Phylogenetic and Geochemical Comparison of High-Temperature Thermal Systems." Advisor: Dr. Laura Crossey. Structural Geology Class Presentation – Structural Evolution of New Mexico. Advanced Environmental Sciences Class Presentation – Bosque Hydrogeology.

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ALUMNI PROGRAMS AND SUPPORT

As noted in the past Department Annual Reports, the Department is very fortunate in being supported by a large group of active and enthusiastic alumni. Individually and collectively these graduates provide generous financial, advisory and moral support for many departmental activities, which contribute significantly to our success in our educational and research missions. In addition, their support provides the funds associated with 20 scholarships, funds and endowments that financial support that enable the Department to support over forthy undergraduate and graduates each year. Financial aid ranges from a few hundred dollars to three-year fellowships. The endowments in the UNM Foundation associated with the Department account for over a quarter of all endowments in the College of Arts and Sciences.

Caswell Silver Foundation

First among sources of alumni support is the Caswell Silver Foundation. Funds generated by the investments of the Foundation in 2003 provided full-time support for the Leon Silver/Vincent Kelley graduate student Fellow Mel Strong and subsidized most of the travel of faculty members to professional meetings. The Foundation also supports periodically an endowed faculty chair, the Caswell Silver Research Professor. In the spring of 2004, the faculty, based on recommendations by the Graduate Committee, selected Dan Breecker. Mr. Breecker's selection was also significant in that he represents the first student already in residence at UNM in the Departments M.S. Program selected to be a Kelley-Silver Fellow in the Ph.D. Program. Dr. Breecker was one of six highly competitive, well regarded finalists interviewed for this prestigious fellowship. Fortunately four of the finalists were sufficiently impressed with the Department during their interviews that, with offers of teaching assistantships, along with other support made possible by the Department's Graduate Alumni fund, they elected to accept offers to the Departments Graduate Program. The faculty feels that, owing to the existence of these

fellowships and scholarships funds made possible by the Foundation (and many other funds) that the Department has been able to attract a group of the most highly qualified, academically strong graduate students who have selected Earth and Planetary Sciences as their academic specialty.

The Caswell Silver Foundation also supports the Caswell Silver Distinguished Lecturer series, which allows the Department to bring one or two National Academy of Sciences Members for lectures and visits with faculty and students. Visits of Distinguished Lecturers are welcomed by the Department both for the opportunities they provide us to interact with some of the most distinguished and influential scientists in the country, and to inform them about our department and the research and other academic activities we are pursuing. Last year, as noted previously, the Department extended an invitation to Dr. David Berkovici, a highly acclaimed geoscientist, also from Yale University.

As in previous years, the Silver Foundation made possible two \$800 Meritorious Staff Awards, presented to two outstanding non-academic staff members. These awards allow the faculty to express in a tangible way its deep appreciation for the efforts of the staff in contributing to the effective operation, advancement and well being of the Department. Recipients of these awards, presented at the Department's May 2004, Commencement Ceremonies, were respectively, Beth Lehman (Department Administrator) and Mehdi Ali (Senior Research Scientist).

Another very important function supported by the Foundation is the Caswell Silver Undergraduate Research Symposium, now held during late Spring. The most recent, Third Annual Symposium was well attended, attracting the participation of many undergraduate majors conducting research ranging from the origins of Martian soils to the relative influences of eustacy and tectonics on sealevel change, as indicated by studies of limestone in New Mexico.

Alumni Support

Generous donations and contributions from alumni, faculty and friends of the Department support almost 20 different scholarship and fellowships, mostly managed by the UNM Foundation. 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. The Department recently learned that funds in the UNM Foundation that supports E&PS students accounts for over 25% of all such funds in the entire College. A full summary of scholarships and fellowships received by Earth and Planetary Sciences students is presented in Part IV of this report. Many tens of thousands of dollars are provided through funds such as Alumni Fellowship, Kelley, Miossec, Wanek, Rhodes, Vann and Wengerd Scholarships.

Funds from our alumni have a profound effect on the ability of the Department to carry on its research and teaching mission, and the faculty, staff and students are grateful for the continued generosity of department alumni. The third department newsletter, called "News from Northrop Hall", was mailed out in the Spring of 2004. This newsletter continued, in addition to news concerning faculty, staff, and student achievements in 2003, extensive coverage of the achievements of many Department Alumni. Of special note was an article highlighting the recent election of Pat Gratton to the prestigious position of President of the AAPG, an honor that follows a long and highly successful career in petroleum geology. Pat also has served with great distinction on the Board of the Caswell Silver Foundation. The Departments Alumni Newsletter has received many compliments from alumnus and UNM administrators. Dr. Barry Kues serves as Chief Editor of this important Department production.

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.

The Graduate Unit Review

This review was described in last year's Annual Report, in which the highly favorable nature of the review was discussed, including key excerpts from the Department's Self Study, the External Review Team's Report, and the Response of the Department to the Review Team's Report. During the 2003-04 academic year, the Chair, accompanied by numerous members of the faculty, met with key UNM administrators to discuss the overall outcome of this review. These administrators included. Dr. David Henkel, Chair of the Senate Graduate Committee

and E&PS Graduate Unit Review group; Dean Reed Dasenbrock, Dean of the College of Arts and Sciences; Dr. Brian Foster, Provost for Academic Affairs, Dr. Nancy Uscher, Associate Provost for Academic Affairs; Dr. Terry Yates, Associate Provost for Research; Dr. Terrecita Aguilar, Dean of Graduate Studies, Lee Couch, representing the Senate Undergraduate Committee and Melissa Hillary, Senate Graduate Committee. As articulated by Dr. Henkel for this group, the Department was congratulated for developing a strong Self Study and Response, as well as for the continued improvement in its overall academic standing. The group also noted the report unit's continuing need for funds to support its computational facilities and summer field program as well as the increasing critical need for additional new space to accommodate growth of the Department. It was also noted that with recent large growth of the Departments course enrollments that eventually additional teaching assistant lines would be absolutely essential.

In future years, responsibility for these program reviews at UNM will be transferred from the Office of Graduate Studies to the Office of the Provost. In addition, the reviews will include both graduate and undergraduate programs, and this will be referred to formally as "Academic Program Reviews". Because the Department chose to voluntarily include detailed overview and discussion of its undergraduate program (instruction and research) in the Self Study, Dr. Henkel observed that the E&PS Self Study would likely prove to be highly useful as a good example of future Department Self Studies and Program Reviews.

PLANS AND GOALS

As described in the previous section, the final document resulting from the Graduate Unit Overview of the Department was the Department's Response to the External Review Team's Report. This document, prepared by the Chairman, with extensive input from faculty, includes specific sections that discuss key plans, goals and the resources and proposed strategies necessary to successfully achieve these goals. Therefore, it is included as an Appendix in this Annual Report (Appendix II). It is important, however, to point out here that during the letter part of academic year 2003-04, the faculty learned that the Department would be able to search for a faculty member in the area of hydrology. This represents the successful culmination of a plan developed in close consultation with the Dean of the College of Arts and Sciences to continue the process of building in this increasingly important area, a process greatly aided by the large bequest from the Albert and Mary Black family that established the Department's endowed Chair in this field. In addition, the Department also learned that it would receive its first "Lecturer" position (a non tenure-stream faculty position), a direct result of a proposal submitted to the College by the Department that presented a plan for utilizing this position as a means of dramatically strengthening the Natural Science Program. Given the now healthy funding base for this program described in last years ago to establish a truly strong well supported Natural Science Program.

III. ACTIVITIES OF THE FACULTY AND RESEARCH SCIENTISTS (Calendar Year 2003)

- Activities of Full, Associate and Assistant Professors
- Activities of Research Professors
- Activities of Senior Research Scientists and Staff

1. TEACHING ACCOMPLISHMENTS OF FACULTY AND RESEARCH STAFF

Carl Agee, Professor and Director, Institute of Meteoritics

Courses taught

Fall:	E&PS 365 – Exploring the Solar System (22 enrolled)
Spring:	E&PS 465/565 – Mars Evolution (24 enrolled)

Student Committees

Daniel Breeker Andrew DuFrane Jennifer Edmunson Melissa Fittipaldo Johny Chaklader Rachel Dwarzski Justin Hagerty

Yemane Asmerom, Associate Professor

Courses taught	
Spring	E&PS 203 – Developed and taught; Earth Resources and Man (12 enrolled)
Summer	E&PS 400 ICP Topics in E&PS (1 enrolled)
Fall	E&PS 101 – Physical Geology (129 enrolled) E&PS 534 – Radiogenic Isotopes (6 enrolled) E&PS 401/501 – Colloquium (10 enrolled)

Lab training and consulting UNM:

Andy DuFrane Jessica Rasmussen Victor Polyak Larse Borg Rhawn Denniston and Student (Cornell College, Iowa) Michelle Dupree (Cornell Undergrad) Jennifer Edmunson Kate Jones (NM Tech)

Graduate students supervised:

Andy DuFrane (Ph.D) Jessica Rasmussen (Ph.D.) Brian Bierman (M.S.) - Defended and passed exam with distinction. Beth Nichols (M.S.)

Graduate student committee:

Dennis Newell (Ph.D.) Angela McLain, (Ph.D.) Jennifer Edmunson, (Ph.D) Lynne Elkins (M.S.) Johny Chaklader (M.S.)

Adrian Brearley, Associate Professor

Courses taught	
Spring:	E&PS 101 "Introduction to Physical Geology," 3 credits (63 enrolled) E&PS 552 "Problems" 3 credits (1 enrolled) E&PS 599 "Masters Thesis" 6 credits (2 enrolled) E&PS 699 "Dissertation" 3 credits (1 enrolled)
Fall:	 E&PS 301 "Mineralogy" 3 credits (40 enrolled) E&PS 302L "Mineralogy Lab" 2 credits (34 enrolled) E&PS 518L "Electron Microprobe Analysis" 3 credits (10 enrolled) (co-taught with Mike Spilde) E&PS 551 "Problems" 6 credits (2 enrolled) E&PS 599 "Masters Thesis" 9 credits (2 enrolled) E&PS 699 "Dissertation" 3 credits (1 enrolled)

Advisement and Thesis Committees

Served as Advisor and M.S committee Chair for Neyda Abreu, Paul Burger and Heather Hibbert and Ph.D. thesis advisor for Lysa Chizmadia, Chris Wetteland and Neyda Abreu (after she entered Ph.D. Program, Fall 2003).

M.S. Thesis Committee member for Melissa Fittipaldo, Melissa Pfeffer, Brian Bierman, Courtney Porreca, George Perkins and Caitlin Callahan. Ph.D. Thesis Committee member for Kurt Steffen, Toti Larsen, David Vaughan (Anthropology), Jim Karner, Justin Haggerty, Jaimie Barnes, Jennifer Edmunson, and Jana Berlin and Becky Strictland (Chemistry).

M.S. thesis Examination member for Jonathon McCarthy.

Michael E. Campana, Professor

Courses taught	
Summer:	WR 573 Water Resources III – Field Problems, Conducted in Honduras (11 enrolled)
Fall:	E&PS 476/576 (AOA WR 576) Physical Hydrology (24 enrolled) EnviSC 330 Environmental Systems (31 enrolled) WR 571 Water Resources I – Contemporary Issues (21 enrolled) (w/ M. Minnis, O.P. Matthews, D. Brookshire)

Students Advised

Bart Faulkner, Ph.D. Katherine Klise, M.S.

Students Graduated

Stephanie J. Moore, 2003 Streamflow, infiltration, and recharge in the Arroyo Hondo watershed, North-Central New Mexico (MS, E&PS)

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Any Ewing, 2003 Water quality and Public health monitoring of surface waters in the Kura-Araks river basin of Armenia, Azerbaijan and Georgia. (Master of Water Resources)

Lynn M. Paretchan, 2003 Water resource Management strategies: Deschutes basin, Oregon. (Master of Water Resources)

Jessica Bentley, 2003 Constructed surface flow wetlands for oil refinery wastewater treatment in New Mexico (Master of Water Resources)

Michael Gabora, 2003 A 18O calibrated compartmental mixing cell model of groundwater flow in the Roswell Basin, southeaster New Mexico (Master of Water Resources)

Eric T. Riebsomer, 2003 Chemistry variation during purging of alluvial wells at Los Alamos National Laboratory (Master of Water Resources)

Laura J. Crossey, Professor

Spring:	Env Sc 430 – Advanced Environmental Systems (12 enrolled) E&PS 493 – Independent Study (2 enrolled) E&PS 492 – Problems (2 enrolled) E&PS 552 Problems – (1 enrolled) E&PS 599 Masters Thesis – (1 enrolled)
Summer:	E&PS 319L – Field Camp (24 enrolled) team-taught w/ J. Geissman, G. Meyer.
	E&PS 420L – Advanced Field (11 enrolled)team-taught w/ K. Karlstrom E&PS 5xx – Topics in Tectonics* (30 enrolled) team-taught w/K. Karlstrom
Fall:	E&PS 558 – Geomicrobiology (25 enrolled) w/Cliff Dahm (biology); televised live with IGERT to U.Alabama E&PS 101 – Intro to Geology (130 enrolled) E&PS 491 – Problems (1 enrolled) E&PS 551 – Problems (1 enrolled) E&PS 495 – Senior Thesis (1 enrolled)

* A teacher training workshop. Participants were science teachers from across the US, including representatives from Albuquerque and the nearby Peublos (4 registered for graduate credit). It was funded in part by LPI/NASA.

Horton Newsom (IOM) and Allen Trieman (LPI) organized it. We conducted the "cross the Plateau" tour and Grand Canyon exercises. It resulted in an AGU abstract (Trieman et al., 2003).

PhD Committees

Dennis Newell (Chair) Ondrea Hummell (Biology) Neyda Abreau John Ennis Angela McLain Justin Hagerty Sean Connell Bart Faulkner Deb Bryan Mike Timmons Ivan Thorsos Maceo Martinet (Biology) 313

MS Committees

Nicole Bailey Shirley Libed Ben Burnett Sally Johnson Paul Burger Elizabeth Nichols Lysa Chizmadia Stephanie Moore (2003) Neyda Abreau (2003) Lea Anne Scott Heather Parmenter (biology) Cynthia Scism (Chem. Engineering)

Undergraduate Sr. Thesis Committee/Research Supervision

Helenes Henderson Nicolas Rael Suzette Castillo Cougar Burke Blake Eldridge Michelle Leister Tim Lite Cassandra Brown

Student Grant Support Graduate

Dennis Newell (full/IGERT-F03 + RA-sm03)

Undergraduate

Cougar Burke Nicolas Rael Michelle Leister Cassandra Brown Tiffany Shaw Blake Eldridge Tim Lite

Wolfgang E. Elston, Professor Emeritus

Participated in UNM German Summer School, Taos Ski Valley, July 13-15, 2004. Led excursion to the Harding Mine.

Maya Elrick, Associate Professor

Courses taught

Spring:	E&PS 210 – Earth History (40 enrolled) E&PS 225 – Oceanography (20 enrolled)
Fall:	E&PS 304 - Sedimentology Stratigraphy (12 enrolled)

Thesis Advisor:

LeaAnne Scott, M.S.

Thesis Committees:

Kate Zeigler, Ph.D. John Rissetto, Ph.D. (Anthropology) Diana Latta, Ph.D. (Lehigh University)

Senior Thesis Advisement:

Leo Habib (graduated) Linnah Niedel Michael Leister Daniel Dehn

Supervised 1 undergraduate student:

Cherly Townsend

Peter J. Fawcett, Assistant Professor

Courses taught:

Spring:

Fall:

E&PS 457L/ Mathematical modeling in the geosciences (4 enrolled) E&PS 557L Mathematical modeling in the geosciences (7 enrolled) E&PS 599 Thesis Research (2 enrolled)

Env Sci 101 The Blue Planet (107 enrolled)

E&PS 439 Paleoclimatology (21 enrolled) E&PS 599 Thesis Research (2 enrolled)

Graduate Students Supervised:

Anne Tillery (M.S., defended May 2003, Graduated Summer 2003) Dale Henderson (M.S.) Jeff Parker (M.S.) Daniel Comarazamy (Ph.D., supported with NSF funding ¼ time & NM AGEP left program in Spring 2003)

Graduate Thesis Committees:

- M.S.: Mary Greene, Lyman Persico
- Ph.D.: Missy Eppes, John Ennis, Jennifer Pierce, Richard Woodford, Mel Strong, Kate Zeigler, Judith van der Elst (Anthropology)

Tobias Fischer, Assistant Professor

Courses taught

Spring:	E&PS 101 – Intro Geology E&PS 252 – Volcanoes E&PS 552 – Problems E&PS 599 – Thesis 3 (4 enrolled)
Fall:	E&PS 450L/550L – Volcanology E&PS 551 – Problems (1 enrolled) E&PS 599 – Thesis (2 enrolled)

Spring:

E&PS 599 - Thesis (2 enrolled)

Graduate Students supervised:

Melissa Pfeffer, M.S. Laura Clor, M.S. Lynne Elkins M.S. Bethany Burnett, M.S. J. Maarten DeMoor, M.S.

Graduate Committee:

Brian Bierman, MS Mike Petronis, MS Heather Hibber, M.S. Andy DuFrane, M.S.

Exam Committee:

Jennifer Edmundson, Ph.D.

John W. Geissman, Professor

Courses taught

E&PS 310 - New Mexico Field Geology (26 enrolled) Spring: E&PS 490 - Presentations (11 enrolled) E&PS 401/501 - Department Colloquium E&PS 319L -- Introductory Field Geology (20 enrolled) Summer: E&PS 490 – Geologic Presentations (7 enrolled) Fall: E&PS 508 - Paleomagnetism and Applications (9 enrolled)

Graduate students supervised:

James Ashby, M.S. Scott Muggleton, M.S. Caitlin Callahan, M.S. (co-advised) Mike Petronis, Ph.D. Kate Ziegler, Ph.D.

Linda Donohoo, Ph.D. Jenn Boyd, Ph.D., Anthropology (co-advised)

Exam committees

Kate Zeigler, Ph.D. Bethany Burnett, M.S. Jonathan MacCarthy, M.S.

Graduate Students financially supported:

Mike Petronis Linda Donohoo James Ashby

Course Development

Continued to organize a non-credit weekly "seminar" meeting for the users of the paleomagnetism laboratory, focusing on laboratory improvements, current research by users of the laboratory, and controversial research topics in paleomagnetism. Continued to modify/improve undergraduate field geology course (E&PS319L).

"Guest" lecturer in E&PS 101 sections, E&PS 523.

Undergraduate Research Advising

Jeff Roberts

Graduate Theses Completed /Reader

Sunny Baer, M.S. Mike Timmons, Ph.D.

David Gutzler, Professor

Courses taught

Spring:	Sabbatical Leave
Fall:	E&PS 436/536 – Climate Dynamics (19 enrolled)
	E&PS 110 – Guest lecture on Global Warming

Supervision of Graduate Students:

M. Strong (Ph.D.; entered program 8/03) R. Woodford (Ph.D.; withdrew from program 12/03) K. Jones (M. Water Resources)

Supervision of undergraduates:

D. Piech* (data analysis, summer/fall) (fiancial support from my grant)

Other graduate thesis committees:

D. Henderson, T. Gere (E&PS), M.S. D. Comarazamy (E&PS; withdrew from program 5/03), Ph.D.

Stephen P. Huestis, Associate Professor

Courses taught

Spring:	E&PS 101 – Intro. To Geology (40 enrolled) E&PS 115 – Geological Disasters (15 enrolled) E&PS 110 – Earth's Magnetic Field (48 enrolled)
Summer:	E&PS 101 - Intro. To Geology (51 enrolled)
Fall:	E&PS 101 – Intro. To Geology (50 enrolled) E&PS 433/533 – Statistics and Data Analysis in Earth Sci. (7 enrolled)

Thesis committees:

Dale Henderson, M.S. Jessica Rasmussen, Ph.D.

Karl E. Karlstrom, Professor

Teaching

My teaching load in 2003 consisted of 5 courses: one regular course per semester, a problems course, and the advanced summer field course. In addition, I co-taught a course with Laura Crossey and Horton Newsom entitled "The Great Desert" – a NASA-funded teacher training workshop in summer of 2003.

Spring:	E&PS 307L – Structural Geology (9 enrolled) E&PS 599 – Masters Thesis (2 enrolled) E&PS 699 – Dissertation (1 enrolled)
Summer:	E&PS 420L – Advanced Summer Field Geology, (co-taught w/L. Crossey): 520 (3 enrolled) and 420 (8 enrolled) E&PS 523 – Topics in Tectonics (co-taught w/L. Crossey)- Great Desert Workshop (4 enrolled)
Fall:	E&PS 310 – New Mexico Field Geology (23 enrolled) E&PS 552 – Advanced Field Mapping (3 enrolled) E&PS 599 – Masters Thesis (1 enrolled) E&PS 699 – Dissertation (1 enrolled)

New courses taught:

Our teacher training workshop involved a select group of science teachers from across the U.S., including representatives from Albuquerque and the nearby Pueblos. It had an enrollment of about 30 teachers (a busload), of which 4 signed up for UNM graduate credit. It was funded in part by JPL, through NASA funding. Thanks to Horton Newsom and Allen Trieman for organizing it. Laura Crossey and I conducted the "cross the Plateau" tour and Grand Canyon exercises. It

resulted in an AGU abstract (Trieman et al., 2003). This was an interesting and successful attempt at training science teachers.

Students supervised:

In 2003, my research group consisted of 1 Ph.D., 2 M.S., and 4 undergraduate researchers.

Ph.D., Mike Timmons - NSF funding \$3,750; TA funding \$9,030

M.S., Micah Jessup – NSF funding \$7,900, TA funding \$6,021 M.S., Sunny Baer – State map funding- \$11,200, NSF funding – \$2000

B.S., students supported with part time work: Brandon Dixon, Paul Carter, Ted Cleveland, Matt Dillon, Kim Samuels.

M.S. Theses completed or in progress in 2003:

Micah Jessup, defended in Spring, 2003: A tectonic history of the Proterozoic rocks in the Black Canyon of the Gunnison, Colorado. Sunny Baer, expected to defend in Spring, 2004: Tectonic evolution of the Manzano thrust belt,

central New Mexico.

Ph.D. Dissertations worked on in 2003:

Mike Timmons, expected Fall 2004, Mesoproterozoic tectonic evolution of southwestern North America: protracted intracratonic deformation, sedimentation, and differential exhumation in Grand Canyon and the Rocky Mountain region.

Member on thesis committees:

James Ashby, Dennis Newell,

Member on exam committees:

Rachel Dwarski, Sally Johnson, Kurt Steffan

Barry S. Kues, Professor

Courses taught

Spring:	E&PS 101 – Intro. to Geology (161 enrolled) E&PS 599 – Masters Thesis (1 enrolled)
Fall:	E&PS 250 – Geology of New Mexico (24 enrolled) E&PS 551 – Problems (1 enrolled) E&PS 599 – Masters Thesis (1 enrolled)

Graduate students: Coadvised (with Dr. S. G. Lucas):

Sally Johnson, M.S. Shirley Libed, M.S.

Graduate student exam committees:

Jeff Parker, M.S.

<u>Guest lecturer</u> in Y. Asmerome's EPS-101 course, Sept. 9, two-hour lecture on Fossils of New Mexico, to Paula Watt's EPS-250 class, UNM-Gallup Branch, Dec. 3, 2003.

Grant A. Meyer, Assistant Professor

Courses taught

Spring:

Fall:

EnvSc 101 – The Blue Planet (49 enrolled)

E&PS 481/581L – Geomorphology and Surficial Geology and Lab (18 enrolled)

Summer:

E&PS 319 - Introductory Field Geology (18 enrolled)

Theses Advised

Current Advisees:

Jennifer Pierce, Ph.D. Richard Ortiz, M.S. Benjamin Burnett, M.S. Chris Hepler, M.S. Lyman Persico, M.S.

Co-advising:

Carolyn Domrose, M.S., with Les McFadden

Committee membership:

Debra Bryan, Ph.D. Sean Connell, Ph.D. Nicole Bailey, M.S. Tim Gere, M.S. Jeff Parker, M.S.

Leslie D. McFadden, Chair and Professor

Courses taught

Spring: E&PS – 484 Soil Genesis (7 enrolled)

Fall: E&PS - 4851/585L (7 enrolled)

Guest Lecturer:

Community and Regional Planning 470/570 - Semiarid lands Development, Planning and Restoration Community and Regional Planning (Department of Architecture and Planning) - Relevance of Soil geomorphic and ecologic studies in NE Arizona to research in landscape ecology and Holocene climate change

Conservation and Indigenous Biology (BIOL 402) Soil geomorphic and field ecological studies of grazing and climate impacts on the Hopi and Navajo Reservations.

Geoarcheology (EPS 482L/582L and ANTH 482L) - Basic character of soils and utility in geoarcheology.

Summer Field Archeology (ANTH 375/575) – Fundamentals of soils at archeological sites in arid regions.

Graduate Students Supervised or Co-supervised

McLain, Angela (Ph.D.) Gere, Tim (M.S.) Bailey, Nicole (M.S.) Tillery, Ann (M.S., co-supervised with Dr. P. Fawcett) Defended Thesis and

Completed degree, May, 2003.

Carolyn Domrose (M.S.) Debra Bryan (Ph.D.)

M.S. Thesis Committees

Burnett, Ben Greene, Mary Ortiz, Rick Parker, Jeff

Ph.D. Committees

Buxbaum, Chuck (Dept. of Biology) Connell, Sean Pierce, Jennifer Powers, Bob (Dept of Anthropology)

Mousumi Roy, Assistant Professor

Courses taught

Spring:

E&PS 101 – Intro. Physical Geology (127 enrolled) E&PS 110 – Earthquakes (29 enrolled) E&PS 427/527 – Intro to Geophysics (8 enrolled) Phast 327 – (2 enrolled)

Fall:

E&PS 101 - Intro. Physical Geology (107 enrolled)

<u>Summer</u>: Guest lecturer at SAGE (Summer of Applied Geophysical Experience) – operated by Los Alamos National Laboratory and the University of California.

Students Advised in 2003 (*provided support)

Jonathan MacCarthy (M.S. Large-scale structure of the Jemez Lineament as constrained by gravity data – TA support)

Annie McCoy* (worked with her during her M.S. with advisor K. Karlstrom (UNM) and following her graduation)–Gravity modeling of the Colorado Mineral Belt (supported AGU trip and publication costs).

Chloe Peterson* 2003-2004, BS expected in December, 2004, BS (E&PS and Computer Science, UNM); Gravity and flexure models in the Albuquerque Basin and other parts of the Rio Grande Rift, New Mexico; SAGE participant (Summer 2003)

Michael Babineau* – Linux system administration

Thesis Committees

Micah Jessup, M.S. Annie McCoy, M.S. Mike Petronis, Ph.D.

Educational Donations Procured

Seismic display for the EPS Geology Museum at UNM, on loan from the Albuquerque Seismological Laboratory and IRIS (Integrated Research Institutions for Seismology).

Louis Scuderi, Associate Professor

Courses taught

Spring:

E&PS 455/555 -- Computer and GIS Applications in Geomorphology (18 enrolled)

E&PS 548 – Environmental Modeling and Geographic Information Systems (20 enrolled)

Jane Selverstone, Professor

Courses taught

Spring:	E&PS 303L – Igneous and Metamorphic Petrology + optics (18 enrolled) E&PS 552 – Problems (6 enrolled) E&PS 699 – PhD dissertation (1 enrolled)
Fall:	E&PS 101 – How the Earth Works (118 enrolled) E&PS 421/521L – Metamorphism (7 enrolled) E&PS 493 – Independent Study (1 enrolled) E&PS 552 – Problems (3 enrolled) E&PS 699 – PhD dissertation (1 enrolled)

Course development:

Developed a series of PowerPoint modules on teaching optical mineralogy which are now available online from my web page and are being used at several other universities. Developed a series of exercises for teaching igneous and metamorphic petrology which were presented at NSF workshop on Teaching Petrology and are now freely available online from workshop webpage: http://serc.carleton.edu/NAGTWorkshops/petrology/teaching_materials.html.

Undergraduate students supervised:

Erik Jung

Graduate students supervised:

Jaime Barnes, PhD (NSF Graduate Fellowship) – joint with Dr. Zachary Sharp Kurt Steffen, PhD (NSF grant) Caitlin Callahan, MS (half NSF, half TA) George Perkins, MS (half NSF, half TA) – joint with Dr. Zachary Sharp Courtney Porreca, MS

Thesis and dissertation committees (in addition to students listed above):

Dan Breecker, MS Laura Clor, MS Rachel Dworski, MS Toti Larson, PhD (defended spring 2003) Jonathon McCarthy, MS Michael Petronis, PhD Chris Wetteland, PhD

Outside member of examination committee:

Paul Burger, MS

Zachary Sharp, Associate Professor

Courses taught

Spring:

E&PS 407/507 - Thermo Phy. Geoch/Lab (14 enrolled)

Fall:

E&PS 101-Two Sessions (220 enrolled)

Graduate Students supervised:

Major Advisor:

George Perkins, M.S., with Jane Selverstone and A. Brearley Heather Hibbert, M.S. Dan Breecker, M.S. Toti Larson, Ph.D. Jaime Barnes, Ph.D., with Jane Selverstone Mel Strong, Ph.D., with Dave Gutzler

Exam Committee member:

Jamie Barnes, M.S. Susan Block, M.S. Paul Burger, M.S. Betthany Burnett, M.S. Peter Castiglia, M.S. Aaron Cavosie, M.S. Laura Chlor, M.S. Kurt Steffen, M.S. Mindy Zimmer, M.S. Deb Bergfeld, Ph.D. Lysa Chizmadia, Ph.D. Melanie Edwards, Ph.D. (Biology) Michael Gabora, Ph.D. Mike Timmons, Ph.D. Christopher Wettland, Ph.D. Richard Woodford, Ph.D.

Exernal Users:

Jeff Kelly, Forest Service Nacho Querejeta, University of California, Riverside Claudia Mora, University of Tennessee Todd Feeley, University of Montana A.V. Bojar, Graz, Austria Luigi Dallai, University of Rome, Italy Max Gibbs, NIWA, Hamilton, New Zealand

Gary A. Smith, Professor

Courses taught	
Spring:	E&PS 105L – Physical Geology Lab (274 enrolled) E&PS 333 – Environmental Geology (38 enrolled) E&PS 493 – Independent Study (1 enrolled) E&PS 552 – Problems (1 enrolled) E&PS 101 – How the Earth Works (1 guest lecture)
Fall:	E&PS 211: - Earth History (36 enrolled) E&PS 105L – Physical Geology Lab (239 enrolled)

Taught E&PS 333 for the first time and developed a new curricumul for the course.

Develooped new curricula with web resources and assessment for E&PS 201 and 333; web sites can be rviewed ast webct.unm.edu, user ID: guest_gsmith; password: gsmith@unm.edu.

Student Advisement

Ph.D. students advised: Sean Connell

Ph.D. Dissertation and/or Comprehensive Examination Committee:

J. Michael Timmons Debra Bryan

M.S. thesis and/or Examination Committee Tim Gere James Ashby Richard Ortiz Heather Hibbert LeaAnn Scott

Dan Breecker

B.S./B.A. Honors Student Advised:

Courtney Porreca (graduate Spring 2003; Title:

"Clays that work: Compositional analysis of slip clays used in traditional Pueblo ceramic production" (Co-advised with Ann Ramenofsky, Anthropology).

Caroline Myer

2. PUBLICATIONS DURING THE CALENDAR YEAR 2003

(E&PS tenure-track Faculty are underlined; ** = research scientists; * = students

Refereed Journal Papers and Chapters in Edited Volumes

Trace element partitioning between garnet and chondritic melt from 5 to 9 GPa: implications for the onset of the majorite transition in the martian mantle Draper, D.S., Xirouchakis, D., and <u>Agee, C.B.</u> Physics of the Earth and Planetary Interiors, v. 139, p. 149-169 (2003)

Experimental constraints on the origin of Martian meteorites and the composition of the Martian mantle <u>Agee, C.B.</u>, and D.S. Draper Earth and Planetary Science Letters 224, 415-429 (2004)

A back-arc palaeotectonic setting for the Augaro Neoproterozoic magmatic rocks of western Eritrea Teklay, M., Haile, T., Kröner, A., Watson, J., and <u>Asmerom, Y.</u> Gondwana Research 6, p. 629-640 (2003)

Historical and current atmospheric deposition to the epilithic lichen Xanthoparmelia in Maricopa County, Arizona Zachau, T., Getty, G., Gries, C., Zambrano, A., Nash, T., and <u>Asmerom, Y.</u> Environmental Pollution, v. 125, p. 21-30 (2003)

A test of annual resolution in stalagmites using tree rings <u>Asmerom, Y</u>., and Polyak, V., Comment on Betancourt et al. (2002) Quaternary Research 61, 119-121 (2004)

Prolonged wet period in the southwestern United States through the Younger Dryas Polyak, V., Rasmussen, J., <u>Asmerom, Y.</u> 2004 Geology 32, 5-8 (2004)

Variation in hydrogen stable isotope ratios between adult and nestling Cooper's Hawks Meehan, T., Rosenfield, R., <u>Atudorei, V.</u>, Bielefeldt, J., Rosenfield, L., Stewart, A., Stout, W., and Bozek, M. The Condor v. 105, pp. 567-572 (2003)

High-resolution analysis of δ^{18} O in the biogenic phosphate of modern and fossil lingulid brachiopods <u>Atudorei, V.</u>, Rodland, D.L., Kowalewski, M., Dettman, D.L., Flessa, K.W., and <u>Sharp, Z.</u> Journal of Geology, v. 111, p. 441-453 (2003)

Hydrogen isotope systematics of hair: archeological and forensic application <u>Sharp, Z.</u>, Panarello, H.O., Fernandez, J., <u>Atudorei, V.</u>, and C. Douthitt Journal of Archaeological Science, no. 30, p. 1709-1716 (2003)

Magnetite in ALH 84001: An origin by shocked-induced thermal decomposition of iron carbonate Brearley, A. Meteoritics and Planetary Science, v. 38, p. 849-870 (2003)

Nebular vs parent body processing of chondritic meteorites <u>Brearley, A.</u>, A M. Davis, H.D. Holland and K.K. Turekian (editors) Treatise on Geochemistry, Meteorites, Comets and Planets, v. 1, p. 247-268 (2003)

A petrogenetic model for the origin and compositional variation of the martian basaltic meteorites Borg, L., and Draper, D.S. Meteoritics and Planetary Science, v. 38, p. 1713-1731 (2003)

The age of Dar al Gani 476 and the differentiation history of the martian meteorites inferred from their radiogenic isotopic systematics Nyquist, L.E., Wiesmann, H., Shih, C. -Y., Borg, L., and Reese, Y. Geochimica et Cosmochimica Acta, v. 67, p. 3519-3536 (2003)

Chronology, geochemistry, and petrology of a ferroan noritic anorthosite clast from Descartes breccia 67215: Clues to the age, origin, structure, and impact history of the lunar crust Norman, M.D., Nyquist, L.E., and Bogard, D.D., and Borg, L. Meteoritics and Planetary Science, v. 38, p. 645-661 (2003)

Reallocation of water and the hydrological effects of climate change: the upper Rio Grande basin, southwestern USA," In Water Resources Perspectives: Evaluation, Management and Policy Scuderi, L., Matthews, O.P., Brookshire, D., Krause, K., Chermak, J., Cullen, B., Snell, S., and Gregory, K., and Campana, M., (A.S. Alsharhan and W.W. Woods, eds.) Developments in Water Science 50, Elsevier, Amsterdam, pp. 169-181 (2003)

Diverse Microbial Communities Inhabiting Ferromanganese Deposits in Lechuguilla and Spider Caves Northup, D.E., Barns, S.M., Yu, L.E., Schelble, R.T., Dano, K.E., Spilde, M.N., Connolly, C.A., Boston, P.J., Natvig, D.O., Crossey, L., and Dahm, C.N. Environmental Microbiology, v. 5(11), p. 1071-1086 (2003)

Humic Substances in Sediments Crossey, L., and G.V. Middleton (ed.) Encyclopedia of Sedimentary Rocks, p. 361 (2003)

Cycle and sequence stratigraphy of Middle Pennsylvanian (Desmoinsian) strata of the Lucero Basin, central New Mexico: in Carboniferous-Permian transition Scott, L.A., and Elrick, M., Lucas, S.G. and Zeigler, K.E. (eds.).

New Mexico Museum of natural History and science Bulletin, n. 25, p. 31-41 (2004)

Late Holocene behavior of small drainage basins on the Colorado Plateau: Influences of lithology, basin form, and climate change

P. Fawcett and A. Tillery, L. Scuderi, L.D. McFadden and J.McAuliffe New Mexico Geological Society Guidebook, 54th Field Conference, Geology of the Zuni Plateau, p. 197-207 (2003)

Paleomagnetism and magnetostratigraphy of the lower Glen Canyon and Upper Chinle Groups, Jurassic-Triassic of northern Arizona, and northeast Utah, USA J.W. Geissman, R.S. Molina-Garza and S.G. Lucas. Journal of Geophysical Research, v. 108, p. 10.1029/2002/JB001909 (2003)

Paleomagnetism and geochronology of an Early Proterozoic quartz diorite in the southern Wind River Mountains, Wyoming, J.W. Geissman and S.S. Harlan and W.R. Premo Tectonophysics, v. 362, p. 105-122 (2003)

Paleomagnetic results from Middle Proterozoic mafic intrusions and Upper Proterozoic (Nankoweap) red beds from the Lower Grand Canyon Supergroup, Arizona J.W. Geissman, A.B. Weil, M. Heizler and R. Van der Voo.

Tectonophysics, Powell Volume, v. 375, p. 199-220 (2003)

Progress in Pan-American climate variability research: The North American Monsoon system <u>D. Gutzler</u>, R.W. Higgins, A. Douglas, A. Hahmann, E. Berbery, J. Shuttleworth, D. Stensrud, J. Amador, R. Carbone, M. Cortez, M. Douglas, R. Lobato, J. Meitin, C. Ropelewski, J. Schemm, S. Schubert and C. Zhang Atmósfera, v. 16, p. 29-65 (2003)

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The North American monsoon Model Assessment Project (NAMAP) <u>D. Gutzler</u>, H.-K. Kim and R.W. Higgins NCEP/Climate Prediction Center ATLAS No. 11, p. 32, +Figures (2003)

Spade: An H chondrite impact-melt breccia that experienced post-shock annealing <u>R. Jones</u> Meteoritics and Planetary Science, v. 38, p. 1507-1520 (2003). Coauthor: A.E. Rubin

Paleoproterozoic rocks of the Granite Gorges

K.E. Karlstrom, (in S.S. Beus and M. Morales, eds.) B.R. Ilg, M.L. Williams, D.P. Hawkins, S.A. Bowring and S.J. Seaman

Grand Canyon Geology: Oxford University Press, second edition, p. 9-38 (2003)

Geologic structure of the Grand Canyon Supergroup <u>K.E. Karlstrom</u>, (in S.S. Beus and M. Morales, eds.), M.J. Timmons and J.W. Sears Grand Canyon Geology: Oxford University Press, second edition, p. 76-89 (2003)

Differential Incision of the Grand Canyon related to Quaternary faulting - Constraints from U-Series and Ar/Ar dating

K.E. Karlstrom, J. Pederson, W. Sharp and W. McIntosh

Comment and Reply: Geology, online forum, www.gsajournals.org, p. e16-e17 (2003)

Proterozoic evolution of the Zuni Mountains, western New Mexico: Relationship to the Jemez Lineament and implications for a complex cooling history

K.E. Karlstrom, (In: S.G. Lucas, S.C. Semken, W.R. Berglof and D.S. Ulmer-Scholle, eds.), D. Strickland, M.T. Heizler and J. Selverstone

Geology of the Zuni Plateau, NM Geological Society Guidebook, v. 54, p. 109-117 (2003)

First-day road log, from Gallup to Gamerco, Ya-ta-hey, Window Rock, Fort Defiance, Navajo, Todilto Park, Crystal, Narbona Pass, Sheep Springs, Tohatchi and Gallup <u>B. Kues</u>, S.G. Lucas, S.C. Semken, A.B. Heckert, W.R. Berglof, G. Hoffman, L.S. Crumpler and J.C. Aubele Geology of the Zuni Plateau, N.M. Geological Society, Guidebook 54, p. 1-34 (2003)

Second-day road log, from Gallup to Fort Wingate, Sixmile Canyon, Red Rock Park, Church Rock, White Mesa, Thoreau and Grants

B. Kues, S.G. Lucas, A.B. Heckert, W.R. Berglof, L.S. Crumpler, J.C. Aubele, V.T. McLemore, D.E. Owen and S.C. Semken

Geology of the Zuni Plateau, N.M. Geological Society, Guidebook 54, p. 35-68 (2003)

Third-day road log, from Grants to Milan, Homestake Mining Company, Dos Lomas, Haystack Mountain and El Ti <u>B. Kues</u>, S.G. Lucas, A.B. Heckert, W.R. Berglof, L.S. Crumpler, J.C. Aubele and V.T. McLemore Geology of the Zuni Plateau, N.M. Geological Society, Guidebook 54, p. 69-83 (2003)

From Bear Spring to Fort Wingate <u>B. Kues</u>, A.B. Heckert and S.C. Semken Geology of the Zuni Plateau, N.M. Geological Society, Guidebook 54, p. 37-40 (2003)

Gallery of geology: giant Pennsylvanian brachiopod <u>B. Kues</u> New Mexico Geology, v. 25, p. 37 (2003) Dedication to Vincent C. Kelley B. Kues

Albuquerque: a guide to its geology and culture, N.M. Bureau of Geology and Mineral Resources, Scenic Trip Series no. 18, (2003)

Climatic controls on fire-induced sediment pulses in Yellowstone National Park and central Idaho: a long-term perspective <u>G. Meyer</u> and J.L. Pierce

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Quaternary geology and ecology of the greater Yellowstone area

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Gravity Modeling of a Batholith and Low-Velocity Mantle Zone Beneath the Colorado Mineral Belt *A.M. McCoy, <u>M. Roy</u>, L. Trevino, and G. R. Keller EOS Trans. AGU, 84(46), Fall Meet. Suppl., Abstract T31E-0883 (2003)

Topographic stress and Rio Grande Rift extension <u>Roy, M</u>. US Array workshop, Kansas State University (2003)

Deformation in the Rio Grande Rift <u>Roy, M.</u> LANL-Southern California Earthquake Center, Finite-Element Modeling Workshop (2003)

Variations in quartzite rheology as a function of metamorphic fluid composition: Results of coupled fluid inclusion and experimental studies <u>Selverstone, J.</u>, Tullis, J., and Holyoke, C.* Geol. Soc. Amer. Prog. Abs. (2003)

Quantifying the metastable chemical energy available to metamorphic assemblages Steffen, K.* and <u>Selverstone, J.</u> Geol. Soc. Amer. Prog. Abs. (2003)

Surface chemistry of mesoporous materials: effect of nanopore confinement <u>H. Xu</u>, Y. Wang, C. Bryan and H. Gao Materials Research Society of Symposium Proceedings, v. 751, p. 121-125 (2003)

U- and Hf-bearing pyrochlore and zirconolite and their leached layers formed in acid solution: TEM investigation <u>H. Xu</u>, Y. Wang, P. Zhao, W.L. Bourcier, R. van Konyenburg and H.F. Shaw (In R.J. Finch and D.B. Bullen, eds.) Scientific Basis for Nuclear Waste Management XXVI, Materials Research Society, Warrendale, Pennsylvania, p. 235-241 (2003)

Incorporation of radioactive metals and trace metals into phosphate "anhydrous" autunite: thermodynamic evaluation

H. Xu, and Y. Wang (In R.J. Finch and D.B. Bullen, eds.) Scientific Basis for Nuclear Waste Management XXVI, Materials Research Society, Warrendale, Pennsylvania, p. 447-454 (2003)

As, Se, and Re sorption by Mg-Al layered double hydroxides <u>H. Xu</u>, C.R. Bryan, H. Wang, P.S. Braterman and H. Gao (In R.J. Finch and D.B. Bullen, eds.) Scientific Basis for Nuclear Waste Management XXVI, Materials Research Society, Warrendale, Pennsylvania, p. 671-776 (2003)

Hierarchical and self-similar growth of self-assembled crystals <u>H. Xu</u>, Z.R. Tian, J. Liu, J.A. Voigt and B. McKenzie Source: Angewandte Chemie-International Edition, v. 42, no. 4, p. 414-417 (2003) Dendritic growth of cubically ordered nanoporous materials through self-assembly <u>Huifang Xu</u>, Z.R. Tian, J. Liu, J.A.Voigt and M.J. Mcdermot Source: Nano Letters, v. 3, no. 1, p. 89-92 (2003)

Kinetically controlled synthesis of wurtzite ZnS nanorods through mild thermolysis of a covalent organic-inorganic network

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H. Xu, X.J. Chen, N.S. Xu, F.H. Zhao, W.J. Lin, G. Lin, Y.L. Fu, Z.L. Huang, H.Z. Wang and M.M. Wu Source: Inorganic Chemistry, v. 42, no. 9, p. 3100-3106 (2003)

Nanogeochemistry: Geochemical reactions and mass transfers in nanopores <u>H. Xu</u>, Y.F. Wang, C. Bryan and H.Z. Gao Source: Geology, v. 31, no. 5, p. 387-390 (2003)

Mineralogical characteristics of palygorskite fault rock in andesitic welded tuff <u>H. Xu</u>, T.H. Chen, G. Zhu, D.X. Wang, S.C. Yue and G.S. Liu Source: Acta Petrological Sinica, v. 19, no. 4, p. 767-774 (2003)

Synthesis of Mg/Al LDH from Wastewater of Palygorskite Clay Activation: Preparation and Characterization <u>H. Xu</u>, T.H. Chen, A.H. Lu, S.C. Yue, J.Q. Wang, S.C. Peng and X.C. Xu Acta Mineralogica Sinica, v. 23(3), p. 199-204 (in Chinese) (2003)

Selective surface migration for defect-free quantum dot ensembles using metal organic chemical vapor deposition <u>H. Xu</u>, A.A. El-Emawy, S. Birudavolu, S. Huang and D.L. Huffaker Source: Journal Of Crystal Growth, v. 255, no. 3-4, p. 213-219 (2003)

Formation trends in quantum dot growth using metalorganic chemical vapor deposition <u>H. Xu</u>, A.A. El-Emawy, S. Birudavolu, P.S. Wong, Y.B. Jiang, S. Huang and D.L. Huffaker Source: Journal of Applied Physics, v. 93, no. 6, p. 3529-3534 (2003)

Electrodeposition of metallic nanowire thin films using mesoporous silica templates <u>H. Xu</u>, D.W. Wang, W.L. Zhou, B.F. McCaughy, J.E. Hampsey, X.L. Ji, Y.B. Jiang, J.K. Tang, R.H. Schmehl and C.O'Connor Source: Advanced Materials, v. 15, no. 2, p. 130-+ (2003)

Properties of MOCVD deposits using novel Sn(II) neo-pentoxide precursors <u>H. Xu</u>, T.J. Boyle, T.L. Ward, S.M. De'Angeli and W.F. Hammetter Source: Chemistry of Materials, v. 15, no. 3, p. 765-775 (2003)

Hollow spheres based on mesostructured lead titanate with amorphous framework <u>H. Xu</u>, M.M. Wu, G.G. Wang, J.B. Long, F.L.Y. Shek, S.M.F. Lo, I.D. Williams, S.H. Feng and R.R. Xu Source: Langmuir; v. 19, no. 4, p. 1362-1367 (2003)

Shape-selective growth, patterning, and alignment of cubic nanostructured crystals via self-assembly <u>H. Xu</u>, Z.R. Tian, J. Liu, J.A. Voigt, B. Mckenzie and C.M. Matzke Source: Nano Letters, v. 3, no. 2, p. 179-182 (2003)

Effect of catalyst composition on carbon nanotube growth <u>H. Xu</u>, X.Z. Liao, A. Serquis, Q.X. Jia, D.E. Peterson and Y.T. Zhu Source: Applied Physics Letters, v. 82, no. 16, p. 2694-2696 (2003)

Size- and shape-tailored hydrothermal synthesis of YVO4 crystals in ultra-wide pH range conditions <u>H. Xu</u>, H. Wu, Q. Su, T.H. Chen and M.M. Wu Source: Journal of Materials Chemistry, v. 13, no. 5, p. 1223-1228 (2003) Mg(B,O)(2) precipitation in MgB2 <u>H. Xu</u>, X.Z. Liao, A. Serquis, Y.T. Zhu, J.Y. Huang, L. Civale, D.E. Peterson and F.M. Mueller. Source: Journal of Applied Physics, v. 93, no. 10, pt. 1, p. 6208-6215 (2003)

Fabrication and characterization of optically active multilayer thin films based on polyaniline colloids <u>H. Xu</u>, W.G. Li, D.E. Hooks, P. Chiarelli, Y.B. Jiang and H.L. Wang Source: Langmuir, v. 19, no. 11, p. 4639-4644 (2003)

Synthesis and red luminescence of Pr3+-doped CaTiO3 nanophosphor from polymer precursor <u>H. Xu</u>, Y.X. Pan, Q. Su, T.H. Chen, W.K. Ge, C.L. Yang and M.M. Wu Source: Journal of Solid State Chemistry, v. 174, no. 1, p. 69-73 (2003)

Plasma torch production of macroscopic carbon nanotube structures <u>H. Xu</u>, C.K. Chen, W.L. Perry, Y.B. Jiang, YB and J. Phillips Source: Carbon, v. 41, no. 13, p. 2555-2560 (2003)

Large oriented arrays and continuous films of TiO2-based nanotubes <u>H. Xu</u>, Z.R. Tian, J.A. Voigt, J. Liu and B. McKenzie Source: Journal of the American Chemical Society, v. 125, no. 41, p. 12384-12385 (2003)

Electric field-induced mesostructure transformation of self-assembled silica/copolymer nanocomposite thin films <u>H. Xu</u>, D.H. Wang, X.L. Ji, J.B. Pang, Q.Y. Hu and Y.F. Lu Source: Physical Chemistry Chemical Physics, v. 5, no. 19, p. 4070-4072

Formation mechanism of ferromagnetic minerals in loess of China: TEM investigation <u>Huifang Xu</u>, Coauthors: T.H. Chen, J.F. Ji, J. Chen and Y. Chen Source: Chinese Science Bulletin, v. 48, no. 20, p. 2259-2266 (2003)

Growth of patterned nanopore arrays of anodic aluminum oxide <u>H. Xu</u>, Coauthors: J.C. Yan, G.V.R. Rao, M. Barela, D.A. Brevnov, Y.B. Jiang, G.P. Lopez and P.B. Atanassov Source: Advanced Materials, v. 15, no. 23, p. 2015-2018 (2003)

Selective growth of Ge on Si(100) through vias of SiO2 nanotemplate using solid source molecular beam epitaxy <u>H. Xu</u>, Coauthors: Q.M. Li, S.M. Han, S.R.J. Brueck, S. Hersee and Y.B. Jiang Source: Applied Physics Letters, v. 83, no. 24, p. 5032-5034 (2003)

Complex and oriented ZnO nanostructures

H. Xu. Coauthors: Z.R.R. Tian, J.A. Voigt, J. Liu, B. McKenzie, M.J. McDermott, M.A. Rodriguez and H. Konishi Source: Nature Materials, v. 2, no. 12, p. 821-826 (2003)

Potential applications of nanostructured materials in nuclear waste management <u>H. Xu</u>, Coauthors: Y. Wang, C. Bryan, H. Gao, P. Phod, C.J. Brinker, K. Yu, Y. Yang, P.S. Braterman and Z. Xu Sandia Report SAND2003-3313, Sandia National Laboratories, 95 p., (2003)

3. EXTERNALLY FUNDED RESEARCH GRANTS AND CONTRACTS

Awarded in January 1, 2003 - June 30, 2004

Acquisition of a multi-collector ICP-MS for Earth Science Research in New Mexico <u>V. Asmerom</u>, (Principal Investigator) L. Borg, <u>L. Crossey</u>, <u>T. Fischer</u> and V. Polyak (Co-PIs) National Science Foundation \$425,000

Collaborative Research: A Holocene history of the El Niño/Southern Oscillation, ... the Central American Monsoon <u>Y. Asmerom</u> (Principal Investigator) National Science Foundation \$64,191

Serpentinite as a carrier of chlorine into the mantle <u>Z. Sharp</u>, (Principal Investigator), co-PIs <u>J. Selverstone</u> and <u>A. Brearley</u> NSF Petrology and Geochemistry Program \$144,000 (Jan, 01, 2003-Dec 31, 2005)

Formation and alteration histories of chondritic materials <u>A.J. Brearley</u>, (Principal Investigator) NASA Cosmochemistry Program \$290,000 (15 March 2003 – 14 March 2006)

Distribution, origins and parent body processing of carbonaceous material in chondritic Meteorites: Insights from in situ characterization using energy filtered transmission electron Microscopy. <u>A.J. Brearley</u> (Principal Investigator) NASA Exobiology Program \$174,702 (May 1, 2003 – April 30, 2006)

NSF National Nanoscience Infrastructure Network Professor S. Brueck (CHTM) UNM site Director. UNM Participants-K. Malloy, J. Brinker and <u>A.Brearley</u> \$3.5M to UNM (Jan 01, 2004-Dec 31, 2006)

South Caucasus River Monitoring. North Atlantic Treaty Organization (NATO) and Organization for Security and Cooperation in Europe (OSCE) <u>M. Campana</u>, \$24,000 (UNM share); I manage entire project (6 countries) – 483,000 euros; 10/01/02 – 9/30/05

Towards the Establishment of a Central American Water Resources Development Center. Associated Liaison Office, American Assn. of State <u>M. Campana</u> (co-PI with M. Minnis) Colleges and Universities – U.S. Agency for International Development \$100,000; 10/01/02 – 9/30/05

Student Recruitment, Retention and Experiential Learning in Water Resources <u>M. Campana</u>, (co-PI with M. Minnis) U.S. Department of Agriculture \$150,000; 10/1/02 - 9/30/04 An REU site in water resources for developing countries <u>M. Campana</u>, (co-PI with S. Silliman, U. of Notre Dame, and Scott Tyler, U. of Nevada-Reno) National Science Foundation \$190,000; 3/1/02 - 2/28/05

A quantitative assessment of the economic and institutional impacts of climate Change on the Upper Rio Grande Valley using an integrated GIS framework <u>M. Campana.</u> (co-PI with L. Scuderi, O.P. Matthews, D. Brookshire and J. Chermak) National Science Foundation \$675,000: 6/1/00 - 5/31/04

Identification of microbial signatures in biogenic cave ferromanganese deposits Co-I: w/ Northrop (Biol.), Spilde, Dahm (Biol.); collaborative link w/ Boston (NMT) L. J. Crossey NSF Biogeosciences Program, EAR-0311932 \$291,644 (08/15/03 to 08/14/05)

Dissected hydrologic system at Grand Canyon: interaction between upper and lower world waters in modern springs and ancient travertines L. J. Crossey and PI: w/T. Fischer NSF Hydrologic Sciences Program \$137,492 (07/01/03 to 06/30/05)

Geochemistry of Rio Grande Rift Travertine Depositing Springs– Implications for Rio Grande Valley Water Quality <u>L.J. Crossey</u> and PI: w/ D. Newell (PhD candidate) NM Water Resources Research Institute \$5,000 (12/01/03- 11/31/04)

Alliance for Minority Programs: Undergraduate Research Support, NSF/AMP Program, subcontract through New Mexico State University <u>L.J. Crossey</u> \$55,000, 1/1/03-10/31/04: 0.5 months (AY) in 2004

Four months (June-July, September-October 2003) of geological fieldwork on The Bushveld Complex, South Africa <u>W.E. Elston</u> Petrography of the rocks of the Bushveld Complex, South Africa (all research, self-financed)

Milankovitch-scale time resolution to determine rates and kinematics of folding- NSF Collaborative Research <u>M. Elrick</u>, (Principal Investigator) D. Anastasio, K. Kodama-- Lehigh University (co-PIs) \$146,000, EAR-023087, Jan, 2003-Dec, 2004

Constraining the magnitude of global climate change using stable isotopes of ancient marine phosphate fossils-Research Allocations Committee, UNM <u>M. Elrick</u> (Principal Investigator) \$2785.00, April, 2003 – September, 2003

Holocene glacial climate reconstruction in the Sierra Nevada Mountains, California using multiple techniques P.I.s: L. Scuderi and <u>P.J. Fawcett</u> Funding Organization: University of New Mexico, Large Research Allocation Grants \$7,500 (06/01/03 - 10/01/03)

Japanese Society for the Promotion of Science (JSPS) <u>T. Fischer</u> Fellowship for Research Stay in Japan to work in Laboratory of Prof. Yuji Sano (University of Tokyo) Travel and living expenses for 3 months Collaborative research: Constraining the volatiles and slab flux in the Izu-Bonin-Marianas Arc using geothermal fuilds, phenocysts and melt inclusions (<u>T. Fischer</u> (Principal Investigator) and Hilton, H. co-PIs National Science Foundation \$149, 916 (UNM) ~ \$ 630,00 (total for 3 institutions) OCE-0305218 06/01/03-5/31/06.

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Field Workshop on the Flux and Chemistry of Volcanic Emissions: Nicaragua and Costa Rica <u>T. Fischer</u> (Principal Investigator) National Science Foundation \$15,000, OCE 0234544 (01/01/03 - 12/31/03, no IDC)

Field Workshop on the Chemistry of Volcanic Gases: Nicaragua and Costa Rica <u>T. Fischer</u> (Principal Investigator) NASA \$20,000 (03/01/03 - 12/31/03 no IDC)

Collaborative Research: Resolving mantle, crustal and slab fluxes to arc magmatism in Central America using geothermal fluids and recent lavas <u>T. Fischer</u> National Science Foundation Geochemistry and Petrology (EAR-0003668) \$75,981 (including supplemental equipment support of \$8,300) (01/01/01 - 12/31/03)

Hydrocarbons in active volcanic systems. <u>T. Fischer</u> American Chemical Society ACS-PRF Type G Grant (ACS-PRF#36267-G2)) \$25,000 (07/01/01 - 08/31/03)

Upgrade to the superconducting rock magnetometer and acquisition of a high-sensitivity susceptibility system, UNM Earth and Planetary Sciences Paleomagnetism Laboratory J.W. Geissman National Science Foundation, Instrumentation and Facilities \$108,600, with UNM cost-match of \$50,000.

Mapping of the transition zone between the Rio Grande rift and Colorado Plateau, eastern margin of the Lucero Uplift (CLTZ) J.W. Geissman EDMAP \$10,000

Origin of high magnetic remanence in fault pseudotachylites and possible seismic implications <u>J.W. Geissman</u> National Science Foundation, Geophysics \$38,588 (UNM component, two years)

Collaborative research: Identification of the plate boundary between India and Indochina through integrated petrologic, structural, and paleomagnetic analyses J.W. Geissman National Science Foundation, Tectonics \$104,473 (request, UNM component, two years)

Tropical cyclone activity associated with the North American Monsoon System <u>D. Gutzler</u> and co-PI: E. Ritchie NOAA Office of Global Programs/Warm Season Precipitation Initiative 36 months (grant period began Sep 03), \$95K/yr. Geoscience Education at the Grand Canyon: Integrating Science and Education Through the Trail of Time Exhibit, PIs <u>L. Crossey</u> and <u>K. Karlstrom</u> NSF Geoscience Education Program, \$49,997 (03/01/03 to 02/29/04), 0.5 month in 2003. EAR- 0314133

Supplement to Tectonic geomorphology of the Grand Canyon region; testing a hypothesis for differential incision due to Quaternary slip on the Hurricane-Toroweap fault system: support for further Ar-Ar dating <u>K.E. Karlstrom</u> \$8,000

The Trail of Time at Grand Canyon: Planning and implementation, 09/15/03 to 08/31/04, PIs <u>K.E. Karlstrom</u> and <u>L. Crossey</u> \$49,984, 0.5 months in 2004. ISE- 0314132

Post-doc grant: Continental Dynamics of the Rocky Mountains: structure, evolution, and geodynamics of the continental lithosphere <u>K.E. Karlstrom</u> NSF Continental Dynamics Program, \$40,000 (07/01-/03 to 06/30/04)

Organizational structure for Rocky Mountain EarthScope: Science and education planning <u>K.E. Karlstrom</u> NSF EarthScope Program \$60,412 to UNM (02/01/04 to 01/31/06)

Rio Grande dynamics, Albuquerque Reach US Bureau of Reclamation -- Cooperative Agreement For Technical Assistance In Water Resources Investigations No. 00-FC-40-4670 <u>G. Meyer</u>, (Principal Investigator) 2000-2005 (\$110,000)

Geomorphic impacts of catastrophic fire in ponderosa pine ecosystems: Modern and Holocene perspectives from granitic mountains of central Idaho National Science Foundation – Geology and Paleontology Program, EAR-0000905 <u>G. Mever</u>, (Principal Investigator) Completed Jan. 31, 2004 (\$137,566)

Fire, climate, and hillslope-alluvial system response, Sacramento Mountains, New Mexico National Science Foundation – Geology & Paleontology Program, EAR-0345258 <u>G. Mever</u>, (Principal Investigator) <u>L.D. McFadden</u>, co-PI Submitted July 15, 2003 (\$213,630; not funded, resubmission encouraged)

Center for Rapid Environmental Assessment and Terrain Evaluation <u>L. Scuderi</u>, Principal Investigator and Director Federal FY2003 Appropriation, Earmark to UNM, 2003-2004. \$1,800,000. Additional Supplemental Appropriation of \$1,600,000 expected in 2004

A Quantitative Assessment of the Economic and Institutional Impacts of Climate Change in the Upper Rio Grande Valley Using an Integrated GIS Framework L. Scuderi, Principal Investigator 2000-2004. National Science Foundation, MMIA 9909140, \$674,400

An Integrated GIS Framework for Water Reallocation and Decision Making in the Upper Rio Grande L. Scuderi, Co-Investigator Environmental Protection Agency, 2000-2004, \$410,000 GIS/GPS Applications Lab <u>L. Scuderi</u>, Principal Investigator NASA PURSUE, 2002-2003, \$24,000

Tectonic and metamorphic implications for high Cl-contents in serpentinites Z. Sharp, J. Selverstone, and A. Brearley National Science Foundation \$131,895; 3 years

Mantle and crustal xenoliths of the Puerco Necks, New Mexico: Constraints on lithospheric evolution at the transition between the Colorado Plateau and the Rio Grande Rift <u>J. Selverstone, Z. Sharp</u>, and <u>A. Brearley</u> National Science Foundation \$194, 652; 1/1/03-12/31/05

Grants and Awards current in the period January 1, 2002 - June 30, 2003 (continued from previous years).

Collaborative Research: U-series, Be, Sr, Nd and Pb Isotopic and Trace Element Constraints on Melting and Mass Transfer Processes in Arcs, Philippine Arc System <u>Y. Asmerom</u>, (Principal Investigator) National Science Foundation \$137,000 (6/02-5/04)

Holocene paleoclimate for southwestern USA from annual banding in Carlsbad Cavern stalagmites V. Polyak and <u>Y. Asmerom</u>, (Co-PIs) National Science Foundation \$180,000 (8/02-7/04)

Field-Scale in-situ measurements of vadose zone flow and transport...U-series, Sr isotopes <u>Y. Asmerom</u>, (Principal Investigator) Department of Energy \$150,000 (9/02 - 8/05)

²³¹Pa-²³⁵U Fractionation During Intra-Plate Mantle Melting and Magma Transport <u>Y. Asmerom</u>, (Principal Investigator) National Science Foundation \$98,000

Increasing Minority Ph.D.s in Geochemistry <u>Y. Asmerom</u>, (Principal Investigator) Sloan Foundation [On-going -2005] \$55,000 (11/99-10/03)

Geochronology of Planetary Materials: A Petrologic Approach L. Borg and <u>Y. Asmerom</u>, (Co-Pls) NASA \$50,000 (funded)

Formation and alteration of histories of chondritic materials <u>A.J. Brearley</u>, Principal Investigator NASA Cosmochemistry Program \$190,000 (May 2000 – May 2003) Acquisition of an Electron Microprobe <u>A.J. Brearley</u>, Principal Investigator, Co-PI, <u>J. Selverstone</u>, <u>K.E. Karlstrom</u>, M. Spilde and <u>L. Crossey</u> NSF Instrumentation and Facilities Program \$280,000 (May 2002 - May 2004)

Mechanisms and kinetics of aqueous alteration reactions in chondritic meteorites <u>A.J. Brearley</u> NASA Origins of solar systems program \$105,000 (1 June, 2002 – 30 May, 2005)

South Caucasus River Monitoring. North Atlantic Treaty Organization (NATO) and Organization for Security and Cooperation in Europe (OSCE) <u>M. Campana</u> (UNM share); I manage entire project (6 countries) – 483,000 euros \$24,000 (10/01/02 – 9/30/05)

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Towards the Establishment of a Central American Water Resources Development Center. Associated Liaison Office, American Assn. of State <u>M. Campana</u> Colleges and Universities – U.S. Agency for International Development \$100,000 (10/01/02 - 9/30/05) (co-PI with M. Minnis)

Student Recruitment, Retention and Experiential Learning in Water Resources U.S. Department of Agriculture <u>M. Campana</u> \$150,000 (10/1/02 - 9/30/04) (co-PI with M. Minnis)

An REU site in water resources for developing countries. National Science Foundation (co-PI with S. Silliman, U. of Notre Dame, and Scott Tyler, U. of Nevada-Reno) <u>M. Campana</u> \$190,000 (3/1/02 - 2/28/05)

A quantitative assessment of the economic and institutional impacts of climate Change on the Upper Rio Grande Valley using an integrated GIS framework <u>M. Campana</u> National Science Foundation (co-PI with L. Scuderi, O.P. Matthews, D. Brookshire and J. Chermak) \$675,000 (6/1/00 - 5/31/04)

IGERT – Freshwater Sciences Interdisciplinary Doctoral Program L. J. Crossey and Co-I; C. Dahm, M. Molles, C. Crawford, T. Turner (UNM Biology) and <u>Z. Sharp, D. Gutzler, M. Campana, L. McFadden</u> National Science Foundation, IGERT 8/1/99-7/31/04: \$1,350,000 (including Univ. of Alabama, Partner w/ 9 additional Co-I's)

The Trail of Time: Integrating Science and Education at Grand Canyon, AZ. L. J. Crossey and Co-I: with <u>K.E. Karlstrom</u> National Science Foundation-Geoscience Education 11/1/01-03/30/03: \$98,000.

Alliance for Minority Programs: Undergraduate Research Support L. J. Crossey and Co-PI; R. Jacquez, New Mexico State University 11/1/02-10/31/03: \$55,0000 Collaborative research: Mesoproterozoic tectonics of inboard southwestern Laurentia: insight into assembly and configuration of Rodinia from study of sedimentary successions L.J. Crossey and Co-I: PI K.E. Karlstrom, Co-I J. Bloch NSF- Tectonics (EAR-028463) 7/1/02-6/30/04. \$114, 888

Second Planning Proposal: The Trail of Time at Grand Canyon <u>L. J. Crossey</u> and Co-I: <u>K.E. Karlstrom</u> NSF-Geoscience Education and Informal Science Education (split funding) 11/01/02 to 10/31/03. \$100,000

A Partnership in Modeling Earth System History <u>P.J. Fawcett</u> (Principal Investigator) The Pennsylvania State University (subcontract)/National Science Foundation, Earth Sciences Division \$70,056 (05/01/00-04/30/03)

Modeling the effects of land surface forcing on summer rainfall in southwest North America <u>P.J. Fawcett</u> and <u>D. Gutzler</u> Los Alamos National Laboratory NUCOR program \$40,593 (8/15/98 to 8/15/03)

Experimental determination of mineral-melt trace-element partitioning between olivine, pyroxene, garnet, and silicic, alkaline, aluminous liquid. <u>D. Draper</u> (Principal Investigaror) National Science Foundation \$52K (1/01 to 12/03)

Biocomplexity Incubation Activity: Drought in mesic and arid environments – Climatology, biotic responses, and feedbacks <u>D. Gutzler</u> and (co-PIs: C. Dahm/UNM, A. Ward, L. Gough, M. Ward/U. Alabama) NSF Ecological Studies Program 18 months (Jul 01-Jan 04), \$100K

Climatic factors modulating warm season precipitation in Southwest North America <u>D. Gutzler</u> NOAA Office of Global Programs/Warm Season Precipitation Initiative 48 months (Jul 00-Jun 04), \$166K

CLIMAS partnership with the University of New Mexico <u>D. Gutzler</u> NOAA Office of Global Programs/Regional Integrated Climate Science Assessment Program 22 months (Sept 02-May 04), \$40K

REU supplement to Tectonic geomorphology of the Grand Canyon region: testing a hypothesis for differential incision due to Quaternary slip on the Hurricane-Toroweap fault system <u>K.E. Karlstrom</u> support for T. Cleveland, \$4455

Collaborative Research: Tectonic geomorphology of the Grand Canyon region: testing a hypothesis for differential incision due to Quaternary slip on the Hurricane-Toroweap fault system P.I s <u>K.E. Karlstrom</u> and J. Pederson \$74,454 to UNM (06/01/01 to 05/31/03), NSF Tectonics Program Center for Rapid Environmental Analysis and Terrain Evaluation L. Scuderi, <u>L.D. McFadden</u> and R. Watson, Principal Investigators National Aeronautics and Space Administration \$3,600,000 - 5/2003 - 5 2005

IGERT: Freshwater graduate studies link fundamental science with applications through integration of ecology, hydrology, and geochemistry in regions with contrasting climates Principal Investigator (at UNM), C. Dahm, (I am one of ten collaborators at UNM) National Science Foundation, 1/99 - 1/2004, \$ 2, 699, 289 (UNM share: \$1.2 million).

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Collaborative research: Deformation rates and kinematics of ancient and active displacement transfer, central Walker Lane, western Great Basin J. Geissman, J. Selverstone (collaborative with J. Oldow and W. McClelland, Univ. of Idaho) National Science Foundation \$144,588; 6/15/02-5/31/05

Interactions between deformation and metamorphism: Controls on shear zone rheology and metamorphic memory <u>J. Selverstone</u> and <u>A. Brearley</u> National Science Foundation \$143,608; 6/1/00-12/31/04

Integrated stratigraphic, geomorphic, sedimentologic, numeric, and experimental study of hangingwall ramp architecture in continental half grabens <u>G.A. Smith</u> and J.W. <u>Geissman</u> National Science Foundation \$151,966 (funded) January 2004- December 2006

Sedimentologic Record of hangin-Wall Structural Evolution in extensional basins <u>G.A. Smith</u> National Science Foundation \$226,821 (not funded) June 2003-May 2006

4. RESEARCH PROJECTS IN PROGRESS (Calendar Year 2003-2004)

Carl Agee, Professor and Director, Institute of Meteoritics

Funded Research

Experimental Studies of Planetary Magmas at High Pressure (funded by NASA)

This project was renewed for three years for a total of \$300K. The continuation of this work now focuses on three main tasks: 1) Partitioning of slightly siderophile and volatile elements between mantle and core, 2) Mobility of silicate and metallic liquids during planetary differentiation, and 3) The source regions of lunar picrite glasses. All three tasks will be carried out in the high-pressure and analytical laboratories in the IOM. Results from these studies should advance our understanding of the early differentiation of the Earth, Moon, Mars, and other planetary bodies.

High Pressure Laboratory

The High Pressure Laboratory located in B17, Northrop Hall, features two very large solid media devices, a multi-anvil press designed to reach pressures between about 3 and 25 GPa and a piston-cylinder press designed to achieve pressures of 0.5 to 3.0 GPa. This capability allows laboratory observation of mineral and magma properties at conditions equivalent to a depth of 700 km in the Earth and Venus, 2000 km in Mars, and pressures exceeding the Moon's central core at 1700 km. Current research includes studies on the physics and chemistry of planetary core formation, geochemistry of the Martian mantle, and the nature of lunar magmatism. David Draper is the lab manager of the high pressure facility.

Yemane Asmerom, Associate Professor

Manuscripts in press

Stable isotope variations in modern tropical speleothems: Evaluating applications to paleoenvironmental reconstructions Patrick J., Mickler, P.J., Banner, J.L., Stern, L., <u>Asmerom, Y.</u>, Edwards, R.L., and Ito, E. Geochimica et Cosmochimica Acta

Tropical Response to the 8200 yr cold event? Speleothem isotopes indicate a weakened early Holocene monsoon in Costa Rica Lachniet, M.S., <u>Asmerom, Y.</u>, Burns, S., Patterson, W.P., Polyak, V., and Seltzer, G.O. Geology

A 1500 year El Niño/Southern Oscillation and rainfall history for the Isthmus of Panama from speleothem calcite Lachniet, M.S., Burns, S.J., Piperno, D.R., <u>Asmerom, Y.</u>, Polyak, V.J., Moy, C.M. and Christenson, K. Journal of Geophysical Research, D, Atmospheres

Stable isotope variations in modern tropical speleothems: Evaluating applications to paleoenvironmental reconstructions Mickler, P.J., Banner, J.L., Stern, L., <u>Asmerom, Y.</u>, Edwards, R.L., and Ito, E. Geochimica et Cosmochimica Acta

Speleothems: Encyclopedia of Paleoclimatology and Ancient Environments Asmerom, Y. Kluwer, Dordrecht

U-series dating: Encyclopedia of Paleoclimatology and Ancient Environments: Asmerom, Y. Kluwer, Dordrecht

Manuscript reviews

Chemical Geology, Geochemica

Adrian Brearley, Associate Professor

Manuscripts in press

Golden, D.C., Ming, D.W., Morris, R.V., Brearley, A.J., Lauer, H.V., Jr., Bazylinsky, D.A., Treiman, A., Zolensky, M.E., Schwandt, C.S., and Lofgren, G.E. and McKay, G.A., (2004) Morphology of [111]-elongated magnetite crystals in Martian meteorite ALHS84001, magnetotactic bacterial strain MV-1, and thermal decomposition of hydrothermally precipitated Fe-rich carbonate: Evidence for inorganic-only formation of magnetite in the Martian meteorite, American Mineralogist (in press).

Moecher, D.P. and Brearley, A.J. Mineralogy and petrology of a multite-bearing Pseudotachylyte: constrains on the temperature of coseismic friction fusion. American Mineralogist (in review).

Krot, A.N., Hutcheon, I.D., Brearley, A.J., Pravdivtseva, O.V., Petaev, M.I., and Hohenberg, C.M. Timescales for secondary alteration of chondritic meteorites. Meteorites and the Early Solar System II edited by Lauretta, McZee and Lashing (in review).

Abreu, N.M. and Brearley, A.J. Carbonate in the Vigarano CV3 carbonaceous chondrite: Terrestrial, preterrestrial or both? Meteoritics and Planetary Science (in review)

C.L. Jones and A.J. Brearley Experimental aqueous alteration of the Allende CV3 carbonaceous Chondrite; Insights into asteroidal aqueous alteration. Geochimica et Cosmochimica Acta (in review)

Manuscripts in preparation

The effect of cooling rate in the protoenstatite to orthoenstatite inversion: an experimental and transmission electron microscope study (with Rhian Jones).

A TEM study of chondrules in the CM carbonaceous chondrites, Lewis Cliff 90500 – new Constraints for the aqueous alteration of chondrules (with Nick Hanowski)

Chondrule serpentines as indicators of aqueous alteration in CM carbonaceous chondrites (with Nick Hanowski)

Hydrous phases of martian origin in ALH84001.

An experimental study of rapid melt segregation in the crust: Geochemical signatures and Petrologic implications (with Tracy Rushmer).

Mineralogy of fine-grained rims in the Yamato 791198 CM2 carbonaceous chondrite (with Lysa Chizmadia)

Laura J. Crossey, Professor

Other writings submitted or in preparation

Humic Substances in Sediments <u>Crossey, Laura J.</u> Encyclopedia of Sedimentary Rocks; Ed. G.V. Middleton, p. 361 (2003).

Biogeochemistry and mineral cycling of a regulated shallow alluvial river aquifer in a semi-arid environment Vinson, D.S., Crossey, L.J., and Dahm, C.N. in prep.

Biogeochemical and hydrochemical response of shallow ground water to annual precipitation cycles Groffinan, A., Crossey, L.J., Dahm, C.N., and Gutzler, D. in prep.

Proposals submitted in 2003 pending

The Trail of Time: Informal Science Education initiative at Grand Canyon: <u>L. J. Crossey</u> and Co-I: w/K. Karlstrom NSF Informal Science Education Program \$752,664 (2004 to 2007); pending

Neoproterozoic successions of SW Laurentia: Monazite geochronology of shales and chemostratigraphic correlation NSF Geology and Paleontology Program L. J. Crossey and Co-I: w/ K. Karlstrom, J. Bloch, collaborative links with Williams (UMass), Dehler (USU) \$138,877 (07/01/03 to 06/30/05). Not funded.

Behavior of volatiles during the Chicxulub asteroid impact event <u>L. J. Crossey</u> and Co-I: w/ Shearer, Brearley, and Newsom NSF-Continental Dynamics Program \$315,147 (09/01/03 to 08/30/06). Not Funded.

Manuscripts in review or uner revisions

Accepted, under revision

 δ^{13} C composition of organic carbon and dolomites, lithostratigraphy and mudrock petrology of the Neoproterozoic Chuar Group (~770-742 Ma), Grand Canyon: Implications for pre-742 Ma climate change

Dehler, C.M., Elrick, M., Bloch, J.D., Crossey, L.J., Karlstrom, K.E. and DesMarais, D.J. Geological Society of America Bulletin (submitted 8/16/03, accepted w/minor revisions).

Submitted, in Review

Tectonic inferences from the ca. 1254-1100 Ma Unkar Group and Nankoweap Formation, Grand Canyon: Intracratonic deformation and basin formation during protracted Grenville orogenesis Timmons, M.J., Karlstrom, K.E., Heizler, M.T., Bowring, S.A., Gehrels, G.E., and Crossey, L.J. Geological Society of America Bulletin (submitted 12/03/03).

Dissected hydrologic system at Grand Canyon: interaction between upper world and lower world waters in modern springs and travertine

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Crossey, L.J., Fischer, T.P., Patchett, P.J., Karlstrom, K.E., Hilton, D.R., Huntoon, P., and Reynolds, A.C.

Geological Society of America Bulletin (submitted 12/03).

Middle-Late Pleistocene geomorphology and geochronology of eastern grand canyon: Unexpected linkages of landscape components during climate changes

Anders, M.A., Pederson, J.L., Rittenhour, T.M., Goble, R.J., Sharp, W.D., Gosse, J.C., Karlstrom, K.E., Crossey, L.J., and Finkel, R.C. submitted to GSA Bulletin.

Using fill terraces to understand incision rates and evolution of the Colorado River in eastern Grand canyon, Arizona Pederson, J.L., Anders, M.D., Rittenhour, T.M., Goble, R.J., Sharp, W.D., Gosse, J.C., Karlstrom, K.E., Crossey, L.J., and Finkel, R.C. submitted to Geology.

Wolfgang E. Elston, Emeritus Professor

Manuscripts in-press or submitted

Elston, W. E., 2004, in press, Erinnerungen an die Goldschmidt-Schule, Berlin-Grunewald, 1938-39 (Recollections of the Goldschmidt School, Berlin-Grunewald, 1938-39 in German): Jarhbuch für Germanistik, 2004, 12 p.

Elston, W. E., 2004, submitted, Berlin revisited: Aktuell, Berlin, 5 p.

Elston, W. E., 2004, submitted, GSA memories: 1948 and 1952: GSA Geotales, Geological Society of America, V. 2, 2 p.

Maya Elrick, Associate Professor

Manuscripts in preparation

Millennial-scale paleoclimate cycles recorded in widespread Paleozoic deep water carbonates of North America <u>Elrick, M.</u>, and Hinnov, L.A., (for Earth Science Reviews) High-resolution isotope stratigraphy and lithostratigraphy of the Cenomanian-Turonian (Late Cretaceous) boundary, southern Mexico <u>Elrick, M.</u>, and Molina-Garza, R. (for Cretaceous Research)

Y., U-Pb isotopic age dating of Devonian conodonts: A new method of dating Paleozoic marine sedimentary rocks? <u>Elrick, M.</u>, Getty, S., Ebert, J., and Asmerom, Y. (for Geology)

In review

 δ^{13} C composition of organic carbon and dolomites, lithostratigrahy, and mudrock petrology of the Neoproteroic Chuar Group (~770-742 Ma), Grand Canyon: Implications for pre-742 Ma climate chang

Dehler, C.M., <u>Elrick, M.</u>, Bloch, J.D., Crossey, L.J., Karlstrom, K.E., and Des Marais, D.J.

Geological Society of American Bulletin (reviews received January, 2004)

Peter J. Fawcett, Assistant Professor

Manuscripts in preparation

Late Pleistocene changes in atmospheric circulation and mountain glacier equilibrium line altitudes in the interior northwestern United States Meyer, G.A., <u>Fawcett, P.J.</u>, and Locke, W.W. in preparation for Quaternary Research (2004)

Holocene glacial climate reconstruction in the Sierra Nevada Mountains, California Scuderi, L.A. and <u>Fawcett, P.J.</u> in preparation for Quaternary Research (2004)

Paleolimnological record of late Quaternary climate change from Laguna El Fresnal, northern Mexico Castiglia, P.J.* and <u>Fawcett, P.J.</u> to be submitted to Quaternary Research (2004)

Sedimentology and stratigraphy of the Jurassic Morrison Formation in the Black Mesa region, NE Arizona <u>Fawcett, P.J.</u> to be submitted to New Mexico Geology

Journal Articles Submitted:

Large Holocene lakes and climate change in the Chihuahuan Desert Castiglia, P.J.* and <u>Fawcett, P.J.</u> submitted to Nature, December 2003.

Other Publications:

Late Pleistocene equilibrium-line altitudes, atmospheric circulation, and timing of mountain glacier advances in the interior NM United States, in Haller, K., and Wood, S.H., eds, Geological Meyer, G.A., <u>Fawcett, P.J.</u>, and Locke, W.W., Society of America Rocky Mountain-Cordilleran Sections Field Guide (in press)

Unsupported research projects

Climate-vegetation-landscape evolution in the late Pleistocene and Holocene, Black Mesa, Arizona region.

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Tobias Fischer, Assistant Professor

Peer-reviewed Journals

Tracing magma sources in an arc-arc collision zone: helium and carbon isotope and relative abundance systematics of the Sangihe Arc, Indonesia submitted to G-cubed (November 2003) Jaffe, L, Hilton, D.R., <u>Fischer, T.P.</u>, Hartorno, U Accepted in revised form February 2004, (in press).

Gas geochemistry of volcanic and hydrothermal fluids of Central America <u>Fischer, T.P.</u>, Shaw, A.M., Hilton, D.R. Submitted to edited book on Central America Geology (Nov. 6 2003, accepted Jan 22, 2004) (in press)

Volatiles in the sub-arc mantle: insights from volcanic and hydrothermal gas emissions <u>Fischer, T.P.</u> and Marty, B. JVGR, SOTA special issue (accepted 16 December 2003) (in press)

Nitrogen systematics and gas fluxes of subduction zones: insights from Costa Rica arc volatiles. Zimmer, M.M., <u>Fischer, T.P.</u>, Hilton, D.R., Alvarado, G., Walker, J.A. Accepted to G3 December 2003. Revised version accepted Jan 23, 04 (in press)

SO2 flux from Volcanoes of Northern Central America. Rodriguez, L., YK Branan, IM Watson, GJS Bluth, WI Rose, G Chigna, O Matias, A. Coy, SA Carn, and <u>T.P. Fischer</u> Submitted to JVGR (July 2003) Accepted with moderate revisions Nov. 2003 (in press)

Other research projects

The chemical and isotopic composition of hydrothermal gas discharges on Dominca, Lesser Antilles: implications for monitoring of volcanic activity. Supported in part by the Seismic Research Unity, University of West Indies. (November 2000-present). No papers submitted yet.

Volatile and N-isotopic chemistry of colliding island arcs: tracing source components along the Sangihe arc, Indonesia Clor, L.E., Fischer, T.P., Hilton, D.R., Sharp, Z.D., and Hatorno, U. Submitted to G3 December 4, 2003

John W. Geissman, Professor

Papers in press

Weil, A. B., J. Geissman, and R. Van der Voo, 2004, Paleomagnetism of the Neoproterozoic Chuar Group, Grand Canyon Supergroup, Arizona: Implications for and Laurentia's Neoproterozoic APWP and Rodinia break-up: Precambrian Research, v. 129, p. 71-92.

Geissman, J.W., Paleomagnetism in New Mexico, in Geology of New Mexico, New Mexico Bureau of Mines and Mineral Resources Publication, G. Mack, Editor

Petronis, M. S., Hacker, D. B., Holm, D. K., Geissman, J. W., and Harlan, S. S., Magmatic flow paths and paleomagnetism of the Miocene Stoddard Mountain Laccolith, Iron Axis region, southwest Utah, USA, Applications of Anisotropy of Magnetic Susceptibility in the Geosciences, Geological Society of London Special Volume Series.

Rampe, J. S., J.W. Geissman, M. Melker, and M.T. Heizler, Paleomagnetic and geochronologic data bearing on the timing and evolution of the Cripple Creek Diatreme complex and related rocks, Front Range of Colorado, in Karlstrom, K. and G.R. Keller, eds., AGU Monograph.

Petronis, M.S., Geissman, J.W., and McIntosh, W.C., Transitional Field Clusters from Upper Most Oligocene Volcanic Rocks in the Central Walker Lane, Western Nevada, Physics of the Earth and Planetary Interiors

Geissman, J.W., and S.S. Harlan, Paleomagnetism and rock magnetism of large sandstone pipes in the Middle Jurassic Summerville Formation near Mesita, west-central New Mexico, Journal of Geophysical Research

Geissman, J. W., 2004, Geomagnetic flip: Physics World, v. 17, p. 31-35.

Constructing a master PSV curve for western North America during the late Pleistocene: the paleomagnetic record from Lake Estancia, central New Mexico Rowe, H.D., Allen, B.D., Geissman, J.W., and Anderson, R.Y Quaternary Research, 1999.

Evolution of the Potrillo volcanic field, Rio Grande rift, southern New Mexico, U.S.A. Part I. Geochemistry, 3He surface exposure dating, and paleomagnetism. E.Y. Anthony, W. Chen*, W.J.W. Williams*, J. Poths, M.J. Whitelaw, J.W. Geissman, and M.A. Oimette*, 1999, Journal of Geophysical Research.

Manuscripts in review

Harlan, S. S., Premo, W. R., Unruh, D., and Geissman, J. W., 2004, Isotopic dating of middle and late Proterozoic mafic magmatism in the southern Tobacco Root Mountains, Montana: Precambrian Research, p. submitted.

Ferré, E.C., Zechmeister, M., Geissman, J.W. and MathanaSekaran, N.The origin of high magnetic remanence in fault pseudotachylites: theoretical considerations and implication for coseismic electrical currents: Tectonophysics Special Issue on Pseudotachylites.

Manuscripts in preparation

Geissman, J. W., Burchfiel, B.C., and Chen, L. Paleomagnetic data from Jurassic through lower Tertiary redbeds in western Yunnan, China: Testing spatial variability in large-magnitude intracontinental deformation, Geology

Harlan, S.S., and Geissman, J.W., Paleomagnetism of the mid-Cenozoic Espinaso Formation and related rocks, central New Mexico and its bearing on crustal rotation within the Rio Grande rift.

Ashby, J. M., Geissman, J.W., and Weil, A.B., Paleomagnetism of the Neoproproterozoic Uinta Mountain Supergroup, northeast Utah and northwest Colorado (USA) and implications for SW Laurentia during Rodinia dispersal, Utah Geological Society Special Volume.

DePaolo, D.J., Geissman, J.W., Perry, F. V., McFadden, L.D., Wells, S.G., Crowe, B.M., and others? "Lathrop Wells volcanic center: geology, geomorphology, and paleomagnetism" (title approximate), Geological Society of America Bulletin.

Petronis, M. S., Geissman, J. W., Oldow, J. S., McIntosh, W. C., and others, Tectonism of the southwest Silver Peak Range, central Walker Lane, Paleomagnetic, Ar/Ar, and U/Pb data bearing on the exhumation history of the footwall to a regionally extensive detachment system in the Walker Lane, Geological Society of America Special Paper.

Snow, J.K., J.W. Geissman, and B.P. Wernicke Age and paleomagnetism of contractile structures in the Cottonwood Mountains, Death Valley area, southeast California, Elsevier, Earth Science Reviews, Wright/Troxel volume.

Geissman, J.W., Harlan, S.S., Feig, A.D., Paleomagnetism of the Mesoproterozoic Pikes Peak batholith, southern Front Range, Colorado, *Precambrian Research*.

On the paleomagnetic signature of crystalline crust in extensional terranes. J.W. Geissman intended for Tectonics

Paleomagnetic data from the Hoover Dam area document approximately 45 degrees of counterclockwise rotation related to slip along the Lake Mead Fault System. J.W. Geissman intended for Tectonics

Applications of Paleomagnetism in the Basin and Range province, western U.S.A., and relevance to models for crustal extension. J.W. Geissman intended for Reviews of Geophysics (invited).

An example of interacting magnetite grains carrying a MesoProterozoic magnetization, Laramie Anorthsite Complex, Wyoming, J.W. Geissman and S.S. Harlan intended for Geophysical Research Letters

Paleomagnetism of the Latest Archean Stillwater Complex, Beartooth Mountains, southern Montana. J.W. Geissman intended for Journal of Geophysical Research

Paleomagnetism and geochronology of Proterozoic mafic dikes, southern Tobacco Root Mountains, southwestern Montana. S.S. Harlan, J.W. Geissman, L.W. Snee intended for Journal of Geophysical Research

Tectonic significance of widespread late Paleozoic remagnetization of the western North America Miogeocline and platform. J.W. Geissman and Nesbitt, B.E. intended for Geology

Paleomagnetism and rock magnetism of late Miocene intrusions, Paiute Ridge, Nevada. C.D. Ratcliff, J.W. Geissman, F.V. Perry, B.M. Crowe, and P. Zeitler intended for Journal of Geophysical Research.

Partial late Paleozoic remagnetization of the Cambro-Ordovician Ignacio Formation, southwest San Juan Mountains, Colorado. J.W. Geissman inteded for Geophysical Research Letters.

Paleomagnetism of mafic dikes in the Roberts Mountains and Cortez Range, Nevada: Implications for structural history of the northern Nevada rift. J.W. Geissman, G.A. Acton, and M. Schneider* intended for Tectonics. The rock magnetic record of silicic magma emplacement, Obidian Domes, California. J.W. Geissman, J.C., Eichelberger, S.S. Harlan, and C. McCabe intended for Journal of Geophysical Research

Paleomagnetic and thermochronologic evidence for footwall tilt during extensional core complex development, Mineral Mountains, central Utah. D.S. Coleman, J.W. Geissman, J. D.Walker, J.M. Bartley, and K.V. Hodges intended for Geological Society of America Special Paper, invited.

Paleomagnetic results from Cenozoic volcanic rocks in the Walker Lane area, west-central Nevada, and their bearing on mechanics of Basin and Range extension. J.T. Callian*, J.W. Geissman, J.S. Oldow, and R.F. Hardyman.

Further paleomagnetic results from Mesozoic plutons of the Walker Lane area, west-central Nevada, and tectonic implications. J.W. Geissman, J.T. Callian* and J.S. Oldow Tectonophysics.

Paleomagnetism of the Jurassic Humboldt Lopolith, west-central Nevada: Results from extrusive equivalent metavolcanic rocks. M.R. Hudson and J.W. Geissman Geol, Soc. Amer. Bull.

Paleomagnetic and rock magnetic data from plagioclase -- olivine cumulate rocks of the Banded Series, Stillwater Complex, Montana, and their bearing on the age of regional serpentinization and nature of platinum-group element mineralization. J. Saxton and J.W. Geissman Econ, Geol.

Proposals in review

Integrated Stratigraphic, Geomorphic, Sedimentologic, Numeric, and Experimental Study of Hanging Wall Ramp Architecture in Continental Half Grabens Gary Smith and John Geissman National Science Foundation, EAR, Geology and Paleontology \$147,210 (request, three years) (note: funded in early January, 2004)

Improving Laurentia's Neoproterozoic apparent polar wander path and our understanding of global paleogeography through the Rodinia lifecycle National Science Foundation, EAR, Tectonics J. W. Geissman \$89,524 (UNM component, three years), with Arlo Weil at Bryn Mawr College

Lithostratigraphy, Biostratigraphy and Magnetostratigraphy of the Upper Triassic Chinle Group, Chama Basin, New Mexico: How Stratigraphically Complete is the Chinle Group? J.W. Geissman and Spencer Lucas National Science Foundation, EAR, Geology and Paleontology \$128, 613 (request, three years) (note: resubmitted in early January, 2004)

Lithostratigraphy, Biostratigraphy and Magnetostratigraphy of the Upper Triassic Chinle Group, Chama Basin, New Mexico: How Stratigraphically Complete is the Chinle Group? J. W. Geissman and Spencer Lucas American Chemical Society, Petroleum Research Fund \$120,000 (request, three years) (note, submitted in January, 2004)

Unsuccessful proposals for grants

Lithostratigraphy, Biostratigraphy and Magnetostratigraphy of the Upper Triassic Chinle Group, Chama Basin, North-Central New Mexico J.W. Geissman and Spencer Lucas National Science Foundation, Geology and Paleontology \$127,504 (request, three years)

Application of Field and Paleomagnetic Investigations of Magma Sheets to Understanding Pluton Emplacement and Deformation J.W. Geissman National Science Foundation, EAR, Tectonics \$127,511 (UNM component, request for three years) (based on reviews, will be resubmitted in for June 1 2004 deadline)

Non-sponsored research:

"Generic" paleomagnetic and rock magnetic investigations of: Cenozoic volcanic rocks (Arizona, Nevada, California, New Mexico) Lower Paleozoic plutons (New Mexico, Colorado) Mesozoic sedimentary rocks (New Mexico, Colorado, West Texas, Nevada) Paleozoic sedimentary rocks (Nevada, New Mexico, Colorado, Utah) Cenozoic intrusions (Utah, Nevada, New Mexico) Mesozoic intrusions (Nevada, Colorado, California)

Other creative work

Geissman, J. W., and Channell, J. E. T., 2003, Chapman conference on time scales of the geomagnetic field: Eos, Transactions of the American Geophysical Union, v. 84, p. 340,344.

David Gutzler, Professor

Manuscripts in progress [*student co-authors]

Geomorphic response to seasonal variations in rainfall in Southwest North America D. Etheredge*, D.S. Gutzler and F.J. Pazzaglia GSA Bulletin, in press. (scheduled to appear May 2004)

Application of NDVI data to characterize seasonal and interannual variability of vegetation communities in Central New Mexico, U.S.A.

J. Weiss*, D.S. Gutzler, J.A. Coonrod and C.N. Dahm

J. Arid Environments, in press. (scheduled to appear Mar 2004)

Seasonal and interannual relationships between vegetation and climate in Central New Mexico, U.S.A. J. Weiss*, D.S. Gutzler, J.A. Coonrod and C.N. Dahm J. Arid Environments, in press. (scheduled to appear Mar 2004)

Temperature and precipitation patterns associated with the 1950s drought in the U.S. Southwest H.F. Diaz and D.S. Gutzler

In "The 1950s drought in the American Southwest: Hydrological, Ecological and Socioeconomic Impacts", to be published by U. Arizona Press, J. Betancourt and H.F. Diaz, editors (book scheduled to appear Autumn 2004)

Review of Ecological Climatology D.S. Gutzler Natural Resources Journal, in press,

An index of interannual precipitation variability in the core of the North American monsoon region D.S. Gutzler

J. Climate, submitted for publication Sep 03 (in review).

Karl E. Karlstrom, Professor

Geologic Maps

Baer, S., Karlstrom, K.E., Bauer, P., and Connell, S.D., 2003, Geology of the Manzano Peak 7.5-Minute Quadrangle, Torrance and Valencia Counties, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Report OFDM-XX, May, 2003.

Timmons, J.M., Karlstrom, K.E., Pederson, J. Geologic map of Eastern Grand Canyon (Chuar Valley and Furnace Flats area) at 1:24,000 scale, in prep for 2004 publication.

Other quadrangle maps in progress for the New Mexico Statemap effort are: La Jolla, Ojo Caliente, Becker, Scholle. Each of these are in the first year of 2-year projects, with funding to pay students and field costs

NSF Proposals submitted in 2002

ISE- 0407209: The Trail of Time: Informal Science Education initiative at Grand Canyon: NSF Informal Education Program, proposal submitted Nov. 17, 2003, 1 month per year (2004 to 2007), \$752,664 requested; PIs K. Karlstrom and L. Crossey

Pending Collaborative research: Evolution of continental lithosphere and geodynamics of the Rocky Mountain region from the Proterozoic to Present: NSF Continental Dynamics Program, 06/01/04 to 05/31/ 07, \$255,000 requested for UNM, 1 month per year (2004 to 2006), \$2.7 million requested overall for the collaborative effort.

Pending Collaborative research: Quaternary basalts in Grand Canyon: Ar-Ar dating, geochemical correlation, and neotectonics studies, NSF Tectonics Program, \$91,022 (07/01/04 to 06/30/06), Grand Canyon, 0.5 mo in 2004 and 2005.

Articles in press for refereed journals (* = graduate student, ** = undergraduate student).

Kelley, S.A., Chapin, C.E., and Karlstrom, K.E., 2004, Laramide cooling histories of the Grand Canyon, Arizona, and the Front Range, Colorado, determined from apatite fission-track thermochronology, in Young, R.A., and Spamer, E.E., eds., The Colorado River: Origin and evolution: Grand Canyon, Arizona, Grand Canyon Association Monograph 12 (in press).

Pederson, J., and Karlstrom, K.E. 2004, Relating differential incision of Grand Canyon to slip along the Hurricane-Toroweap fault system, in Young, R.A., and Spamer, E.E., eds., The Colorado River: Origin and evolution: Grand Canyon, Arizona, Grand Canyon Association Monograph 12 (in press).

Karlstrom, K.E., and Williams, M.L., 2004, Nature of the middle crust - erogeneity of structure and process due to pluton-enhanced tectonism: an example from Proterozoic rocks of the North American Southwest, in Brown, M., and Rushmere, T., eds., Evolution and differentiation of the continental crust: Cambridge University Press (in press for 2004).

Levander, A., Lenardic, A., and Karlstrom, K.E., 2004, Structure of the continental crust, in Brown, M., and Rushmere, T., eds., Evolution and differentiation of the continental crust: Cambridge University Press: Cambridge University Press (in press for 2004).

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Karlstrom, K.E., Amato, J.M., Williams, M.L., Heizler, M., Shaw, C., Read, A. S., and Bauer, P., 2004, Proterozoic tectonic evolution of the New Mexico region: a synthesis, in Geology of New Mexico: New Mexico Geological Society 50th anniversary volume, in press for 2004.

Magnani, M.B., Miller, K.M., Levander, A., Karlstrom, K.E., 2004, The Yavapai-Mazatzal boundary: A long-lived assembly structure in the lithosphere of southwestern North America: Geological Society of America Bulletin (in press for 2004).

Dehler, C.M., Elrick, M.E., Bloch, J.D., Crossey, L.J., Karlstrom, K.E., and Des Marais, D.J., 2004, δ^{13} composition of organic carbon and dolomites, lithostratigraphy, and mudrock petrology of the Neoproterozoic Chuar Group (~770-742 Ma), Grand Canyon: Implications for pre-742 Ma climate change: in press for Geological Society of America Bulletin.

I am co-editor for an American Geophysical Union Monograph that will be published in 2004, and am coauthor of 9 papers for it.

Karlstrom, K.E., and Keller, G.R., 2004, Lithospheric structure and evolution of the Rocky Mountain region: American Geophysical Union Monograph, in press.

Jessup, M.J., Karlstrom, K.E., Connelly, J., Williams, M.L., Livaccari, R., Tyson, A., and Rogers, S.A., 2004, Complex Proterozoic crustal assembly of southwestern North America in an arcuate subduction system: The Black Canyon of the Gunnison, southwestern Colorado, in Karlstrom, K.E., and Keller, G.R., eds.: Lithospheric structure and evolution of the Rocky Mountain region: American Geophysical Union Monograph, in press.

McCoy, A., Karlstrom, K.E, Williams, M.L., and Shaw, C.A., in press, Proterozoic ancestry of the Colorado mineral belt: ca. 1.4 Ga shear zone system in central Colorado, in Karlstrom, K.E., and Keller, G.R., eds., Lithospheric structure and evolution of the Rocky Mountain region: American Geophysical Union Monograph, in press.

Morozova, E., Wan, X. Chamberlain, K., Smithson, S. Johnson, R., and Karlstrom, K.E., 2004, Inter-wedging nature of the Cheyenne belt - Archean-Proterozoic suture from seismic reflection data in Karlstrom, K.E., and Keller, G.R., eds., Lithospheric structure and evolution of the Rocky Mountain region: American Geophysical Union Monograph, in press.

Keller, G.R., Karlstrom, K.E., Williams, M.L., Miller, K.C., Andronicos, C, Levander, A. Snelson, C, and Prodehl, C., 2004, The dynamic nature of the continental crust-mantle boundary: Crustal evolution in the Southern Rocky Mountain region as an example, in Karlstrom, K.E., and Keller, G.R., eds., Lithospheric structure and evolution of the Rocky Mountain region: American Geophysical Union Monograph, in press.

Karlstrom, K.E., et al., 2004, Hypothesis for the development of deep lithospheric structure of the Rocky Mountains, in Karlstrom, K.E., and Keller, G.R., eds., Lithospheric structure and evolution of the Rocky Mountain region: American Geophysical Union Monograph, in press.

Magnani, M.B., Levander, A., Miller, K.M., Eshete, T., Karlstrom, K.E., 2004, Seismic investigations target the Yavapai-Mazatzal Transition Zone and the Jemez Lineament, in Karlstrom, K.E., and Keller, G.R., eds., Lithospheric structure and evolution of the Rocky Mountains: American Geophysical Union Monograph, in press.

Magnani, B., Levander, A.R., Erslev, E.A., Bolay-Koenig, N., and Karlstrom, K.E., 2004, Listric thrust faulting in the Laramide from north-central New Mexico guided by Precambrian basement anisotropies in Karlstrom, K.E., and Keller, G.R., eds., Lithospheric structure and evolution of the Rocky Mountains: American Geophysical Union Monograph, in press.

Shaw, C.A., Karlstrom, K.E., and Heizler, M.T., 2004, Mid-crustal temperatures during ca. 1.4 Ga metamorphism in the southwestern United States: A regional synthesis of 40Ar/39Ar data, in Karlstrom, K.E., and Keller, G.R., eds., Lithospheric structure and evolution of the Rocky Mountains: American Geophysical Union Monograph, in press.

Papers in preparation

Timmons, J.M., Karlstrom, K.E., Heizler, M., Bowring, S.A., and Crossey, L.C., 2004, Tectonic inferences from the 1254- ~1100 Ma Unkar Group and Nankoweap Formation, Grand Canyon: Intracratonic deformation and basin formation during protracted Grenville orogenesis: submitted to GSA Bulletin, November, 2003.

Jessup, M.J., Karlstrom, K.E., Williams, M., Connelly, J., Jones, J., Heizler, M., 2004, Timing of Proterozoic Metamorphism and Deformation in the Black Canyon of the Gunnison, Colorado, GSA Bulletin, Submitted and under revision

Crossey, L.J., Fischer, T.P., Patchett, P.J., Karlstrom, K.E., Hilton, D.R., Huntoon, P., and Reynolds, A.C., 2004, Dissected hydrologic system at Grand Canyon: interaction between upper world and lower world waters in modern springs and travertine: submitted to Geological Society of America Bulletin.

Anders, M.A., Pederson, J.L., Rittenhour, T.M., Goble, R.J., Sharp, W.D., Gosse, J.C., Karlstrom, K.E., Crossey, L.J., and Finkel, R.C., 2004, Middle-Late Pleistocene geomorphology and geochronology of eastern grand canyon: Unexpected linkages of landscape components during climate changes: submitted to GSA Bulletin.

Pederson, J.L., Anders, M.D., Rittenhour, T.M., Goble, R.J., Sharp, W.D., Gosse, J.C., Karlstrom, K.E., Crossey, L.J., and Finkel, R.C., 2004, Using fill terraces to understand incision rates and evolution of the Colorado River in eastern Grand Canyon, Arizona, submitted to Geology

Barry S. Kues, Professor

Manuscripts in press

A Late Permian Chinese gastropod species, possibly larval, in the Middle Pennsylvanian of New Mexico, USA <u>B.S. Kues</u>, R.L. Batten, D.H. Erwin, and P. Hua-Zhang Journal of Paleontology, v. 78

Middle Cretaceous stratigraphy of the southern margin, Western Interior Basin, Northeastern New Mexico and western Oklahoma R.W. Scott, J. Holbrook, <u>B.S. Kues</u> et al. The Mountain Geologist, April, 2004 issue

Stratigraphy and brachiopod and molluscan paleontology of the Red Tanks Formation, Carrizo Arroyo, <u>Sierra Lucero, west-central New Mexico</u> <u>B.S. Kues</u> N.M. Museum of Natural History and Science, Bulletin 26 Invertebrate fossils from the type sections of the Gray Mesa and Atrasado Formations (Middle to Upper Pennsylvanian), Lucero uplift, west-central New Mexico <u>B.S. Kues</u> N.M. Museum of Natural History and Science, Bulletin 26

Late Pennsylvanian (Virgilian) fusulinaceans from the upper Atrasado and lower Red Tanks Formations, Carrizo Arroyo, Sierra Lucero, central New Mexico G.P. Wahlman and <u>B.S. Kues</u> N.M. Museum of natural History and Science, Bulletin 26

The Devonian System in New Mexico <u>B.S. Kues</u> New Mexico Geological Society, Special Publication, The Geology of New Mexico

The late Paleozoic Ancestral Rocky Mountains System in New Mexico <u>B.S. Kues</u> and K.A. Giles New Mexico Geological Society Special Publication, The Geology of New Mexico

Paleontology of the upper Flechado Formation near Talpa, north-central New Mexico <u>B.S. Kues</u> New Mexico Geological Society, Guidebook 55

Third-day road log, from Taos to.... P. Bauer, A. Read, <u>B.S. Kues</u>, et al. New Mexico Geological Society, Guidebook 55

Manuscripts in Revision

Upper Cretaceous (Turonian) decapod crustaceans from central New Mexico E. K. Toolson and <u>B.S. Kues</u> Journal of Paleontology

Manuscripts in Review

Pennsylvanian trilobites from the Sangre de Cristo and Jemez Mountains, north-Central New Mexico <u>B.S. Kues</u> New Mexico Geological Society, Guidebook 55

A case of nautiloid-scaphopod homeomorphy in the late Paleozoic of the United States <u>B.S. Kues</u>, E.Y. Yochelson, and R. Mapes Lethaia

Manuscripts in Preparation

Stratigraphy and paleontology of the upper part of the Alamitos Formation (Pennsylvanian, Virgilian), Gallinas River Valley, north-central New Mexico K. Krainer, S.G. Lucas, and <u>B.S. Kues</u> New Mexico Geological Society, Guidebook 55

Late Pennsylvanian (Virgilian) marine invertebrate assemblages from the Holder Formation, Dry Canyon, Sacramento Mountains, New Mexico <u>B.S. Kues</u> For New Mexico Geology Stratigraphy and paleontology of Middle Pennsylvanian strata in Chaves Box, Rio Arriba County, northern New Mexico K. Krainer, S.G. Lucas, and <u>B.S. Kues</u>

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Micromolluscs from the Madera Group (Upper Pennsylvanian), Jemez Springs Area, New Mexico <u>B. S. Kues</u> and T. Yancey For Journal of Paleontology

Middle Pennsylvanian bivalves from the Flechado Formation, north-central New Mexico <u>B. S. Kues</u> For Journal of Paleontology

Catalogue and bibliography of New Mexico invertebrate and plant fossils <u>B. S. Kues</u> For New Mexico Museum of Natural History Bulletin

Other research

Continuing studies of Pennsylvanian-Permian strata and paleontology in NM; study of a Lower Permian brittle star from the Hueco Fm.

Grant A. Meyer, Assistant Professor

Publications in press

Meyer, G.A., 2004 (in press), Yellowstone fires and the physical landscape, in Wallace, L.L., ed., After the Fires: Over a decade of research on the Yellowstone Fires: Yale University Press.

Meyer, G.A., Fawcett, P.F., and Locke, W.W., 2004 (in press), Late-Pleistocene equilibrium-line altitudes, atmospheric circulation, and timing of mountain glacier advances in the interior northwestern United States, in Haller, K., and Wood, S.H., eds., Geological Society of America Rocky Mountain-Cordilleran Sections Field Guide: U.S. Geological Survey Open-file Report.

Pierce, J.L., Meyer, G.A., Thackray, G.D., Wood, S.H., Lundeen, K., and Rothwell, E., 2004 (in press), Fire and ice in central Idaho: modern and Holocene fires, debris flows, and climate in the Payette River Basin, and Quaternary and glacial geology in the Sawtooth Mountains, in Haller, K., and Wood, S.H., eds., Geological Society of America Rocky Mountain-Cordilleran Sections Field Guide: U.S. Geological Survey Open-file Report.

Papers in Preparation or Review:

Pierce, K.L., Cannon, K.P., Meyer, G.A., Trebesch, M.J., and Watts, R. (in review) Post-glacial inflation-deflation cycles, tilting, and faulting in the Yellowstone caldera based on Yellowstone Lake shorelines: U.S. Geological Survey Professional Paper.

Pierce, J.L., Meyer, G.A., and Jull, A.J.T., (submitted, declined for review) Fires, erosion, and millennial-scale climate change in a Rocky Mountain ponderosa pine forest: Science.

Pierce, J.L., Meyer, G.A., and Jull, A.J.T., (submitted) Fire-induced erosion and millennial-scale climate change in northern ponderosa pine forests: Nature.

Meyer, G.A., Fawcett, P.J., and Locke, W.W., Late Pleistocene mountain glacier equilibrium line altitudes and changes in atmospheric circulation in the interior northwestern United States: in preparation for Quaternary Research.

Leslie D. McFadden, Chair and Professor

Manuscripts in press or accepted for publication in refereed publications

Inorganic carbon modeling; McFadden, L.D. and Amundson, R., Encyclopedia of Soil Science, New York, NY, Marcel Dekker, Inc., p. 718-721, 2002.

Manuscripts Submitted or in Review

Physical weathering in arid landscapes due to diurnal variation in the direction of solar heating; McFadden, L.D., Eppes, M.C., Gillespie, A.R. and Hallet, B., Geological Society of America Bulletin

Manuscripts in Preparation

Geochronology of a small volume basaltic eruption center near Yucca Mountain, Nevada; DePaolo to be submitted to the Journal of Geophysical Research).

Tree-ring record of hillslope erosion and valley floor dynamics: Landscape responses to climate variation during the last 400 Years in the Colorado Plateau, northeastern Arizona; Joseph R. McAuliffe, Louis A. Scuderi and Leslie D. McFadden (to be submitted to *Global and Planetary Change*).

Mousumi Roy, Assistant Professor

Papers in preparation

Roy. M. and R. Clayton, Constraints on crust and mantle structure beneath the San Gabriel Mountains, California, derived from gravity and seismic data, Journal of Geophysical Research, submitted in 2000, in review 2000-2002, to be resubmitted with additional data and analysis, 2004.

Pazzaglia F., Selverstone J. Roy. M. and 3 others, Geomorphic expression of extension in convergent orogens, near submission, 2004.

Proposals submitted to funding agencies in 2003

Acquisition of computers and support for geodynamic modeling within an existing shared UNIX facility, Funded by the National Science Foundation, EAR-Instrumentation and Facilities Program, PI: <u>M. Roy</u> (Jan 15, 2004-Dec 31, 2005; Total award: \$42,750 plus \$18,689 cost-match from PI start-up; IDC: \$2525) – successful

Collaborative Research: Exhumation of the Colorado Plateau - Spatial and Temporal Distribution and Implications for Landscape Evolution, submitted to the National Science Foundation, December 2003, co-PI: S. Kelley, D. Stockli, <u>M. Roy</u>, and J. Pederson (Proposed dates: 2004-2006; \$47,034 to MR; IDC; \$15,678); in review

NSF – Earthscope; Geodetic determination of the Eastern Terminus of the Pacific-North America Plate boundary zone (GET-PB); (co-PI: M. Roy, with 4 others) \$38,089 to MR – *unsuccessful*

Research in progress

Thermal evolution of partially-stabilized continental tectosphere: Applications to the Tertiary tectonics of the Colorado Plateau, work in progress (with T. Jordan (USC)).

River incision: Models of accompanying deformation in an elastic and viscoelastic crust, estimated completion, August 2004 – Plan to develop into collaboration with J. Roering (University of Oregon).

Gravity, seismic, and xenolith constraints on crust and mantle structure of the Jemez Lineament and Colorado Plateau (Jon MacCarthy, MS Thesis work and collaboration with J. Selverstone and A. Brearley at UNM)

Geodynamic implications of voluminous mid-Tertiary magmatism in the Colorado Plateau region and Sierra Madre Occidental, Mexico (collaboration with S. Kelley (NM Tech), J. Aranda (and others at CICESE, Mexico))

Interaction of flexure and faulting during continental rifting, with applications to the Rio Grande Rift in northern New Mexico and southern Colorado. Preliminary findings reported at the Geological Society of America Meetings (2001, 2002), and American Geophysical Union Meeting (2003). Ongoing collaboration with Gary Smith (UNM); a co-authored manuscript is planned with potentially a grant proposal to follow.

Focused investigation of the New Mexico seismicity and updating of the state earthquake catalog using real-time data from the USGS Earthworm stations – in progress with B. Hutt, Albuquerque Seismological Laboratory, and R. Aster, NMT, 2002-present.

Louis Scuderi, Associate Professor

Research in progress

Holocene glacial climate reconstruction in the Sierra Nevada mountains using multiple techniques. UNM, LRAC, \$7,450, 2002-2003.

Jane Selverstone, Professor

Manuscripts in press

Barnes, J.D.*, <u>Selverstone, J.</u>, and Sharp, Z.D., 2004. Interactions between serpentinite devolatilization, metasomatism, and strike-slip strain localization during deep-crustal shearing in the Eastern Alps. Journal of Metamorphic Geology.

Manuscripts in review

Selverstone, J., in review. Fluid compositional control on deep-crustal embrittlement. Science.

<u>Selverstone</u>, J., in review. Progressive metamorphism of pelitic rocks – A lab assignment to facilitate translation from AFM space to P-T space. NSF-NAGT book on Teaching Petrology.

Pazzaglia, F.J., <u>Selverstone</u>, J., Roy, M., Newland, S.*, Knipsher, W.*, and Pearce, J.*, Geomorphic expression of extension in convergent orogens. To be submitted to Tectonics, Feb. '04.

Steffen, K.* and <u>Selverstone, J.</u>, in prep. The influence of deformation mechanisms on calculated pressures and temperatures in plagioclase-bearing metamorphic rocks. To be submitted to special issue of Journal of Metamorphic Geology, spring '04.

Manuscripts in press

Relating small-scale permeability heterogeneity to lithofacies distribution M.N. Gaud*, G.A. Smith, S.A.McKenna Aquifer characterization, John Gridge and David Hyndman, editors SEPM (Society for Sedimentary Geology) Special Publication 80. (naper accepted Feb, 2003, proofs returned, publications expected mid 2004).

Sensitivity of groundwater flow patterns to parameterization of object-based models of fluvial aquifers

S.a. McKenna and G.A. Smith Aquifer Characterization, John ridge and David Hyndman, editor SEPM (Society for Sedimentary Geology) Special Publication 80. (paper accepted Feb, 2003, proofs returned, publications expected mid 2004).

Middle to late Cenozoic Development of the Rio Grande Rift and adjacent regions in northern New Mexico G.A. Smith Geology of New Mexico, G. Mack, K. Giles and V. Lueth, editors Special Publication, New Mwexico Geological Society (paper accepted May 2002, proofs returned, publication expected 2004).

Geologic map of the Bend 30' x 60' quadrangle, central Oregon D.R. Sherrod, E.M. Taylor, M.L. Ferns, W.E. Scott, R.M. Conrey and G. Smith U.S. Geological Survey Geologic Investigations Map I-2683, scale 1:100,000 (proofs returned, publication expected late 2004).

Geologic map of the Squawback Ridge quadrange, Deschutes and Jefferson Countries Oregon M.L. Ferns, D.E. Stensland, and G.A. Smith Oregon Department of Geology and Mineral Industries Geologic Map Series, scale 1:24,000. (accepted 2002, proofs returned, holding in publication queue).

Geologic map of the Opal City quadrangle, Jefferson County, Oregon G.A. Smith and M.L. Ferns Oregon Department of Geology and Mineral Industries Geologic Map Series, scale 1:24,000. (accepted 2002, proofs returned, holding in publication queue).

Manuscripts submitted or in review

The Cerrillos uplift, the La Bajada construction, and hydrogeologic connection between the Espanola and Santo Domingo basins of the Rio Grande rift, New Mexico D.A. Sayer, B.D. Rodquez, V.J.S. Grauch, S.A. Minor, M. Descz-Pan, R.A. Thompson, D.P. Dethier and G.A. Smith U.S. Geological Survey Professional Paper

Manuscripts in preparation:

How does the Earth Work <u>G.A. Smith</u> and A. Pun** Prentice-Hall Incorporated (textbook contract – publication date: December 20, 2004) 526 ms pages completed in 2003 and submitted for review. Improving interpretation of lithologic indicator variograms M.N. Gaud*, S.A. McKenna, and <u>G.A. Smith</u> To be submitted to Mathematical Geology

Sequential downstream integration of the Rio Grande through adjacent rift basins Sean Connell* and <u>G.A. Smith</u> To be submitted to Geology

Geologic map of the Truchas quadrangle, Santa Fe, Rio Arriva, and Taos Countries, New Mexico <u>G.A. Smith</u>, J.M. Timmons*, and M.N. Gaud* New Mexico Bureau of Geology and Mineral Resources, Open-Fiel Digital Map Series, 1:24,000

Geolgic map of the Canada quadrangle, Sandoval County, New Mexico <u>G.A. Smith</u>, S.M. Lynch, A.J. Kuhle New Mexico Bureau of Geology and Mineral Resources, Open-File Digital Map Series, 1:24:000

Geology of the Kasha-katuwe Tent Rock National Monument, Sandoval County, New Mexico <u>G.A. Smith</u> Invited for submission to New Mexico Geology

Sedimentology of a volcaniclastic alluvial fan, Eocene-Oligocene Espinaso Formation, New Mexico S.B. Taylor, <u>G.A. Smith</u> and D. Larsen To be submitted to Journal of Sedimentary Research

Unsupported Research Projects

Tectonic and sedimentation of the transition from Laramide compression to Neogene extension in northern New Mexico

Stratigraphic and structural evidence for the rupture of hanging-wall hinge zones, San Luis and Espanola basin, Rio Grande Rift, New Mexico.

5. ACTIVITIES IN PROFESSIONAL SOCIETIES

Carl Agee, Professor and Director, Institute of Meteoritics

Professional meetings attended

Invited Speaker at the Intertnational Workshop on High-pressure Mineral Physics and Geochemistry, Spring-8, Japan.

Invited Speaker at Los Alamos National Laboratory, December 16, 2003.

Attended the annual meeting of COMPRES as UNM's representative, Lake Tahoe CA, June 19-22, 2004.

Attended the Mars Exploration Program Analysis Group meeting at Monrovia CA, June 30-July 2, 2004.

Yemane Asmerom, Associate Professor

Professional meetings attended

Goldschmidt 2003 Conference, Japan Fall AGU, San Francisco

Adrian Brearley, Associate Professor

Professional meetings attended

34th Lunar and Planetary Science Conference, Houston, Texas, 17-21 March, 2003 Meteoritical Society Meeting, Muenster, Germany, July 28- Aug 1, 2003

Talks presented

34th Lunar and Planetary Science Conference, Houston, Texas, 17-21 March, 2003

Session Chair

Presented talk, "Nanophase, low-Ni metal grains in fine-grained rims in the Murchison CM2 Chondrite: Insights into the survival of metal grains during aqueous alteration."

Coauthored talk with Neyda Abreu "HRTEM and EFTEM Observations of Matrix in the Oxidized CV3 Chondrite ALH 84028: Implications for the Origins of Matrix Olivines."

Coauthored talk with Lysa Chizmadia "Mineralogy and Textural Characteristics of Fine-Grained Rims in the Yamato 791198 CM2 Carbonaceous Chondrite: Constrains on the Location of Aqueous Alteration."

Coauthored talk with Jeff Grossman "Cryptic Metamorphic effects in Chondrules from Highly Unequilibrated Ordinary Chondrites: An Insidious Parent-Body Process." Meteoritical Society Meeting, Muenster, Germany, 28-1 Aug 2003 Session Chair Presented talk: "Nanophase iron carbides in the Murchison CM2 carbonaceous chondrite: Possible relicts of nebular Fischer-Tropsch catalysis in Fe,Ni metal grains."

Coauthored talk with Lysa Chizmadia "Insights into Fe,Ni metal survival in the hydrated Fine-grained rims in the Y-791198 CM2 carbonaceous chondrite."

Society committees

Associate Editor, American Mineralogist (1994-2003) Associate Editor, mineralogical Magazine (1998-2004) Councilor, Meteoritical Society (2000-2004) Member, Mineralogical Society Nominations Committee (2003)

Michael E. Campana, Professor

Invited Talks Presented

Groundwater Quality – Arsenic and Fluoride, Third World Water Forum, Kyoto, Japan, March 2003.

Professional Activities

Chair, Association of Ground-Water Scientists and Engineers Vice President and Member, Board of Directors, National Ground Water Association Guest Editor, Transboundary Ground-Water Resources Special Issue, J. of Ground Water Board of Directors, Universities Council on Water Resources Third World Water Forum, Groundwater Sessions, Kyoto-Osaka, Japan, March 2003

Laura J. Crossey, Professor

Meetings attended/Talks Presented/Field Trips

January 4-8 - Death Valley research trip, with students January 15-16 - Trail of Time meeting with superintendent at Grand Canyon January 20 - Field trip to Riley Travertines, NM February 15-16 – Mount Taylor Quadrathalon March 16-22 - Colorado River research trip. March 24 - Albuquerque Gem & Mineral Club talk: The Trail of Time at Grand Canyon (at MNHS) April 18 - Four Corners Geological Society invited talk, Durango, CO May 3- Undergraduate Research symposium May 8-11-GSA Rocky Mountain section meeting in Durango May 11-13 - Annual AAPG meeting in Salt Lake City May 13 - Core sampling of Mesoproterozoic sedimentary cores from the core repository in Salt Lake City May 21-22 - New Mexico EarthScope meeting at the Sevilleta LTER Field Station; xenowhiffs May 18-Jun 8 – EPS 319L- Field Camp (2 of 3 weeks) June 9-July 2 - EPS 420/520- Advanced summer field camp. (2 of three weeks) July 23-24 - Earthscope in the National Parks: workshop, Denver, CO. Organized with Michelle Hall July 13-15 - Great Desert Teacher training workshop, Grand Canyon August 3 - Tucson trip to look at cores of Mesoproterozoic rocks

August 6 – Water Quality meeting, New Mexico Tech. September 8-20 – Colorado River research trip October 15 – Northern Arizona University, Invited Lecture, Flagstaff, AZ November 2-7 – National GSA meeting in Seattle November 13 – New Mexico Tech, Invited Lecture, Socorro, NM November 21 – Northwestern University, Invited Lecture, Evanston, IL

Society committees

American Association of Petroleum Geologists, Membership Committee (since 1989) Association for Women Geoscientists (lecturer (since 1989)) Society for Sedimentary Geology, Council Member (2000-2003)

Maya Elrick, Associate Professor

Invited talks

Paleoceanographic changes in the mid-Cretaceous recorded in carbonates of southern Mexico, Idaho State University, Oct. 2003.

Millennial-scale paleoclimate cycles recorded in widespread Paleozoic deep water carbonates of North America, Pomona College, CA, Dec. 2003.

Wolfgang E. Elston, Emeritus Professor

Meetings attended

Invited attendee, Lunar and Planetary Institute (Houston, TX) Conference,

Large Impacts, Nördlingen, Germany. Aug 5-9, 2003. Read paper: Bushveld Complex, South Africa: Plume and impact models reconciled. Attended Post-conference field excursion to the Ries impact crater.

Invited attendee, Geological Society of America Penrose Conference, Plumes IV: Beyond the plume hypothesis-tests of the plum paradigm and alternatives, Hevarogeroi, Iceland, August 25-September 2, 2003. Read paper: The Proterozoic Bushveld Compex, South Africa: Plume, astrobleme, or both.

Attended post-conference field excursions, on Iceland tectonics and volcanism.

Attended Geological Society of South Africa Field Conference, Economic Geology of platinum group elements, Burgersfort, South Africa, October 17-19, 2003.

Attended Geological Society of America Annual Meeting, Seattle, WA, November 2-5, 2003.

Peter J. Fawcett, Assistant Professor

Talks presented:

Two talks at the Valles Caldera Drilling Workshop, Los Alamos, October, 2003 Departmental Seminar, UTEP, El Paso, Texas, November, 2003

Tobias Fischer, Assistant Professor

Invited Talks at other Institutions

Attendance of Goldschmidt Conference, Kurashiki, Japan, September 2003. Keynote talk. Attendance of AGU Fall Meeting San Francisco, December 2003. Poster/Talk (invited). Attendance of IAVCEI Field workshop on volcanic gases Nicaragua/Costa Rica (March/April 2003)

Attendance of State of the Arc Conference, Organizing committee, Oregon (August 2003) International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) Editor and Web master for the Commission on the Chemistry of Volcanic Gases (CCVG) International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) Organizing committee Field Workshop on Volcanic Gases, Nicaragua and Costa Rica (March/April 2003)

State of the Arc Conference, Organizing committee, Oregon (August 2003)

Off campus talks

Northern Illinois University University of Southern Florida

John W. Geissman, Professor

Professional societies

Member, Annual Program Committee, Geological Society of America Technical Program Chair, Annual Meeting of the Geological Society of America, Salt Lake City, 2005 Geological Society of America Distinguished Service Award, 2002 Associate Editor, Geological Society of America Bulletin Editor, Eos, American Geophysical Union Member, National Science Foundation Earthscope Science Review Panel Member, American Geophysical Union "Committee of 50" University of New Mexico representative, DOSECC, Inc. Geoscience "consultant", Albuquerque Petroglyphs, U.S. Park Service Member, New Mexicans for Science and Reason, and Technical Consultant Member, Coalition for Excellence in Science Education

Stephen Huestis, Professor

Virginia Creepers String Band and 5-Dog String Band Participated in American Folklore Society Annual Meeting, Alb., NM, Oct. 10 Forum: "Old Time Music in New Mexico: Community and Local Tradition"

Karl E. Karlstrom, Professor

Meetings attended/Talks presented

Spring 2003- Durango GSA - symposium convener and fieldtrip leader Fall 2003- Seattle GSA, convener of Rodinia session for IGCP 440 Fall 2003- AGU- presented talks

Barry S. Kues, Professor

Presented papers

Attended N.M. Geological Society Fall Field Conference, Gallup-Grants area, Sept. 24-27.

Grant A. Meyer, Assistant Professor

Invited talks

Geologic, geomorphic, and climatic controls on fire-induced erosional events in Yellowstone and central Idaho: Geological Society of America Watershed Impacts on Wildland Fire Conference, Oct. 21, 2003. Also presented summary of session 1-2, How Geology and Geomorphology Affect Landscape Response to Fire.

Field trip organization and leading

Co-leader and organizer, 2003 Rocky Mountain Friends of the Pleistocene Field Conference, Payette-Boise River and Sawtooth Mountains Region, Central Idaho, September 5-7, 2003

Co-leader, INQUA XVI Congress field trip, Quaternary geology and ecology of the greater Yellowstone area, Aug. 1-5, 2003.

Councilor for Terrestrial Processes, American Quaternary Association, 2002-2003.

Helped organize session 1-2, "How Geology and Geomorphology Affect Landscape Response to Fire", Geological Society of America Watershed Impacts on Wildland Fire Conference, Oct. 21, 2003.

Other:

Meyer, G.A., 2003, Factors affecting runoff, in Dasch, J., ed., Water Sciences: Farmington Hills, MI, Macmillan Reference USA (encyclopedia entry).

Leslie D. McFadden, Chair and Professor

Proposal Submitted

"Fire, climate and hillslope-alluvial system response, Sacramento Mountains, New Mexico" Co-Principal Investigator, National Science Foundation, 6/2004 – 6 2007 (\$ 213, 630)

Unfunded Research

Studies of the soils, geomorphology and Quaternary stratigraphy and ecology of the Blue Gap area, Colorado Plateau, NW Arizona.

Mousumi Roy, Assistant Professor

Professional meetings and presentations

American Geophysical Union Annual Meeting – December; 2 abstracts NSF Sponsored Earthscope workshop on mid-continent tectonics – oral presentation. LANL/SCEC Finite element modeling workshop - Abstract – oral – Roy SCEC/NSF Earthscope Workshop NM Earthscope Meeting, Sevilleta LTER Center, co-convenor

Professional organizations

Reviewed papers for Journal of Geophysical Research, Geology Reviewed NSF Proposals 2003 NEHRP Earthquake theory and processes panel (25 proposals) Chair, Geophysics Division of the Geological Society of America

Jane Selverstone, Professor

Committees

Member, GSA Annual Program Committee. Incoming Technical Program Chair for 2004 annual meeting, GSA.

Gary A. Smith, Professor

Society committees

Geological Society of America, Committee on Nominations.

Member, Española Basin Technical Advisory Group (<u>http://climchange.cr.usgs.gov/ebtag/</u>) Including Workshop Organizaing Committee, Project Needs Matric Coordinator.

UNM Geology Museum exhibit, Tucson Gem and Mineral Show, Tucson, Arizona, Feb. 12-21-23, 2003.

Adjunct Curator of Geology, New Mexico Museum of Natural History and Science.

Research Associate, New Mexico Bureau of Miners and Mineral Resources.

Answered Geology questions for online-science-education service "Wonderquest."

6. OTHER PROFESSIONAL ACTIVITIES (Calendar Year 2003-2004)

Carl Agee, Professor and Director, Institute of Meteoritics

Professional meetings attended

Presented a talk on "Astromaterials and the Institute of Meteoritics" to the University's Diversity Programs Bridge Freshmen, July 8, 2003.

Presented a talk on "Mars Sample Return" to the New Mexico Research Council, at the Sevilleta NM Wildlife Service Conference Room, March 19, 2004.

Yemane Asmerom, Associate Professor

<u>Review</u>

Review Grant proposals for the National Science Foundation,

Other

Participated: Sloan Workshop on diversity (Puerto Rico) Field work in New Mexico with Jessica Rasmussen and Andy DuFrane

Adrian Brearley, Associate Professor

<u>Reviews</u>

Reviewed scientific papers submitted to Meteoritics and Planetary Science (3), Geochimica et osmochimica Acta (1), Earth and Planetary Sciences Letters (1), Mineralogical Magazine (1).

Rviewed 4 proposals submitted to NASA Planetary Materials and Geochemistry Program. Rviewed 2 proposals submitted to NASA Exobiology program Rviewed 1 proposal submitted to NSF Petrology and Geochemistry Program Rviewed 3 proposals submitted to NSF Instrumentation and Facilities Program Rviewed 2 proposals submitted to NASA SRIDLP program

Tenure review for outside university

Laura J. Crossey, Professor

Manuscripts review

Geology (2) Journal of Geoscience Education (1) Sedimentology (1) Journal of Sedimentary Geology (1)

Proposal review

American Chemical Society/Petroleum Research Fund (1) National Science Foundation (4): Hydrologic Sciences, Geology & Paleontology, Inst. & Facilities

Wolfgang E. Elston, Emeritus Professor

Employed and mentored two graduate assistants in South Africa: Maarten DeMoor, UNM, June-July 2003; Tawanda Manyruke, University of Pretoria, September-October 2003.

Conferred with colleagues, University of London, on problems related to the Bushveld Complex, September 3, 2003.

Conducted seminar, Did multiple impacts trigger a Bushveld catastrophe? Evidence from the Rooiberg Group, University of the Witwatersrand, Johannesburg, October 23, 2003.

Conferred with colleagues, University of Florida, February 5, 2004.

Tobias Fischer, Assistant Professor

<u>Reviews</u>

Reviews of 6 NSF proposals (Petrology and Geochemistry/Geophysics) and 14 scientific manuscripts for GCA, JGR, JVGR, EPSL, Geology, GRL, Bull. Volc., Nucl. Technology, Colombian Bulletin of Geology (in Spanish).

Departmental committees

Computer committee, Long Range Planning Committee, rock saw room supervisor, Salary Committee

Coordinator, UNM-LANL Volcanology Program

John W. Geissman, Professor

Reviews of manuscripts and proposals

Reviewed proposals for National Science Foundation (13), American Chemical Society (1), The Third World Academy of Sciences (2), Australian Research Council (1).

Reviewed manuscripts for Journal of Geophysical Research (2), Earth and Planetary Science Letters (2), Tectonics (1), Canadian Journal of Earth Science (1), Geophysical International (2), Geology (1), Oxford University Press

Professional talks

(with Gordon Keating) Multiphase modeling of contact metamorphic systems and application to a Miocene transitional geomagnetic field record, Paiute Ridge, Nevada AGU Chapman Conference on Timescales of the Geomagnetic Field, University of Florida

Two paleomagnetic tales-large magnitude rotations along the eastern Syntaxis and surprising rotations along the eastern margin of the Colorado Plateau, University of North Carolina

Two paleomagnetic tales---large magnitude rotations along the eastern Syntaxis and surprising rotations along the eastern margin of the Colorado Plateau, University of Colorado

(with Scott Muggleton and Matt Heizler) Paleomagnetism and 40Ar/39Ar geochronology of the latest Cretaceous Whitehorn Granodiorite and host strata, southern Mosquito Range, Colorado: Geological Society of America Annual Meeting.

(with Adrian Brearley and Bernie Housen) Transmission electron microscopy of the magnetic mineralogy of the Mt. Stuart Batholith: An attempt to better elucidate the origin of a controversial magnetization. American Geophysical Union Annual Meeting.

Other

Adjunct or associate-type positions at other institutions: Adjunct Full Professor, University of Michigan, Ann Arbor

Other: Technician (half-time), UNM Paleomagnetism and Rock Magnetism Laboratory

David Gutzler, Professor

Manuscript Reviews:

J. Climate (2), J. Geophys. Res.-Atmospheres (2), Geophys. Res. Lett. (1), J. Atmos. Sci. (1), Monthly Weather Rev. (1).

Grant Proposal Reviews:

National Science Foundation (4), NOAA Office of Global Programs (5), NASA Terrestrial Hydrology Program (1).

Invited presentations

- 2002 Progress on Pan American Climate Research", US CLIVAR Scientific Steering Committee meeting, Jan 8.
- The North American Monsoon Model Assessment Project", NOAA Climate Prediction Center, Apr 14.
- Warm Season Precipitation Research Priorities", US GEWEX Principal Investigators meeting, Jul 22.
- 2003 Progress on Pan American Climate Research", US CLIVAR Scientific Steering Committee meeting, Dec 8.
- International Science Working Group for North American Monsoon Experiment, member. (field phase to occur in 2004)
- International CLIVAR Program science guidance:
- VAMOS panel [Variability of American Monsoon Systems] (member, appointed May 02)
- Interagency U.S. CLIVAR Program science guidance:
- Pan American sector implementation panel (Chair, three year term beginning Mar 02)
- Interagency U.S. GEWEX Americas Prediction Program science guidance:
- Science Advisory Group (member, two year term beginning Oct 02).
- Lead author, implementation plan for merging summer precipitation research in GEWEX and CLIVAR programs.
- New Mexico State Weather Control and Cloud Modification Commission, member.
- Completed UNM Human Subjects Research Certification training, Feb.

- Session Chair, US GEWEX Principal Investigators Meeting, Jul.
- Chief Meeting Organizer, US CLIVAR PanAmerican Implementation Panel Meeting, Aug.
 - Chief Meeting Organizer, US CLIVAR Principal Investigators Meeting, Sep.

Stephen P. Huestis, Associate Professor

<u>Reviews</u>

Reviewed paper for Inverse Problems

Karl E. Karlstrom, Professor

<u>Review</u>

NSF proposals Geology GSA Bulletin Precambrian Research Canadian Journal of Earth Sciences Tectonics

Editorial/National Committee

My term as Science Editor for GSA Today ended in February 2003: This job consumed large amounts of time, about 8-10 hours per week, on this job for the Geological Society of America. Editorial Board for Precambrian Research, 1990 to present. New Mexico Geologic Mapping Advisory Board, 1999 to present. Member of Pan-Lithoprobe synthesis subcommittee (2000-2003). Member of the EarthScope Science and Education Committee (ESEC)- the oversight and planning committee for the NSF EarthScope initiative Compiler of southern Laurentia for IGCP 440 project: reconstruction of Rodinia.

Geoscience Education- The Trail of Time – The Trail of Time, designed by me, Laura Crossey, and Mike Williams, will be a new geoscience education and interpretation project at Grand Canyon that involves a walking trail on the South Rim scaled so that each meter of the Trail corresponds to 1 million years of Earth History. A large number of the Park's 5 million visitors per year, will walk the Trail and get introduced to Park geology and geologic time. It also has an accompanying virtual Trail of Time and Formal and Informal education components. In 2003, we finally received Park approval for the location of the Trail (Yavapai Point to Pipe Creek Vistas) and a tentative plan to open the Trail by Spring 2005.

Barry S. Kues, Professor

<u>Reviews</u>

Reviewed 1 paper for *Geologiska Foreningen* (Geological Society of Sweden), 1 Paper for Ohio Journal of Science, 4 papers for N.M. Museum of Natural History Bulletin.

Worked with Jocelyn Neville, UNM Art Department, on exhibit (in UNM Art Museum Feb. 7-Mar. 23) representing New Mexico fossils.

Editorial Duties

Editorial Board, New Mexico Geology. Associate Curator, N. M. Museum of Natural History.

Grant A. Meyer, Assistant Professor

Manuscript peer review

Quaternary Science Reviews (1) Geological Society of America Bulletin (1) Quaternary Research (1) Water Resources Research (1)

Grant proposal review

National Science Foundation - Review for Geology and Paleontology program (1)

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Mousumi Roy, Assistant Professor

Invited off-campus talks

Mid-Continent US Array Workshop, Kansas State University, April 2003.

Jane Selverstone, Professor

Manuscripts reviewed

Journal of Metamorphic Geology, Tectonophysics, American Journal of Science, Journal of Petrology, Reviews in Mineralogy, GSA Special Paper, US Geological Survey

Proposals reviewed

NSF Tectonics program, NSF Petrology and Geochemistry program, NSF WISC program, NSF EAR Instrumentation program, NSF Continental Dynamics program, Petroleum Research Fund, Guggenheim Foundation

Off-campus talks

Attended NSF "On the Cutting Edge" workshop on Teaching Petrology, Bozeman MT, 7/7-7/16/03; presented two teaching demonstrations and chaired working group on "Geodynamics in Petrology"; uploaded many teaching activities to web for use at other universities.

Presented invited talk at 60th birthday celebration for Professor Peter Molnar, Estes Park, CO, 8/03.

Led Princeton University geology fieldtrip to Rio Puerco volcanic necks, 10/03

Editorial board member

Editorial board member, Journal of Metamorphic Geology External evaluator, 4 promotion and tenure cases (University of Wisconsin; Kansas State University; University of Durham, UK; University of Minnesota)

Gary A. Smith, Professor

Reviews_

Reviewed research proposals for the National Science Foundation (3)

Reviewed Manuscripts

Reviewed manuscripts for:

Journal of Sedimentary Research (2) U.S. Geological Survey, Environmental and Engineering Geoscience, Geological Society of America Bulletin (2) Sedimentary Geology

Carl Agee, Director and Professor, Institute of Meteoritics

Committees

Graduate Student Committee (E&PS) Facilities Committee (E&PS)

Presentations

Presented a talk on "Mars Sample Return" to the Center of Advanced Studies, November 13, 2003. Participated in UNM's Federal Priorities selection process.

Hosted visitors

Dr. Russel Hemley, Carnegie Institution of Washington, DC, visited the IOM on March 29, 2003. Dr. Ronald Cohen, Carnegie Institution of Washington, DC, visited the IOM on March 29, 2003.

Yemane Asmerom, Associate Professor

Departmental service

Facilities committee Undergraduate committee Productivity assessment committee Search committee: Analytical Lab RA University: UNM- (New Mexico Alliance for Graduate Education and the Professoriate) Steering Committee

Adrian Brearley, Associate Professor

Departmental service

Director, Earth and Planetary Sciences Transmission Electron Microscope and X-ray Diffraction Laboratories Member, department of Earth and Planetary Sciences Facilities Committee Chair and CoChair, Department of Earth and Planetary Sciences Graduate Committee Co-Associate Chair, department of Earth and Planetary Sciences (Fall 2003)

University service

Member, University Limited Competition Review Panel for NSF Nanoscale Science Program (2000-2003) Member, College of Arts and Sciences Graduate Advisors Committee (2003)

Michael E. Campana, Professor

Departmental committee

Graduate Committee Ad Hoc Hydrogeologist Committee

Laura J. Crossey, Professor

Departmental service

Associate Chairman (through Spring 2003) Alumni Relations Committee Long-Range Planning Committee Scholarship Committee Undergraduate Committee Undergraduate Advisor: E&PS BS/BA, Environmental Science BS Search Committee Chair: Analytical Chemist position

University

A&S Undergraduate Committee A&S Committee on Math & Science Education for Teachers A&S Senior Promotion/Tenure Committee (2003-2004) PROFOUND committee (undergraduate research) Leading Edge Committee – review of UNM Research Activities/ORS AY01-03

Peter J. Fawcett, Assistant Professor

Departmental service

Chair, Computer Committee Member, Graduate Committee Member, Ad Hoc Committee on new Hydrology position Member, Ad Hoc Committee on departmental policy re. hiring research scientists UNIX computing facility administrator

National:

Reviewed manuscripts submitted to: Quaternary Research, PAGES Volume Reviewed 2 proposals submitted to the National Science Foundation Reviewed 18 proposals submitted to the Civilian Research & Development Foundation (CRDF) Cooperative Grants Program (Aid to researchers in states of the former Soviet Union) CRDF Geology Program Panelist, Washington D.C., November 2003

John W. Geissman, Professor

Departmental service

Chair, Department Facilities Committee, 2002-Chair, Department Long Range Planning Committee, 2002-Department Alumni Affairs Committee, 1999-

University service and activities

Member, Faculty Senate Operations Committee, Fall, 2002-Spring, 2003 Member, UNM Planning Council Chair, College of Arts and Sciences Junior Promotion and Tenure Committee, Spring 2003

Special projects

Administrative Positions

David Gutzler, Professor

Departmental committees

E&PS Associate Chair (Fall). Co-Advisor, B.S. degree program in Environmental Science (Fall). Computer Committee (Fall). Undergraduate Committee (Fall).

University committees

Program Committee, UNM Water Resources Program (Fall). Steering Committee, A&S Center for Advanced Studies (Spring, Fall). Provost's Task Force on Reorganization of Information Technology Management (Spring, Fall). Search Committee for Interim Chief Information Officer, interviews in Oct.

Presentations at UNM

First in War, First in Peace, Last in the American League: Impressions of our Nation's Capital, E&PS Green Chile Seminar, May 2. Climate Research on the Sevilleta, Sevilleta LTER site review meeting, Aug 21. Drought and Climate Change in New Mexico, Utton Transboundary Water Center, Sep 9.

Stephen P. Huestis, Associate Professor

Departmental service

Undergraduate Committee EPS Undergraduate co-advisor

Other University service

Virginia Creepers String Band performances: UNM-Valencia campus Cultural Enrichment Series, Feb. 18 Health Sciences Center Summer Concert Series, June 20

5-Dog String Band performances:

American Studies course 313/513: American Folklore and Folklife, Apr. 17 American Studies Dept. graduation, May 17

Karl E. Karlstrom, Professor

Departmental service

E&PS Graduate Committee E&PS Long Range Planning Committee E&PS Co-convened Caswell Silver Undergraduate Research Symposium, 2003

Barry Kues, Professor

University

Member of Faculty Senate Member (and Chair from August on) of Faculty Senate Library Committee Member, Faculty Senate Budget Committee Member, President's Faculty Consultative Committee

University Service

Member, ad hoc committee to draft an A&S constitution

Departmental service

Compiled Departmental Alumni Newsletter (24 p.), distributed in Spring, 2003. Curator of departmental fossil, mineral, rock, and thesis collections.

Grant A. Meyer, Assistant Professor

Departmental service

Departmental Graduate Committee, Fall 2000 to present; Co-chair, fall 2003 - present. Departmental Vehicle Committee Chair, Fall 2000 to present. Departmental Long-Range Strategic Planning Committee, Spring 2002-present. E&PS Hydrogeology Position Search Committee, Spring 2003-present.

Mousumi Roy, Assistant Professor

Departmental service

UNIX Facility Administration (on an occasional basis) Consortium for the Americas, Internal Advisory Committee, UNM E&PS Computer Committee

Louis Scuderi, Associate Professor

Departmental service

Earth and Planetary Sciences Computer Committee 2001-2003.

Departmental committees

Undergraduate committee Oversight committee for departmental Analytical Chemistry lab

Gary A. Smith, Professor

Departmental service

Chair, Faculty Senate Teaching Enhancement Committee

Teacher of the Year Selection Subcommittee Member

Chair, College of Arts and Sciences Committee on Academic uses of UNM Properties

Associate Chair, Department of Earth and Planetary Sciences (Spring Semester)

Chair, Undergraduate Committee, Department of Earth and Planetary Sciences

Collections Committee, Department of Earth and Planetary Sciences

Chair, Ad-hoc Committee for position description in hydrogeology, Department of Earth and Planetary Sciences

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Teaching peer review for Assistant Professor Mousumi Roy, Department of Earth and Planetary Sciences

Coordinated the Caswell Silver Undergraduate Research Symposium, Department of Earth and Planetary Sciences

Member of the Board, and Audit Committee, Caswell Silver Foundation

Advisor, Geology Club

Hosted visiting speakers to the Department of Earth and Planetary Sciences: James Bartolino, Peter DeCelles.

8. SCHOLASTIC HONORS AND FELLOWSHIPS

Adrian Brearley, Associate Professor

University of New Mexico Regent's Lecturer, college of Arts and Sciences, 2001-2003.

Jane Selverstone, Professor

Named a Fellow of the Geological Society of America, May 2003

David Gutzler, Associate Professor

UNM Regents' Lecturer (2000-2003).

Gary A. Smith, Professor

Selected Lifetime Honorary member, New Mexico Geological Society.

9. SABBATICALS AND TRAVEL (Calendar Year 2003-2004)

Carl Agee, Professor and Director, Institute of Meteoritics

Professional travel

- September 6-17, 2003. Traveled to Japan to attend the Goldschmidt Conference and the Spring-8 workshop.
- March 14-17, 2004. Traveled to Houston, Texas to attend the Lunar and Planetary Science Conference.
- June 5-9, 2004. Traveled to Copenhagen DK to attend the Goldschmidt Conference.
- June 18-23, 2004. Traveled to Lake Tahoe, California to attend the annual meeting of COMPRES. June 30-July 2, 2004. Traveled to Monrovia, California to attend a meeting of MEPAG.

Adrian Brearley, Associate Professor

Professional travel

- 17-21 March, 2003, 34th Lunar and Planetary Science Conference, Houston, Texas
- 28 July 3 Aug 2003 Meteoritical Society Meeting, Muenster, Germany

Michael E. Campana, Professor

Sabbatical Leave - Spring 2003

Spent Spring 2003 in Honduras, where colleagues from Escuela Agrcola. Panamericana in Honduras and I worked to establish a Central American Water Resources Development Center through USAID funding and develop a joint certificate ('diplomado') program in water resources for Latin American water professionals. I also worked on various watershed and philanthropic projects in Honduras, Nicaragua and El Salvador.

Wofgang E. Elston, Research Professor

Professional Travel

Professional travel to South Africa, Germany, Iceland, and England, June-October 2003.

Tobias Fischer, Assistant Professor

Professional travel

Honduras, January 2003: 18 days Nicaragua/Costa Rica; March/April 2003: 16 days. Saipan/Anatahan: May 2003: 10 days West Indies: July 2003: 20 days Yellowstone: August 2003: 7 days Japan: September 2003: 8 days San Francisco: December 2003: 5 days Nicaragua: January 2004: 10 days

John W. Geissman, Professor

Professional travel

- January 9-10 Fieldwork, southern New Mexico
- January-mid February, miscellaneous trips to Sante Fe for legislative activities
- February 8, Guest Lecturer, University of Colorado
- February 9-10, Annual Program Committee Meeting, GSA headquarters, Boulder
- March 8-12, AGU Chapman Conference, Gainesville, Florida
- March 15-17, Fieldwork, north-central NM
- April 30-May 1, University of North Carolina, guest lecturer
- May 6-7, Fieldwork, north-central NM
- May 13-14, Fieldwork, north-central NM
- May 18-June 8, New Mexico, southern Colorado, UNM Introductory Field Geology course
- June 24-July 6, Wyoming, University of Michigan, Field Camp
- July 21-August 10, Wyoming, University of Michigan, Field Camp
- August 12-15, Fieldwork, north-central NM
- August 20, Fieldwork, Jemez Mtns.
- August 22-23, Annual Program Committee Meeting, Boulder, CO
- October 4-6, Fieldwork, central Colorado
- October 15-17, Alumni Advisory Board Meeting, University of Michigan, Ann Arbor
- October 21-24, National Science Foundation, Earthscope Science Review Panel
- November 1-5, Seattle, Geological Society of America Annual Meeting
- December 6-11, San Francisco, AGU Fall Meeting

Summer teaching:

University of Michigan Camp Davis, Geological Sciences 440, Advanced Field Geology, June 24-July 6, July 21-August 10

David Gutzler, Professor

Professional travel

- La Jolla CA, Jan 5-9: US CLIVAR Program Scientific Steering Committee meeting.
- La Paz, Baja California, Mexico, Jan 13-17: Workshop on Water Management in Climatically Sensitive Border Regions.
- Long Beach CA, Feb 10-11: American Meteorological Society annual meeting; GEWEX Science Advisory Group meets.
- Washington DC, Feb 23-Mar 15: Visiting Scientist at NOAA Climate Prediction Center.
- Feb 27-28: Workshop on Pacific Decadal Variability, Alexandria VA
- Mar 6: Briefing on North American Monsoon Experiment, NSF Headquarters, Arlington VA
- Washington DC, Mar 30-Apr 22: Visiting Scientist at NOAA Climate Prediction Center.
- Miami FL, Apr 22-26: International CLIVAR VAMOS Panel meeting.
- Seattle WA, Jul 20-24: US GEWEX Program Principal Investigators' meeting; GEWEX Science Advisory Group meets.
- Seattle WA, Aug 17-19: US CLIVAR PanAmerican Implementation Panel meeting.

- Boulder CO, Sep 15-18: US CLIVAR Program Principal Investigators' meeting; PanAm Implementation Panel meets.
- Reno NV, Oct. 19-21: NOAA Climate Prediction and Diagnostics Workshop.
- Palisades NY, Dec 15-18: US CLIVAR Program Scientific Steering Committee meeting.

Karl E. Karlstrom, Professor

Professional travel

- January 4-8, Death Valley research trip, with students
- January 11-13, EarthScope ESEC meeting, Washington DC
- January 15-16, Trail of Time meeting with superintendent at Grand Canyon
- February 1, E&PS 307 Structural Geology fieldtrip, Abo Pass
- February 8, E&PS 307 Structural Geology fieldtrip, Joyit Hills
- February 15-16, Mount Taylor Quadrathalon
- March 1, E&PS 307 Structural Geology fieldtrip, Abo Pass.
- March 8, E&PS 307 Structural Geology fieldtrip, Abo Pass.
- March 16-22, Colorado River research trip
- March 24, Albuquerque Gem & Mineral Club talk: The Trail of Time at Grand Canyon
- April 5, Structural Geology fieldtrip, Abo Pass.
- April 12, Structural Geology fieldtrip, Abo Pass.
- April 18, Four Corners Geological Society invited talk, Durango, CO
- May 3, Undergraduate Research symposium
- May 5-7, EarthScope ESEC meeting in Salt Lake City
- May 8-11, GSA Rocky Mountain section meeting in Durango and post-meeting fieldtrip
- May 21-22, New Mexico EarthScope meeting at the Sevilleta
- June 1-4, Research trip Rio Grand Junction area with Eric Kirby
- June 9-July 2, E&PS 420/520 Advanced summer field camp
- July 13-15, Great Desert Teacher training workshop, Grand Canyon
- August 3, Tucson trip to look at cores of Mesoproterozoic rocks
- August 24-27, EarthScope ESEC meeting in Washington DC
- September 8-20, Colorado River research trip
- October 16-19, Panlithoprobe meeting in Ontario
- November 2-7, National GSA meeting in Seattle
- December 8-11, AGU meeting in San Francisco

Barry S. Kues, Professor

Professional travel

- Feb. 21-23 paleo. field work near El Paso, TX and Lake Valley, NM
- Mar. 8 paleo./strat. field work, Fra Cristobal Mountains, NM
- April 19 paleo. field work, Lake Valley, NM
- June 9-10 paleo, field work, Alamogordo area, NM
- June 19 paleo. field work, Abo Pass, NM
- Aug. 18 -- paleo. field work, Robledo Mountains, NM
- Sept. 24-27 N.M. Geological Society Fall Field Conference, west-central NM
- Oct. 14 paleo. field work, Las Vegas, NM area
- Oct. 16 paleo. fieldwork, Tijeras Canyon, NM

Grant A. Mever, Assistant Professor

Professional travel

- International Quaternary Association XVI Congress, Reno, NV, July 23-25, 2003
- AGU Fall Meeting, San Francisco, CA, Dec. 10-13, 2003.
- Geological Society of America Wildland Fire Impacts on Watersheds Conference, Denver, CO, October 21-22, 2003.

Field work and travel not noted above:

- Coring of small lakes for environmental geochemistry in northwestern New Mexico, several trips in early 2003 (with Paula Watt)
- Guest lecturer in EnvSc 101 The Blue Planet, UNM-Gallup, Spring and Fall Semesters, 2003 (2 lectures)
- Blue Gap, Arizona, research on microclimatic influences on hillslope geomorphology (with Ben Burnett).
- Yellowstone National Park, Holocene beaver activity and effects on small streams, late July, 2003 (with Lyman Persico).

Mousumi Roy, Assistant Professor

Professional travel

- April 2003: Earthscope workshop, Manhattan, KS
- May 2003: NM Earthscope Meeting, Sevilleta LTER Center, co-convenor
- Summer 2003: Lecture at SAGE, Santa Fe, NM
- Sept 2003: LANL/SCEC FEM workshop, Los Alamos, NM
- NSF/SCEC Earthscope Workshop, Los Angeles, CA
- Dec 2003: American Geophysical Union, San Francisco, CA

Louis Scuderi, Associate Professor

Professional travel

Travel in the western US for field work in the Sierra Nevada, Rocky Mountains, Colorado Plateau.

Jane Selverstone, Professor

Professional travel

- Fieldwork in Italy with Zach Sharp and Jaime Barnes, May 2003
- NSF-NAGT teaching workshop, Montana, July 2003
- GSA Program committee meetings, Boulder, Colorado, 3/03 and 8/03.
- Attended 60th birthday symposium for Prof. Peter Molnar, Estes Park, CO, 8/03.
- GSA Annual Meeting, Seattle, November 2003
- Several days of fieldwork on Rio Puerco volcanic necks, NM

Professional travel

- February 13-17 Attended Tucson Gem and Mineral Show, Tucson, Arizona.
- March 4-5 Attended EBTAG Technical Planning and Coordination Workshop, Geologic and Geophysical Studies of the Espanola Basin, Santa Fe, NM.

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- April 4-5 Participated in NMBGMR STATEMAP field review, Chimayo and San Juan Pueblo, NM.
- August 6-10 Geologic mapping, Truchas, NM.
- August 11 NM Water Research Symposium, Socorro, NM.
- October 24 Led field trip to Kasha Katuwe Tent rocks National Monument for E&PS 105L students and UNM Geology Club.
- July 19 September 7, and December 12 Attended EBTAG Meetings in Santa Fe, NM.

10. PUBLIC SERVICE (Calendar Year 2003-2004)

Yemane Asmerom, Associate Professor

Amnesty International; The Sierra Club Our work was featured in New Mexico Magazine (October isssus)

Adrian Brearley, Associate Professor

U8 referee for AYSO

Laura J. Crossey, Professor

Appointed to State Science Standards Committee: the committee of 10 met 6 times over 6 weeks (evenings and weekends): Adopted! Organized geo activities for the NM Jamboree (April 5; ~2,000 Jr. High students on UNM campus). Forensic sand analysis, Albuquerque Police Department. Soccer Referee, USSF Grade 6, NM State Referee, NISOA Collegiate Referee (1997-current).

Michael E. Campana, Professor

Community Service

Founder, President/Treasurer and Chair, Board of Directors, The Ann Campana Judge Foundation. The ACJF is a 501 (c) (3) charitable foundation dedicated to undertaking and funding philanthropic projects in and relating to developing countries that focus on water, health, sanitation, and student involvement. Responsible for overall management of the ADJF including: fund-raising, project development, preparation of RFPs, evaluation of proposals, etc.

Wolfgang E. Elston, Research Professor

Guided two field trips to the Valles Caldera

Tobias Fischer, Assistant Professor

Public lectures at Santa Fe, NM Elementary School

John W. Geissman, Professor

Alumni Advisory Board, University of Michigan Worked with Career Enrichment Center, APS, to establish "Geology of New Mexico", which has now started Geoscience Advisor, Albuquerque Petroglyphs National Monument committee. Geologic field excursion leader, miscellaneous Elementary school groups Participant, Jefferson Middle School, Special Educational Events Day Participant, Rio Rancho High School Career Days Member, Coalition for Excellence in Science Education

David Gutzler, Professor

Science Fair Judge, Alvarado Elementary School, Jan 30.

Invited presentations to nonspecialist audiences: Drought in New Mexico, New Mexico Master Gardeners Conference, Albuquerque, Jun 6.

Numerous interviews for New Mexico newspapers and television stations regarding summer rainfall, El Niño/La Niña, global warming, and other weather-related and climate-related topics.

Stephen P. Huestis, Associate Professor

AHANM volunteer

Karl E. Karlstrom, Professor

Several articles in the Albuquerque Journal and Tribune Talk at the Albuquerque Gem and Mineral Society

Barry S. Kues, Professor

Identified geological specimens and answered geological questions for the public.

Grant Meyer, Assistant Professor

- Yellowstone Association Institute course for general public, "Shaping the Northern Yellowstone Landscape", Aug. 7-9, 2003.
- Helped construct "Geology of the Gallup Area" wall display and large rock sample exhibit, UNM-Gallup, spring 2003.
- UNM Alternate Delegate, Middle Rio Grande Endangered Species Act CP Science Subcommittee.
- Provided information on research by Jennifer Pierce and myself for feature newspaper article on western U.S. wildfires by Ray Ring, "A Losing Battle", High Country News, May 26, 2003.
- Answered miscellaneous inquiries on geological matters for the general public.

Jane Selverstone, Professor

Judge, Junior Earth Science Division, Northwestern NM Regional Science Fair, 3/20/03.

Gary A. Smith, Professor

- Worked with teachers from Governor Bent Elementary School to develop geology lesson plans for their annual student hike near Placitas, NM
- Co-led excursion for BLM at Kasha Katuwe Tent Rocks National Monument, for New Mexico congressional delegation and press, February 17, 2003.
- Provided interpretive materials and review of interpretive documents to the U.S. Bureau of Land Management for Kasha Katuwe Tent Rocks Natinal Monument.
- Interviewed by the Santa Fe New Mexican about geologic history of the Santa Fe area.
- Interviewed by the Albuquerque Journal about UNM use of Young Ranch.
- Identification of mineral and fossil specimens for department visitors.

IV. GRADUATE PROGRAMS AND STUDENT SCHOLARSHIPS (Calendar Year 2003-2004)

SUMMARY OF THE GRADUATE PROGRAM

The total number of graduate students in the Department in 2003-2004 was 60. As of the Fall of 2003, over 50% of the graduate students were women, continuation of a trend that began during the last decade. Nearly 50 percent of the graduate students are in the doctoral program. Relevant data for the graduate program are included in the Table 2 and other lists (i.e. scholarship and award recipients) included in this section.

The Department of Earth and Planetary Sciences regards the education and training of graduate students as modern scientists, as important and integral teaching and research functions. Through classrooms, laboratory, and field experiences, graduate students acquire the mentoring, expertise, and skills required to become successful professional scientists in a spectrum of employment opportunities, including industry, environmental and geological consulting companies, governmental organizations, and academia. Individualized teaching opportunities in a broad range of undergraduate level seminars, and the opportunity to present the results of their graduate research at professional earth science meetings and in numerous publications all further enhance interpersonal skills and abilities of graduate students to discuss their knowledge of and research in earth and planetary science in a range of settings and situations.

We believe the graduate program is quite strong. Again, during the 2003-2004 academic year, many of our students won prestigious national fellowships or awards, such as Kurt Steffen, selected for a Sigma Xi "Excellence in Graduate Research Award and Jessica Rasmussen who was selected for an AGEP (Minority Doctoral Graduate Student Award) supported by NSF. In addition, the Department again received a large number of applications to the Graduate Program (over 80), another measure of the quality of our program. The top quartile of these applicants have outstanding academic records, and we are typically competing with "Top-20" Earth Science Departments; and the incoming class of students admitted to the Department again reflects this success. For example, we ultimately attracted 15 of the top ranked 25 applicants to the 2004-05 academic year.

As might be expected from graduate students of this caliber, they have also succeeded in publishing numerous papers in many journals, some as senior authors and some in very prestigious journals in the earth sciences. They are also co-authors on numerous published abstracts. Such student co-authors are indicated by an asterisk in papers included in section III.

Finally, another measure of the quality of a graduate program is given by the number of graduate students who eventually acquire positions at academic institutions. We were pleased to hear that most recently another one of our graduate students, Jennifer Pierce, accepted a tenure-track assistant professor position in geomorphology at Idaho State University.

TABLE 1. Bachelor's, Master's and Doctoral Students Degrees, Fall, 2003 - Spring, 2004.

Doctoral Students (2004)

Jerome Michael Timmons

M.S. Students (2003)

Brian J. Bierman Lynne J. Elkins Melissa M. Fittipaldo Heather A. Hibbert Stephanie J. Moore

M.S. Students (2004)

Shannon "Sunny" Baer Nicole M. Bailey Laura E. Clor Dale H. Henderson

Bachelor of Science (2003)

Dan Blake Eldridge

Bachelor of Science (2004)

Linnah Neidel Michael E, Leister Melissa J. Nelson

Bachelor of Science in Environmental Science

(2003)

James R. Dyer

(2004)

Marissa Reno Aleeca Forsberg

Bachelor of Arts, (2004)

Elva Rae Carey Ellen Fischer Jentry Vranian-Wade Sara Hooker Sherrie R. Pennebaker

 TABLE 2. Department of Earth and Planetary Sciences – Summary of Graduate Student Admissions, Fall 2001-2002, Spring 2001-2002. UG – Undergraduate; G = Graduate.

			SPRING 20	03 GRA	DUATE AP	PLICA	NTS		
APPLICA	NTS TOTAL	ADI	MITTED	% ADI	MITTED	ACC	EPTED		AITTED / EPTED
2	MS	1	MS	50%	MS	1	MS	50%	MS
0	PHD	0	PHD	%	PHD	0	PHD	%	PHD
2	TOTAL	2	TOTAL	50%	TOTAL	0	TOTAL	50%	TOTAL
		1	MS			1	MS		
FEMALE	APPLICANTS	0	PHD			0	PHD		

			FALL 2003	B GRAD	UATE AP	PLICANI	rs			
APPLICANTS TOTAL		ADM	ITTED	% AD!	MITTED	ACCEPTED		% ADMITTED / ACCEPTED		
60	MS	27	MS	45%	MS	11	MS	41%	MS	
15	PHD	5	PHD	33%	PHD	5	PHD	100%	PHD	
75	TOTAL	32	TOTAL	43%	TOTAL	16	TOTAL	50%	TOTAL	
··· · · ·	-	15	MS			6	MS			
FEMALE A	PPLICANTS	3	PHD			3	PHD			

			FALL 200)4 RADI	JATE APP	LICANT	s			
APPLICAI	NTS TOTAL	ADN	1ITTED	% ADI	MITTED	ACCEPTED		% ADMITTED / ACCEPTED		
51	MS	16	MS	31%	MS	9	MS	56%	MS	
13	PHD	6	PHD	46%	PHD	5	PHD	83%	PHD	
64	TOTAL	22	TOTAL	34%	TOTAL	14	TOTAL	64%	TOTAL	
		17	MS			7	MS			
FEMALE A	PPLICANTS	4	PHD			3	PHD			

TABLE 3. Earth and Planetary Sciences – Sources and Amounts of Support for Graduate Students, July 1, 2003 – June 30, 2004.

Type of	Support	Amount of Support (\$ x 1000)
1,	University	
	Departmental Teaching Assistantships (salary*) Tuition Waiver (T.A.'s) TOTAL	\$ 175,811.00 <u>42,247.00</u> \$ 218,058.00
2.	Department	
	Research Assistantships (Salary) RA Tuition Silver/Kelley Fellowship and Research Support Alumni Fund and other Fellowships TOTAL	\$ 164,008.20 39,634.00 28,420.00 <u>41,950.00</u> \$ 274,012.20
	TOTAL	.\$ 492,070.20

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Many Graduate and Undergraduate students were supported by scholarships, fellowships, and other awards during the 2003-2004 year fact are mentioned in the UNM Foundation. During the 2003-04 year, the total value of fund awards was well over \$50,000. Many scholarships are derived from various funds that have been established for this purpose by alumni and other friends of the Department. The Department augments these awards with travel scholarships that partially offset the expenses of traveling to professional meetings (and often provides free use of vehicles to these meetings), and other scholarships supporting use of the analytical instruments and other research expenses. Many students, of course are also the recipients of funds from the University, as well as prestigious research awards fund organizations like the Geological Society of America. Recipients of these awards are listed below.

Graduate and Undergraduate Scholarships and Awards

Geology Alumni Fellowship Fund

	Jaime Barnes Maarten DeMoor Dennis Newell LeaAnne Scott	Debra Bryan Jonathan MacCarthy George Perkins Kate Zeigler	Caitlin Callahan Angela McLain Lyman Persico	Laura Clor Scott Muggleton Jessica Rasmussen						
Harry .	arry and Mabel Leonard Scholarship									
	Darrah Appelfeller Daniel Dehn Brian Kramer Melissa Nelson Nik Rael	Travis Begaye Michael Emms Kristen Martinez Sherie Pennebaker	Robert Burke Fotini Grouios Caroline Myer Chloe Peterson	Sara Caldwell Sara Hooker Linnah Neidel Ranee Onstott						
<u>Genera</u>	al Thomas Campbell Awar	<u>d</u>								
	Charles Barber Ellen Fischer Ana Moreno	Cassandre Brown Caleb Lewis	Elva Rae Carey Brian Lucero	Nick Engdahl April Lyons						
James .	Drew Pfeiffer Memorial A	ward								
	Linnah Neidel	Chloe Peterson	Sara Caldwell							
<u>Outstar</u>	Outstanding Student of the Year Award									

Stuart A. Northrop Award (Linnah Neidel) Sherman A. Wengerd Award (Chloe Peterson) J.P. Fitzsimmons Award (Kym Samuels) V.C. Kelley Outstanding Field Geologist (Michelle Leister) Roger Y. Anderson Award (Ben Ortega) Outstanding Environmental Science Graduate (Marissa Reno)

Other Graduate and Undergraduate Student Awards

New Mexico Geological Society, Lucille H. Pipkin Book Scholarship: Cassie Brown, Robert Burke, Brian Lucero Los Alamos Geological Society, Field Conference Award: Sherie Pennebaker

Albuquerque Gem and Mineral Club Scholarship: Chloe Peterson

Association for Women Geoscientists Award: Jennifer Pierce, Chloe Peterson

New Mexico Geological Society, Fall Field Conference Scholarship: Ted Cleveland, Tim Lite, Sherie Pennebaker

New Mexico Geological Society, Lucille Pipkin Senior Scholarship: Linnah Neidel, Kym Samuels

Several undergraduate students graduated with Departmental Honors, which requires original research, and Honors Thesis on this research, and a presentation to the Department. These students are:

Bachelor of Science Departmental Honors – Senior Thesis

Elva Rae Carey, cum laude, Spring, 2004 – "Forsterite from Chondrules in the Mokoia (CV3) Carbonaceous Chondrite: Cathodoluminescence and Chemistry". Dr. Rhian Jones, Advisor.

Dan Blake Eldridge, magna cum laude, Fall, 2003 – "Quaternary Travertines in the Rio Grande Rift: Connecting Deeply-Circulated Waters and Surficial Systems", Dr. Laura J. Crossey, Advisor.

Michelle E. Leister, cum laude, Spring, 2004 – "Oxygen Isotopes and Upward-Shallowing Carbonate Sequences of the Eocene Guara Formation, North-Central Spain". Dr. Maya Elrick, Advisor.

Linnah Neidel, summa cum laude, Spring, 2004 – "Oxygen Isotopes of Middle Pennsylvanian Apatitic Conodonts as a Potential Record of Pennsylvanian Glacial Ice Volume Variations". Dr. Maya Elrick, Advisor.

Melissa J. Nelson, magna cum laude, Spring, 2004 – "Impact-Produced Hydrothermal Alteration may be a Component in the Mars Soil".

Marissa Reno, summa cum laude, Spring, 2004 – "Experimental and Numerical Studies on Colloid Transport and Filtration through simulated fractures using a Parallel Plate Flow Celi". Dr. Laura J. Crossey.

Graduate Student Scholarship and Awards

Outstanding Master of Science Student

Daniel O. Breecker

Outstanding Doctor of Philosophy Student

Kurt J. Steffen

Albert M. Kudo Outstanding Teaching Assistant

Kate E. Zeigler

Outstanding Beginning Teaching Assistants

Jonathan K. MacCarthy Scott R. Muggleton

Jean-Luc Miossec Memorial Scholarship

Carolyn J. Domrose

Vincent C. Kelley Scholarship

Jennifer L. Pierce Daniel O. Breecker

Richard P. Vann Memorial Scholarship

Kate E. Zeigler

Rodney C. Rhodes Memorial Scholarship

Maarten DeMoor

Alexander and Geraldine Wanek Scholarship

Neyda Abreu	Jana Berlin	Paul Burger
Kate Klise	Angela McLain	Courtney Porreca

Burger

Jerry Harbour Memorial Endowed Scholarship Fund

Lysa Chizmadia George Perkins

Wellnitz Award

Daniel O. Breecker Kate E. Zeigler

Sigma XI Excellence in Graduate Research

Kurt J. Steffen

Sherman A. Wengered Traveling Scholarship

Jeffrey Parker Michael Petronis

Patrick and Jean McKinney Gratton Scholarship

LeaAnn Scott

Center for Advanced Studies Student Award

Kurt J. Steffen

Mineralogical Society of America for Student Research of Petrology Award

Kurt J. Steffen

Graduate Degrees Awarded

The following students received M.S. and Ph.D. degrees in Earth and Planetary Sciences, Fall 2003 and Spring, 2004 (no summer degrees are listed). Thesis/dissertation titles and faculty advisors are also indicated.

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Master of Science

Shannon "Sunny" Baer, Spring 2004 – "Geologic and Tectonic Evolution of the Manzano Peak Quadrangle and the Proterozoic Manzano Thrust Belt Manzano Mountains New Mexico" (Dr. Karl E. Karlstrom, Advisor).

Nicole M. Bailey, Spring, 2004 - "Influence of Flooding, Sediment, and Vegetation on Soil Development in the Middle Rio Grande Flood Plain, New Mexico" (Dr. Leslie D. McFadden, Advisor).

Brian J. Bierman, Fall 2003 – "Effects of Melt Transport and Magmagenesis on U-Series Isotope Systematics" (Dr. Yemane Asmerom, Advisor).

Laura E. Clor, Spring, 2004 – "Geochemistry of Volatiles and Melt Inclusions from the Sangihe Arc, Indonesia" (Dr. Tobias Fischer, Advisor).

Lynne J. Elkins, Fall, 2003 – "Volatile Recycling in the Central American Subduction Zone: Insights from Nicaraguan Gas Chemistry and Nitrogen Isotope Systematics" (Dr. Tobias Fischer, Advisor).

Melissa M. Fittipaldo, Fall, 2003 – "Thermal Histories of Basaltic Angrite Meteorites: Trace Element Partitioning among Silicate Minerals in Angra dos Reis LEW86010 and Experimental Analogs" (Dr. Carl Agee, Advisor).

Dale H. Henderson, Spring, 2004 – "Effects of Land Surface Forcing on the North American Monsoon" (Dr. Peter J. Fawcett, Advisor).

Heather A. Hibbert, Fall, 2003 – "The Dehydroxylation of Thermally-Treated Biotites and Biotites from the Jemez Volcanic Field, New Mexico: An Indicator of Pre-and Post-Eruptive Volcanic Proceesses" (Drs. Adrian J. Brearley and Zachary Sharp, Advisors).

Stephanie J. Moore, Fall, 2003 – "Streamflow, Infiltration, and Recharge in the Arroyo Hondo Watershed, North-Central, New Mexico" (Dr. Michael E. Campana, Advisor).

Doctor of Philosophy

Jerome Michael Timmons, Spring 2004 - "Mesoproterozoic Tectonic Evolution of Southwestern North America: Protracted Intracratonic Deformation, Sedimentation, and Differential Exhumation in Grand Canyon and the Rocky Mountain Region" (Dr. Karl E. Karlstrom, Advisor).

Outcomes

Study in the Department's graduate programs prepares students for a wide variety of careers in the geosciences and related fields. Below are listed the positions obtained by Ph.D. and M.S. students who graduated in 2003-2004:

<u>Ph.D.</u>

 J. Michael Timmons – Mike is a staff geologist at the New Mexico Bureau of Geology and Mineral Resources.

<u>M.S.</u>

- Shannon "Sunny" Baer Sunny teaches at a Middle School in Socorro, New Mexico.
- Nicole M. Bailey Works at URL, a large Environmental Firm.
 - Brian J. Bierman Lives in Chicago, runs a masss spectrometer in McCrane Association, Inc.
- Laura E. Clor Obtained employment in Colorado in the area of geosciences.
- Lynne J. Elkins Lynne is in the Doctoral Program at Woods Hole Marine Station, M.I.T.
- Melissa M. Fittipaldo -- Works as a Scientist at Los Alamos National Laboratory.
- Dale H. Henderson Teaching High School in Rio Rancho, New Mexico.
- · Heather A. Hibbert Works for the State of New Mexico, at the New Mexico Environmental Department.
- Stephanie J. Moore Working for the U.S. Geological Survey in Albuquerque, New Mexico.

V. DONATIONS TO DEPARTMENT (Calendar Year 2003-2004)

DONATIONS TO DEPARTMENT

January 1, 2003 to June 30, 2004 Fiscal Year

Geology Chair Account

Mr. Bill Lovejoy Ms. Paula Jane Slavin Ms. Lenore R. Pardee Mr. Wayne E. Woolworth Mr. Richard K. Reed

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Harding Pegmatite Mine

Mr. Douglas L. Cheesman Ms. Catherine D. Fuchs Ms. April Dawn Garner Mr. David S. Gordan Ms. Jeanne Henderson Lawrence and Kathleen Havens Mr. William Michael Jones Mr. Louis Kitchell Mr. James B. Kentch Sara and Daniel Marcel Ms. Mary Jo Mcilhon Mr. Geralde Schultz Robert and Gloria Smith, II. Geoscience Department French International School John Shomaker & Assoc. Inc. The Clear Springs High School Los Alamos High School Albuq. Gem and Mineral Club Boy's Scout Troop #129 Wichita State University

Sherman & Florence Wengerd Traveling Fellowship

Ms. Florence M. Wengerd

Alumni Fellowship

Earl E. Weaver Dr. Rodney C. Ewing Howard V. Finston Elizabeth T. Arms

Albert M. Kudo/Don and Ruth Power Memorial

Stephen John Whiteley

Douglas Brookins Memorial Scholarship

Stephen John Whiteley

APPENDIX I

MUSEUM AND HARDING PEGMATITE LOG

2003-2004

		ology Muser Ily 1, 2003 – Ju					
DATE	ORGANIZATION	ANIZATION GRADE # OF STUDENTS					
7-11-03	WHITTIER ELEM.	15	2				
JULY, 200	3 TOTAL	15	2				
AUGUST, 2	2003 total		0	0			
9-05-03	SCHOOL ON WHEELS	9-12 [™]	12	1			
9-15-03	OÑATE ELEM.	5 [™]	20	6			
9-22-03	MONTE VISTA ELEM.	3 RD	21	4			
9-29-03	HOME SCHOOL SCI. CLUB	K-3 RD	15	8			
SEPTEMB	er 2003 total		68	19			
10-01-03	Monte Vista Elem.	1-2 ND	5	1			
10-08-03	MONTE VISTA ELEM.	1-2 ND	5	1			
10-15-03	Monte Vista elem.	1-2 ND	5	1			
10-21-03	GERMAN SCHOOL	9-12™	32	3			
10-22-03	Monte Vista Elem.	9-12 [™]	5	1			
10-29-03	MONTE VISTA ELEM.	1-2 ND	5	1			
10-30-03	WILSON MID. SCHOOL	б-8 ^{тн}	40	5			
OCTOBER	, 2003, TOTAL		97	13			
11-05-03	ST. THERESA	8 th	9	3			
11-17-03	Sandia Base Elem.	5тн	50	10			
11-20-03	ALBUQ. HOME SCHOOL		4	1			
11-23-03	MONTE VISTA ELEM.	1-2 ND	25	5			
NOVEMBE	r, 2003 total		88	19			
12-11-03	Monte Vista Elem.	K	19	4			
DECEMBE	r, 2003 total		19	4			
1-30-04	ENCHANTED HILLS	1 ^{sr}	100	25			
1-30-04	ROOSEVELT ELEM.	2 ND	30	10			
JANUARY,	2004 TOTAL		130	35			
2-10-04	GRIEGOS ELEM.	5™	25	6			
2-19-04	BOSQUE MID. SCHOOL	8 TH	15	1			
2-20-04	BOSQUE MID. SCHOOL	8 TH	15	1			
2-27-04	BOSQUE MID. SCHOOL	8 TH	15	1			
FEBRIJARY	7, 2004 TOTAL		70	9			

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		ology Museu 11 1, 2003 – Ju		anton 1990 - Anton 1990 - Antoneo Antoneo 1990 - Antoneo Antoneo Antoneo		
DATE	ORGANIZATION	GRADE	# OF STUDENTS	# OF ADULTS		
3-11-04	BOSQUE MID, SCHOOL	8 ⁷⁷¹	15	2		
3-15-04	STAPLETON ELEM.	1 -5 [™]	30	10		
3-15-04	Peralta Elem.	3-4 [™]	35	4		
MARCH,	2004 total		80	16		
4-01-04	MONTE VISTA ELEM.	4 ^{тн}	19	3		
4-14-04	INEZ ELEM.	2 ND	16	4		
4-22-04	SY JACKSON	2 ND	40	5		
4-29-04	MCCOLLUM	5 ^{тн}	19	5		
4-29-04	MONTE VISTA ELEM.	1-2 ND	25	2		
APRIL, 20)04 total		119	19		
5-05-04	BANDALIER ELEM.	к	20	6		
5-06-04	BANAI ISRAEL	ĸ	12	2		
5-07-04	R66 Elem.	1 st	20	5		
5-07-04	SANTO DOMINGO ELEM.	2 ND -3 RD	50	5		
MAY, 200	4 total	1	102	18		
5-11-04	KIDS COLLEGE	4 ^{тн} -8тн	50	8		
6-23-04	DENNIS CHAVEZ	К-6тн	30	5		
JUNE, 2004	TOTAL	· · · · ·	80	13		
GRAND TO	DTAL		868	167		

University of New Mexico Department of Earth and Planetary Sciences Harding Pegmatite Mine Visitors - 2003 - 2004														
	Ч.,		21.1	2002	2					200	13			STATE
STATE		JULY	AUG	SEPT	Ост	Nov	DEC	JAN	FEB	MARCH	APRIL	Мач	JUNE	TOTAL
ALABAMA														
Arizona		1	4	1		1						1	8	16
ARKANSAS											35			35
CALIFORNIA	Γ		6	2	2					2		2		14
COLORADO		4	10	24	7					10		6	6	67
CONNECTICUT	Γ												1	1
Florida			1	1								1	4	7
GEORGIA	1	2								1				2
HAWAII	Г			2										2
ILLINOIS				1	6									7
Indiana	Γ			1						1			'	
KANSAS	Γ			1						1			4	4
LOUISIANA				1			l							
MARYLAND			·			1					2			2
MASSACHUSETTS				2		1								
MICHIGAN													1	3
MINNESOTA		1		1	[1
MISSISSIPPI	Γ							1		2				2
MISSOURI			1	1				1					4	5
NEBRASKA	Γ							1						
NEVADA	1			1		1		1			1		5	5
NEW HAMPSHIRE	1			1		1				1		1		
NEW JERSEY	ſ				[1					T	
NEW MEXICO	1	63	29	51	47	41		5		60	18	8	30	352
NEW YORK	t		4	1	1						4			9
NORTH CAROLINA	T		1			1		1	[
Ohio	ſ							1		-	1			1
OKLAHOMA	T	8	4					3		1	1	2		18

University of New Mexico Department of Earth and Planetary Sciences Harding Pegmatite Mine Visitors - 2003 - 2004														
				2002	2					20()3			STATE
STATE		JULY	AUG	SEPT	Ост	Nov	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	TOTAL
OREGON	ſ			1				ويعوي ألفا فتغفده						1
PENNSYLVANIA											2			2
SOUTH DAKOTA											1	1		2
TENNESSEE	Γ		2								1	7		10
TEXAS		73	14	6	18						4		25	140
VIRGINIA													1	1
WASHINGTON	Γ		4	2	2									8
WISCONSIN								2					5	7
WYOMING	Γ					1				2	2			4
CANADA			3			1								3
FRANCE	I					1								
GERMANY														
VERMONT														
Month Total		152	81	94	83	42		10		77	70	28	2 94	731

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	UNIVERSITY OF NEW MEXICO DEPARTMENT OF EARTH AND PLANETARY SCIENCES HARDING PEGMATITE MINE COLLEGE / UNIVERSITY VISITORS 2003 - 2004								
DATE	NUMBER OF Visitors	College / University							
10-04-03	14	DEPARTMENT OF LIFE EARTH, ENVIRONMENTAL SCIENCE, ATM UNIVERSITY, WEST TEXAS							
10-09-03	4	DEPARTMENT OF EARTH AND PLANETARY SCIENCES, UNIVERSITY OF NEW MEXICO, ALBUQUERQUE, NM							
10-26-03	9	RECREATIONAL SERVICES, UNIVERSITY OF NEW MEXICO, ALBUQUERQUE, NM							
10-31-03	12	PRINCETON UNIVERSITY, NEW JERSEY							
12-05-03	8	DEPARTMENT OF GEOLOGY, COLORADO COLLEGE, COLORADO SPRINGS, COLORADO							
01-28-04	10	UNIVERSITY OF IOWA							
04-08-04	15	DEPARTMENT OF EARTH SCIENCES, RICE UNIVERSITY, HOUSTON, TEXAS							
04-30-04	25	DEPARTMENT OF GEOLOGY/GEOPHYSICS, NEW ORLEANS							
05-26-04	26	NEW MEXICO BUREAU OF GEOLOGY, NEW MEXICO TECH, SOCORRO, NEW MEXICO							
05-29-04	24	UNL/VIRGINIA FIELD CAMP							
06-01-04	5	UNIVERSITY OF FLORIDA							
06-02-04	9	DEPARTMENT OF GEOLOGY/GEOGRAPHY, AUBURN UNIVERSITY, ALABAMA							
06-05-04	24	DEPARTMENT OF GEOSCIENCES, UNIVERSITY OF TEXAS							
2003 - 2004	185	College / University Visitors Total							

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APPENDIX II

Response of the Department of Earth and Planetary Sciences to the Report of the Graduate Program Review Team 2003

Response of the Department of Earth and Planetary Sciences to the Report of the Graduate Program Review Team 2003

On February 26 –28, 2003, the Graduate Program Review Team (GPRT) visited the Department as a key part of the Graduate Program Review. Prior to its visit, the GPRT had been provided with a Department Self Study as well as other materials relevant to the review. During the summer of 2003, the Department received the GPRT Report. This document represents the Department's formal response to this report. Faculty members and Research Scientists in the Department were provided with a copy of the report and given a few weeks to read the report and reflect on the report's content. The Department's response is based primarily on the results of comments and discussions that took place during two faculty meetings during late September and early October of 2003. During the second faculty meeting, the Faculty also had an opportunity to discuss two preliminary responses from two of the Department's standing committees, the Graduate Committee and the Computer Committee, and the results of their deliberations (also reviewed and endorsed subsequently by the entire faculty) are also included in this report.

The GPRT report was organized into three major sections, including Section I (Major Themes), Section II (Comments on the Department's identified "Areas of Strength") and Section III (Ancillary Issues that require attention). Section I was subdivided into sections concerning the review process itself and the "Departmental Evaluation". With respect to the GPRT comments concerning the review process, the faculty concurs with the sentiments of the team, although we note that it is our understanding that at least on aspect of their criticism of the process may be moot, in that the process will soon come under the jurisdiction of the Provost's office.

Departmental Evaluation

Quality of Education and Service Programs

The Department concurs with the GPRT's recommendation that we find a better way to report the outside usage of its facilities to the broader UNM community, also indicating that this information "should not be buried in the annual report." We are now discussing possible mechanisms to accomplish this, although we would like to point out that the GPRT was, however, probably unaware of the fact that many aspects of the Departmental facilities' research are periodically advertised to the UNM and Albuquerque community through long articles in the local newspapers. At least three to four times a year, some aspect of our graduate research programs received prominent notice, by virtue of well-written articles (typically authored by the Albuquerque Journal's fine science writer, John Fleck). Most recently, for example, aspects of our Paleomagnetism Laboratory and Climate and Surface Processes Progam were highlighted in a major story concerning important past and potential future research in the area of Valles Caldera (9/7/2003). We would also suggest that perhaps the Annual Reports of various departments, institutes and centers actually be taken far more seriously by the administration and used more effectively as the basis for various internal evaluations (either do this, or eliminate them).

With respect to the other recommendation in this subsection, the Department strongly concurs with them all. Ironically, we have just been informed that one of the three field courses that constitute the EPS Summer Field Program cannot be supported this summer owing to limited funds. The Department respects that funding is, of course, critical, but we wonder (particularly given the fact that the combination of student tuition and student fees easily would clearly provide the funds needed to support these courses) why such courses with high faculty+TA-tostudent ratios (an absolute requirement for field courses) seem to fall through the cracks.

The GPRT also recognized that "EPS has provided a home for programs that are needed for the health of the broader University. This Department has essentially stepped in where higher administration has failed to accommodate interdisciplinary programs." Programs such as the Natural Sciences Program, GIS and Environmental Science degree program were highlighted. The Department is ready and willing, with support from the Administration, to continue to expand these programs.

Quality of Research

The Department was pleased to learn that the GPRT concluded that our scientific scholarship has had "a significant impact on the discipline". We were also happy to note that the team also noted the importance of the close affiliation the Department has with IOM. The Department applauds the recent, strong support shown for IOM through the Decision to hire as IOM Director (following the retirement of Dr. James Papike), Dr. Carl Agee, as well as a new Research Scientist, Dr. Dave Draper.

Quality of Library and Computer Support Services

The Department concurs with the opinion of the GPRT.

Quality of Graduate Students and Their Scholarship.

The Department was pleased to read that the GPRT shares our opinion of the quality of our graduate students and their research.

Level of Funding

The GPRT clearly recognized the importance that various endowments and other Funds associated with the Department (such as the Caswell Silver Foundation) play in contributing to the academic productivity of the Department. The team was also impressed with the relatively large amount of funding acquired by many faculty members from NSF, funding that is won as part of a highly competitive process. Noting, however, that the Department is "poised to make a significant jump (not a slow creep) in its ranking, relative to other geoscience programs, ...", the GPRT included a section, "Research Funding Initiative", in which they essentially proposed that the Department embark upon an aggressive program to attract much larger grants and contracts from institutions such as national laboratories supported by DOE and other agencies, as part of very large cooperative projects. The faculty discussed this recommendation at length, and our response is summarized as follows: The faculty understands that the GPRT correctly recognized the chronic under-funding problem that plagues the Department, College, UNM and other universities and colleges in New Mexico, a state that is, after all, one of the poorest states in the Union. The GPRT has also correctly concluded that looking to the state for increased funding in the next decade is an exercise in fantasy. Accordingly, they conclude that the only way to significantly increase support is through dramatic increases in funding through extramural funding, if indeed it is our primary goal to join the ranks of the "top 10 programs" in the geosciences in the near future. Although in some respects this would seem to be a reasonable strategy, we would like to make the following points; (1) Some efforts have already been made recently that would seem to reflect the proposed strategy. For example, efforts of Dr. Lou Scuderi and his colleagues recently resulted in the procurement of a \$ 1.6 million NASA appropriation (one of the first of its kind at UNM) to support the development of CREATE. It is very possible that additional NASA funds at the level may also be acquired in the near future in support of CREATE and other projects linked directly and indirectly to CREATE. (2) Many faculty members strongly feel that, although NSF, NOAA, or USGS grants are typically much smaller, such research funding has played an essential role in funding the kinds of research they excel at, and has been in attracting the highly regarded graduate students who have the opportunity to conduct supported research that they are excited about, and motivated to pursue. Very large contracts are certainly inviting, but the nature of the research so funded is too often rather restricted (related to the very specific needs of DOE or DOD) and requires due consideration be given to "satisfying the client", as opposed to following one's real academic research interests. (3) The perception that huge amounts of funding are available at the local national laboratories (SNL, LANL) for such work, if only we would aggressively pursue it, may be inaccurate. Even faculty in the College of Engineering, or Departments of Physics and Chemistry (who are arguably conducting research of far greater interest to these institutions) are only rarely able to acquire particularly large contracts. (4) A few faculty members commented that if they were to start acting more like "contractors", they would want to be rewarded commensurately, as opposed to settling for UNM wages.

Remote Sensing/GIS

The Department strongly agrees with the GPRT recommendation.

Department Areas of Strength

Geochemistry/Cosmochemistry

The faculty concurs strongly with the GPRT's recommendation. We would point out that Dr. Adrian Brearley served on a key committee organized by the Deans of A & S and Engineering that is in the latter stages of development of a graduate degree in materials science, just one example of the Department's continuing role in this area.

With respect to the suggestions of the GPRT concerning the UNM-LANL Volcanology Program, the faculty, and especially Dr. Tobias Fischer (Director of this program) felt that these were quite interesting and clearly worth pursuing. We should probably note that during two recent academic years (2000-01 and 2001-02), the Department submitted as it's key request for a faculty position search a proposal to add an igneous petrologist to the Department. Such a person would essentially fill the void in the Department left due to the loss of Dr. Bert Kudo (who passed away in Jan 2000 from cancer), an igneous petrologist in the Department for over 30 years. We would also note, however, that a. limited funds in the College, coupled with the need to hire a new IOM Director, have precluded hiring such a faculty member in the past few years. Moreover, certain changes in the Department during the past decade have been such that the perceived need for other types of geoscientists (such as, perhaps, a geophysicist, as emphasized by the GPRT in the section concerning Tectonics and Geodynamics) has increased, complicating the discussion of the most appropriate "next hire". Further complicating this issue is the fact that the Department was the recipient of a large endowment in 2002 that provided some funds to support an endowed position in the area of geohydrology. Given the availability of these funds, the Department and the Dean have developed a plan to hire a geohydrologist, presumably following a search during the 2004-05 AY.

Tectonics and Geodynamics

The faculty largely concurs with key recommendation in the Tectonics and Geodynamics section, noting, however, some of the complications related to selecting the next faculty hire described in the previous paragraph. The Department has no intention of duplicating the geophysics programs established at NMTech and NMSU.

Climate/Surface Processes

The faculty was pleased to see that the GPRT was impressed with the academic productivity and potential for growth of the Climate/Surface Processes area. With respect to their recommendation concerning a graduate degree offering, we would note that although we certainly were interested in the GPRT's thoughts regarding our very preliminary thoughts concerning the eventual development of a graduate degree program in Environmental Science, the Department will first have to: (1) assess the overall results of the Evironmental Science B.S. degree program to date, and then (2) very carefully consider, on the basis of that assessment, what kind of graduate degree program would be most feasible at UNM, given available resources (e.g., faculty expertise in key areas, potential graduate teaching assistantship support, etc.). In addition, given its potential to play a role in such a program, the future directions of the Department of Geography represents an important consideration, and at this time, those directions are not at all clear.

Ancillary Issues

Sensitive Issue

In Appendix 1 a copy of the letter sent by the Department Chair to the Dean in presented that describes the results of the Chair's efforts in response to the actions proposed in this subsection.

Natural Sciences Program

The faculty concurs with the GPRT's recommendation. The Chair is presently developing a document in which we propose that the position of the Natural Science Coordinator be enhanced by establishing it as a permanent position in the Department. This proposal is being prepared in response to a recent call for proposals from all College departments that entails a plan for the establishment of permanent lecturer/instructor positions that will be funded from a \$ 400,000 allotment from the UNM Provost's office.

Field School

The faculty concurs with the GPRT's recommendation. Unfortunately we note that funding for one of the associated courses has recently been cut for the summer of 2004, largely due to overall reductions in the funds available to support such "special projects" during the summer sessions. The faculty believes that it is critical for the Administration to consider the GPRT's thoughts on this matter and to take steps as soon as possible that resolve this problem.

Student Concerns

No formal recommendation was included in this section, but the faculty will carefully consider how best to address the general issues raised by the GPRT in this section. Some of the issues raised (e.g., better computer facilities) are, however, addressed in detail in a subsequent section.

Space Needs

Again, no formal recommendation was included in this section. It is, however, unlikely that the Department will opt to convert remaining space dedicated to teaching to research use. We have pursued this strategy over the last two decades, and now only six classrooms of small to moderate size remain in the four stories of Northrop Hall. But, we note that the earlier this year, working closely with the Dean and selected members of the Department of Chemistry, several Department faculty members helped to develop a new and innovative proposal to fund a new building on the UNM campus that would be largely dedicated to imaging science. The proposal was presented to the Regents by the Dean as one of the highest ranked, large-capital requests from the College of Arts and Sciences.

Computer Facilities

The review team has pointed out several critical deficiencies in our computing facilities. We currently have a PC lab and a separate, investigator-supported UNIX facility used for research by several EPS faculty and their students. The PC lab is used both for teaching computer based lab courses and for general research by graduate students. This creates a dual-use conflict that would best be solved by creating a second PC lab in a classroom devoted to teaching, with a state-of-the-art capability in important areas such as mathematical modeling and GIS/remote sensing. This would require the purchase of several new machines and appropriate software, and most importantly, dedicated classroom space in Northrop Hall where such space is already scarce. Individual members of the department plan to submit a proposal to the NSF in the near future for this new facility and will be requesting matching funds from the university to support this effort.

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The issue of a UNIX network administrator for the research intensive computing facility has imposed problems for several years, especially as the critical need for high-end scientific computing has grown. Industry representatives have specifically mentioned lack of UNIX computational skills as a shortcoming of our current graduates. As the visiting committee points out in their report, network administration has been largely handled by junior faculty in the department (first Pazzaglia and then Fawcett) who have a vested interest in the continued functioning of the UNIX network. A knowledgeable undergraduate served as system administrator for a year, but we have been unable to find an adequate replacement for him and have concluded that such student help will not be a viable long-term solution. We are aware of other departments within A&S (and indeed throughout the university) that face a similar challenge. In light of the tremendous growth of department level high-end scientific computing, we suggest that the university should revisit how it wishes to support this endeavor. One solution might be a full time system administrator that is shared among several departments that use UNIX/LINUX machines in teaching and research.

The department considers all of these issues to be important and has devoted a considerable portion of its teaching (I & G) resources in recent years to computing related purchases and basic infrastructure. This includes upgraded network wiring and the installation of climate control in the computer labs after the visiting committee complained about this.

Academic Professional (Research Faculty) Status and Titles

Considering the recommendation in this section, the faculty certainly recognizes that it will be desirable to do more to include members of the research staff in academic and teaching matters (when appropriate). It is important to note, however, that (1) the faculty did adopt an "internal" policy in the early 1990s designed to provide the basis for designating selected members of the research staff as "faculty", as no formal policy seemed to exist at UNM at that time (and it is our impression that this policy has been employed in a satisfory manner) and (2) only recently has the College of Arts and Sciences initiated a serious effort to more clearly define policies (and definitions) relating to Research Faculty in the College. The Chair agreed to serve on the committee established by the Associate Dean for Research to help develop such policies.

Future Faculty Searches

The faculty will carefully consider the strategy described in this section, although, for reasons described above, it is unlikely we will be in a position to conduct such a search for at least two years.

Salary Compression

The faculty strongly concur with the sentiments expressed by the GPRT.

Response of department to the Graduate Program Review Team report on the Department Graduate Program.

In their report, the GPRT was extremely complimentary about all aspects of our graduate program and the quality of our graduate students. The department believes that this assessment accurately reflects the very strong commitment that we have to our graduate program. In particular, we note that the team commented specifically on our success at recruiting very high quality students from a 'surprisingly large' applicant pool.

Only one, relatively minor, issue was raised by the GPRT in regard to the graduate program. This issue concerns the potential use of our quite extensive scholarship and fellowship funds (supported by contributions from alumni, etc) to help recruit and support our graduate students. The department awards scholarship monies to graduate students each spring semester, in amounts that are determined by the return on the investment funds as determined by the UNM Foundation. The team suggested that the department consider using these funds in a somewhat different way, i.e. using the funds to increase the amounts of RA and TA offers made to graduate students tudents

applicants in order to make our annual stipends more attractive and more competitive with other universities. We note here that TA salaries at UNM have not undergone any substantial increase for several years.

The faculty discussed this issue and decided that it would be useful to consider this suggestion in detail. Based on this decision, the Graduate Committee, who oversees the awarding of scholarship and fellowship monies, will review the different scholarship funds to determine if such an approach is feasible fiscally. The department has a number of scholarships that are linked to academic excellence in specific subdisciplines of earth sciences. Monies from these scholarship funds cannot be redeployed in the way that the Graduate Unit Review Team suggested. However, there are other funds such as the Alumni fund that could, potentially, be used to increase graduate student stipends.

Finally, we note that while the department is very willing to use its resources to attract the very best students to UNM (and has been very successful), a general commitment on the part of the University to make graduate student stipends more competitive is highly desirable, if not essential in order to maintain the high level of graduate recruitment that the department currently maintains. At present, the excellence of our graduate program is attracting top quality students and is compensating to a significant degree for our rather uncompetitive stipends.

APPENDIX 1

Response of the Department Chair to the Statement on Page 10 of the Graduate Unit Review Ream Report

On page 10 of the report of the Graduate Unit Review Team submitted to the Office of Graduate Studies last July, the team included a brief and somewhat unusual note under the heading "Sensitive Issue", followed by a recommendation for the Chair to address a personnel issue, in association with the Dean. Soon after learning of this issue during the Spring semester, 2003, the Department Chair initiated a detailed investigation. The first part of this investigation entailed preliminary discussions with selected Review Team members. The purpose of these discussions was to determine the specific nature of the evidence that ultimately led to the decision of the Graduate Unit Review Team to include the statement in their report. On the basis of information provided during these preliminary discussions, subsequent investigations focused on discussions with a selected group of individuals who were presumed to have some knowledge or information directly relevant to "sensitive issue". These discussions were of course held in confidence, given the sensitive nature of the issue and the fact that the information was originally provided confidentially to the Graduate Review Team during a time period set aside according to OGS policy for such discussions. The Chair conducted follow-up discussions with three of the four Review Team members. Following what ultimately proved to be a rather extensive, time-consuming investigation, the Chair reported the results and his assessment of the investigation to the Associate Chairs, a few key faculty members with previous and specific knowledge of at least some key aspects of the issue, and ultimately the Dean. The Chair concluded, on the basis of information produced during the investigation, that there was no basis for justifying additional, specific action in response to the "sensitive" issue. The Dean has indicated to the Chair that the Chair's overall investigation of this issue was appropriate and that he was satisfied with the Chair's ultimate response.

Les McFadden Chair, Department of Earth and Planetary Sciences

Cc Reed Dasenbrock

THE ANNUAL REPORT OF THE INSTITUTE OF METEORITICS

in Francisco

July 1, 2003 to June 30, 2004

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THE ANNUAL REPORT OF THE INSTITUTE OF METEORITICS

July 1, 2003 to June 30, 2004

Carl B. Agee, Director

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INTRODUCTION

The Institute of Meteoritics (IOM), founded in 1944, was one of the first institutions in the world devoted to the study of meteorites. Sixty years later, IOM has earned a reputation as a premier center for research on the origin and early history of our solar system and the evolution of the planets. Activities of the IOM include:

- 1. Microbeam and isotopic analyses of meteoritic and other planetary materials for research on the origin and nature of solar system bodies.
- 2. Laboratory synthesis of astromaterials at extreme pressures and temperatures to understand the formation, evolution, and present state of planetary interiors.
- 3. Exploring the solar system through participation in current and future NASA missions to Mars, the Moon, comets, asteroids, and other planetary destinations.
- 4. Teaching excellence at the undergraduate and graduate level through courses, seminars, and supervised research.
- 5. Curation of the IOM's collection of more than 600 different meteorites, including martian and lunar specimens, which constitutes an extremely valuable asset for researchers worldwide.
- 6. Education and public outreach to several thousand people of all ages who visit the Meteorite Museum in Northrop Hall each year. The museum is also the focus of several funded minority outreach programs.

The 2003-2004 academic year was one in which the IOM experienced a significant increase in new grants and expenditures on scholarly research. Lars Borg and Horton Newsom were awarded multi-year grants and now join IOM's Charles Shearer in NASA's Mars Fundamental Research Program (MRFP). David Draper was awarded a three year grant from the National Science Foundation, thus broadening the IOM's funding base and establishing a new foothold for us in the realm of Earth science research. Barbara Cohen joined the IOM as a new assistant research professor carrying out lunar and planetary studies funded by NASA Cosmochemistry. We were also successful in renewing our funded research efforts, as exemplified by Carl Agee's three-year award from NASA to continue his work on planetary magmas at high pressure. In total, the IOM booked over \$875K in research expenditures from overhead-encumbered accounts in calendar year 2003. This represents an increase of more than 55% over CY 2002. We believe this growth a base staffing allotment of 5.5 FTE for the entire Institute (including Director Agee's position). This translates into an impressive expenditure/FTE ratio of \$159K/FTE for CY 2003.

The future looks bright for the IOM, especially in light of the President's new vision for NASA that emphasizes solar system exploration and new robotic and human missions to the Moon and Mars. We note that this places IOM right in the mainstream of NASA's new focus. In particular, we are very excited about IOM's participation in the "Moonrise" proposal, which is one of two finalists vying to be selected in 2005 as the next New Frontiers mission budgeted at \$700 million.

FACULTY AND STAFF

FACULTY AND STAFF

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Director, Institute of Meteoritics

Dr. Carl B. Agee

Senior Research Scientists III

Dr. David Draper Dr. Horton Newsom Dr. Charles Shearer

Senior Research Scientists II

Dr. Lars Borg Dr. Rhian Jones

Research Scientist

Michael Spilde

Research Professors

Dr. James J. Papike Dr. Robert Reedy

Research Assistant Professor

Dr. Barbara Cohen

Postdoctoral Associates

Dr. James Karner Dr. Kyeong Kim

Administrative Personnel

Shannon Clark, Program Coordinator Yolanda Skotchdopole, Administrative Assistant II Kevin Sandoval, Workstudy

Graduate Students

Johny Chaklader (M.S.) Rachel Dwarzski (M.S.) Jennifer Edmunson (Ph.D.) Justin Hagerty (Ph.D.)

Additions to Staff

Shannon Clark Dr. Barbara Cohen

Separation from Staff

Sarah Lentz

1. RESEARCH

RESEARCH

Research activities of staff and students of the Institute of Meteoritics cover a wide range of topics, mostly aimed at understanding the origin and early history of our solar system and the evolution of the planets. More specifically, we have major research initiatives to investigate the igneous evolution of martian meteorites and the Moon, and research into an understanding of early solar system processes through the study of chondritic meteorites.

Our research during the report period has resulted in the publication of scientific articles in major national and international journals, as well as in the publication of abstracts of papers presented at national and international conferences. The extensive involvement of students in original research projects in the Institute of Meteoritics is particularly important for their education and advanced training.

Funded Research

Experimental Studies of Planetary Magmas at High Pressure (Funded by the Cosmochemistry Program, NASA. P.I. Carl Agee)

This project was renewed for three years for a total of \$300K. The continuation of this work now focuses on three main tasks: 1) Partitioning of slightly siderophile and volatile elements between mantle and core, 2) Mobility of silicate and metallic liquids during planetary differentiation, and 3) The source regions of lunar picrite glasses. All three tasks will be carried out in the high-pressure and analytical laboratories in the IOM. Results from these studies should advance our understanding of the early differentiation of the Earth, Moon, Mars, and other planetary bodies.

Geochronology of Planetary Materials: A Petrologic Approach

(Funded by the Cosmochemistry Program, NASA. P.I. Lars Borg)

Funded research is to complete combined Rb-Sr and Sm-Nd isotopic studies and trace element ion microprobe studies of martian and lunar samples in order to constrain: (1) the timing of igneous activity on these bodies, (2) the petrogenesis of the samples and differentiation history of the bodies, and (3) the affects of impact metamorphism and secondary alteration on samples that have been heavily shocked on their parent planet and/or altered on Earth. The combination of geochronology and ion microprobe studies permits better elucidation the relationship between the individual mineral fractions used to define the isochron age and the minerals in the sample. Thus, the purity of the mineral fractions can be assessed and element mobilization, resulting from shock and alteration, can be evaluated. The U-Pb isotopic system has also been developed in an attempt to constrain the behavior of these elements on Mars and the Moon. The lunar samples that are currently under investigation include the meteorite Northwest Africa 773 and the Apollo 17 samples 78236 and 76335. Martian samples, include the basaltic meteorites Zagami, Dhofar 019, Dar al Gani 476. In addition to these studies, ¹⁴²W - ¹⁴²Nd isotopic analysis of a suite of martian meteorites is underway with collaborators at the Field Museum, Chicago. The goal of this study is to better define the age of core-mantle-crust differentiation.

develop and extend predictive relationships that can be applied over a wide range of relevant petrologic regimes.

Other significant activity: upgrading of high-pressure experimental petrology laboratory by adding a refurbished piston-cylinder press and converting existing smaller hydraulic press to serve as a second multi-anvil apparatus.

Bridging the Gap: Linking SW Native American Culture with the Teaching of Astronomy and Space Science

(Funded by the Space Telescope Science Institute IDEAS Program, NASA. P.I. Horton Newsom)

This project involves a summer teacher-training workshop for teachers from the four corners region and the Navajo Nation. The emphasis is astronomical themes.

A Broker/Facilitator Partnership to Serve the South Central, Southwest Region and Hawai'i (Funded by the Office of Space Science-Broker Facilitator Program, NASA. P.I. Horton Newsom)

Dr. Newsom is a co-investigator for a Broker-facilitator project led by the Lunar and Planetary Science Institute. This project coordinates activities for teachers and informal science centers to learn more about NASA planetary science missions and research. A major component of the program is an intensive annual professional development workshop for teachers. These workshops provide interactions with NASA researchers and a field science experience.

Educational activities for the DAWN mission to asteroids Ceres and Vesta

(Funded by the Office of Space Science, NASA. P.I. Horton Newsom)

Dr. Newsom is a member of the educational team for the DAWN mission and is providing information on the connection between meteorites and asteroids for the creation of web sites and educational activities. The DAWN mission will be the first dedicated mission to the main asteroid belt.

Hydrothermal fluids and alteration on Mars: Sources of life-related and toxic elements in the near surface environment

(Funded by the Mars Fundamental Research Program, NASA. P.I. Horton Newsom)

This project directed by Dr. Horton Newsom will determine the composition of materials altered by aqueous fluids under simulated Mars conditions at temperatures from near freezing to 35°C. The experimental samples will include simulated Mars minerals and glasses provided by Jeff Moore and Mark Bullock altered under simulated Mars conditions in the Ames research center's Mars Brines experimental facility. The samples will be analyzed using a powerful suite of microanalytical techniques to obtain three-dimensional quantitative information about the distribution and composition of alteration phases and leached minerals. These techniques include scanning electron microscope and electron microprobe quantitative analysis and quantitative spatial data analysis using x-ray mapping, and secondary ion mass spectrometry for quantitative analysis of trace elements, ion imaging, and depth profiling. The results will be used to improve our understanding of the geochemistry of life-related and toxic elements in the near surface environment of Mars.

Impact Crater Hydrothermal Systems

(Funded by the Planetary Geology and Geophysics Program, NASA. P.I. Horton Newsom)

This project, directed by Dr. Horton Newsom, involves the study of processes involving water and impact craters on Mars, using remote sensing data and terrestrial analogues. Hydrothermal systems are good locations to search for evidence of biotic or prebiotic chemistry. Hydrothermal systems may also be connected with the formation of the Martian soil, and the climate history of Mars. Lakes in large impact craters on Mars could have also been associated with hydrothermal systems and heated by impact melt. Impact craters provide the most accessible samples of hydrothermal systems on Mars for robotic investigation and sample return. 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 is providing information on the formation of a crater in a basaltic terrain analogous to Mars. The mineralogy and chemical transport processes at the crater are studied using Scanning Electron Microscopy, Electron Microprobe, and stable isotope studies. The mineralogy and chemistry of the ironoxide 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. A related effort involves the study of martian surface processes in the vicinity of large impact features, with particular emphasis on the landing sites for the Mars Exploration Rover missions.

Skytellers: A resource for smaller community and school planetariums

(Funded by the National Science Foundation. P.I. Horton Newsom)

Dr. Newsom is a participant in the Skytellers project led by the Lunar and Planetary Science Institute. This project is producing a series of Native American stories with astronomical themes, coupled with a short "science" story as a way to inspire students' interest in science. Dr. Newsom provides input into the content of the science stories, initial training of teachers in use of the material and assistance with the evaluation of the effectiveness of the material.

<u>Stars on Earth, Space Science Research Experience and College Preparation for Underrepresented</u> <u>Secondary Students</u>

(Funded by NASA-EOSS, OEOP, Minority University Education and Research Partnership Initiative in Space Science. P.I. Horton Newsom)

In conjunction with the Southwestern Indian Polytechnic Institute (SIPI) this program provides underrepresented high school students and college students with research experience in space science and technology-based academic preparation in math, science, engineering and technology (MSET). SIPI college students also benefit from the establishment of new courses in Earth and Planetary Science and astronomy, and the opportunity to be involved in related research projects at the University of New Mexico.

The research activities include a meteorite identification program, and research on martian impact craters. Identifying meteorites requires a basic understanding of meteorite properties and the ability to conduct a logical investigation using basic geological equipment. In suspicious cases or samples, advanced analysis is conducted at UNM using a scanning electron microscope

operated by SIPI students. An additional project involves the use of GIS technology to investigate the properties of large impact basins on Mars. As part of these programs, SIPI students attend the Lunar and Planetary Science Conference in Houston and present posters and meet with professionals at the Johnson Space Center.

Comparative Planetary Mineralogy

(Funded by the Cosmochemistry Program, NASA. P.I. James Papike)

This is a comparative planetary mineralogy study emphasizing the valence state partitioning of Cr. Fe, Ti, and V over crystallographic sites in olivine, pyroxene, and spinel from planetary basalts. The sites that accommodate these cations are the M2 site (6-8 coordinated) and M1 site (6 coordinated) in pyroxene, the M2 site (6-8 coordinated) and M1 (6 coordinated site) in olivine, and the tetrahedral and octahedral sites in spinel. The samples we studied are basalts from Earth, Moon, and Mars, and range in oxygen fugacity conditions from IW-2 (Moon) to IW+6 (Earth), with Mars somewhere in between (IW to IW+2). The significant valence state players at these fO_2 conditions are: (from low to high fO_2) Ti⁴⁺, V³⁺, Fe²⁺, Cr²⁺, Cr^{3+} , V^{4+} , and Fe^{3+} . V^{2+} and Ti^{3+} play a minor role in the phases considered for the Moon, and are found in very low concentrations. V^{5+} plays a minor role in these phases in oxidized terrestrial basalts because it is probably in lower abundance than V⁴⁺, and has an ionic radii that is so small (0.054nm, 6- coordinated), that it is almost at the lower limit for octahedral coordination, and can even be tetrahedrally coordinated. The role of Cr^{2+} in the Moon is significant, as Cr^{2+} predominates in basaltic melts at fO_2 less than IW-1. Lunar olivine has been found to contain mostly Cr^{2+} , while coexisting pyroxene contains mostly Cr^{3+} . Ferric iron is very important in Earth. less so in Mars, and nonexistent in the Moon. The importance of the Fe²⁺ to Fe³⁺ transition cannot be overstated, and indeed their crystal chemical differences, in terms of behavior (based on size and charge), are comparable to the differences between Mg and Al. We note that for pyroxene in six of the seven terrestrial suites we studied, Fe³⁺ (in the M1 site) coupled with Al (in the tetrahedral site) is one of the top two most important charge balance substitutions. This is of lesser importance in Mars and does not exist in lunar basalts.

Subtask: Chondritic Meteorites. (With Co-I. R. Jones)

Our studies of chondritic meteorites emphasize petrologic studies of individual chondritic components, particularly chondrules and isolated grains. Our goals are to investigate the early history of the solar system by determining the nature of events that took place in the solar nebula, as well as on chondrite parent bodies after accretion. We include studies of primitive nebular material such as chondrules from carbonaceous chondrites, as well as a study of the nature of thermal metamorphism on chondrite parent bodies. Our studies emphasize microbeam techniques (EMP, SEM, TEM, and SIMS) that enable us to interpret the detailed petrography of complex objects. In addition, we collaborate with other laboratories to obtain isotopic data. This provides powerful insights into the chondrite record of early solar system events. As a complement to these petrologic studies, we also perform experiments that help to interpret mineralogical problems in chondrites and other planetary samples.

Extraterrestrial Studies Using Nuclear Interactions

(Funded by the Cosmochemistry Program, NASA. P.I. Robert Reedy)

This project uses nuclides made in space by energetic radiations for various studies. Of the many types of energetic particles in space, two -- the galactic cosmic rays and solar energetic particles -- have nuclei in them with enough energy to induce nuclear reactions. Some of the product nuclei from these reactions, such as Ne-21 and 1.5 Myr Be-10, can be identified as having been made by these energetic particles.

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These cosmogenic nuclides are observed in meteorites and in material near the surface of the Moon and Earth. They are used to study the recent histories of the irradiated objects and of these energetic particles. The emphasis of the work currently being done at UNM is to develop and test good models for these nuclear interactions, especially the rates for making cosmogenic nuclides, and to use the results of these models to interpret measured concentrations of cosmogenic nuclides. One project is the study of the recent exposure histories of the meteorites that were ejected from Mars and the Moon.

Mapping Martian Elemental Compositions Using Gamma Rays and Neutrons

(Funded by the Mars Odyssey Program, NASA through the Mars Gamma-Ray team office at the University of Arizona in Tucson. P.I. Robert Reedy)

The gamma rays that escape from Mars and detected in orbit by the Mars Odyssey Gamma Ray Spectrometer are studied to get the composition of the top meter of the martian surface. The gamma rays are made by the decay of naturally-occurring radioelements (K, U, and Th) or by cosmic-ray interactions (mainly neutron-capture or inelastic-scattering reactions). The fluxes of gamma rays or neutrons with specific energies are used to map the abundances of H, O, Si, Cl, K, Fe, and Th in the martian surface and to determine concentrations of several other elements for large regions of Mars. The work at UNM includes determining backgrounds to the gamma rays of interest and on accurately predicting the fluxes of the gamma rays and neutrons expected from Mars for a range of compositions and stratigraphies. These results are then used to get maps of elemental abundances in the surface of Mars and to help understand the origin and evolution of Mars.

Behavior of Th and Sm in Planetary Surface and Magmatic Environments. Extending Remotely Sensed Chemical Data to Better Understand Planetary Evolution (Funded by IGPP/DOE. P.I. Charles Shearer)

We are currently in a revival of planetary exploration. In the last decade, the surfaces of Venus, Moon, Eros, and Mars have been explored by spacecrafts. Future missions involving the collection of remotely sensed data, surface in situ data, and samples have been proposed for Mars, the Moon, Mercury, Venus, Europa, and numerous asteroids. This wide range of planetary data sets can provide a wealth of insights concerning planetary processes, but individually data sets have limitations. For example, remotely sensed geochemical data provide extremely valuable information concerning the global distribution of elements on a planetary surface. However, it is difficult to extend these data to a quantitative understanding of a planet's interior because of bedrock cover by planetary regolith and an overall lack of quantitative understanding how selected elements may behave during magmatic and surface evolution. On the other hand, samples (such as basalts) provide a wealth of information such as ages of planetary surfaces, thermal history of a planet, and the composition and evolution of the crust, mantle, and core. However, sample are more difficult to put into the global context so commonly provided by remotely sensed data.

The Lunar Prospector mission, in which LANL played an important role, has produced the first chemical map of a complete planet, but direct comparison between this orbital data set and the "ground truth" samples returned from the Moon has been difficult. The most precise data from Lunar Prospector are those for Th, REE and Fe. Ongoing and planned asteroid and Mars missions also will generate high quality Th and Fe data. The use of these data will be compromised because in most extraterrestrial systems the behavior of Th has not been well documented. This research focuses upon the behavior of Th (relative to Sm and Fe) during magmatic and regolith evolution. This study consists of three tasks that are critical for extending the interpretation of Th remotely sensed data: (1) Th-Sm during regolith evolution. These tasks will focus upon the distribution of Th and Sm in individual mineral phases using

ion microprobe analysis. Task 1 will determine the compositional range (Th, Sm, and Th/Sm) of primary basalts the lunar mantle can potentially produce. Task 2 will provide insights into the behavior of Th, Sm, and Th/Sm during the crystallization of an extremely well-documented, natural basaltic system. Task 3 will provide documentation of Th and Sm in lunar regolith components and insights into how Th and Sm behave during regolith formation.

These tasks are being carried out by a team consisting of LANL staff, UNM faculty-staff, and UNM Ph.D. and MS students. The LANL and UNM scientists have been intimately involved in bridging the scientific gap between remote sensing and sample science. The focus of this study is a unique combination of extending remotely sensed data collected from planetary surfaces to understanding the evolution of planetary interiors, and earth (and planetary) materials. This research will directly support ongoing and planned lunar and martian missions involving a large number of UNM-LANL scientists.

Behavior of Volatile Elements During Shock of Basalts

(Funded by the Mars Fundamental Research Program, NASA. P.I. Charles Shearer)

The mineralogy and geochemistry of martian basalts have been used to estimate the amount of water in martian magmas and to model the martian hydrologic cycle. The mineralogy of martian basalts and the composition of associated melt inclusions have been interpreted as indicating that martian basaltic magmas had very little water (less than 0.1 % H₂O). On the other hand, the behavior of geochemical tracers (Li and B) has been interpreted as indicating that this low water content was the product of extensive magmatic outgassing and that martian basalts initially contained significant water. This interpretation is based on the observation that Li and B decrease in the rims of pyroxenes in basaltic shergottites resulting from the partitioning of these incompatible elements into a fluid phase during degassing. In that many martian basalts experienced substantial shock (20-40 GPa), it is possible that the magmatic volatile record preserved in martian basalts has been disturbed. To better understand the possible effects of shock on this volatile record, we are investigating the redistribution of volatile elements in naturally and experimentally shocked basalts.

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2. PUBLICATIONS

PUBLICATIONS

<u>Peer-reviewed Publications</u> (Institute staff/students in bold)

Agee CB, Draper DS (2004) Experimental constraints on the origin of Martian meteorites and the composition of the Martian mantle. Earth and Planetary Science Letters 224:415-429

Borg LE, Draper DS (2003) A petrogenetic model for the origin and compositional variation of the martian basaltic meteorites. Meteorites and Planetary Science 38:1713-1732

Borg LE, Nyquist LE, Wiesmann H, Reese Y (2003) The age of Dar al Gani 476 and the differentiation history of the martian meteorites inferred from their radiogenic isotopic systematics. Geochimica et Cosmochimica Acta 67:3519-3536

Boynton WV, Feldman WC, Mitrofanov IG, Evans LG, Reedy RC, Squyres SW, Starr R, Trombka JI, d'Uston C, Arnold JR, Englert PAJ, Metzger AE, Wänke H, Brückner J, Drake DM, Shinohara C, Fellows C, Hamara DK, Harshman K, Kerry K, Turner C, Ward M, Barthe H, Fuller KR, Storms SA, Thornton GW, Longmire JL, Litvak ML, Ton'chev AK (2004) The Mars Odyssey Gamma-Ray Spectrometer Instrument Suite. Space Science Reviews 110:37-83

Cabrol NA, Newsom HE et al, (2003) Exploring Gusev crater with MER A: review of science objectives and testable hypotheses. Journal of Geophysical Research (Planets) ROV17:(DOI 10.1029/2002JE002026)

Cahill JT, Floss C, Anand M, Taylor LA, Nazarov MA, Cohen BA (2004) Petrogenesis of lunar highlands meteorites: Dhofar 025, Dhofar 081, Dar al Gani 262, and Dar al Gani 400. Meteoritics and Planetary Science 39:503-530

Draper DS, Xirouchakis D, Agee CB (2003) Trace element partitioning between garnet and chondritic melt from 5 to 9 GPa: implications for the onset of the majorite transition in the martian mantle. Physics of the Earth and Planetary Interiors 139:149-169

Grew ES, Rao AT, Raju KKVS, Hejny C, Moore CJ, Waters DJ, Yates MG, Shearer CK (2003) Prismatine and ferrohögbomite-2N2S in granulite-facies Fe-oxide lenses in the Eastern Ghats Belt at Venugopalapuram, Vijayanagaram district, Andhra Pradesh, India: do such lenses have a tourmalineenriched lateritic precursor? Mineralogical Magazine 67:1081-1098

Hagerty JJ, Newsom HE (2003) Hydrothermal alteration at the Lonar Lake impact structure, India: implications for impact cratering on Mars. Meteoritics and Planetary Science 38:365-381.

Jones RH, Leshin LA, Guan Y, Sharp ZD, Durakiewicz T, Schilk AJ (2004) Oxygen isotope heterogeneity in chondrules from the Mokoia CV3 carbonaceous chondrite. Geochimica et Cosmochimica Acta 68:3423-3438

Karner JM, Papike JJ, Shearer CK (2003) Olivine from planetary basalts: chemical signatures that indicate planetary parentage and those that record igneous setting and process. American Mineralogist 88:806-816

Karner JM, Papike JJ, Shearer CK (2004) Plagioclase from planetary basalts: Chemical signatures that reflect planetary volatile budgets, oxygen fugacity, and styles of igneous differentiation. American Mineralogist 89:1101-1109

Newsom HE, Barber CA, Hare TM, Schelble RT, Sutherland VA, Feldman WC (2003) Paleo-lakes and impact basins in Sinus Meridiani, Mars, implications for the formation of hematite deposit. Journal of Geophysical Research (Planets) ROV 16:(DOI 10.1029/2002JE001993)

Norman MD, **Borg LE**, Nyquist LE, Bogard DD (2003) Chronology, geochemistry, and petrology of a ferroan noritic anorthosite clast from Descartes breccia 67215: clues to the age, origin, structure, and impact history of the lunar crust. Meteorites and Planetary Science 38:645-661

Northup DE, Barns SM, Yu LE, Spilde MN, Schelble RT, Dano KE, Crossey LJ, Connolly CA, Boston PJ, Natvig DO, Dahm CN (2003) Diverse microbial communities inhabiting ferromanganese deposits in Lechuguilla and spider caves. Environmental Microbiology 5(11):1071-1086

Papike JJ, Karner JM, Shearer CK (2003) Determination of planetary basalt parentage: A simple technique using the electron microprobe. American Mineralogist 88:469-472

Righter K, Shearer CK (2003) Magmatic fractionation of Hf and W: constraints on the timing of core formation and differentiation in the Moon and Mars. Geochimica et Cosmochimica Acta 67:2497-2507

Rubin AE, Jones RH (2003) Spade: an H chondrite impact-melt breccia that experienced post-shock annealing. Meteoritics and Planetary Science 38:1507-1520

Russell SS, Zipfel J, Folco L, Jones R, Grady M, McCoy T, Grossman JN (2003) The Meteoritical Bulletin, No. 87, 2003 July. Meteoritics and Planetary Science 38:A189-A248

Sharp ZD, Papike JJ, Durakiewicz T (2003) The effect of thermal decarbonation on stable isotope compositions of carbonates. American Mineralogist 88:87-92

Shearer CK, Papike JJ, Borg LE (2004) Planetary sampling strategies: lessons learned from the analysis of small extraterrestrial samples. Space Technologies and Applications International Forum, American Institute of Physics 925-930

Weidenspointner G, Kiener J, Gros M, Jean P, Teegarden BJ, Wunderer C, Reedy RC, Attié D, Diehl R, Ferguson C, Harris MJ, Knödlseder J, Leleux P, Lonjou V, Roques J-P, Schönfelder V, Shrader C, Sturner S, Tatischeff V, Vedrenne G (2003) First identification and modelling of SPI background lines. Astronomy and Astrophysics 411:L113-L116.

Abstracts

(Institute staff/students in bold)

Agee CB (2003) Experimental constraints on planetary core formation. International Workshop on Highpressure Mineral Physics and Geochemistry, Spring-8, Japan

Agee CB, Draper DS (2003) Experimental constraints on the origin of SNC meteorites and the composition of the Martian mantle. Abstracts of the 13th V.M. Goldschmidt Conference, Kurashiki, Japan, Geochimica et Cosmochimica Acta 67(18S):A8

Agee CB (2004) Benefits of a Mars sample return. Space Technology and Applications International Forum, Albuquerque NM

Agee CB, Draper DS (2004) Experimental constraints on the iron content of the Martian mantle. Lunar and Planetary Science Conference XXXV, LPI Contribution 1197, CD ROM, Houston TX

Agee CB, Draper DS, Berlin J, Dwarzski R (2004) Iron content of the Martian mantle. Abstracts of the 14th V.M. Goldschmidt Conference, Copenhagen, Denmark, Geochimica et Cosmochimica Acta 68(11S): A733

Boston PJ, Spilde MN, Northup DE (2004) Detectable biosignatures for Mars: Biogenic Fe/Mn oxides in caves and surface desert varnish. Proceedings of the Third Astrobiology Science Conference, NASA Ames Research Center, California

Boynton WV, Prettyman TH, **Kim K**, Taylor GJ, Evans LG, Feldman WC, Mitrofanov IG, **Reedy RC**, Squyres SW, Starr R, Hamara DK, Janes DM, Kristopher K, Chamberlain M (2003). Constraints on the distribution of hydrogen in the polar regions of Mars and implications for ice formation processes. American Geophysical Union, Fall Meeting 2003, abstract #P32B-05

Boynton W, Janes D, Kerry K, Kim K, Reedy R, Evans L, Starr R, Drake D, Taylor J, Wänke H, d'Uston C (2004) The distribution of non-volatile elements on Mars: Mars Odyssey GRS Results. Lunar and Planetary Science XXXV:(CD-ROM #1950)

Chaklader J, Shearer CK, Hörz F, Newsom HE (2004) Volatile behavior in lunar and terrestrial basalts during shock: implications for martian magmas. Lunar and Planetary Science XXXV: #1397, Lunar and Planetary Institute, Houston, Texas, USA (CD-ROM)

Cohen BA (2004) Can granulite metamorphic conditions reset 40Ar-39Ar ages in lunar rocks? Lunar and Planetary Science Conference XXXV, abstract #1009

Cohen BA, Brearley AJ, Ganguly J, Liermann H-P, Keil K (2004) Experimental study of serpentinization reactions. Lunar and Planetary Science Conference XXXV, abstract #1423

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Evans, LG, Starr RD, Reedy RC, Boynton WV (2004) Elemental composition variations for large dusty and rocky regions on Mars using gamma-ay data for the Mars Odyssey gamma-ray spectrometer. Lunar and Planetary Science XXXV (CD-ROM #1258)

Foley NC, Wadhwa M, **Borg LE**, Janney PE (2004) Implications of isotopic and redox heterogenities in silicate reservoirs on Mars. Workshop on Oxygen in the Terrestrial Planets, LPI contribution #1203:26

Foley NC, Wadhwa M, **Borg LE**, and Janney PE (2004) The differentiation history of mantel reservoirs on Mars from W and Nd isotopic compositions of SNC meteorites. Lunar and Planetary Science XXXV, Abstract # 1879, CD-ROM

Grew ES, Yates MG, Shearer CK, Sheraton JW, Sandiford M, (2003) Beryllium in pelitic granulites and anatectic pegmatites of the ultrahigh-temperature Napier Complex, Enderby Land, East Antarctica: The role of sapphirine. Abstracts with Programs

Hagerty JJ, Shearer CK, Vaniman DT (2004) Closed system behavior of trace elements during basalt crystallization in the Makaopuhi Lava Lake, Hawaii. Abstracts from American Geophysical Union, Fall Meeting

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Hagerty JJ, Shearer CK, Vaniman DT (2004) Thorium and samarium in lunar pyroclastic glasses: insights into the composition of the lunar mantle and basaltic magmatism on the Moon. Lunar and Planetary Science XXXV

Herd CD, Fench JE, Chacko T, Heaman LM, and **Borg LE** (2004) Monazite in Mafic dykes from the Bastar Craton, India: implications for LREE depletion in Martian basalts. EOS Transactions 85(17): Abstract P53A-07

Horan MF, Walker RJ, Shearer CK Papike JJ (2004) Low abundances of highly siderophile elements in lunar mantle imply prolonged late accretion. Abstracts, Special Supplement, Geochimica et Cosmochimica Acta, 68:11S, A739

Jones RH, Leshin LA, Guan Y (2004) Oxygen isotopes in early solar system materials: a perspective based on microbeam analyses of chondrules from CV carbonaceous chondrites. Lunar and Planetary Science Conference XXXV, Abstract #1865, Lunar and Planetary Institute, Houston (CD-ROM)

Jull, AJT, Kim KJ, Reedy RC, McHargue LR, Johnson JA (2004) Modeling of ¹⁴C and ¹⁰Be production rates in meteorites and lunar samples. Lunar and Planetary Science XXXV:(CD-ROM #1191)

Karner JM, Sutton SR, Papike JJ, Shearer CK and Newville M (2004) A new oxygen barometer for solar system basaltic glasses based on vanadium valence. Lunar and Planetary Science XXXV

Kim KJ, Reedy RC (2003) Numerical simulations of cosmogenic nuclide production rates in the Apollo 15 deep drill core. Geochimica et Cosmochiica Acta 67 (Suppl 1):A214. [Goldschmidt Conference abstract]

Kim KJ, Reedy RC (2003) Numerical simulation of cosmogenic-nuclide production rates in Knyahinya. Meteoritics and Planetary Science 38 (Suppl): abstract no 5223

Kim KJ, Reedy RC (2003) Terrestrial ages using ratios of cosmogenic nuclides: numerical simulations. International Symposium on Evolution of Solar System Materials: A New Perspective from Antarctic Meteorites, National Institute of Polar Research, Tokyo, Japan, September 3-5, 2003 (http://yamato.nipr.ac.jp/AMRC/abstracts/Kim.pdf).

Kim KJ, Reedy RC (2004) Production rates of cosmogenic nuclides in the Knyahinya L-Chondrite. Lunar and Planetary Science XXXV (CD-ROM #1359)

Maloy AK, Treiman AH, Shearer CK (2004) A ferroan gabbronorite clast in lunar meteorite ALHA81005: major and trace element composition, and origin. Lunar and Planetary Science XXXV

Masarik J, Brückner J, Reedy RC, Englert P (2003) Gamma-ray fluxes from thick target irradiations: experiments and Monte Carlo simulations. Meteoritics and Planetary Science 38 (Suppl), A125 (abstract #5239)

Neal CR, Shearer CK (2004) Garnet in the lunar mantle: further evidence from volcanic glasses. Lunar and Planetary Science XXXV

Neal CR, Banerdt WB, Chenet H, Gagnepain-Beyneix J, Hood L, Jolliff B, Khan A, Lawrence DJ, Lognonné P, Mackwell S, Mendell W, Miller K, Nakamura Y, Schmitt HH, Shearer CK, Wieczorek M (2004) The lunar seismic network: mission update. Lunar and Planetary Science XXXV

Nelson MJ, Newsom HE (2003) Impact hydrothermal alteration of terrestrial basalts: explaining the rock component of the martian soil. Third International Conference on Large Meteorite Impacts, Lunar and Planetary Science Institute #4099

Nelson MJ, Newsom HE, Shearer CK, Rietmeijer FJM (2004) The nature of alteration clays and element mobilization in Chicxulub Yaxcopoil-1 drill hole. 67th Annual Meteoritical Society Meeting (2004) 5214.pdf

Newsom HE, Sutherland V, Barber CA, Schelble RT, Hare TM, Livingston A (2003) Evidence for an ancient multi-ringed basin in Meridiani Planum and associated channels and basins. Mars Crater Morphology Meeting, Flagstaff AZ

Newsom HE, Hagerty JJ (2003) Evidence for impact-induced hydrothermal Alteration at the Lonar Crater, India, and Mistastin Lake, Canada. Third International Conference on Large Meteorite Impacts #4116

Newsom HE, Barber CA, Schelble RT, Hare TM, Feldman WC, Sutherland V, Livingston A, Lewis K (2003) Fluvial and lacustrine processes in Meridiani Planum and the origin of the hematite by aqueous alteration. Sixth Mars conference, Lunar and Planetary Institute, Houston TX #3233

Newsom HE, Nelson MJ, Shcarer CK, Rietmeijer FJM, Gakin R, Lee K (2004) Major and trace element variations in impact crater clays from Chicxulub, Lonar, and Mistastin, implications for the martian soil. Lunar and Planetary Science XXXV, #1087, Lunar and Planetary Institute, Houston TX (CD-ROM)

Northup DE, Spilde MN, Boston PJ, Crossey LJ, and Dahm CN (2004) Microbial mineral formation in cave ferromanganese deposits. Proceedings of the 227th American Chemical Society National Meeting, Anaheim CA

Papike JJ, Mackwell S (2004) Oxygen in the solar system: origins of isotopic and redox complexity. In Lunar and Planetary Science XXXV, Abstract #1021, Lunar and Planetary Institute, Houston

Reedy RC, Boynton WV, Hamara D, Kerry K, Janes D, Keller JM, Kim KJ, Prettyman TH, Taylor GJ, Brückner J, Wänke H, Evans LG, Starr R, Squyres SW, Karunatillake S, d'Uston C, Gasnault O and Mars Odyssey GRS Team (2003) Martian multi-elemental maps from the Mars Odyssey gamma-ray spectrometer. Meteoritics and Planetary Science 38 (Suppl), A135 (abstract #5261)

Reedy RC, Boynton WV, Taylor GJ and Mars Odyssey GRS Team (2003) Multi-element maps from the Mars Odyssey gamma ray spectrometer. Geochimica et Cosmochimica Acta 67 (Suppl 1), A394 [Goldschmidt Conference abstract]

Reedy RC, Kim KJ (2004) Production rates of noble-gas isotopes in Eucrites. Lunar and Planetary Science XXXV (CD-ROM #1357)

Shearer CK, Borg LE (2004) KREEP-rich magmatism: diversity of composition and consistency of age. Lunar and Planetary Science XXXV, Abstract #1390, CD-ROM

Shearer CK, Karner JM, Papike JJ, and Sutton SR (2004) Oxygen fugacity of Mare basalts and the lunar mantle. Application of a new microscale oxybarometer based on the valence state of vanadium. In Lunar and Planetary Science XXXV, Abstract # 1617, Lunar and Planetary Institute, Houston

Shearer CK, Papike JJ, Borg LE (2004) Planetary sampling strategies: lessons learned from the analysis of small extraterrestrial samples. Space Technologies and Applications International Forum-STAIF, American Institute of Physics, Abstract p 180

Shearer CK (2004) The role of shock in the redistribution of volatiles and volatile elements. Implications for the interpretation of Martian basalts. Abstracts from Fall American Geophysical Union Meeting

Sisterson JM, Kim KJ, Reedy RC (2004) Revised production rates for ²²Na and ⁵⁴Mn in meteorites using cross sections measured for neutron-induced reactions. Lunar and Planetary Science XXXV (CD-ROM #1354)

Spilde MN, Boston PJ, Northup DE (2003) Subterranean soil development. Journal of Cave and Karst Studies 65(3):188

Sprague AL, Boynton WV, Kim K, Reedy R, Kerry K, Janes D (2004) South polar Ar enhancement as a tracer for southern winter horizontal meridional mixing. Lunar and Planetary Science XXXV (CD-ROM #1644)

Sutton, SR, Karner JM, Papike JJ, Delaney JS, Shearer CK, Neville M, Eng P, Rivers M, Dyer MD (2004) Oxygen barometry of basaltic glasses based on vanadium valence determinations using synchrotron microxanes. In Lunar and Planetary Science XXXV, Abstract #1725, Lunar and Planetary Science Institute, Houston

Taylor GJ, Boynton W, Hamara D, Kerry K, Janes D, Keller J, Feldman W, Prettyman T, Reedy R, Brückner J, Wänke H, Evans L, Starr R, Squyres S, Karunatillake S, d'Uston C, Gasnault O and Mars Odyssey GRS Team (2003) Martian multi-elemental maps from the Mars Odyssey gamma ray: igneous and aqueous processes on Mars: evidence from measurements of K and Th by the Mars Odyssey gamma ray spectrometer. Sixth International Conference on Mars, July 20-25 2003, Pasadena CA, abstract #3207

Treiman AH, Newsom HE, Hoehler, T, Tsairides C, Karlstrom K, Crossey L, Kiefer W, Garcia-Pichel F, Aubele J, Crumpler L (2003) Field/lab training workshops in planetary geology and astrobiology for secondary school teachers. Abstract EOS, American Geophysical Union Fall Meeting

Walker RJ, Horan MF, Shearer CK, Papike JJ (2004) Low abundances of highly siderophile elements in the lunar mantle: evidence for prolonged late accretion. In Lunar and Planetary Science XXXV, Abstract #1110, Lunar and Planetary Institute, Houston

3. PROFESSIONAL TRAVEL

PROFESSIONAL TRAVEL

Carl Agee, Director and Professor

- Goldschmidt Conference and the Spring-8 workshop, Japan. September 6-17, 2003.
- Lunar and Planetary Science Conference, Houston, TX. March 14-17, 2004.
- Goldschmidt Conference, Copenhagen DK. June 5-9, 2004.
- COMPRES Meeting, Lake Tahoe, CA. June 18-23, 2004.
- MEPAG Meeting, Monrovia, CA. June 30 July 2, 2004.

Lars Borg, Research Scientist II

- Lunar & Planetary Science Conference, Houston TX. March 15-19, 2004.
- Mars Exploration Planning & Analysis Group, Pasadena CA. June 28 July 1, 2004.

David Draper, Research Scientist III

- Mars Exploration Program Analysis Group Meeting, NASA Jet Propulsion Laboratory, Pasadena, CA. September 2003.
- XXXV Lunar and Planetary Science conference, Houston, TX. March 14-17, 2004.

Rhian Jones, Research Scientist II

- Arizona State University to use ion microprobe. November 10-12, 2003.
- 35th Lunar and Planetary Science Conference, Houston, TX. March 15-19, 2004.

Horton Newsom, Research Scientist III

- Teacher training workshop entitled "The Great Desert: Geology and Life on Earth and Mars," sponsored by the Lunar and Planetary Institute and the University of New Mexico, Albuquerque, NM and Grand Canyon, AZ. July 12-19, 2003.
- "SkyTellers" educational outreach planning meeting at the Lunar and Planetary Institute, Houston. August 20-21, 2003.
- NASA sponsored "Mars Crater Morphology" meeting in Flagstaff Arizona. October 9-10, 2003.
- Field work at the Lonar impact crater in India. Gave invited talks at the Astrophysics Institute, Pune, India and the Physical Research Laboratory, Ahmedabad, India. January 7-22, 2004.
- Space Technology and Applications International Forum (STAIF 2004), Albuquerque, NM. February 8-11, 2004.
- Brown Vernadsky Institute Mars Symposium at the Lunar and Planetary Institute, Houston. March 13-14, 2004.
- XXXIV Lunar and Planetary Science Conference, Houston, TX. March 14-19, 2004.
- Mars Fundamental Research review panel meeting. June 27 July 1, 2004.

James Papike, Research Professor

- JPL Moonrise Meeting, Houston, TX. January 2-4, 2004.
- LPI-Return to Moon, Houston, TX. February 29-March 2, 2004.
- Oxygen: LPSC Meeting, Houston, TX. March 12-18, 2004.

Robert Reedy, Research Professor

- Worked on gamma-ray spectroscopy in space, Centre d'Etude Spatiale des Rayonnements, Toulouse, France. July 1-25, 2003.
- 66th Meteoritical Society Meeting, University of Muenster, Germany. July 28-August 1, 2003.
- Worked on planetary gamma-ray spectroscopy at the Max Planck Institute for Chemistry, Mainz, Germany. August 4-5, 2003
- Worked on cosmogenic nuclide data at the Technical University of Munich, Garching, Germany. August 7, 2003.
- Analyzed Mars Odyssey gamma-ray data at NASA's Goddard Space Flight Center, Greenbelt, MD. September 10-12, 2003.
- Mars Odyssey Gamma-Ray Spectrometer Science Team Meeting, NASA Headquarters, Washington, DC. September 16-17, 2003.
- Mars Odyssey Gamma-Ray Spectrometer Team Meeting, University of Arizona, Tucson. November 17-21, 2003.
- Mars Odyssey Gamma-Ray Spectrometer Science Team Meeting, University of Arizona, Tucson. January 13-15, 2004.
- Geochemical Conference, University of California at San Diego, La Jolla, CA. February 13, 2004.
- Worked on analysis of the Mars Odyssey gamma-ray data at NASA's Goddard Space Flight Center, Greenbelt, MD. February 27-30, 2004.
- 35th Lunar and Planetary Science Conference, League City, Texas. March 15-19, 2004.
- Discussed research involving cosmogenic nuclides, nuclear data, and backgrounds in Ge detectors with colleagues in Berkeley, CA. March 31–April 2, 2004.
- Mars Odyssey Gamma-Ray Spectrometer Science Team Meeting, University of Arizona, Tucson. May 11-13, 2004.
- Discussion with A.J. T. Jull at the University of Arizona, Tucson, on cosmogenic nuclides. May 14, 2004.
- Worked on analysis of the Mars Odyssey gamma-ray data at NASA's Goddard Space Flight Center, Greenbelt, MD. June 14-17, 2004.

Michael Spilde, Research Scientist

- Capitan, New Mexico to participate in scientific assessment of a new portion of Fort Stanton Cave for US Bureau of Land Management. July 1-2, 2003.
- Porterville, California to attend National Speleological Society Meeting. August 2-8, 2003.
- Annual Fall Field Conference, New Mexico Geological Society, Gallup, NM. September 25-28, 2003.
- 24th Annual New Mexico Mineral Symposium. Socorro, New Mexico. November 8-9, 2003.
- Tucson, AZ to provide scientific assessment of a new cave for Pinal County (Arizona) Parks and Recreation Department. December 19-21, 2003.

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- Anaheim, California to attend annual meeting of the American Chemical Society. March 28-April 1, 2004.
- 2004 Spring Meeting of the New Mexico Geological Society. Socorro, New Mexico. April 16, 2004.
- Field trip for NM Tech class on caves and karst geology at Carlsbad Caverns National Park, NM. April 16-18, 2004.
- Hanksville, Utah and vicinity for fieldwork. May 28- June 1, 2004.
- Carlsbad, NM for fieldwork in caves in the Guadalupe Mountains and Carlsbad Caverns National Park, NM. June 24-29, 2004.

4. FACILITIES

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FACILITIES

Curation and Meteorite Museum

The meteorite collection is an extremely valuable asset for research conducted in the IOM. Researchers around the world also make extensive use of our collection, and we have many active research loans. We also maintain several loans to permanent educational exhibitions around the country.

The collection now includes samples of approximately 600 different meteorites. We continue to expand the collection and acquire new meteorites, which is achieved through trading, making purchases and receiving donations of material. Discoveries of hundreds of new meteorites in North Africa in recent years have made many rare types of meteorites available to our collection through meteorite dealers.

Our meteorite catalog is now available on the internet, downloadable as a pdf file. The searchable catalog is interfaced with the current collection database, so it is continuously updated. This achievement was accomplished with the help of Dr. William Hudspeth of EDAC, UNM.

During the period of this report, we have initiated a major project to renovate the Meteorite Museum. Funds from the NASA Education and Public Outreach program have enabled us to begin redesigning the space, and to determine a projected budget for fundraising. Capital improvement funds have been requested from UNM, and other sources of funding are being pursued.

Electron Microprobe and Scanning Electron Microscope Laboratories Managed by Michael Spilde, Research Scientist

We were successful in 2002 in acquiring funds to buy a new electron microprobe. The old microprobe lab in room B03 was renovated and installation of the new JEOL 8200 microprobe took place in 2003. The instrument was accepted in May 2004. An introductory, hands-on training class was offered by the manufacturer's representative on site in June and several subsequent training sessions were done during the summer and fall of 2003. A new lab assistant, Jana Berlin, was hired during the Spring semester and was trained on the new probe. During the past year, Jana and I have trained 18 students and faculty from UNM and NM Tech on the use of the instrument. We have also written a major part of an operations manual for use with the instrument. Writing the manual is an ongoing project and will continue over the next year.

The microprobe currently has 22 users and the SEM now has 33 users, 16 of which were trained this year. The users of both instruments represent students, research staff and faculty from UNM and New Mexico Tech, several users from Los Alamos National Labs and users from several high-tech businesses in Albuquerque.

Both the SEM and microprobe labs are "service labs" that offer analytical services to Departmental and University clients and to the general public, in addition to providing services to Institute researchers and students. Lab personnel will provide analytical service for academic and non-academic clients or may train and assist users on the two instruments.

Analyses and other work were performed by J. Berlin and M. Spilde for the following UNM academic clients:

- M. Atencio, Mechanical Engineering Department, (SEM)
- D. Breeker, Dept. of Earth & Planetary Science (SEM)
- D. Brevnov, Chemistry & Nuclear Engineering Dept. (microprobe)
- G. Courtin, Center for Microengineered Materials (SEM)
- Datye, Chemistry & Nuclear Engineering Dept. (SEM)
- R. Devine, Center for High Technology Materials (SEM)
- M. DeMoor, Dept. of Earth & Planetary Science (SEM & microprobe)
- T. Fischer, Dept. of Earth & Planetary Science (microprobe)
- J. Garcia, Civil Engineering Department, (SEM)
- Ghosh, Civil Engineering Department, (SEM)
- P. Hall, Biology Department, (SEM)
- K. Howe, Civil Engineering Department, (SEM)
- J. Husler, Dept. of Earth & Planetary Science (SEM)
- S. Levendosky, Chemistry & Nuclear Engineering Dept. (SEM)
- R. Loehman, Chemistry & Nuclear Engineering Dept. (SEM & microprobe)
- T.J. Morton, Inst. for Space and Nuclear Studies (SEM)
- G.V. Rama Rao, Center for Microengineered Materials (SEM & microprobe)
- S. Rhodes, Chemistry & Nuclear Engineering Dept. (SEM & microprobe)
- Steffen, Anthropology department (microprobe)
- L. Scott, Dept. of Earth & Planetary Science (SEM)
- F. van Swol, Chemistry & Nuclear Engineering Dept. (SEM)
- H. Xu, Dept. of Earth & Planetary Science (SEM)
- Y. Yang, Center for Microengineered Materials (SEM)

Analyses were conducted for the following external academic, commercial and government clients:

- Alion Science & Technology, Chicago. IL (SEM)
- Danlin Products, Albuquerque (SEM)
- Case Western Reserve University (microprobe)
- HT Micro, Albuquerque (SEM)
- Los Alamos National Laboratory (SEM)
- Lovelace Respiratory Research Institute, Albuquerque (SEM)
- New Mexico Museum of Natural History and Science (SEM)
- New Mexico State University (SEM)
- New Mexico Tech (SEM & microprobe)
- Office of Medical Investigator, Albuquerque (SEM)
- QM Technologies, Albuquerque (SEM)
- Red Sky Plating, Albuquerque (SEM)
- Sandia National Laboratory (SEM & microprobe)
- Sumner Associates, Santa Fe (SEM)
- TPL, Inc., Albuquerque (SEM)
- University of Southern Florida (microprobe)
- URS, Inc., Albuquerque (SEM)
- Western Illinois University (SEM)

In addition to providing analytical services to the community, the labs are also involved in educational classes and public outreach programs. A presentation of general science interest was given to Route 66 Grade School from Tijeras, NM, on May 7 with 24 students present.

The UNM/SNL Ion Microprobe Managed by Charles Shearer, Research Scientist III

A CAMECA IMS 4f Secondary Ion Mass Spectrometer (SIMS), originally purchased by Sandia National Laboratories (SNL) in 1989, is located in the Institute of Meteoritics adjacent to other microbeam instrumentation. C.K. Shearer and J.J. Papike negotiated with SNL to the transfer of this 2 million dollar facility to UNM. It was moved to UNM From the Advanced Materials Laboratory in November of 2001. This instrument is used primarily for trace level (ppb range) chemical analyses on small (<30 micrometers) areas. In addition, it is also used for determining the isotopic signatures of small domains within geochemically significant specimens. This machine is also used for determining high resolution (< 10 micrometers) chemical depth profiles within geological and engineered materials.

High Pressure Experimental Petrology Laboratory

Managed by David Draper, Research Scientist III

The bulk of the experimental work presently underway in our group, largely funded by NASA, involves investigations of the conditions of formation of magmas that might be parents to the martian meteorites. In particular, we have been studying trace element partitioning between chondritic silicate melt and coexisting garnet at pressures of 5 Gpa and above, where garnet begins to undergo the transformation to the higher-pressure majorite form. In another application of our melting experiments, we are assessing how well melts of chondritic mantle compositions matched proposed parent liquids for martian meteorites. It appears that our experimental melts can reproduce some of the important major element features of proposed martian parent liquids, but that a somewhat less Fe-rich mantle is required than what is commonly assumed for the martian interior.

High-Temperature Experimental Petrology Laboratory Managed by Rhian Jones, Research Scientist II

The high-temperature experimental petrology laboratory now includes one Deltech, vertical muffle tube, high-temperature furnace that has gas-mixing capabilities and programmable temperature control. The Astro furnace that was previously housed in this lab was dismantled and donated to SUNY-Kingsborough in October 2003. The lab (room 306C) now also incorporates several lower-temperature ovens.

5. TEACHING

TEACHING

Carl Agee, Director and Professor

Fall 2003: EPS 365 Exploring the Solar System

Spring 2004: EPS 465/565 Mars Evolution

Graduate Student Committees

Daniel Breeker Johny Chaklader Andrew Dufrane Rachel Dwarzski Jennifer Edmunson Melissa Fittipaldo Justin Hagerty

Lars Borg, Research Scientist II

Courses

Spring 2004: Guest lecturer -- EPS 465/565 Mars Evolution

Graduate Student Committees

Jennifer Edmunson

David Draper, Research Scientist III

Courses

Fall 2003: Guest lecturer – EPS 365 Exploring the Solar System

Graduate Student Committees

Jamie Barnes Jana Berlin Andy DuFrane Rachel Dwarzski Maarten de Moor

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Rhian Jones, Research Scientist II

Courses

Fall 2003: EPS 365 Exploring the Solar System, two lab sessions.

Spring 2004: EPS 513 Planetary Materials

Graduate Student Committees

Neyda Abreu Jana Berlin Paul Burger Lysa Chizmadia Melissa Fittipaldo Mel Strong Chris Wetteland

Undergraduate Student Advisement

Rae Carey

Horton Newsom, Research Scientist III

Courses

Fall 2003: Guest lecturer – EPS 365 Exploring the Solar System

Spring 2004: Guest lecturer – EPS 465/565 Mars Evolution Guest lecturer – EPS 513 Planetary Materials

Graduate Student Committees

Ivan Thorsos

Undergraduate Student Advisement

Charles Barber Melissa Nelson

James Papike, Research Professor

Graduate Student Committees

Jennifer Edmunson Melissa Fittipaldo Justin Hagerty Jim Karner Chris Wetteland

Charles Shearer, Research Scientist III

Graduate Student Committees

Jennifer Edmunson Justin Hagerty Jim Karner

Michael Spilde, Research Scientist

Courses

Fall 2003: EPS 518 Scanning Electron Microscopy and Electron Probe Microanalysis Guest lecturer for a New Mexico Tech class: "Introduction to Cave and Karst Processes," February 19, 2004.

6. POSTDOCTORAL ASSOCIATES

POSTDOCTORAL ASSOCIATES

Jim Karner

Jim Karner is currently a Post-Doctoral Fellow in the IOM under the direction of Dr. Jim Papike, where his main area of research is determining oxidation conditions of planetary basalts by means of X-ray Absorption Near-Edge Spectroscopy (XANES) using the element vanadium. The XANES experiments are done in collaboration with the Advanced Photon Source facility at Argonne National Laboratory in Chicago, IL.

Jim gave an oral presentation at the 34th Lunar and Planetary Science Conference, titled "A new oxygen barometer for solar system basaltic glasses based on vanadium valence" He also gave a talk at the Oxygen in the Terrestrial Planets 2004 workshop that was titled "Determining the oxygen fugacity of lunar pyroclastic glasses using vanadium valence-an update."

In addition to his postdoctoral duties, Jim also volunteers his time to a few of the IOM's public outreach activities. These activities include working with Dr. Horton Newsom in developing and implementing space-based inquiry activities for middle school students, and assisting in the development of a meteorite identification program with the Southwestern Indian Polytechnic Institute (SIPI).

Kyeong Kim

Dr. Kyeong J. Kim got her Ph.D. in geology from Victoria University in Wellington, New Zealand. Since May 2002, she has been working with Prof. Robert Reedy as a post-doctoral researcher on two NASA-supported projects – the Mars Odyssey Gamma-Ray Spectrometer experiment and studies of cosmogenic nuclides under the Cosmochemistry Program. For both projects, she has been using the computer code MCNPX (Monte Carlo N Particle eXtended) to calculate the fluxes of neutrons and protons inside matter that are made by cosmic rays. We use those fluxes with cross sections for a range of nuclear reaction to calculate rates of those reactions. Studies that we have done include gamma ray and neutrons fluxes in and above Mars, the cosmic-ray-exposure records of meteorites and lunar samples, and the rates for making cosmogenic noble-gas isotopes in the surface of the Jovian satellite Europa. Dr. Kim has also worked on studies of gamma rays measured from a thick target irradiated by high-energy protons and on the analyses of gamma-ray spectra.

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7. GRADUATE STUDENTS

GRADUATE STUDENTS

Jennifer Edmunson (Ph.D.)

Jennifer Edmunson continues to work on her Ph.D. with the Institute of Meteoritics. She has completed all of the course requirements for her doctoral degree in Earth and Planetary Sciences, and submitted her first manuscript for peer-reviewed publication. Her dissertation research involves radioactive isotope dating of two magnesium suite rocks brought back from the Moon during the Apollo 17 mission. A NASA Graduate Student Researchers Program fellowship provides a significant portion of the funding for Jennifer's research. The samples she will date have been acquired by the IOM, and mineral separations for one sample have begun. Jennifer will complete the necessary chemical separation procedures and mass spectrometry in collaboration with both the UNM and the NASA Johnson Space Center isotope labs. The isotopic and trace element data she obtains will further constrain the age of lunar magma ocean crystallization and subsequent magmatism on the Moon. Jennifer attended the 35th Lunar and Planetary Science Conference in Houston in March.

Justin Hagerty (Ph.D.)

As part of his doctoral research, Justin is studying the magmatic history of the Moon by conducting insitu analyses of lunar basalts and volcanic glasses from the Apollo sample suite. These results will be compared with remote sensing data in order to better understand the thermal evolution of the Moon on a global scale.

Johny Chaklader (M.S.)

Johny Chaklader, B.A. Colgate University, has been enrolled in the M.S. program since Fall 2003. Johny's thesis is designed to explore the effects of shock and subsequent thermal metamorphism on the redistribution of volatile elements in terrestrial, lunar and martian basalts. Zoning of volatile elements, such as Li and B within pyroxenes of martian meteorites is used to infer the magmatic water-contents of Mars. However, preliminary results of Johny's research, presented at the 35th Lunar and Planetary Science Conference in a poster entitled "Volatile behavior in lunar and terrestrial basalts during shock: implications for martian magmas" suggest that these volatile element records may have been disturbed.

Rachel Dwarzski (M.S.)

Rachel Dwarzski began the Masters program in Fall 2003 after completing her Bachelor's at Oberlin College in Ohio. Rachel's master's research involves evaluating potentially competing effects of incorporation of Ti and Cr in garnets in Fe-rich compositional systems on trace element partitioning between that mineral and coexisting silicate melts at high pressure. This work is part of a larger, NSF-funded experimental research program intended to expand our ability to predict garnet-melt partitioning behavior over a range of compositions, temperatures, and pressures applicable to petrogenesis in the interiors of the terrestrial planets.

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8. DEPARTMENTAL AND UNIVERSITY ACTIVITIES

DEPARTMENTAL AND UNIVERSITY ACTIVITIES

Carl Agee, Director and Professor

- Facilities Committee (EPS)
- Presented a talk on "Mars Sample Return" to the Center of Advanced Studies, November 13, 2003.
- Participated in UNM's Federal Priorities selection process.

Visitors to IOM

- Dr. Russel Hemley, Carnegie Institution of Washington, DC, visited the IOM on March 29, 2003.
- Dr. Ronald Cohen, Carnegie Institution of Washington, DC, visited the IOM on March 29, 2003.

Lars Borg, Research Scientist II

Visitors to IOM

• Dr. Steve Symes, University of Tennessee, Chattanooga, visited the IOM in June 2004.

David Draper, Research Scientist III

Visitors to IOM

- Dr. Nancy Chabot, Case Western Reserve University, Cleveland, OH, visited the IOM in August 2003.
- Dr. Linda Elkins-Tanton, Brown University, Providence, RI, visited the IOM in September 2003.

Rhian Jones, Research Scientist II

Member of UNM Museum Directors' Consortium.

Horton Newsom, Research Scientist III

- Member, New Mexico Space Grant Faculty Advisory Board.
- Member, diversity Programs/Faculty Advisory Council for the college of engineering, UNM.
- Educational outreach coordinator and director of TOPPS (Training and Outreach Programs in Planetary Science) for the Institute of Meteoritics.
- Sept. 3, 2003, attended meeting with educational experts from Lockheed Martin and the Dean of A.&S. to discuss future E/PO needs.
- Sept. 16, 2003, presented IOM seminar talk "IOM probe results from impact crater studies."
- Graduate student recruitment hosted visits by Miriam Riner and Simone de Leuw.

- March 5, 2004, presented departmental green chile seminar "Travels through India."
- April 19, 2004, presented IOM seminar talk "Recent results from the Lonar impact crater.

Visitors to IOM

- Dr. Pierre Rochette, CNRS-Université d'Aix-Marseille, visited the IOM on June 3, 2004.
- Dr. Roger Wiens, Los Alamos and 8 other participants for ChemCam Meeting, visited the IOM June 4-5, 2004.

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Robert Reedy, Research Professor

Visitors to IOM

- Prof. Peter A. J. Englert, Chancellor, University of Hawaii at Manoa, visited the IOM on February 4, 2004.
- Mr. Naoyuki Yamashita, graduate student, Waseda University, Tokyo, Japan, visited the IOM March 8-12, 2004.
- Prof. Jozef Masarik, Vice-Dean, Komensky University, Bratislava, Slovakia, visited the IOM March 23-30, 2004

Charles Shearer, Research Scientist III

• Member of Earth & Planetary Sciences Facilities Committee.

Michael Spilde, Research Scientist

- Presented IOM Research Seminar "Terrestrial caves: Potential biomarkers and analogs for Martian life," February 3, 2003.
- Served on the Department of Earth and Planetary Sciences Computer Committee.

9. PROFESSIONAL ACTIVITIES

PROFESSIONAL ACTIVITIES

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Carl Agee, Director and Professor

- Invited Speaker at the International Workshop on High-pressure Mineral Physics and Geochemistry, Spring-8, Japan.
- Invited Speaker at Los Alamos National Laboratory, December 16, 2003.
- Attended the annual meeting of COMPRES as UNM's representative, Lake Tahoe CA, June 19-22, 2004.
- Attended the Mars Exploration Program Analysis Group meeting at Monrovia CA, June 30-July 2, 2004.

Lars Borg, Research Scientist II

- Mars Exploration Planning & Analysis Group Goals Committee. June 2004-present.
- Cosmochemistry Program Review Panel. August 2003-present.

Rhian Jones, Research Scientist II

• Member of the Nomenclature Committee of the Meteoritical Society.

James Papike, Research Professor

- Member of NASA Cosmochemistry MOWG.
- Joint Chair, Steering Group, NASA Cosmochemistry and LPI Initiative "Oxygen in the Solar System."
- American Geophysical Union (Past Secretary of V. G. & P. Section).
- Geochemical Society (Past Vice President; Past President).
- Geological Society of America (Fellow).
- Meteoritical Society (Fellow).
- Mineralogical Society of America (MSA Medalist; Life Fellow; Past Council Member. Past Vice President; Past President).
- Society of Economic Geologists (Fellow; Past Council Member).

Robert Reedy, Research Professor

• Member, Mars Odyssey Gamma-Ray Spectrometer Flight Investigation Team.

Charles Shearer, Research Scientist III

- Chair, Lunar and Planetary Institute Science Council.
- Member, Lunar and Planetary Institute Director Search Committee.

• Chair, CAPTEM (Curation and Planning Team for Extraterrestrial Materials) Lunar Allocation Subcommittee.

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- Member, CAPTEM (Curation and Planning Team for Extraterrestrial Materials).
- Member, CAPTEM (Curation and Planning Team for Extraterrestrial Materials) oversight committee to transfer Apollo Samples to White Sands, New Mexico.
- Organizer, The Moon Beyond 2002. Future of Lunar Science and Exploration, Taos, New Mexico.
- Member, Lunar and Planetary Science Conference program Committee.
- Team Leader, New Views of the Moon.

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10. EDUCATIONAL OUTREACH

AND

PUBLIC SERVICE

EDUCATIONAL OUTREACH AND PUBLIC SERVICE

Meteorite Museum

The Meteorite Museum is the most important focus of the Institute of Meteoritics' public service and outreach efforts. Several thousand people of all ages visit the Museum each year and many school parties visit the Museum to enhance scientific projects in Earth Sciences and Solar Systems studies. IOM personnel commonly volunteer to give guided tours of the Museum and laboratories to groups of visiting students, from preschool age to senior citizens.

Carl Agee, Director and Professor

- Presented a talk on "Astromaterials and the Institute of Meteoritics" to the University's Diversity Programs Bridge Freshmen, July 8, 2003.
- Presented a talk on "Mars Sample Return" to the New Mexico Research Council, at the Sevilleta NM Wildlife Service Conference Room, March 19, 2004.

Rhian Jones, Research Scientist II

- Coordinated and conducted tours of the Meteorite Museum for visiting schools, UNM students and other interested groups.
- Identified numerous suspect meteorites received in person and in the mail from members of the public and answered many e-mail and telephone enquiries. Worked with H. Newsom on project in which SIPI students participate in suspect meteorite identification.

Horton Newsom, Research Scientist III

- Educational Outreach Coordinator, Institute of Meteoritics.
- Developed educational outreach programs for the Institute of Meteoritics, funded by NASA and the National Science Foundation.
- Assisted with Astronomy day activities at the Lodestar Museum, May 10, 2003.
- Assisted with a star party at Wilson Middle School, September 25, 2003.
- Presented activities to 50 MESA students during visit to UNM, June 8, 2004.
- Assistant Scoutmaster, Space Sciences and Astronomy Merit Badge Advisor, Boy Scout Troop 119, Albuquerque NM.
- Met with numerous members of the public who brought in suspect meteorites.

Michael Spilde, Research Scientist

- Served on scientific assessment team for the Roswell BLM Office in assessing the environmental and scientific potential of a new area of Fort Stanton Cave near Capitan, New Mexico, July 2, 2003.
- Served on scientific assessment team for the Pinal County (Arizona) Parks and Recreation Dept. in assessing the environmental and scientific potential of a significant new cave discovered near Tucson, AZ, December 20-21, 2003.
- Conducted Microprobe & SEM lab tours and demonstrations for several elementary and junior high school groups.

11. PUBLICITY

PUBLICITY

IOM and the Community

During the year, IOM has seen a continued to receive numerous inquiries concerning suspect meteorites, as well as general information concerning the composition of meteorites, where to search for meteorites, etc. This in turn has created media attention toward our department. Our staff participates and cooperates with the various newspapers, periodicals, radio and television requests to the best of our ability and resources.

Horton Newsom, Research Scientist III

- September 29, 2003, *Albuquerque Tribune*. Dr. Newsom was the subject of an article "Probe should help UNM group's study of Mars" about the MER rover mission.
- January 5, 2004, Albuquerque Tribune. Dr. Newsom was the subject of an article "Rocks in pictures have scientist giddy" about the MER rover mission.

Michael Spilde, Research Scientist

• February 2004, Picture and interview appeared in *Tucson Citizen* (newspaper) regarding a significant new cave discovered near Tucson.

ANNUAL REPORT

Department of Economics University of New Mexico

July 1, 2003 – June 30, 2004

Richard Santos Chair

THE ANNUAL REPORT OF THE DEPARTMENT OF ECONOMICS July 1, 2003 – June 30, 2004 Richard Santos, Chair

1. Significant Developments During the 2003-2004 Academic Year

Professor Christine Sauer was on sabbatical, Fall 2003

Professor Stu Burness was on sabbatical, Spring 2004.

Professor Melissa Binder was on sabbatical, Spring 2004.

Professor Phil Ganderton was promoted to Full Professor, Spring 2004.

Professor Christine Sauer was promoted to Full Professor, Spring 2004.

Professor Robert Berrens was appointed to Regents Lecturership by the College of Arts and Sciences, Spring 2004.

Professor Richard Santos completed his 4 year term as department chair, Summer 2004.

Administrative Assistant II, Sarah Dilmore, received an outstanding staff award from the Provost's office.

A new Graduate Student Handbook was revised to reflect changes in curriculum and the new field of international/development economics.

2. Significant Plans and Recommendations for the Near Future

The department has been approved to conduct an employment search for a new faculty member in the area of Latin American economics.

Professor Phil Ganderton has been appointed as the new department chair, effective August 2004.

The department will work to fill staff and administrative vacancies.

The department will continue to seek additional resources to support graduate students.

3. Publications

Eight of the department faculty had eleven journal articles published in the 2003 calendar year.

R. Berrens, A. Bohara, H. Jenkins-Smith, C. Silva, and D. Weimer. 2003. "Information and Effort in Contingent Valuation Surveys: Application to Global Climate Change using National Internet Samples." *Journal of Environmental Economics and Management*.

D. Scorgin and R. Berrens. 2003. "Rationed Access and Welfare: Case of Public Resource Lotteries." Land Economics, 79(2):137-148.

R. Berrens, A. Bohara, H. Jenkins-Smith, C. Silva, and D. Weimer. 2003. "The Advent of Internet Surveys for Political Research: A Comparison of Telephone and Internet Samples." *Political Analysis*, 11(1):1-23.

T. Grijalva and R. Berrens. 2003. "A Question of Standing? Institutional Change and Rock Climbing in Wilderness Areas." *Society and Natural Resources*, 163(3):239-247.

R. Berrens, A. Bohara, H. Jenkins-Smith, and C. Silva. 2003. "The Effect of an Environmental Disclosure Requirement on Willingness to Pay for Residential Properties in a Borderlands Community." *Social Science Quarterly*, 84(2):359-378.

T. Grijalva, A. Bohara, and R. Berrens. 2003. "A Seemingly Unrelated Poisson Model for Revealed and Stated Preference Data." *Applied Economics Letters*, 10:443-446.

M. Binder. 2003. Book Review of "Mexican Americans and the U.S. Economy: Quest for Buenos Dias." New Mexico Historical Review, 78(3):359-60.

D. Anderson, M. Binder, and K. Krause. 2003. "The Motherhood Wage Penalty Revisited: Experience, Heterogeneity, Work Effort and Work-Scheduled Flexibility." *Industrial and Labor Relations Review*, 56(2):273-94.

D. Brookshire, J. Chermak, and K. Krause. 2003. "The Demand for Water: Consumer Response to Scarcity," *Journal of Regulatory Economics*, 23(2):167-191.

J. McCluskey, K. Grimsrud, H. Ouchi, and T. Wahl. 2003. "Consumer Response to Genetically Modified Food Products in Japan." *Agricultural and Resource Economics Review*, 32(2).

C. Sauer, K. Gawande, and G. Li. "Big Push Industrialization: Some Empirical Evidence for East Asia and Eastern Europe." *Economics Bulletin*, 15(9):1-7.

Four faculty members had six other publications in the 2003 calendar year.

T. Grijalva and R. Berrens. 2003. "Valuing Access to Rock Climbing and Bouldering." *The New Economics of Outdoor Recreation*, Pp. 21-39. Edward Elgar.

R. Bernknopf, D. Brookshire, and P. Ganderton. 2003. "The Role of Geoscience Information in Reducing Catastrophic Loss Using a Web-based Economics Experiment." U.S. Geological Survey Professional Paper, No. 1683.

D. Brookshire and D. Coursey. 2003. "Measuring the Value of a Public Good: An Empirical Comparison of Elicitation Procedures." Ed., Jason F. Shogren. *Experiments in Environmental Economics*. Ashgate Publishing Limited in the International Library of Environmental Economics and Policy, Volume I and II.

D. Brookshire. 2003. "The Economic Value of Water: Results of a Workshop in Caracas, Venezuela." *Nature Conservancy, The Conservation Finance Guide*, in CD ROM format.

P. Ganderton. 2003. "The Economic Impact of Teenage Childbearing in New Mexico." New Mexico Department of Health, PHD-FPP.

W. T. Harbaugh, K. Krause, S. Liday, and L. Vesterlund. 2003. "Trust in Children." *Trust Reciprocity and Gains from Association: Interdisciplinary Lessons from Experimental Research*. E. Ostrom, James Walker, New York City, Russell Sage Foundation.

4. Outside Professional Activities

Eight faculty members presented twenty-one papers at professional meetings in the 2003 calendar year.

R. Berrens and R. Helton. "Preliminary Survey Results on Homeowner Behavior in the Wildland-Urban Interface." Invited presentation, East Mountain Interagency Fire Protection Association, Tijeras, NM.

R. Berrens "Information and Effort in Contingent Valuation Surveys: Application to Global Warming Using National Internet Samples." Invited Seminar, Dept. of Applied Economics, University of Minnesota, St. Paul, MN.

M. Binder. "Musical Chairs in Higher Education: Incentive Effects of the NM Success Lottery Scholarship Program." AEA Meetings, Washington, DC.

M. Binder and M. Hurtado. "Health and Economic Productivity in Rural Paraguay." NIH International Studies on Health and Economic Development program meeting, San Francisco.

A. Bohara, K.N. Mitchell, and M. Nepal. "Correlates of Political Violence in Nepal (1996-2002): A Hierarchical Model." Midwest Economics Association 67th Annual Meeting, St. Louis, Missouri.

A. Bohara. "Socio-economic Factors and Violence: A Hierarchical Bayesian Model." University of Tennessee and the Business Research Center, Nashville, TN.

A. Bohara. "Nepal and its Insurgency Problems." Asia Society and Woodrow Wilson International Center, New York.

D. Brookshire, J. Chermak, K. Krause, and S. Burness. "Consumer Demand Response, Data Gaps, and Demand Management of Water in the Southwestern U.S." American Association for the Advancement of Science, Denver, CO.

D. Brookshire, J. Chermak, K. Krause, and S. Burness. "Assessing Tradeoffs in Water Policy Using Integrated Modeling." New Mexico Geographical Information Council, Los Alamos, NM.

D. Brookshire, J. Chermak, and K. Krause. "Water Demand Management." Los Alamos sponsored 60th anniversary forum entitled Water, Drought, and New Mexico, Santa Fe, NM.

D. Brookshire, J. Chermak, and K. Krause. "Consumer Response to Scarcity." Hydrological Sciences Session, EGS-AG-EUG joint assembly, Nice, France.

D. Brookshire, M. Black, J. Chermak, K. Krause, J. Roach, S. Stewart, V. Tidwell, M. Weber and G. Woodward. "Disaggregating Residential Water Demand for Improved Forecasts and Decision Making." Hydrological Sciences Session, EGS-AG-EUG joint assembly, Nice France.

D. Brookshire, J. Chermak, K. Krause, and S. Burness. "Experimental Investigations in the Consumer Demand for Water." Latin American and Caribbean Congress of Environmental and Resource Economics, Cartagena, Columbia.

D. Brookshire. "Economics and the Silvery Minnow." Governors Symposium: The Rio Grande Silvery Minnow-Science and Policy in the Bosque, Santa Fe, NM.

J. Chermak. "SAHRA Science: Improving Understanding of Semi-arid Hydrology Supply and Demand." 3rd Annual Meeting of SAHRA, Tucson, AZ.

J. Chermak. "Urban Water, Prices, and Scarcity." State of New Mexico Interim Legislative Committee on Natural Resources and Water, Red River, NM.

J. Chermak. "Mexico-U.S. Transboundary Water Issues: An Economic View." British Hydrological Society International Conference, Albuquerque, NM.

P. Ganderton. "The Economic Impact of Teenage Childbearing in New Mexico." New Mexico Department of Health, Family Planning Program, Albuquerque, NM.

K. Grimsrud and P. Wandschneider. "Empirical Taxonomy of Environmental Ethical Archetypes." American Agricultural Economics Association and Canadian Agricultural Economics Society meetings, Montreal, Canada.

K. Grimsrud, R. Mittelhammer, and T. Wahl. "Market Segmentation in Contingent Valuation." American Agricultural Economics Association and Canadian Agricultural Economics Society meetings, Montreal, Canada.

K. Krause, W.T. Harbaugh and L. Vesterlund. "Bargaining Among Children: Evidence from ultimatum and dictator games." 2003 Annual Game Theory Festival, Stony Brook, NY.

C. Sauer. "Seigniorage Costs of Dollarizations in Latin America: A Cluster Analysis." 10th Global Finance Conference, Frankfurt/Main, Germany.

C. Sauer "Seigniorage Losses due to Dollarization in Latin America: A Cluster Analysis." Western Social Science Association Annual Conference, Las Vegas, NV.

Other Outside Professional Activities for 2003 Calendar year.

Robert Berrens advised the Amigos Bravos group and Institute for Ecology and Law.

5. Research Grants and Contracts Funded

The department received the following grants to fund faculty and graduate research during this academic year. Total of \$298,906.00

US Forest Service

"A Research Agenda for Understanding Behavioral and Economic Responses to Forest Restoration Programs" Berrens, R., McKee, M. \$66,257.00 January 2002 -- January 2004 Year 2 Funding

National Science Foundation

"Collaborative Research: Children's Development of Economic Skills and Preferences" Krause, K. \$25,442.00 August 2001 – July 2004 Year 3 Funding

University of Arizona/NSF

"Sustainability of Water Resources in Semi-Arid Regions" Brookshire, D. \$154,900.00 January 2000 – December 2004 Year 5 Funding

US Forest Service

"Investigation of Lease & Fee-based Recreation on Private Forest Lands" Berrens, R, \$31,818.00 September 2002 – January 2004 Year 2 Funding

USDA/US FOREST SERVICE

"Initial Economic Analysis of the 2002 Villes Caldera Elk Hunt Lotteries and Auction" Berrens, R. \$8,500.00 July 2003 – July 2004 Year 1 Funding

UNM Research Allocations Committee

"Limiting Protest Behavior in Stated-Preference Surveys: An Application to Animal Welfare in the Egg Industry." Thacher, J. \$7,489.00 September 2003 – September 2004 Year 1 Funding

UNM Research Allocations Committee

"Micro-Simulations to Study the Effects of Economic Policy Changes on the Welfare of Children and Women in Nepal" Bohara, A., Grimsrud, K. \$4500.00 September 2003 – September 2004 Year 1 Funding

6. Student Information

Bachelor of Arts Degrees Conferred

Forty-two Bachelor of Arts degrees conferred in 2003-2004 academic year.

Master of Arts Degrees Conferred

Jeremy Cook Emily Dahlstrom Pallab Mozumder Nejem Raheem John H. Talberth Manping Wang Joshua West Wenxia Ying Hua Zhong

Doctoral Degrees Conferred (Committee Chair)

Pao Ze Her (R. Santos) "New Mexico Medicaid: Children's Access to Healthcare Utilization and Medicaid Expenditure"

Kevin Balsam (K. Krause) "Redistribution Effects of Using Social Security Retirement Revenue to Finance Social Spending"

Hui Li (R. Berrens) "Explorations in Valuing Global Climate Change – Testing Treatment Effects With Internet and Telephone Samples"

J. Raymond Stuart Award Joseph Little Mani Nepal Joshua Rainer

Gerald Boyle Memorial Award Teena Archuleta

Distinguished Alumnus: Kevin Kargacin, Bureau of Business and Economic Research UNM, Albuquerque, NM

	Academic Year	Undergraduate	Graduate
 et e e tra	1987-88	132	40
	1988-89	N/A	44
	1989-90	74	N/A
	1990-91	133	41
	1991-92	121	43
	1992-93	103	49
	1993-94	97	57
	1994-95	88	48
	1995-96	72	48
	1996-97		54
	1998-99	115	44
	1999-2000	147	39
			34
			38
	2003-2004	131	49
	1996-97 1997-98 1998-99 1999-2000 2000-2001 2001-2002 2002-2003	86 124 115 147 112 118 141	54 40 44 39 34 38 45

Number of Majors

Fall Credit Hours by Course Level 1990-2003

	1770-2005													
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
100	381	360	438	237	219	168	261	2694	3048	3684	4161	4272	4245	.4365
200	3564	3492	3189	2892	2814	2952	2802	105	87	192	309	270	333	231
300	2859	2928	2523	2523	2133	1902	1410	1659	1365	1011	858	690	867	753
400	355	227	231	267	178	267	234	220	192	281	127	208	123	327
500	222	237	276	316	330	339	314	227	192	212	212	267	348	338
600	42	78	75	111	96	75	84	108	0	123	115	105	90	78
Total	7423	7322	6732	6346	5770	5703	5105	5015	4884	5503	5782	5812	6036	6092

Spring Credit Hours by Course Level 1991-2004

								·						
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
100	372	222	156	177	0	0	0	0	2874	3303	3558	3639	4035	4263
200	3489	3834	3537	2985	3066	3168	3033	2652	195	261	0	0	0	27
300	2895	2886	2949	2271	2340	2055	1440	1506	1368	1488	888	1167	1164	999
400	387	234	175	346	366	176	221	228	174	149	159	106	125	203
500	177	229	268	332	291	283	299	264	270	204	172	202	247	325
600	36	60	66	75	108	117	78	75	117	123	111	91	102	87
Total	7356	7465	7151	6186	6171	5799	5071	4725	4998	5528	4888	5205	5673	5904

ANNUAL REPORT DEPARTMENT OF ENGLISH

July 1, 2003 - June 30, 2004

Scott P. Sanders, Chair

Adapting to changing enrollment patterns continued to drive events in our department during this reporting period. More undergraduates are majoring and minoring in English as the entering Freshman class enrollment increases that began in Fall 1997 and peaked in the Fall 2000 and 2001 terms are now yielding increased numbers of upper class students. This is good news for the undergraduate program, and there is similar good news to report in the graduate program. The past year continued a trend we first identified about three years ago: we are receiving more applications from better qualified applicants, and thus we are enrolling successively stronger cohorts of graduate students. And our graduating Masters and PhD students continue to find considerable success in the academic and non-academic professional employment markets.

Increased enrollment and increased success for our students is the positive side of the picture; but the decrease we have seen over the past two years in the number of our tenure stream faculty, when it is seen in conjunction with enrollment increases, is cause for concern.

Sections of English 250 (Analysis of Literature, required of all majors, the "entry course" to upper division work in English) and 300 and 400 level classes in literature and writing regularly enroll in the mid 20s or higher after years of enrollments in the mid-teens. General education classes that satisfy Core Curriculum or Arts and Sciences area requirements enroll in the 30s or higher. For example, multiple sections of The Bible as Literature (304) enroll 30-35 students each semester after semester, and regular sections of Mythology (305) enroll 35-40 students. Special sections of Mythology taught by visiting scholars have recently focused on Norse mythology and, partnering with the Institute for Medieval Studies, have enrolled more than 60 students on multiple occasions.

Contrasting with these numbers that signal growth and increase, tenure stream faculty on staff at the end of this reporting period includes 32 colleagues, the lowest number in 20 years (the range over this period has been 33 to 38). The situation is still more alarming when we consider that one of the colleagues counted in that number is a half-time appointment (shared with Foreign Languages and Literatures), and nearly a third of our colleagues have substantial administrative duties inside and outside of the department that result in reduced teaching loads.

Assuming an average teaching load of 2/2 for tenure track faculty, and taking into account the total load reduction for administration, our effective number of tenure stream faculty in terms of teaching alone is about 26. This is a small total for a department with the enrollment we have and the range of programs and curricular responsibilities that we address.

Scharnhorst, who taught at Professor Schulz's institution in Heidelberg, Germany. More than 20 individuals, most teaching 2-3 courses per semester, were hired as part-time instructors over the fall and spring terms.

Fulltime Lecturers

As noted above, we ended this reporting period with a faculty of five fulltime Lecturers, the same number we had on staff the year before. All five of these Lecturers, however, are now funded by lines in the State I&G budget; last year only three of the five Lecturer lines were supported by "hard" money. The change in budgetary status for the lines suggests that a change in faculty status for the individuals in those lines is likely appropriate.

The Department had voted in February 2002 to resist creating a non-tenure stream faculty of continuing Lecturers supported by lines in the State budget. In fall 2003 we proposed to the College that we use the lines then in our State budget for Lecturers in combination with new money from the Provost to create a mix of fulltime Lecturer and post-doctoral appointments. As a result of that proposal, a single new Lecturer line was approved, giving us four "hard money" Lecturer lines. Following a national search for two open Lecturer positions, the Dean committed to funding the fifth Lecturer line out of the state budget. With five continuing lines, we now have five continuing colleagues holding the non tenure granting title of Lecturer. In the coming year (2004-2005), annual review procedures for Lecturers will be established and other issues related to the participation of Lecturers in the department will be discussed and settled.

Tenure, Promotion, and Mid-Probationary Reviews

Assistant Professors Lisa Chavez, Anita Obermeier, and Susan Romano stood for tenure and promotion in 03/04. After strongly positive votes in the department and the College, all three candidates were tenured and promoted to the rank of Associate Professor in June. Assistant Professors Greg Martin, Dan Mueller, and Diane Thiel received positive mid-probationary reviews, also in June. Professor Thiel's review was so strong that, with approval from the Department and the Dean, she will stand for tenure and promotion a year early, in 2004/2005.

Freshman English Learning Communities

We continued to partner with University College, linking sections of English 101 and (new this year) 150, Introduction to Literature for non-majors, with Freshman Seminars and other classes.

Southwest Semester

Professors David Dunaway and Jesse Aleman with the assistance of the College are developing a Southwest Semester emphasis for Fall 2004. The events will be described in next year's report.

Online Technical/Professional Writing Sections

In Spring 2004, we piloted four sections of English 219 Technical and Professional Writing, offered as entirely online classes. Other 219 sections used WebCT software to enhance the delivery of traditional, face to face courses. The success of the four entirely online sections led us to offer 10 online sections of 219 (8 of which filled) in the Fall of 2004.

Writing faculty; and reviewing the records of all students each term and communicating to them (or their relevant advisers) their status.

• Established new limits for Teaching Assistantships: 5 semesters for MA students, 6 semesters for future MFA students and MA students in the interdisciplinary Medieval Studies concentration, 10 semesters for PhD students, and 11 semesters for PhD students in the interdisciplinary Medieval Studies concentration. The Department later adopted this proposal.

• Established a subcommittee, including student representation, to review appeals against these limitations. This group held its first session in May 2004, reviewing the status of five students.

• Improved the process and results of our admissions program. In the last three years of Fall admissions, we are becoming more selective (admitting 46-47% of applicants in 2002-03 but only 38% in 2004). We are also more attractive to those we admit, for our acceptance rate has climbed in steady and marked steps, from 43% to 60% to 70% in 2002-2004. (See #8 below.)

• Created a more diverse student population, which rose from 90-10% Anglo/other in Fall 2003 to 80-20% Anglo/other in Fall 2004. In all three categories—applications, admissions, and enrollments—indicating our relationship with students from previously underrepresented groups, we are making steady progress over the past three years. (See #9 below.) Among all graduate programs at UNM, we have the fourth most diverse population at all these stages. (Those who rank above us are Electrical Engineering, Mechanical Engineering, and Biomedical Sciences, all traditionally attractive to students of other nationalities.)

• Abolished Spring term admissions and made the deadline for all admissions and aid applications February 1. The Department later adopted this proposal.

• Forwarded to the Chair and the office of Freshman English the unanimous desire to give PhD students who are writing their dissertations two terms of reduced (i.e. one-class) teaching load.

• Revised the Foreign Language Requirement for MAs in the Professional Writing program and PhDs. This revision would allow certain coursework in statistics or computer science, among other possible fields, to substitute for one of the required languages. As of year's end, the proposal had not been brought to the Department for approval.

• Approved a new course in "Creative Writing Pedagogy" that will be a key feature of the future MFA program.

• Standardized the courses that qualify for "Group E" in the distribution requirements of MA students.

· Reviewed and approved reading lists for special and regular fields.

Valerie Kinsey	MA Cr. Wrtg	D. H. Lawrence Fiction Award	
Rebecca Hooker	PhD	Graduate Service Award	\$500
Birgit Schmidt- Rosemann	PhD	Buchanan Arms (Outstanding Achievement in Graduate Study)	\$600
Michelle P. Baca	MA Lit	Katherine Simms Award	\$500

RESE	RESEARCH, PROJECT, TRAVEL (RPT) GRANTS						
Michelle Baca	MA Literature	Travel: conference	\$250 Eng				
		presentation					
Carrie Bowen-	PhD	Travel: conference	\$250 Eng				
Mercer	Literature	presentation					
Stephanie	MA Prof.	Travel: conference	\$250 Eng				
Holinka	Wrtg	presentation					
Karmen Lenz	PhD Medieval	Travel: conference	\$130 Eng				
		presentation					
Paul Lynch	MA Literature	Travel: conference	\$250 Eng				
	·	presentation					
David Marks	PhD	Travel: conference	\$250 Eng				
	Literature	presentation					
Virgil Mathes	PhD	Travel: conference	\$250 Eng				
	Literature	presentation					
Whitney Myers	PhD	Travel: 2 conference	\$436 Eng				
·	Literature	presentations					
Sybille Schlesier	PhD	Dissertation research	\$200 Eng				
	Literature		ļ				
Birgit Schmidt-	PhD	Travel: conference	\$200 Eng				
Rosemann	Literature	presentation					
Deborah Weagel	PhD	Travel: conference	\$250 Eng				
	Literature	presentation					
Bob Wyckoff	MA Literature	Travel: conference	\$250 Eng				
		presentation					
Stephanie	PhD	Travel: conference	\$275				
Gustafson	Literature	presentation	OGS				
Matt Teorey	PhD	Travel: conference	\$253				
	Literature	presentation	OGS				
Shari Evans	PhD	Travel: conference	\$155				
·····	Literature	presentation	OGS				
Rebecca Hooker	PhD	Travel: conference	\$450				
	Literature	presentation	OGS				

Karmen Lenz. "Christopher Rawlinson's Edition of King Alfred's Book of Consolation." South-Central Society for Eighteenth Century Studies, Santa Fe, NM, February 28, 2004.

Paul Lynch. "Books Lie: Taking Charge of the Rhetoric of *Blood Meridian*." Southwest Popular Culture Conference, San Antonio, TX, April 7-10, 2004.

David Marks. "Turning to History as Order in Times of Fractured Histories: Simon Ortiz and T.S. Eliot." Native American Literature Symposium (Mystic Lake Casino), Minneapolis, MN, April 15, 2004.

David Marks. "The Mind's Commodified Bodies and the Body's Commodified Minds in Whitman." Nineteenth Century Conference, Univ. of South Carolina, March 4, 2004.

Virgil Mathes. "Platonic Pugilism: Defense and Dialectic in Aikido." Rhetoric Society of America, Austin TX, May 2004.

Clayton Michaels. "Caucasian Blues: Images of Whiteness in Sherman Alexie's Indian Killer." Native American Symposium, Durant, OK, November 14, 2003.

Clayton Michaels. "Urban Eyesore: Creating New Ceremonies in Urban Landscapes." Native American Literature Symposium (Mystic Lake Casino), Minneapolis, MN, April 16, 2004.

Kareva Mateata-Allain. "Situating Oceanic Discourse." Southwest Symposium, Albuquerque, NM April 2, 2004.

Whitney Myers. "Gendering *Smoke Signals:* Native Masculinity and the Fantasies of the Men's Movement." Native American Symposium, Durant OK, November 14, 20003.

Whitney Myers, "Law and Literacy: A Study of American Indian Boarding Schools," Native American Literature Symposium (Mystic Lake Casino), Minneapolis, MN, April 16, 2004.

Whitney Myers. "The Legacies of Literacy Instruction: Boarding School Pedagogy and American Indian Literacy, 1874-1910." Southwest Popular Culture Conference, San Antonio, TX, April 7-10, 2004.

Adam Ruh. "Captivity and the Captivity Narrative: Opening the Gap." Native American Symposium, Durant, OK, November 15, 2003.

Adam Ruh. "Captivity and the Captivity Narrative: Opening the Gap." Native American Literature Symposium (Mystic Lake Casino), Minneapolis, MN, April 16, 2004.

Wethman (GREGORY), Lisa	Spring 2004	working at UNM
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	MA GRADUATES-WRITING							
GRADUATE	THESIS DIRECTOR	THESIS TITLE						
BARRY, James (Su2003)	Mueller, Dan	Black Knot						
BRANDES, Helena (Fall2003)	Shigekuni, Juli	The Memory of My Departure						
EGGER, Anne (Sp2004)	Thiel, Diane	Measure						
Ferraro, Jennifer (Sp2004)	Thiel, Diane	Intimate Distance						
FONG, Nancy (Fall2003)	Shigekuni, Juli	Waiting World						
NORSTAD, Lille (Su2003)	Romano, Susan	Women's Travel Writing: Shifting Rhetorics in a Timeless Genre						
SCHECHNER, Karen (Sp2004)	Johnson-Sheehan, R.ick	Prophets and Drag Kings: Interviews with Writers						

	PhD GRADUATES							
GRADUATE	THESIS DIRECTOR	THESIS TITLE						
BIGRIGG, Carin (Sp2004)	Jones, David	Women Wrighting Wrongs: Contemporary Female Playwrights Manipulate the Past						
BLUM, Mary F. (Sp2004)	Witemeyer, Hugh	The Comitatus in the Trenches: Reading the Poetry of World War I through the Lens of Anglo-Saxon Heroism						
DYE, Kevin (Su2003)	Scharnhorst, Gary	"Barbaric Splendor:" The Colville Reservation Writings of 1887-89 Indian Agent Rickard D. Gwydir						

	Applications for Fall 2004 Admission									
	Applicants	Offered Admission	Rejected for Admission	Accepted Offer	Rejecte d Offer					
PhD	38	17	21	8	9					
MA- CW MA-Lit	45	14 9	31	13 5	1 4					
MA- PW	8	5	3	5	0					
TOTAL	135 (105 complete for review)	45	60	31	14					

Graduate Applications and Admissions For Fall 2004

Over the last year, the Graduate Program received 341 application inquiries, 238 from 40 U.S. states and 3 from 2 foreign countries. (20 applicants were in person, with no state identification.)

Location	# of inquires	Location	# of inquiries
Alabama	1	Nebraska	2
Alaska	1	New Hampshire	1
Arizona	1	New Jersey	1
Arkansas	1	New Mexico	101
California	16	New York	13
Colorado	10	North Carolina	3
District of Columbia	2	Ohio	1
Florida	4	Oklahoma	4
Georgia	3	Oregon	3
Hawaii	1	Pennsylvania	5
Illinois	3	South Carolina	1
Indiana	1	South Dakota	1
Iowa	4	Tennessee	2
Kentucky	1	Texas	14
Louisiana	3	Virginia	4
Maryland	2	Washington	4

Students Admitted for Fall 2004

Name	Degree Soug	ht Concentration
Dani Martinez (Ortega)	PhD	20 th century
John Miles	PhD	American/NatA m
Michaelann Nelson	PhD	20 th century
Brenda Pentland	MA	Creative Writing
Scott Rogers	MA	Literature
Robin Runia	PhD	19-20 centuries
Dana Salvador	MA	Creative Writing
Valerie Santillanes	MA	Creative Writing
Jennifer Schaller (Jordan)	MA	Creative Writing
Elizabeth Shaw	MA	Creative Writing
Sharon Sivinski	MA	Prof. Writing
Martine Tharp	MA	Literature
Kathryn Walkiewicz	MA	Literature
Candice Welhausen	PhD	R&W
Katherine Wimmer	MA	Prof. Writing

Spring 2004: Ethnic and Gender Breakdown of Applications and Admissions

Applications Screened: Race/Ethnicity (107)

Program	Whit	e Hisp	NatA	mAfAn	a Asian	Other	NAnsw
PhD	27	6	1	0	1	0	3
MA Lit	12	2	0	0	0	0	1
MA PW	4	0	0	1	1	1	1
MA CW	27	6	1	0	_ 1	3	8
Totals	70	14	2	1	3	4	13
	65%	13%	2%	1%	3%	4%	12%

Admissions Offered: Race/Ethnicity (40)

Program	White	e Hisp	NatAn	ı AfAm	ı Asian	Other	No Answ
Phd	8	2	1	0	0	0	1
MA Lit	8	1	0	0	0	0	0
MA PW	3	0	0	0	1	0	1

Admitted	1	1	3	1	26%
Accepted	1	1	3	1	100%
Fall 2004					e Alexandria
Applied	38	46	15	8	
Admitted	15	14	9	5	38%
Accepted	7	14	5	4	(70%

Ethnic Breakdown of Graduate Admissions 2001-2004

(see attached exhibit, following page)

Undergraduate Program

Gary Harrison, Director

In addition to the ongoing management of the undergraduate office, holding undergraduate committee meetings, advising students, running the honors' program, and overseeing the activities of Sigma Tau Delta, the undergraduate director again this year undertook an extensive revision of the undergraduate curriculum. At the time of writing, all curricular changes have been approved by the department and relevant other departments (FLL and Comp Lit); these forms are now being routed through the curriculum change process at the college and university level.

We stepped up efforts to recruit students and majors by participating in recruitment activities organized by Evening and Weekend Degree Programs and Recruitment Services. For this purpose, we purchased a banner and promotional materials to use in future recruitment efforts. In addition, we assigned a formal advisor, Elizabeth Archuleta, for the Pre-Law Concentration, and Elizabeth, in conjunction with the Pre-law advisement center in the College of Arts and Sciences, held several meetings and workshops with our Pre-Law majors. We also wrote and sent to our graduating seniors an exit questionnaire as a step toward improving and formalizing an outcomes assessment program. An important accomplishment was to organize the departmental database for undergraduate enrollments, which will help us better track our students through their programs and evaluate our staffing and curricular needs.

Last year's goals to hold more information meetings for undergraduates and to update and improve our brochures were met. The undergraduate program initiated in Fall 2003 a series of meetings for students enrolled in the undergraduate honors program in English, and in Spring 2004 we initiated what we hope will be an ongoing series of meetings focused on employment issues—including job placement, career planning, and resumé writing workshops—for our undergraduate majors in English. The undergraduate director and the undergraduate advisor worked together to revise the brochures for accuracy and for ease of use, updating all the brochures and integrating the graduate checklist for each concentration into the brochure itself. Other than the curricular changes and increased recruitment efforts, action items by the Undergraduate Committee this year were routine, involving approval of honors proposals, setting levels of honors theses, and discussing ways to improve undergraduate curriculum, recruitment, retention, and advising. All activities of the committee and all changes to the curriculum are summarized in brief.

Future goals

Recommended goals for the 2004-2005 year are 1) to move the completed curriculum change forms through the system for final approval by the Curriculum Committee in order to get these changes into the new UNM Catalog; 2) to improve faculty-student advising for the undergraduate program; to cooperate with and assist the Freshman English director and the college in devising an effective and strongly worded plagiarism policy, as well as to set up a system of formal procedures for all faculty, instructors, and teaching assistants to follow in handling such cases; 3) to update and improve the undergraduate profile, including the Honors program, concentrations, and Sigma Tau Delta, on the departmental web site; 4) to set up an effective undergraduate major list-serv; 5) to continue developing a formal outcomes assessment procedure; 6) to encourage the records office to distinguish in the Major Listing among all of our concentrations; and 7) to continue and to formalize the informational and job advisement meetings for the undergraduate majors and minors.

Undergraduate Committee

Committee members for 2003-2004 were Mary Power, Jerry Shea, Carolyn Woodward, Elizabeth Archuleta, Anita Obermeier, Dan Mueller; in Spring 2004 Greg Martin joined the committee. Woodward was our faculty advisor for Sigma Tau Delta again this year; Archuleta was our Pre-Law advisor. The committee met on a monthly basis Fall and Spring semesters.

Major Action Items:

- 1. Established a Pre-Law advisor.
- 2. Approved several curriculum changes (see below and minutes)
- 3. Awarded honors and evaluated honors theses and proposals.
- 4. Wrote and implemented an exit questionnaire for graduating seniors.

Curriculum changes

We made significant additions and revisions to our undergraduate program, adding courses in Native Literatures and Rhetorics, Chicano/a Literature, and some 300-level British Literature courses; re-sequencing and restructuring the Medieval Studies concentration; and coordinating more effectively our curriculum in Comparative/World Literature with the Foreign Languages and Literatures Department and Comp Lit/Cultural Studies programs.

Undergraduate Awards

Undergraduate prizes and awards (excluding Creative Writing) were given as follows. (The English Department was out of rotation this even-numbered year for the Katherine G. Simons Scholarship; it will return to us for Spring 2005).

Reba Rutz Beidleman Award: Nicole Jenkins and Sarah Baechle Howard Dean Everett Scholarship: William Howells (incoming graduate student) Mark R. Everett Scholarship (Mauna Kea): Karyth Becenti Irene M. Kimball Endowed Scholarship: Amber Carillo Mary M. MacDonald Scholarship: Victor Chacon and Sierra Netz New Mexico Folklore Prize: Carol Bass Joseph C. Gallagher Scholarship: Mackenzi Frederick Dale and Ivan Melada Endowed Scholarship (coordinated by Rick Johnson-Sheehan): Jennifer Bayley Joseph b. Zavadil Memorial Scholarship (coordinated by Helen Damico): Sarah Baechle

Departmental Honors

This year's departmental honors recipients were as follows:

Summa Cum Laude: Matthew Valdiviez Magna Cum Laude: Sarah Baechle, Martha Beardan Parham, Melissa Briggs, Rachel Lime Cum Laude: Matthew Garcia, Nicole Jenkins

SigmaTau Delta

Carolyn Woodward served as faculty advisor for SigmaTauDelta. Under her guidance, the Sigma Tau Delta president Jennifer Mason and other officers focused upon recruitment, supervising the English Department Library; publishing a newsletter, *The Signifier*; and tutoring, in cooperation with the Freshman English program and CAPS. Three of our Sigma Tau Delta members—Victor Chacon, Jennifer Mason, and Sierra Netz—presented papers at the Sigma Tau Delta National Convention at Daytona Beach, Florida, March 24-28. The goals for 2004-2005 are again to revise and improve the chapter's website.

Creative Writing Program

Sharon Oard Warner, Director

Enrollment

Undergraduate enrollment in creative writing workshops continues to be strong. About 140 English majors concentrate in creative writing, about the same number as last year. In addition, many students choose to take creative writing classes as electives and/or for enrichment.

Graduate enrollment has increased significantly, most likely due to the progress of our proposal to replace the MA in Creative Writing with an MFA beginning Fall 2005. We received 15

Conference at the National Hispanic Cultural Center, and also worked with high school students there in a summer arts workshop.

Her poem "The Dismantling of Parts" came out in the spring issue of *Prairie Schooner*, and another poem, "At a Wedding in Mexico City" was included in the latest edition of the creative writing text book *A Writers Country: A collection of Fiction and Poetry*. She also contributed an essay on use of imagery to the companion text *Mooring Against the Tide: Writing Fiction and Poetry*. This essay also included a poem by UNM undergraduate Jeff Proctor. Both these texts will be available this fall from Prentice Hall.

She served as a judge for the Illinois Arts Council fellowships. And she just finished a third manuscript of poetry, *An Atlas of Desire*, which is currently being considered by University of Arizona Press.

Gregory Martin's memoir, *Mountain City*, was selected by Albertson's College of Idaho as the book that all incoming freshman will read as a part of their first year experience program. He will be giving a reading and lecture there on October 14th and 15th. In the spring of 2003 Greg drafted the initial draft of the MFA proposal, for which we all owe him a large debt. In the fall of 2003 he was on research semester, drafting his novel, *House of Bedlam*.

Daniel Mueller received the Julia M. Keleher Faculty Award for Teaching for 2003-2004. A previously published story, "Tina Louise," was accepted for publication in a forthcoming anthology of short fiction about pregnancy and parenting. In addition, he was invited to lead fiction workshops at the Taos Summer Writers' Conference, Critical Connection Writers' Workshop in Ann Arbor, and the Fine Arts Work Center in Provincetown's Summer Program in Creative Writing and the Visual Arts.

Levi Romero, Visiting Lecturer in the creative writing program, taught, "The Poetics of Place," a weekend workshop for the Taos Summer Writers' Conference. He also did several presentations, among them, a reading of his work at the Breadloaf-Vermont School of English, which was held at St. Johns College in Santa Fe. He also continued facilitating a series of volunteer literary workshops at the Bernalillo County Juvenile Detention Center.

Julie Shigekuni recently completed final revisions on her novel, *Unending Nora*. She continues to work on her book-length, nonfiction manuscript on Type 1 Diabetes and the search for a cure. She's experimenting with a series of short stories and has begun work on a film documentary that ties in to the setting of her most recent novel and focuses on the Obon (Day of the Dead) late summer carnival held annually in the San Fernando Valley in Southern California.

Diane Thiel had two books appear in 2004: The White Horse: A Colombian Journey (Etruscan Press) and Resistance Fantasies (Story Line Press). Resistance Fantasies was nominated for the National Book Award. Her work appeared in numerous publications, including Twentieth Century American Poetry (McGraw Hill), Revenge and Forgiveness (Henry Holt), and Kindled

- Support of the Albuquerque Journal.
- Sohn Bess (04) was admitted into our M.A. program with a Teaching Assistantship.

Graduate Student and Alumni Accomplishments

- Dianne Bechtel, Monica Garcia, Juan Morales, and Marta Trujillo-Evans were all awarded full scholarships to attend the National Latino Writers' Conference at the National Hispanic Cultural Center in Albuquerque, March 15-18.
- * Anne Egger's poem, "Measure" is forthcoming from The American Literary Review.
- Tani Arness's (MA 02) essay, "Red Dirt Paths," is forthcoming in Fourth Genre.
- Kurt Gutjahr (MA 02) continues as the Assistant for the Iowa Summer Writing Festival. One of his stories was recently accepted by *The Roanoke Review*. He was a finalist for their 2003 fiction contest.
- Elise McHugh (MA 00) is on the staff in the Psychology Department at UNM. She has a poem entitled "Given" forthcoming from *Poetry Motel* of Duluth, MN.
- Rebecca Aronson (MA 00) finished her MFA at the University of Washington in 2003 and was hired as an assistant professor at Northwest Missouri State University in Maryville, Missouri. She's editing *The Laurel Review* and is sending out both a fulllength manuscript and a chapbook manuscript. She has poems forthcoming in several magazines.
- Michelle Pierce (MA 99) continues as Assistant Professor and Faculty Director of the Writing Center at Naropa University. With Veronica Corpuz, she has published a book of poems entitled *TRI/VIA* (Erudite Fangs PUB LUSH).
- Paul Bogard (MA 02) has an essay, "Dog Star," forthcoming in North Dakota Quarterly.
- Jennifer Ferraro (MA 04) was awarded a \$1,000. general research grant from the Graduate and Professional Student Association (GPSA). The grant supported the production of a collaborative performance entitled "Dancing with Words."

Program Initiatives

Blue Mesa Review

Issue #11, the lost issue, was published in the fall 2003. Issue #16 of BMR was published in April 2004 and celebrated with a reading and reception. Julie Shigekuni continued in her post as

- This year's winner of the Native Writer Award was Christina M. Castro of the Jemez Pueblo. Christina teaches 9th and 10th grade English at the Walatowa High Charter High School. Recently, she was named as the recipient of the Native Writer's Circle of the America's First Book Award in Poetry. This award is given annually to a Native American writer for a first, unpublished collection of work. Her manuscript is entitled "Silence on the Rez."
- The first winner of the Hispanic Writer Award was Irene Villa Estrada of Los Lunas. She worked with Dan Mueller in his Craft of Fiction Workshop.
- Lise Goett of Taos, NM was this year's D. H. Lawrence Fellow. Lise Goett's book, *Waiting for the Paraclete*, won the 2001 Barnard New Women's Poetry Prize and was published by Beacon Press in April 2002. Her other awards include the 1999 Capricorn Poetry Award, the 1995 *Paris Review* Discovery Award, a Halls Fellowship from the University of Wisconsin-Madison, and an Academy of American Poets Prize. Her poems have appeared in such journals as *The Paris Review*, *Ploughshares* and *The Antioch Review*. She holds an MA in English with an emphasis in creative writing from New York University and an MFA in Writing from Columbia University and is an adjunct professor of creative writing at UNM-Taos.

Poets & Writers Series for 2003-2004

Fall 2003 Series:

Sept. 11:	Feroza Jussawalla and Pat Smith
Oct. 17:	Demetria Martinez
Nov. 21:	Connie Voisine

Spring 2004 Series:

Feb. 12:	Daniel Chacón
March 4:	Kathleen Alcalá
April 1:	Daniel Stolar
April 24:	Denise Chávez (co-hosted with NHCC, and cancelled by NHCC)

Awards

- <u>American Academy of Poets Award</u>: Erin Houser (English 222) for her poem "Snow" (Judge: Helena Mesa)
- D. H. Lawrence Fiction Award: Valerie Kinsey for "The Life and Death of Mary Percy Stone" (Judge: Anthony Swofford)
- New Mexico Folklore Prize: Carol Bas for "Crossroads in Las Vegas"

has been offered as Paleography, Medieval Latin Sources and Resources for Medieval Studies, and, in Fall 2004, it will be offered as Medieval Bibliography and Research Methods. Student response has been excellent and will help strengthen our national profile.

- implemented a summer course offering which we hope to continue annually. In 2004, the summer course was Eng 315, "JRR Tolkien: Writings, Myths, and Sources" with 39 enrolled. Leslie A. Donovan was the instructor.
- worked with Visiting Scholar Lars Lonnroth who taught Mythology, Spring 2004.

Recruitment

In 2003-04, we received eight applications for the Medieval graduate degree programs, six for the MA and two for the Ph.D. Three MA applicants were offered admission and accepted; one PhD was offered admission and declined to accept our offer. We need to do more recruitment. In 2004-05, in collaboration with the Institute for Medieval Studies, the MSPE will focus on creating a recruitment mailer advertising our graduate degree programs that we will send to the institutional members of CARA the organization that serves some 103 Medieval Studies programs in the United States.

Enrollments

Fall 03

Old English (449/549/Ling.549)	16
Intro Med Culture (315)	15
Chaucer (351)	27
Lit & Hist Sources in Med Study	2 (x-list w/Hist and FLL)
650 Seminar in Middle English	4
Spring 04 Arthurian Legend (undergraduate)	29
Middle English Lit (451/551)	22
Viking Mythology (305)	63
650 Seminar in Old English	5
Total	184

Student Development and Awards

• Graduate Student Internship for Medieval Mythology Scott Sanders, Chair of English, instituted a student internship to be awarded to a student designated as an intern

- wrote one book chapter for a major festschrift; two book reviews for the online Medieval Review;
- presented two papers at professional conferences and a number of presentations at UNM; chaired sessions at two other professional conferences; co-organized the October Outreach Seminar for Secondary School Teachers, and lectured at Roosevelt Middle School and Albuquerque Academy;
- continued as faculty sponsor of MSSA a member of the Steering committee of IMS, and as a member of the Board of Directors of TEAMS, a national organization of Medieval Studies scholars.

Helen Damico directs the MSPE, served as Chair of the A&S Senior Promotion Committee; is on the steering committee of IMS; serves on the UNM RAC; was co-organizer of "Literature and the University," and is on the Executive Board of TEAMS. She was a principal speaker at two conferences: "Text and Image in Medieval Europe" (Minneapolis, MN.), "Anglo-Saxon Chronicle" (York, England). Damico also chaired sessions at the International Association of Anglo-Saxonists and at the International Congress at Kalamazoo, Michigan, and she did research at the British Library on Beowulf and the politics of the Eleventh Century.

Rhetoric and Writing Program

Susan Romano, Director Jerry Shea, Associate Director

In last year's Annual Report, then Director Rick Johnson-Sheehan reported that the transition to a three director administrative structure – a Director and two Associate Directors -- was complete and working well. This year the departure of Professor Johnson-Sheehan in mid-May followed by Associate Director Chuck Paine's decision in late July/early August to accept appointment as an Associate Dean in University College meant that change and adaptation would once again come to the administrative structure of the Rhetoric and Writing Program.

Professor Susan Romano became Director in mid-May, and Professor Jerry Shea became an Associate Director in early August. The third Associate Director's position remains unfilled, and will not be filled before the spring term of 2005, if, indeed, it is filled at all in the coming academic year. Fulltime Lecturers, of whom the department now has five, three of whom work primarily in Rhetoric and Writing, and senior Graduate Assistant are sharing among them duties formerly assigned to an Associate Director. Next year's report will assess how well these exigency administrative arrangements have worked.

Enrollments in Freshman English and Core Writing courses were essentially the same as in the past three years. See below the numbers for Fall and Spring in 101/102 and Spring numbers only for Engl 219, Technical and Professional Writing, and English 220, Expository Writing.

course reader and other issues related to teacher preparation, such as the orientation program given to all faculty teaching in the FE program during the week before fall classes start.

Department of Foreign Languages and Literatures Annual Report July 1, 2003-June 30, 2004 Submitted by Professor Warren S. Smith, Chair Oct. 20, 2004

This is my third annual report on the department as I begin my third year as chair. The department is thriving in many respects and began a fundraising program this year through a newsletter published on its website, which will eventually lead to the setting up of a scholarship fund for regular awards to UNM language students. Language enrollments are up in almost every area, and, though we are still awaiting the filling of a vacancy in the French faculty which has been carried over for the last several years, the addition of several adjunct faculty to our numbers is a reminder of our vitality and strength.

Milestones.

Faculty.

Assistant Professor Lorie Brau of Japanese passed her third year review, an important milestone in her progress toward tenure. She published an article in an edited volume, "Rakugo Fans at Play," and has another article in proof. At the end of the spring semester she received two grants, including a UNM RAC grant, for a research trip to Tokyo.

Dr. Rachele Duke has been appointed to the newly approved position of Lecturer in Italian. She continues to teach a full load as one of the most popular teachers in the department.

Dr. **Martin Klebes**, whose Ph.D is from Northwestern University, received an appointment as Visiting Assistant Professor of German in a position which theoretically is for two years. He has quickly undertaken the supervision of the teaching assistants in German.

Natasha Kolchevska, Professor of Russian, received two prestigious awards this year: she was named Vice President/President Elect of American Women in Slavic Studies, and at UNM she was named director of the Feminist Research Institute.

Byron Lindsey was promoted to full Professor of Russian and received a prestigious Fulbright-Hayes award to study the literature of Dagestan on a sabbatical this coming year.

Prof. **Carmen Nocentelli-Truett** (Ph.D Stanford 2004) was hired half-time as Assistant Professor of Comparative Literature/ Cultural Studies (with a joint appointment as Assistant Professor of English). She has a variety of research and teaching interests in early modern European literature and is the department's first hire specializing in CL/CS rather than in a specific language field. Her hire is a sign of the new emphasis placed by the department on developing the CL/CS program

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Prof. Peter Pabisch formally retired after more than thirty years of service to the department and German program. His many services to the university, including his cofounding of the German Summer School, were honored in a series of farewell dinners and receptions. After a fall trip to Austria, he plans to continue service to UNM while working in the newly established Professor Emeritus office.

Jian Zhu, instructor in Chinese, led a group of English teachers to China (some of whom were UNM students) this summer and is hoping to develop a regular exchange program between Albuquerque and Shanghai that will include Chinese and English instruction in both cities.

Staff. For the first time in well over a year, the department is fully staffed:

Gloria Carol is the new Department Administrator. She has an M.Div. in Psychology and Religion from Union Theological Seminary in New York, has twelve years experience managing businesses and has studied six languages. Her duties in the department are many, and she brings not only a sense of cheerfulness and optimism but also welcome skills in overseeing the needs of the graduate students and balancing the departmental budget.

Jean Peaslee is the new Administrative Assistant. A native of Alamagordo, she has three years' experience working at UNM in the Communication and Journalism Department, a field in which she will receive her B.A. in December. She will be working at the front desk and supervising the graduate files.

Shirish Katipalli is our new Systems Administrator and Web Designer, our indispensable technical expert. He is pursuing his Master's at UNM in Mechanical Engineering.

Gabrielle Niegelhell is the Administrative Assistant for the German Summer School in Taos, a job which keeps her occupied on campus year-round.

German Summer School

The German Summer School in Taos, which will celebrate its 30th anniversary in 2005, was received a very positive evaluation from Professors Angelika Bammer of Emory University and Jane Slaughter of the UNM History Department, who praised its efficiency and financial solvency and recommended to the UNM administration that it receive an upgrade in status to an Institute.

French Trip Abroad

For the third time in May of 2004, Prof. Steven Bishop led a group of UNM students on a study trip to France. They stayed in Paris and visited the Cannes Film Festival.

Department Library

Judith Bennehaum, Chair of Theatre and Dance, will donate to FLL the library of books once owned by her late father, Prof. Maurize Chazon of Queens College. The collection includes rare French texts and will also include custom-made book shelves whose construction is being supervised by Prof. Bennehaum. Though storage space for the collection is inevitably a problem, the department sees this as a dramatic first step in the development of a departmental library of foreign-language books.

Sabbatical

Pamela Cheek was on maternity leave in Spring of 2004 (and remains on sabbatical this fall).

Additional Publications and Research Activity

Susanne Baackmann published a book chapter, "Symptomatic Bodies: Fascism, Gender, and Hanns Bellmer's Dolls," in *Writing Against Boundaries*...edited by B. Kospta and H. Kraft (Amsterdam, 2003), 61-80; as well as an article, "Reconfiguring the Witness of the Holocaust: The Child as a Lieu de Mémoire in Marianne Rosenbaum's Film *Peppermint Frieden*," in *Seminar* 40:1 (Feb. 2004), 19-34. She also published several book reviews and delivered a scholarly taslk, "Feminist Mythopoesis?..." at the German Studies Association Conference in New Orleans.

Stephen Bishop delivered a talk, "Hallucinatory Ministry and the Quest for Identity à l'Orient" at the Modern Language Association convention in San Diego (December).

Monica Cyrino, who had a visiting appointment at the University of Arizona during 2003-2004, published an article, "*Gladiator* and Contemporary American Society," in *Gladiator: Film and History*, ed. Martin Winkler (Oxford). She also began a new career as a TV celebrity, appearing on The History Channel in a panel discussing the Mel Gibson movie, *The Passion of the Christ.*

Natasha Kolchevska published an article, "The Art of Memory: Cultural Relevance as Political Critique in Eugenia Ginzburg's Writing of the Gulag" in <u>The</u> Russian Memoir: History and Literature (Northwest University Press).

Byron Lindsey co-translated (with John Mason) a short story by Yevgeny Shklovsky, "A Cup of Coffee at the Café on Ostozhenko," in AGNI published by Boston University Press, and completed a digital film, "May Dreamer," in Russian for UNM students.

Joseph McAlhany continues to prepare the manuscript of his book *Truth and* Language in Varro to submit to Cambridge University Press.

Walter Putnam published two articles, "André Gide's Congo Journey: The Making of *Homo Performans*" in *Current Writing* ed. Sally-Ann Murray, and "African Animals in the West: Can the Subaltern Growl" in *Remembering Africa* ed. Elisabeth Mudimbe-Boyi, He continues as the Director of Graduate Studies for FLL.

Katrin Schroeter, having published a book in the previous year, worked hard overseeing the German summer school program pending the departure of Prof. Pabish, and will be spending this entire year research a new book in Germany.

Warren Smith has submitted the final proofs for his book, Satiric Advice on Women and Marriage from Plautus to Chaucer, which will be published this fall by University of Michigan Press. In May he traveled to the Philippines as a continuing part of mission work for his church.

Developments During the Academic Year

Overview: The Geography Department maintained its academic, research, and service functions during the year despite a severe shortage of regular, full time faculty to support the curriculum, program requirements, and needs of its undergraduate and graduate majors. Nevertheless, the number of MS majors continued to grow, and the faculty continued to be productive in an uneven fashion in spite of growing administrative requirements from all levels of University governance.

New Faculty Appointment: In January, Dr. Richard Watson, formerly on staff in the Earth Data Analysis Center (EDAC) was appointed as Research Associate Professor of Geography. His position is expected to be funded by a combination of projects, foremost of which is the Center for Rapid Environmental Assessment and Terrain Evaluation (CREATE). Aside from CREATE, his primary responsibilities are to identify and pursue new funding opportunities in and for Geography, and to promote the Department's multidisciplinary and interdisciplinary research collaborations.

Fund Raising: In March, the Department inaugurated its first annual fund raiser to secure alumni support for modernizing the furnishings and ambiance of its instructional geographic information systems (GIS) laboratory. The effort was successful in raising some \$4000, which was used to purchase chairs and other small equipment for the lab. The entire list of Geography alumni is about has about 400 names. From these, the Department received responses from 21 for an average contribution of \$190. The average is artificially high in that two contributors donated \$1000 each. A truer average after adjustment is \$105/donation.

Recruitment: The Department engaged in a variety of student recruiting efforts including: (a) opportunities at the Association of American Geographers (AAG) and American Society for Photogrammetry and Remote Sensing (ASPRS) meeting, and at International meetings like ISPRS and ESRI; (b) responses to inquiries from other colleges and universities; (c) responses to employment opportunities made possible by Departmental and related research efforts (most prominently EDAC and CREATE); and (d) attraction of students into the program based on classroom experiences and interest in subject matter. It has long been recognized in the discipline that students migrate to Geography as a major in the late Sophomore or early Junior years of study. High School graduates seldom (almost never) select Geography as a major because in New Mexico their only major acquaintance with the field occurs in Middle School. Efforts under the Geography Alliance (below) are aimed at modernizing the views and perceptions of Middle and High School geography education.

Curriculum Stakeholders Committee: Following the recommendations of a UNM Task Force report completed in 2002, a committee of university, government, industry, and students was created by the Department to obtain input about the importance, quality, and breadth of the Department's curriculum in geospatial education (see Annual Report for 2002/03). This committee met twice in the reporting period to review and provide suggested improvements on curriculum and degree-granting programs.

New Mexico Geographic Alliance: The New Mexico Geographic Alliance continues its outreach to K-12 teachers in New Mexico. The Annual Summer Institute had 26 participants who were mostly new to Alliance activities. They were also successful in obtaining a curriculum development grant from National Geographic and a maintenance grant for continuing operations.

Speaker series: This year's public outreach program was Organized and executed jointly by Geography and Earth Data Analysis Center with logistical support from Teresa Kuntz (CREATE), Judith Van der Elst, Heather Richards, and Veronica Arias (Anthropology). Five public lectures were presented during the December-2003-April 2004 period.

The first was by visiting professor Stuart White, General Coordinator, Fundación Cordillera Tropical Cuenca, Ecuador. Dr. White presented a very popular account titled *Lost City, Virgin Site: a preliminary survey of a major Incan settlement in Ecuador.*

In January, Mr. William Stone presented an overview of his recently published book titled *New Mexico: Then and Now.* Mr. Stone's work was a highly popular "coffey-table" gift over the Christmas Holidays, and provided the lecture audience a glimpse of how the re-photography of historic sites in New Mexico was accomplished.

Mr. Kurt Menke offered the February lecture. As a UNM EDAC employee, his presentation focused on volunteer work he performed for the Wilderness Alliance and the Wildlands Project applying geographic information systems technology to better understanding geospatial attributes of potential wilderness and critical habitat.

The March lecture was presented by Mr. Robert Julyan, Chairperson of the New Mexico Geographic Information Council (NMGIC), Committee on Geographic Names. Mr. Julyan is a national expert on geographic names and is especially knowledgeable on Place Names of New Mexico. His presentation titled *What's in a Name?...the Colorful History and Fabric of America's Place Names* was, at times, serious, and at other time uproarious as he explored "true tales from the files of the NM Geographic Names Committee.

To end the season, Dr. Ray Williamson, Research Professor of Space Policy and International Affairs, George Washington University presented his views on *Public Good and America's Earth Observing Industry*. He focused primarily on the 30-year history of America's leadership in Earth-observing satellite technology, and its evolution into an international requirement for monitoring global resources, pursuing policies for sustainable development, and providing homeland security.

Southwest Institute: The Southwest Institute was sponsored by the New Mexico Museum of Natural History and Science as a unique interdisciplinary forum to promote understanding and appreciation of the diverse natural environments and cultures of the American Southwest. In 2004 a one-day lecture and seven-day field course focused on the Front Range

area of the Southern Rocky Mountains where the Sangre de Cristos connect with the High Plains. This range is between the Glorieta Pass near Las Vegas [NM] and the Royal Gorge near Cañon City [CO]. Participants traveled to remote areas with an interdisciplinary team of four scholars as guides and were connected to local speakers two or three times each day.

The majestic Sangre de Cristo barrier range is fronted by rugged volcanic fields and landforms in New Mexico and by the Spanish Peaks and the Wet Mountains and Valley in Colorado. Evidence of the three historic cultures who occupied the area was presented of the Plains Indians [Ute, Apache, Comanche, Cheyenne-Arapahoe] who controlled the area in an early era; of the Hispano Culture that settled along the east-flowing rivers; and of the northern Europeans called "Anglos" who occupied the area as mountainmen, as railroaders and miners, and as farmers and ranchers.

Fifty-threes participant registered for and traveled with the interdisciplinary program. The Geography Department listed the course for credit and students were expected to design and develop a paper utilizing the specialties of the faculty team [geology, geography, Indian and hispano history, anglo history]. An extensive field guide and reader (455 pages) was provided by faculty and local speakers for participants.

Plans and Recommendations for the Near Future

Curriculum Stakeholders Committee: This group will continue to evolve its views about the role of Geography at UNM. It understands the need for theoretical and conceptual content at both the undergraduate and graduate levels and is strengthening its position regarding technical content in the curriculum at all levels. Its continuing role will be to review new course descriptions and catalog copy aimed at improving student recruitment and retention, while at the same time capitalizing on the unique roles of Geography in academia. Projections from industry and the Labor Department indicate unfilled national needs for educated and trained professionals in the geographic information sciences (GI-Sciences). The department intends to pursue these opportunities vigorously.

Fund-Raising: Another Alumni fund raiser will be mounted in 2004/05. This will be augmented by a fund raiser focused on industry and other "friends of Geography at UNM.

Speaker Series: During the 2004-2005 academic year, we have planned talks by Thomas Baerwald, National Science Foundation, and either the current or past President of the Association of American Geographers.

Appointments of Faculty/Staff

Dr. Richard (Rick) Watson: Research Associate Professor of Geography

Separations of Faculty/Staff

None

Publications of the Department and Faculty

Departmental:

None

Faculty:

<u>Cullen</u>

Cullen, B. 2003. Management of Western Australia's land: who is in charge? In: W. Leimgruber, R. Majoral, and C. Lee (eds.). *Policies and Strategies in Marginal Regions*. London: Ashgate, pp.138-148.

Cullen, B. 2004. The 'Crème De La Crème' of Consumers? An Analysis of the Lesbian and Gay Male Market. *Papers of the Applied Geography Conference*. 26:111-120.

<u>Matthews</u>

A.A. Balkema, with M. E. Campana, L. Scuderi, O.P. Matthews, J. Chermak, K. Krause, K. Gregory, S. Snell. 2003. Development of A Model For The Reallocation Of Water and Assessment Of The Hydrological Effects Of Climate Change In The Upper Rio Grande Basin, Southwestern USA. In: A. Alsharan and W. Wood (eds.), *Proceedings, Dubai International Conference on Water Resources and Integrated Management in the Third Millennium*. London

Campana, M.E., L. Scuderi, O.P. Matthews, D. Brookshire, K. Krause, J. Chermak, B. Cullen, S. Snell and K. Gregory. 2003. Reallocation of water and the hydrological effects of climate change: the upper Rio Grande basin, southwestern USA. In: A. S. Alsharan and W.W. Wood, (eds.). *Water Resources Perspectives: Evaluation, Management and Policy, Developments in Water Science 50*. Elsevier: Amsterdam, pp. 169-181.

Matthews, O.P. 2003. Simplifying Western Water Rights to Facilitate Water Marketing. *Water Resources Update*. 126:40-44.

Matthews, O.P. 2003. Defining Property Rights for Water Marketing. *Proceedings World Water Congress*. International Water Resources Association, Madrid.

Matthews, O.P. 2003. Water Law. *Water Sciences*. Farmington Hills, MI: Macmillan Reference USA .

Matthews, O.P. 2003. Public Water Rights. *Water Sciences*. Farmington Hills, MI: Macmillan Reference USA (2003).

Matthews, O.P. 2004. Fundamental Questions about Water Rights and Market Reallocation. *Water Resources Research* (Published)

Matthews, O.P. (Accepted for Publication). Ground Water Rights, Spatial Variation, and Transboundary Conflicts. *Ground Water*

<u>Moraìn</u>

Morain, S.A.. In Press. Epilogue. The ASPRS Manual of Remote Sensing: Human Settlements. Merrill Ridd, ed. New York: John Wiley.

Morain, S.A. and A.M. Budge. 2004. Satellite Technology for Assessing Biological Threats and Enhancing Bio-Surveillance. In: B. Daniels (ed.) *Proceedings, Homeland Security: Toward Converging Partnerships*. BTR 2004 Unified Science and Technology for Reducing Biological Threats and Countering Terrorism, Pages 109-117.

Morain, S.A. and A.M. Budge (eds). 2004. Post Launch Calibration of Satellite Sensors. ISPRS Book Series, Volume 2. The Netherlands: Balkema. 193 pages. ISBN 90-5809-693-9.

Wang, Y., M. Jamshidi, S. Morain, P. Neville, and C. Bales. Multispectral Landsat Image Classification Using a Data Clustering Algorithm. International Society for Photogrammetry and Remote Sensing, 20th International Congress, Istanbul, June. *Archives B-7: 17-20.*

Note: Much of Dr. Morain's "written record" for the year consisted of PowerPoint slide presentations at briefings, showcases, and conferences required by NASA and U.S. DOT funded research projects.

Watson

Like Dr. Morain, Dr. Watson's "written record" consisted of PowerPoint slide presentations at showcases and conferences required by NASA funded research projects. In addition to these presentations, Dr. Watson made the following published contributions.

Watson, R. 2003. Research and Applications Using Real-Time Direct Broadcast Imagery, Weather Radar and Lidar In Disaster Response And Preparedness. *Workshop on the Application* of Remote Sensing Technologies for Disaster Response. Irvine, CA. http://shino8.eng.uci.edu/Remote Sensing 2003.htm

Watson, R., K. Benedict and T. Kuntz. 2003. Monitoring Weather Hazards on Rural Roads using Remote Sensing and GIS. *Papers of the Applied Geography Conferences*. 26: 266-275, Colorado Springs, CO. November

Watson, R. and L.A. Scuderi. 2004. Rapid Response for Grassland Management: Capturing Localized Greenup Through MODIS and NEXRAD Fusion. *CEOS Workshop on Rapid Response Information Systems*, Wuhan, China. http://modis.whu.edu.cn/workshop/agenda.php

Watson, R., L. A. Scuderi, K. K. Benedict, and T. R. Kuntz. 2004. Data Fusion for Environmental Assessment: Integrating MODIS Imagery and NEXRAD Weather Radar. International Society for Photogrammetry and Remote Sensing, 20th International Congress, Istanbul, June. *Archives B-4:906-909* Watson, R., L.A. Scuderi, T.R. Kuntz, and Karl K. Benedict. 2004. Assessing Vegetation Response to Local Rainfall Events Using NEXRAD Weather Radar and MODIS Imagery. *Proceedings of the ASPRS 2004 Annual Conference*, Denver, Co, May

Watson, R., K. Benedict and T. Budge. In Press. New, Emerging, and Planned Instruments for Remote Sensing of Human Settlements." Chapter 11 in *The ASPRS Manual of Remote Sensing: Human Settlements*. Merrill Ridd, ed. New York: John Wiley.

<u>Williams</u>

Williams, J. 2004. The Cultural Geography of the Front Range and Southern High Plains. Presentation at the Museum of Natural History, Albuquerque, NM.

Outside Professional Activities

Cullen:

International:

- A. Steering Committee (1 or 10), IGU Commission on Evolving Issues of Geographic Marginality in the Early 21st Century World
- National:
- A. Chair, Association of American Geographers, Committee on Bylaws and the Constitution
- B. Member of the Board of Directors, Applied Geography Conferences
- C. Paper presentation: "The Debate Over The Silvery Minnow." Annual Meeting, Association of American Geographers, Philadelphia
- D. Paper presentation: "The 'Crème De La Crème' of Consumers? An Analysis of the Lesbian and Gay Male Market," Colorado Springs

Regional:

- A. Editorial Board, Southwest Geographer
- B. Paper presentation: "An Overview of New Mexico's Water Problem." Annual Meeting, Southwest Division, Association of American Geographers, Stillwater

Local:

- A. University: Faculty Senate Curriculum Committee
- B. College: A&S Graduate Committee
- C. Department: Graduate Advisor; Chair, Graduate Committee

Chair, Library Committee

D. Three presentations: New Mexico Geographic Alliance, Albuquerque, NM

Matthews:

Elected to National Council, Association of American Geographers (2003-2006).

Coordinator New Mexico Geographic Alliance

Morain:

Program Reviewer for George Mason University: A Proposal for a Ph.D. in Earth Systems and GeoInformation Sciences. The School of Computational Sciences in Collaboration with the Departments of Geography and Environmental Sciences and Policy, and the School of Public Policy.

Proposal Reviewer: Canada Foundation for Innovation Science. Reviewed six Canadian proposals and served on the review panel for Innovative Research in the Geographic Information Sciences. Ottawa, CN

Organized and conducted an International Workshop on Radiometric and Geometric Calibration of Satellite Sensors. Gulfport, MS. December 2003. Adjunct to this effort was the effort to compile and edit the book listed under Publications (above)

Served fourth and final year as President of Commission-I of the International Society for Photogrammetry and Remote Sensing. In that capacity managed six (6) International Working Groups on a variety of topics subsumed under Commission-I. Worked with other Commission Presidents to organize the technical program for the XXth Congress of ISPRS.

Watson:

Served as Secretary of Working Group 6 of Commission I of the International Society for Photogrammetry and Remote Sensing. In that capacity he served as reviewer and organizer for papers submitted to the Working group for presentation at the XXth Congress of ISPRS. Also in that capacity chaired Working Group sponsored sessions at the Congress.

Williams:

Began a project of transferring data on 78 homesteader interviews from audio tapes to CD's in June 2004 to develop primary data sets for a book on homesteading.

Outside Sponsored Research

Matthews:

Matthews, Olen Paul, New Mexico Geographic Alliance, National Geographic Society, \$84,746 (2003).

Matthews, Olen Paul and Don McTaggart, "Eagle Vision: Employing Geographic Information Technologies in Indian Schools and Communities," National Science Foundation (ITEST), (Subcontract) \$192,000 (2004-2007).

"Fully Integrated System Dynamics Toolbox for Water Resources Planning" Sandia National Laboratories, Principle Investigator: Janie M. Chermak, Associate Professor of Economics. Co-Principle Investigator: David S. Brookshire, Professor of Economics, Investigator: Olen Paul Matthews and Others, \$240,000 (2003 – 2006).

Matthews, Olen Paul, "Educator Reflections on the Rio Bravo del Norte: The Rio Grande As our Web of Life," National Geographic Society, \$62,605 (2004-2005).

Matthews, Olen Paul, "New Mexico Geographic Alliance Maintenance Grant," National Geographic Society, \$24,720 (2004- 2005).

Matthews, Olen Paul, "An Integrated GIS Framework for Water Reallocation and Decision Making in the Upper Rio Grande," E.P.A. \$410,000 (2000-2003), Co-PI with David Brookshire.

Matthews, Olen Paul, "A Quantitative Assessment of the Economic and Institutional Impacts of Climate Change on the Upper Rio Grande Valley using an Integrated GIS Framework," N.S.F. \$675,000 (2000 – 2003), Louis Scuderi P.I.

Morain (Cross-reference with Annual Report from Earth Data Analysis	s Center)
(Completed this reporting period) NASA Earth Science Information Partners	•
(ESIP) 3-01-98 to-12-31-03	\$2,680,767
(Continuing) U.S.DOT National Consortium for Remote Sensing in	
Transportation (NCRST-H) Safety, Hazards, Disasters, and Security 3-19-0)0 to
3-18-04	\$3,269,181
NASA Research, Education, Applications Solutions Network (REASoN)	
2-04 to 2-08	\$3,200,000

Watson

Watson, Richard P., "Center for Rapid Environmental Assessment and Terrain Evaluation (CREATE). NASA (2003-2005), Co-PI with Louis Scuderi. \$1,800,000

Department of History

Annual Report, July 1, 2003 - June 30, 2004 By: Jane Slaughter, Chair

In 2003-2004 the History Department experienced continued growth, productivity and creativity in the arenas of research, teaching and service. Faculty, students and staff have worked hard to increase the stature of the Department and to enhance the national reputation of the UNM. We have moved in some new directions, evaluated programs and courses, and received considerable external support both in terms of grants to individuals, as well as gifts and endowments that allow us to pursue both the teaching and research missions of the Department.

I. Significant developments during the academic year

Faculty in the Department have maintained active research agendas, and as a result published a number of books and articles in the past year. (See listing below.) They presented their research at national conferences including the annual meetings of the American Historical Association, the Organization of American Historians, the Canadian Society for 18th Century Studies, the American Society for Ethnohistory, the Western History Association and the American Association for the Advancement of Slavic Studies. Two of our faculty were awarded nationally competitive Mellon grants, and History graduate students received scholarships and fellowships awarded for work in southwestern and Latin American History, two programs that continue to be strong in the Department. History faculty were also the recipients of prestigious nationally competitive prizes: Prof. Virginia Scharff was elected a Fellow of the Society of American Historians "in recognition of the literary and scholarly distinction" of her work, while Prof. Paul Hutton received the Western Heritage Award, from the National Cowboy and Heritage Museum in Oklahoma for his documentary film, "Daniel Boone and the Westward Movement." Prof. Hutton continues to develop his national reputation as a documentary film maker, most recently in a television presentation on "Billy the Kid" that aired in April 2004. The Department has continued to provide funding on a competitive basis to support research, manuscript preparation and translation assistance, and supported release time for junior faculty engaged in research and writing projects critical to future tenure decisions.

One of the issues this department (like many others) has had to confront in the last few years is retention of faculty, many of whom are wooed by other universities, or are motivated for multiple reasons to look at positions elsewhere. We have been most successful in keeping our faculty – over the last three years we have had nine faculty who were offered positions at highly competitive institutions. We have managed to keep seven of those individuals on our team. This last year, that process of countering an offer involved our taking advantage of the University's policy on spousal hires for recruitment and retention. Two of our junior faculty members have spouses who are academics, and thus they were pursuing jobs that would allow them to locate in the same area, or ideally in the same institution. With assistance from the Dean of the College of Arts and Sciences, we were able to participate in "spousal hiring" that kept both

junior faculty members here, **AND** added two additional, highly qualified young scholars to UNM's ranks. As a result of this experience our Department deliberated on a policy for spousal hires. We now have a well spelled-out process through which we can proceed in future cases of this sort.

Our commitment to teaching on undergraduate and graduate levels remains constant. Full-time faculty from junior to senior ranks regularly teach the introductory survey courses. This last year in Fall semester, we had 1637 students enrolled in lower division courses, 1456 in upper division, while in Spring 2004 comparable numbers were 1480 and 888. To make up for faculty on leave or with release time because of administrative duties, we continued to use our Associate in Teaching program that allows our ABD students to teach beginning courses, or topics courses that reflect the focus of their graduate work in the EWDP program. (Fall 2003 four graduate students taught such courses; Spring 2004 three students did the same.) By giving graduate students the opportunity to have sole authority in their classes we believe we are contributing to their professional development, and to their future employment. In Spring 2004 (and we expect to make this a permanent arrangement), Prof. Melvyn Dubofsky (Bartle Distinguished Professor of History at SUNY, Binghamton) taught an undergraduate course in US Labor History.

The Department continues to expand our offerings of introductory courses (101, 102, 161, 162) with enrolled discussion groups. Additional funding from the Dean of the College of Arts and Sciences has make it possible to fund additional Graduate Teaching Assistants (GTAs), and thus offer two US and two Western Civilization courses/semester that employ such a structure. Data from surveys of students who enroll in such courses indicates that the majority feel this experience is valuable and as a result they would "actively seek out" such courses in the future. We also have many more faculty who are interested in teaching surveys with discussion sections, and thus now need to develop the criteria for selection of faculty to do so when there are more interested faculty than there are GTAs to handle the discussion sections.

Over the last year the Department has devoted considerable energy to an evaluation and reconfiguration of our doctoral program under the auspices of the Carnegie Initiative on the Doctorate (CID). As one of 16 History programs nationwide selected to participate in this initiative, a team of some ten faculty and four graduate students has been working to determine our role as a "steward of the discipline" in the 21st Century. As a result of frequent deliberations by the team, attendance at a national meeting with other CID departments, and discussions with the entire faculty, we are (a) revising our field and core study requirements, (b) proposing new means of assessing graduate student performance, and (c) focusing on ways to strengthen professionalization and career preparation among those students. We are now entering the second year of the three year Initiative, and believe we will have much to report at next January's national meeting with other CID participants. Last year's Annual Report noted our move to develop a Public History Program in the Department. Those efforts are now focused within the work of the Carnegie team, particularly as we recognize that we are training students not just for positions in universities and colleges around the country, but in museums, archives, and film making enterprises.

In last year's report on our future plans, we noted that we intended to participate in the College-wide development of both Pre-Law and Pre-Medicine programs of studies. The Pre-Law program has become a reality to which we contribute, and while we have participated in discussions about the Pre-Medicine course of study, that program is still in the planning stages. Within the Department we have revived our chapter of Phi Alpha Theta, the national History Honor Society -- thanks to the energy of Assistant Professor Enrique Sanabria -- and have successfully recruited a number of undergraduate majors and graduate students to the organization. We also have continued discussions about undergraduate recruitment, and assessment of the overall impact of undergraduate history study on our majors. We have created department organized data bases for our MA and our PhD students, for scholarship and fellowship information for both graduates and undergraduates, and hope to be able to create a better system of recording information about History majors and alums. For the record, in 2003-2004 we had 77 students enrolled in our graduate program, and 240 undergraduate majors. In May of 2004 we awarded 87 BA degrees, 8 MA degrees and 8 PhDs.

During 2003-2004 we completely changed the format and content of our Department newsletter, and have some ideas for new features for next year's edition. We would like to be able to use this venue to inform the university community, alumni and those who have made gifts to the Department of our past activities and future plans. With the support of Outreach Services (especially Lawrence Roybal), we also re-did our Department recruitment brochure over the course of the previous year. Both of these actions by the Department reflect our ongoing interest in bringing good students into our programs, publicizing major department initiatives, and above all, reaching out to the "friends of History" who so generously support our work.

II. Plans and recommendations for the future

Current good fortunes in our Department are shaped by the past, and will continue to shape our future actions. This past year the Department benefitted greatly from the generosity of alumni, friends and their families. The gift from the Gorham Foundation helped to create an endowment for a faculty position in Ancient History, the search for which is currently underway. An undergraduate scholarship was created by an endowment in honor of Graham Browne, a former History major and founder of one of New Mexico's leading law firms. Another former student, Dr. Joyce Falk has begun an endowment to honor a former UNM colleague (and her former teacher), Benjamin Sacks. This scholarship eventually will be awarded to students working in European, Middle Eastern or Asian history. Mrs. Jeanne Dabney, the widow of former faculty member, William Dabney, also has established an endowment to fund a fellowship for a graduate student who is studying US Constitutional history or the history of the early Republic, both fields of emphasis for Prof. Dabney. Then quite by surprise in April 2004, the Department received a large gift as a bequest from Bill Shoemaker, also a graduate of our Department in the 1960s and a long-time teacher in Albuquerque. His most generous gift will enable the Department to create one or two awards for faculty research or teaching projects. One of our goals in 2004-2005 will be to determine the criteria and the selection process for these awards, and others just mentioned. The Department now has twelve endowments of this sort. five received this year. The most recent gifts bring the market value of our endowments close to \$500,000. Gifts such as these are a great affirmation of the long-lasting impact of the teaching

and study of History. They also serve as an incentive to communicate and connect with the community on a systematic and regular basis, and planning to those ends is currently underway.

As part of the College of Arts and Sciences' "Planning for Success, Excellence and Distinction," our Department will engage in more concrete assessment of our undergraduate program to include consideration of our goals and the outcomes of students' efforts as they move through the requirements of our major and minor; review our Honor's Program to determine how we might enhance that experience, and also look more directly at our connections with programs for study abroad. Assessment of the Core Curriculum now underway will provide another mechanism for a review of our program.

During 2004-2005 our Department also will search for two new faculty members (both at the Assistant Professor level) – one in Ancient History as already mentioned, the other in 20^{th} century US History. Those processes, added to the ongoing Carnegie Initiative, and increased emphasis on outreach, should keep us busy for the academic year ahead.

III. Appointments/Separations of faculty/staff

Appointments:

Cathleen Cahill, Assistant Professor, US History, the American West, American Indian Studies, gender and the family, environmental history – effective August 2004.

Cynthia Radding, Professor, Latin American History and Director of the Latin American and Iberian Institute – effective August 2004.

Separations:

Lynn Schibeci, Assistant Professor, 19th Century European History – resigned effective January 2004.

David Farber, Professor, 20th Century US History – resigned effective July 2004 to take a position at Temple University.

IV. Selected Publications of the Department for 2003-2004

Ball, Durwood. Foreword to George P. Hammond, ed., *Campaigns in the West, 1856-1862: The Journal and Letters of Colonel John Van Deusen DuBois* (1949: reprint, Tucson: Arizona Historical Society, 2003), iii-xxix,

Bokovoy, Melissa, with Jane Slaughter, *Sharing the Stage: Biography and Gender in Western Civilization*, 2 vols. (Boston: Houghton Mifflin, 2003).

. "Croatia, Serbia, Yugoslavia," and "Fascism in Croatia," in *Women, Gender* and Fascism in Europe, 1919-1945, ed. Kevin Passmore (Manchester: Manchester University Press, 2003), pp. 91–124. Connell-Szasz, Margaret, "Indian Education," *Dictionary of American History*, vol. 3 (New York: Charles Scribners Sons, 2003, Third Edition), 133-137.

"The Cultural Renaissance in Native American and Celtic Worlds, 1940-2000," in *The American West in 2000*, eds. Richard W. Etulain and Ferenc M. Szasz (Albuquerque: University of New Mexico Press, 2003), 17-34.

Gauderman, Kimberly, Women's Lives in Colonial Quito; Gender, Law and Economy in Spanish America (Austin, TX: University of Texas Press, 2003).

. "A Loom of her Own: Women and Textiles in Seventeenth-Century Quito," Colonial Latin American Review, 13:1 (June 2004), 47-63.

Graham, Timothy. "William L'Isle's Letters to Sir Robert Cotton," in *Early Medieval English Texts and Interpretations*, ed. E. Treharne and S. Rosser (Tempe, AZ: ??, 2003), 353-379.

. "Cambridge, Corpus Christi College, Mss. 57, 191, 422," in Anglo-Saxon Manuscripts in Microfiche Facsimile, ed. A. N. Doane, vol. 11 (Tempe, AZ: ???, 2003), 28-38, 39-47, 83-100.

Hutchison, Elizabeth, "Add Gender and Stir?: Cooking Up Gendered Histories of Latin America," *Latin American Research Review* 38:1 (2003), 267-287.

Hutton, Paul, Writer and Co-Producer, "Carson and Cody: The Hunter Heroes," Native Sun Productions for the History Channel, August 12, 2003 (airdate), 2 hours.

_____, Guest-Curator, "Billy the Kid in Popular Culture," Exhibit, Hubbard Museum of the American West, Ruidoso, New Mexico, May 24-October 26, 2003.

Moy, Timothy, "Technology and the Cult of Tech in the 1970s," in *America in the 1970s*, eds. Beth Bailey and David Farber, (Lawrence, Kansas: University Press of Kansas, 2004), 208-228.

Sandoval-Strausz, Andrew, "A Public House for a New Republic: The Architecture of Accomodation and the American State, 1789-1809," *Perspectives in Vernacular Architecture*, 9 (2003), 54-70.

Slaughter, Jane with Melissa Bokovoy, *Sharing the Stage: Biography and Gender in Western Civilization*. 2 vols. (Boston: Houghton Mifflin, 2003).

"Linea gotica," Teresa Noce," Camilla Ravera," in *Dizionario del fascismo*, eds. Victoria de Grazia and Sergio Luzzatto, Vol 2 (Turin, IT: Einaudi Editore, 2003), 52-53, 235-236, 469-470. _____. "What's New?" Genere e modernita nella cultural aziendale," in Genere, generazione e consumi, ed.Paolo Capuzzo, (Rome: Carocci Editore, 2003), 139-154.

Szasz, Frank with Richard Etulain, eds., *The American West in 2000: Essays in Honor of Gerald Nash* (Albuquerque: University of New Mexico Press, 2003).

. "Introduction," and "Organized Religion and the Search for Community in the Modern American West," in *The American West in 2000*, eds. Frank Szasz and Richard Etulain (Allbuquerque: University of New Mexico Press, 2003), 127-142.

. "John Anderson, The Wizard of the North, and Popular Entertainment in the Victorian Era," *Northern Scotland* 23 (2003), 99-106.

. "C. J. Mackay, The Scottish Immigrant as California Vigilante," "Nellie Ettles Allan," and "The New North-West," in *Scotland and the Americas, c. 1650-1939: A Documentary Sourcebook* ed. Allan I. Macinnes, . (Edinburgh: Lothian Print, Ltd. 2003), 200-201, 248-249, 283-284.

Scharff, Virginia, Twenty Thousand Roads: Women, Movement and the West (Berkeley: University of California Press, 2003).

, ed., Seeing Nature Through Gender (Lawrence, KS: University Press of Kansas, 2003).

Yazawa, Melvyn, ed. *Documents to Accompany America's History*, Vol. 1: to 1877 (New York: Bedford/St. Martin's Press, 2003).

Annual Report Department of Linguistics 2003-2004 Sherman Wilcox, Associate Professor and Chair

1. Significant developments during Academic Year 2003-2004

Professor Joan Bybee was selected to present the Annual Research Lecture, the highest honor the university bestows on faculty. Professor Bybee's lecture, "Say It Again: How Usage Shapes Language," was present on April 30, 2004.

Associate Professor Melissa Axelrod was selected as one of four Regents' Lecturers for Arts and Sciences (active term for three years).

Dr. Caroline Smith was granted tenure and promoted to the rank of Associate Professor.

Professor Bybee named as president of the Linguistic Society of America, the largest organization of professional linguists in the world.

Chris Sims was honored on February 3, 2004, in the Senate Chambers of the Capitol, Santa Fe, for her outstanding work on preservation of native languages and cultures.

Melissa Axelrod and Sherman Wilcox appeared on KUNM to discuss the work of the department, especially focusing on scholarly work and community service in the areas of native language revitalization and signed language studies and interpreting.

Worked with College of Arts and Sciences and School of Medicine on development of the Combined BA-MD degree program.

Sponsored *Sign Fest 2004*, a visual arts performance at Popejoy Theatre. Event raised close to \$5000 for the department.

During *Sign Fest 2004*, the department presented awards to students in signed language studies, interpreting, and linguistics.

Obtained \$2000 from the College of Arts and Sciences to continue the Honors Program in linguistics and signed language studies/interpreting.

The department took part in the Star Scholars Program on May 3-4, 2004.

Financially supported the Institute for Medieval Studies Lecture Series.

Continued the successful department practice talk program.

Hosted departmental orientation for faculty, new and returning undergraduate and graduate students, early in the fall semester.

Hosted departmental retreat for faculty and staff to set departmental goals for the year, address departmental issues, and develop long-term plans for improving the curriculum, enhancing recruitment of graduate students.

Continued to upgrade and enhance the department website to include news of events concerning students and faculty in the department.

Continued projects to standardize departmental administrative functions. Continued the process of developing network access to certain databases for departmental functions.

2. Significant plans and recommendations for the near future

Sherman Wilcox, Barbara Shaffer, and Phyllis Wilcox continue to work with the College of Education and the New Mexico School for the Deaf on a proposal to establish a Masters Degree in Deaf Education at UNM.

The department has determined that it should explore resources for scholarships and awards in an effort to enhance our ability to attract, recruit, and retain excellent graduate students.

3. Appointments to faculty and staff

4. Separations of faculty and staff

5. Publications of faculty in Linguistics which appeared in calendar year 2003

Axelrod, Melissa

2003. With J. Gómez de García, and J. Lachler. The roles of literacy and collaboration in documenting Native American languages: A report from the Jicarilla Apache Dictionary Project. *Sign Language Studies* 3:3, 67-101.

Bybee, Joan

2002. La difusión léxica y el modelo de ejemplares. In Zarina Estrada Fernández and Rosa María Ortiz Ciscomani (eds.) *Encuentro internacional de lingüística en el noroeste*, pp.15-28.

Hermosilla: Editorial UniSon.

2003. Mechanisms of change in grammaticization: the role of frequency. In R. Janda & B. Joseph (eds.) *Handbook of Historical Linguistics*, pp. 602-623. Oxford: Blackwell Publishers.

2003. Los mechanismos del cambio universals lingüísticos. In Ricardo Mairal and Juana Gil (eds.) *En Torno a Los Universales Lingüísticos*, pp.245-263. Cambridge: Cambridge University Press.

Morford, J. P.

2003. With J. MacFarlane. Grammatical development in adolescent first language learners. *Linguistics* 41:4, 681-721.

2003. Frequency characteristics of American Sign Language. Sign Language Studies 3:2, 213-225.

2003. Why does exposure to language matter? In T. Givón & B. Malle (eds.) *The evolution of language from pre-language*, pp. 329-341. Amsterdam: Benjamins.

2003. Review of Gary Morgan and Bencie Woll (eds.), Directions in sign language acquisition. Sign Language & Linguistics 6 (1), 115-119.

Smith, Caroline L.

2002, Discourse-related effects on speech durations: a challenge for models of speech production. In J. Larson and M. Paster (eds.) Proceedings of the 28th Annual Meeting of the Berkeley Linguistics Society, pp. 303-313. Berkeley, CA: University of California.

2003. Vowel devoicing in contemporary French. *Journal of French Language Studies* 13, 177-194.

2003. With L. Hogan and M. McCraw. Reading aloud a connected text: how the organization of topics affects sentence-final lengthening in English, French and Japanese. Proceedings of the 15th International Congress of Phonetic Sciences, pp. 1799-1802. Barcelona, Spain.

Travis, Catherine E.

2003. The semantics of the Spanish subjunctive: Its use in the Natural Semantic Metalanguage. *Cognitive Linguistics* 14(1), 47-69.

2003. The emphatic es construction of Colombian Spanish. Proceedings of the 2003 Australian

Linguistic Society, With Timothy Jowan Curnow). http://www.newcastle.edu.au/school/lang-media/news/als2003/proceedings.

Wilcox, Sherman

2003. American Sign Language. In W. Bright (ed.) Oxford Encyclopedia of Linguistics. Oxford University Press.

2003. With D. F. Armstrong. Origins of signed languages. In M. Marschark and P. Spencer (eds.), Oxford Handbook of Deaf Studies, Language, and Education. Oxford University Press.

2003. The Multimedia Dictionary of American Sign Language: Learning Lessons about Language, Technology, and Business. *Sign Language Studies* 3(4), 379-392.

6. Outside professional activities of staff members

Faculty and staff performed a multitude of service to the profession and the community during 2003-2004. Examples of such professional service activities include:

Melissa Axelrod

Ongoing work with Nambé Pueblo, Jicarilla Apache community, and the Mayan Ethnographic Documentation Project.

Joan Bybee President of the Linguistic Society of America.

Jill Morford Fulbright Senior Scholar Fellowship

Karen Naughton

Ongoing work with the Community Outreach Program for the Deaf and the Deaf Cultural Center, Albuquerque, NM

Bonnie Rudy American Sign Language Teachers Association

Barbara Shaffer

New Mexico Licensure Committee (mandate to develop state licensing procedures for signed language interpreters)

Christine Sims Provided testimony regarding Congressional re-authorization of the Native Languages Act of 1990

and 1991 before the U.S. Senate Committee on Indian Affairs

Caroline Smith Referee for the National Science Foundation

Catherine Travis Referee for the Journal of Latin American and Iberian Studies; co-organizer of the Hispanic Linguistics Symposium.

Phyllis Wilcox Organized and directed Sign Fest 2004

Sherman Wilcox

Serves on the editorial board of *Sign Language Studies, Gesture,* and *Annual Review of Cognitive Linguistics*; coordinated interpreter services for the International Cognitive Linguistics Association conference, Logrono, Spain.

Roseann Willink Served as a judge for Native American Language-Literacy Festival

Nancy Montoya Serves on the Banner scheduling/catalog task force, 2004-2006.

7. Outside sponsored research

Melissa Axelrod National Science Foundation, "Dictionary of Jicarilla Apache," \$225,909.

Caroline Smith National Science Foundation, "Modeling durational patterns in connected discourse," \$130,010.

Phyllis Wilcox

\$3000 grant from the U. S. Rehabilitation Services Administration Region IV Interpreter Education Project for Individuals Who Are Deaf-Blind (University of Arkansas).

8. Students' professional activities

Presentations

Catie Berkenfield, "Performing gender in context: Metaphor and the construction of social subjects." Poster presented at the Third International Gender and Language Association Conference, Cornell University, June 4-7, 2004.

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Gabriel Arellano and Wendy Severns, "A Linguistic Analysis of Utterance Construction in American Sign Language, British Sign Language, Mexican Sign Language, and Japanese Sign Language," 2nd Annual Undergraduate Linguistics Colloquium, Harvard University, April 2004.

Paul Edmunds, "A comparison of the usage of the Spanish preposition *en* in monolingual and contact varieties," Hispanic Linguistics Symposium, UNM, October 16-18, 2003.

Doctoral student Elisa Maroney presented at the Berkeley Linguistics Society 30th Annual Meeting, February 13-16, 2004.

Masters student Volya Kapatsinski presented at the Berkeley Linguistics Society 30th Annual Meeting, February 13-16, 2004.

Fellowships and Awards

Susan Buescher, UNM Sigma Xi "Superior Undergraduate Student" Award.

Susan Buescher, Department of Linguistics Undergraduate Research Award (linguistics).

Sarah Hafer, Department of Linguistics Undergraduate Research Award (signed language studies).

Laurel Page, Department of Linguistics Undergraduate Research Award (signed language interpreting).

Doctoral students Erin Wilkinson and Lucas Wilson received a \$2000 grant from Graduate Research Development for their project "Southwestern and Northern Mexican Signed Language and Spoke Dialects for Use in Research and Linguistic Education."

Doctoral student Christopher Shank received an \$800 grant from Graduate Research Development for his project "Building Consensus for Water Allocation Priorities in a Regional Planning Process' (the research involves a discourse analusis of discussions of the Middle Rio Grande Water Resource Project).

Undergraduate and graduate students Evan Ashworth, Susan Buescher, and Erin Debenport received \$2000 from Graduate Research Development for their "Nambé Tewa Dictionary Project."

Masters student Volya Kapatskinski received a \$1200 grant from Graduate Research Development for his project "A Corpus of Contemporary Spoken Russian."

6

Graduate students Paul Edmunds and Ana Medina-Murillo received \$600 and \$1000, respectively, from the OGS RPT Grant.

Undergraduate students Susan Buescher and Sarah Hafer took part in the 1st UNM Celebration of Undergraduate Research (PROFOUND Program), April 19, 2004.

Masters Comprehensive Exams and Theses, Dissertation Proposals and Defenses

Catie Berkenfield presented her dissertation proposal, "Constructing gender and ethnicity through metaphor in discourse: Sports talk in U.S. professional basketball and the athlete as social subject," August 14, 2003.

Laurel Standley presented her dissertation proposal, "Cross-level peer-tutoring effects on the English literacy development and academic motivation of English language learners with and without mild disabilities," November 21, 2003.

Nathan Bush passed his doctoral comprehensive examination with distinction, April 2004.

Jenny Halpern, Dan Sanford, and Lisa Shannon passed their masters comprehensive examinations. Lisa Shannon passed with distinction. March 2004.

9. Graduate study in the Department of Linguistics

Graduate Admissions 2003-2004

- 1. Nine students applied for the doctoral program in linguistics; seven were offered admission; three did not accept admission, one could not obtain a visa, two accepted admission elsewhere
- 2. 12 students applied for the masters program in linguistics; 11 were offered admission; two did not accept admission, three accepted admission elsewhere.

10. Graduates from the Department of Linguistics

Bachelor of Science in Signed Language Interpreting

- 1. D. Michelle Aldaz
- 2. Daisy Bearden
- 3. Shauna Collins
- 4. Sandra Cowell
- 5. Kristina Gurule

- 6. Ali Howell
- 7. Amanda Kreske
- 8. Kate Lind
 - 9. Kristi Love
 - 10. Yumi Mizuta
 - 11. Sara Roache
 - 12. Linda Skye
 - 13. Rebecca Varoz (with Honors)

Bachelor of Arts in Linguistics

- 1. Gabriel Arellano (with Honors), Concentration in Signed Language Studies
- 2. Susan Buescher (with Honors)
- 3. Sarah Hafer (with Honors), Concentration in Signed Language Studies
- 4. Julieta Avitia
- 5. Joseph Barnes
- 6. Maria Chisolm
- 7. Jason Gage
- 8. Jenna Hendricks
- 9. Megan Hoffman
- 10. Emily Kuchar
- 11. Tamara Reece
- 12. Rachel Steele ·

Master of Arts in Linguistics

- 1. Barbara Finch
- 2. Jennifer Halpern
- 3. Lisa Shannon

11. Events sponsored by the Department of Linguistics

Conferences and Mini-courses

Jay McClelland, Carnegie Mellon University, "Mini Course on connectionism," March 8 and 10, 2004.

Colloquium Series

Gertraud Fenk-Oczlon, University of Klagenfurt, Austria, "System typology," November 21, 2003.

Nina Garmann, University of Oslo, Norway, "Frequency effects and the quantity shift — the development of a phonological change in Norwegian," December 3, 2003.

Colleen Fitzgerald, Texas Technical University, "Rhythm in Tohono O'odham grammar," February 6, 2004.

Wiebke Iversen, University of Cologne, Germany, "'three' + 'drei' = '6'? A cross-linguistic study of number processing with DGS and ASL," February 13, 2004.

Jay McClelland, Carnegie Mellon University, "On the psychological status of linguistic units," March 11, 2004.

Larry Gorbet, University of New Mexico, "The semantics of SHARP in American Sign Language," April 16, 2004.

Susan Buescher, Evan Ashworth, University of New Mexico, and Brenda McKenna, Cora McKenna, Nambé Pueblo, "Nambé Pueblo dictionary project," April 23, 2004.

Douglas Simms, University of New Mexico, "The significance of the Mesopotamian deity Dagan for Indo-European studies," April 28, 2004.

Other Sponsored Workshops

Workshops sponsored by Arkansas Interpreting Grant

- (a) Gary Sanderson, "Team Interpreting," 8/16/03
- (b) Steven Hamerdinger and Roger Williams, "Interpreting in Mental Health Settings," 9/19/03 + 9/20/03
- (c) Jo Santiago, "Repetitive Motion Injury," 9/30/03
- (d) Barbara Shaffer, "Interpreting Modal Notions," 11/1/03
- (e) Ilene Weiss, "Catching Eyes: Engaging with Deaf Elementary Students," 4/2/04
- (f) Barbara Shaffer, "Shared Information & Topic Marking: What Signers Know and Interpreters Don't." 4/3/04
- (g) Bonnie Lynn Barker, "The Spirit and the Marathon: A look at Community & K-12 Interpreting," 4/3/04
- (h) Robert Hahn, "English Fluency in Voice Interpretation," 4/4/04

College of Arts and Sciences Department of Mathematics and Statistics Annual Report 2003-2004 Charles P. Boyer, Interim Chair, August 2003 to May 2004 Alejandro B. Aceves, Chair, May 2004 to June 2004

The Department of Mathematics and Statistics continued to meet the demands of its broadly defined missions in education, research, and service during the 2003-2004 academic year.

Significant Developments During the Academic Year, 2003-2004

- Including multiple year funding, our research funding was approximately \$4,373,352 for 2003-2004; this is an increase from \$2,532,833 last year. New funding includes grants for Professors Aceves/Kapitula, Koltchinskii, Nitsche, Pereyra, Putkaradze (2), Salter, Sulsky (2), and Warburton (2) as well as continuing funding for Professors Boyer & Galicki, Buium, Efromovich, Ellison, Hagstrom, Hagstrom/Warburton, Kapitula, Koltchinskii, Loring, Pereyra, Putkaradze, Salter, Steinberg, Stone, Sulsky, and Warburton. These grants funded 14 research assistants in the fall, 21 research assistants in the spring; this is a tremendous jump from last year when we funded 7 research assistants. Also, nine research assistants were funded by other departments.
- Total 21-day enrollment for the AY was 14,231 students, a decrease of 2.28% over the previous AY; this is the first time since 96-97 that we have experienced a decrease. There were 7,097 students enrolled fall semester, 6,098 students enrolled spring semester, and 1,036 students enrolled in summer school.
- The Department of Mathematics and awarded a total of 25 BS degrees, 15 MS degrees, and 7 Ph.D. degrees for AY 2003-2004.
- Professor Cristina Pereyra and Lecturer Cathy Gosler continue to promote the UNM Mathematics Contest with permanent funding (\$16,000 per year) from the Public Service Company of New Mexico Foundation. Prizes, including books, cash, and scholarships, were awarded at a banquet for contest winners. Professor Eva Silverstein, Stanford University and a McArthur Fellow, gave a general interest lecture on "The Accelerating Universe" in connection with the contest.
- We took advantage of the statewide high school PNM-UNM Math Contest mailings and sent flyers about our web site to high school teachers. We anticipate that this will help teachers state-wide prepare their students for UNM. Our finals from past

years are on our web site so that teachers and students will know what UNM's expectations are.

- A & S, Mathematics and Statistics, and English meet with the Math and English teachers from 37 schools in the state to discuss how to better prepare students for college mathematics.
- Because the Algebra Table has been so successful the past two years, we started a Calculus Table in Spring 04.
- We were able to purchase 48 Matlab licenses for the Lobo Computer Pod so students can have more accessibility to the software program. This funding came from student course fees, and we hope to continue to buy these licenses for our students.
- Dr. Ronald Schrader resigned as department chair after six years, and Dr. Alejandro Aceves became the new chair. However, Dr. Aceves was on sabbatical leave in the fall, so Dr. Charles Boyer acted as interim chair for the AY 2003-2004. Dr. Aceves assumed the title of department chair on May 17, 2004.
- Because of the high failure rate in the lower division mathematics and statistics classes, the ACT and SAT scores were raised for the pre-requisite for Math 120 through Math 162 and Stat 145.
- Andrey Glubokov received one of six awards for Outstanding Teaching Assistants at the University of New Mexico.

2. Significant Plans and Recommendations for the Near Future

We need to develop a coherent strategic plan to guide our next several hires. Because of a hiring freeze, we have not hired tenure-track faculty for the last two years. We need to continue to hire to come back to a critical mass. Regular faculty should be teaching courses from the calculus level and beyond, but we have many part-time faculty teaching calculus and even 300-level or graduate courses. We had a total of 29 Part-Time Instructors who taught 73 sections in fall 2003, and 27 Part-Time Instructors who taught 55 sections in spring 2004. Graduate offerings are slim to nonexistent in key areas. Our programs remain strong in the face of concerns for the future.

3. Appointments to Faculty/Staff

Our permanent faculty and staff did not change this year; however, we had one postdoc and one visiting professors this year: Mike Stubna, post-doc, taught for the academic year, and Jacek Bocknak, visiting professor, taught for fall semester only.

Separations

 Timothy Warburton has signed a contract at Rice University and will be on Leave With Out Pay status through January 2005.

Faculty Publications and Creative Works

Aceves, Alejandro

A.B. Aceves, C.M. deSterke, and M. Weinstein (2003), "Theory of nonlinear pulse propagation periodic structures." In *Nonlinear Photonic Crystals*, B. Eggleton and R.E. Slusher, eds. Springer Verlag; Bennet and A.B. Aceves (2003), "Parallel Numerical Integration of Maxwell's Full-Vector Equations in Nonlinear Focusing Media." *Physica D*. 184, pp. 352-375.

Bedrick, Edward

Thackaberry, E. A., Bedrick, E.J., Goens, M.B., Danielson, L., Lund, A.K., Gabaldon, D., Smith, S.M., and Walker, M.K. (2003). Insulin Regulation in AhR-null Mice: Embryonic Cardiac Enlargement, Neonatal Macrosomia, and altered Insulin Regulation and Response in Pregnantand Aging AhR-null Females. *Toxicological Sciences*, 76, pp. 406-417; Hanson, T., Bedrick, E.J., Johnson, W.O., and Thurmond, M.C. (2003). A Mixture Model for Bovine Abortion and Foetal Survival, *Statistics in Medicine*, 22, pp. 1725-1739; Smith, H.O., Hilgers, R.D., Bedrick, E.J., Qualls, C.Q., Wiggins, C.L. Rayburn, W.F., Waxman, A.G., Stephens, N.D., Cole, L.W., Swanson, M., and Key, C.R. (2003); Ethnic Differences at Risk for Gestational Trophoblastic Disease in New Mexico: A 25-Year Population-Based Study. *American Journal of Obstetrics and Gynecology*, 188, pp. 357-366.

Boyer, Charles

C. P. Boyer, K. Galicki and M. Nakamaye. "Sasakian Geometry, Homotopy Spheres, and Positive Ricci Curvature," *Topology* 42 (2003), pp. 981-1002; C.P. Boyer, K. Galicki and M. Nakamaye. "On the Sasakian-Einstein Geometry of 5-Manifolds," *Mathematische Annalen* 325 (2003), 485-524; C. P. Boyer, K. Galicki and M. Nakamaye. "On Positive Sasakian Manifolds," *Geometriae Dedicata* 101 (2003), pp. 93-102;C. P. Boyer and K. Galicki. New Einstein Metrics on 8# (S2xS3), *Differential Geometry and Its Applications* 19 (2003), pp. 245-251.

Buium, Alexandru

With K. Zimmerman. "Homogeneous p-differential polynomials," *J. Algebra*, 269 (2003), pp. 492-507; "Differential modular forms on Shimura curves," *Composition Math.* 139 (2003), pp. 197-237.

Christensen, Ronald

Comment on "Could Fisher, Jeffreys, and Neyman Have Agreed About Testing?" *Statistical Science*, 18, pp. 12-13; "Significantly Insignificant F Tests." *The American Statistician*, 57, pp. 27-32.

Coutsias, Evangelos

D. Sheltraw and E.A. Coutsias, "Invertibility of Current Density from Near-Field Electromagnetic Data," *J. Applied Phys*, v94, n8, pp. 5307-5315.

Efromovich, Sam

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Institute for Medieval Studies

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Annual Report July 1, 2003 to June 30, 2004

Submitted by Timothy C. Graham, Director, Institute for Medieval Studies

Developments in 2003-2004

The Institute for Medieval Studies offered three public programs during the year. As in previous years, each of these events attracted distinguished visiting speakers to the UNM campus and each drew excellent attendance.

The Institute's annual Outreach Seminar for Secondary School Teachers took place on Friday. October 10, 2003. The theme on this occasion was "Chaucer in Context: Society, Politics, and Gender." The presenters were Henry Ansgar Kelly, Professor of English and former Director of the Center for Medieval and Renaissance Studies at the University of California, Los Angeles; John M. Bowers, Professor of English at the University of Nevada, Las Vegas; and Anita Obermeier, Assistant Professor of English at UNM, Professor Obermeier was also the academic coordinator of the event. The seminar was attended by thirty-five teachers from Albuquerque. Los Alamos, Roswell, and Santa Fe. During the day, the presenters outlined the richly varied historical and social context within which Geoffrey Chaucer worked and demonstrated how an appreciation of this context greatly enhances understanding of his writings. Professor Kelly's lecture on "Chaucer and Non-Christian Foreigners" highlighted the presence of both converted and unconverted Jews and Muslims in Chaucer's England and examined the impact of Chaucer's experience of cultural diversity on his Canterbury Tales, in particular The Prioress's Tale, The Man of Law's Tale, and The Knight's Tale. Professor Bowers' presentation on "Three Readings of The Knight's Tale: Clanvowe, Chaucer, and James I of Scotland" demonstrated how changing political and social circumstances of the late fourteenth and fifteenth centuries produced a significant evolution in the content of the story of Palamon and Arcite, which underwent a variety of transformations before becoming enshrined in Chaucer's The Knight's Tale, Professor Obermeier offered a lecture on "Chaucer's Nuns, Wives, and Virgins" in which she explored the extent to which Chaucer's fictional women in their limited roles of celibate religious, married women, and nubile virgins corresponded to fourteenth-century societal reality. The seminar ended with a workshop in which the three presenters discussed with teachers how the materials presented during the day could be successfully integrated into classroom presentations in the secondary school context.

The Institute's Week-End Seminar on Medieval Science and Medicine took place on the evening of Friday, February 6 and all day on Saturday, February 7, 2004. The theme on this occasion, "Herbs in Medicine and History: From the Middle Ages to New Mexico," proved to be especially popular, with total attendance at the four sessions of the event topping nine hundred. The aim of the seminar was to bring together experts on the history of medicine, faculty from UNM's Health Sciences Center, curanderos and practicing herbalists, and others to consider the medical and

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cultural importance of herbal medicine, in particular in the traditional and contemporary culture of New Mexico. The seminar included five lectures: John Riddle (North Carolina State University), "Herbs in Medicine and History"; Walton O. Schalick (Washington University, St. Louis), "How Does My Garden Grow? Gardens, Medicine, and Pharmacology in the Middle Ages"; Linda E. Voigts (University of Missouri, Kansas City), "'Dwale . . . to make a man to sleep while men carve him': A Surgical Anesthetic from Late Medieval England"; Arturo Ornelas (Universidad de Morelos, Cuernavaca, Mexico), "Contemporary *Curanderismo* in Mexico and Its Medieval Roots"; and Alyssa Wostrel, "Modern Homeopathy: Medicine of the Millennium." Each lecture ended with a lively question and answer session. David A. Bennahum of UNM's Department of Internal Medicine chaired a closing panel discussion on "Herbs and Medicine, Then and Now."

The 2004 Medieval Spring Lecture Series was on "Medieval Russia" and took place from Monday, March 29 through Thursday, April 1. The series aimed to highlight the richness and complexity that characterized Russia's early development by offering presentations focused on history, archaeology, religion, art, and architecture. The series included seven lectures: Robert O. Crummey (University of California, Davis), "The Origins of Medieval Russia"; Eve Levin (University of Kansas), "Men's Religion/Women's Religion: The Christianization of Medieval Russia"; Evgenij Nosov (Institute for the History of Material Culture, Russian Academy of Sciences, St. Petersburg), "The Formation of Ancient Russia: Geographical Background, Trade Routes, and First Towns"; Vladimir Morosan (Musica Russica), "Exploring the Exotic World of Medieval Russian Music: The Znamenny, the Strochny, and the Demestvenny"; Scott Ruby (Courtauld Institute, University of London), "Reawakening to a Spiritual Past: The Holy Icons of Medieval Russia"; Robert G. Ousterhout (University of Illinois), "Kiev and the Origins of Russian Architecture"; and Robert O. Crummey, "The Emergence of Muscovite Russia." About 1,800 people attended the lecture series, which was felt to have been especially successful in offering a closely complementary set of presentations that brought to life Russia's unique medieval experience.

During 2003–04, the Institute continued to offer a peer-mentoring program for Albuquerque secondary schools. The Institute's Outreach Fellow for the year was Shannon McCabe, a Ph.D. student in the English Department, who co-ordinated the two aspects of the program; peermentoring in the secondary school classroom and on-campus peer-mentoring. During the Fall semester, Ms. McCabe and Christopher Hallada, a Master's student in the English Department, taught the module "Damnation Medieval and Modern: Dante's Inferno and Sartre's No Exit" at Manzano High School over a period of six days, ending with a classroom staging of No Exit, Ms. McCabe, Mr. Hallada, and Sarah Baechle, an undergraduate senior, also offered classroom presentations at Albuquerque Academy on "English: Older Than You Ever Knew," "Arthur through the Ages," and "The Medieval Roots of J. R. R. Tolkien's The Lord of the Rings." During the Spring semester, Mr. Hallada, Ms. Baechle, and Meghan Holmes, an undergraduate senior, worked with six classes at Taft Middle School, teaching the module "Arthur through the Ages" over two days. Also during the Spring semester, three secondary school students-two from Manzano High School, one from Sandia Preparatory School-participated in the on-campus peer-mentoring program and worked with their mentors to write papers on the medievalism of T. S. Eliot and J. R. R. Tolkien and on Thomas Aquinas's interpretation of Aristotle's political philosophy.

In November 2003, the Institute published vol. 13, no. 2 of the *AVISTA Forum Journal*. This was the first issue of the journal to appear following the appointment of Anne Van Arsdall, Research Associate of the Institute, as its editor. The journal is the annual publication of the Association Villard de Honnecourt for Interdisciplinary Study of Medieval Science, Technology, and Art; it includes articles by distinguished scholars as well as book reviews and reports on conference papers. Vol. 13, no. 2 included articles by Thomas Brunton (University of Buffalo) on "The Social Organization of Labor: Early Medieval Iron Mining and Production" and by Maria Amalia D'Aronco (University of Udine, Italy) on "The Old English Pharmacopoeia."

In February 2004, the Institute, together with the Medieval Studies Student Association and the newly-formed UNM Hobbit Society, sponsored a lecture offered by noted Tolkien expert Thomas A. Shippey on "What Tolkien Would Have Said to Mr. Jackson." Professor Shippey, who attended the same English public school as Tolkien and at one point in his career held a University of Leeds professorship previously held by Tolkien, discussed how successfully Peter Jackson's movie cycle had captured the spirit of Tolkien's *The Lord of the Rings* and what Tolkien might have made of some of the more innovative aspects of the movie scripts. The lecture, held in the Honors College, attracted a standing-room-only audience of about one hundred and fifty.

Plans for 2004-2005

The 2004 Outreach Seminar for Secondary School Teachers is scheduled for October 29 and will be titled "Of Heroes and Hobbits: *Beowulf* in the Works of J. R. R. Tolkien." The theme was chosen in response to teachers' requests at the 2003 seminar; the topic is especially timely in view of the recent completion of the movie cycle of *The Lord of the Rings*. The specific focus of the seminar will be the exploration of the medieval roots in Tolkien's fictional writings and, in particular, the ways in which Tolkien's work as an Oxford professor of Anglo-Saxon impacted upon his fiction. The presenters will be Jane Chance, Professor of English at Rice University and one of North America's leading Tolkien experts; Michael D. C. Drout, Associate Professor of English at Wheaton College, Massachusetts, and the discoverer of Tolkien's previously unknown translation of *Beowulf*; and Leslie Donovan, Associate Professor in the UNM Honors Program, whose publications have included articles on both *Beowulf* and Tolkien. Professor Donovan will serve as the academic coordinator of the seminar.

The theme of the 2005 Spring Lecture Series, scheduled for March 28–31, will be "Medieval Journeys: Pilgrims, Crusaders, and Explorers." The series will include six lectures: Mary B. Campbell (Brandeis University), "The Larger and Larger World: How an Expanding Environment Changed the Writers and Readers of Europe" and "Asia, Africa, Abyssinia: Writing the Land of Prester John"; George D. Greenia (College of William and Mary), "Pilgrims at Prayer: The Search for Medieval Spirituality" and "Preying on Pilgrims: Criminals among the Holy"; Thomas F. Madden (St. Louis University), "Medieval and Modern Perspectives on the Crusader Conquest of Constantinople in 1204"; and Derek Pearsall (University of York and Harvard University), "Chaucer's Pilgrims."

Personnel

The Institute's Program Coordinator, Sara Mota, left in June 2004 to take up a position as a graphic designer in Leysin, Switzerland, where her husband had been offered a job in special education. The Institute expects to hire a new Program Coordinator early in Fall 2004. During the 2003-2004 academic year, UNM's Department of Art and Art History conducted a search for an Assistant Professor of Art History with expertise in the Mediterranean World, 1000-1600. The Department Chair, Martin Facey, invited Timothy C. Graham to chair the search committee, and all candidates invited to campus met with medieval faculty and students in the course of their twoday interviews. The candidate selected was Dr. Justine M. Andrews, who received her Ph.D. in 2002 from the University of California, Los Angeles, and whose research focuses on Byzantine art in the post-Crusade period. Dr. Andrews will join the Steering Committee of the Institute on taking up her appointment in August 2004. The Institute's other core faculty, who participate in the planning of all Institute events, are drawn from four different departments: Anthony J. Cárdenas is Professor in the Department of Spanish and Portuguese; Helen Damico is Professor in the Department of English Language and Literature; Leslie A. Donovan is Associate Professor in the University Honors Program; Anita Obermeier is Assistant Professor in the Department of English Language and Literature; and Jay Rubenstein is Assistant Professor in the Department of History. At the end of the year, Anita Obermeier was awarded tenure and promoted to the rank of Associate Professor.

Publications, Conference Presentations, and Other Professional Activities

The Institute sponsored three sessions at academic conferences during 2003–2004. For the Twenty-Ninth Annual Meeting of the South-Central Society for Eighteenth-Century Studies, held in Santa Fe on February 26-29, 2004, the Institute offered a session on "Anglo-Saxon Studies in Oxford at the turn of the Eighteenth Century." The session included three papers: Timothy C. Graham, "The Oxford Saxonists"; Karmen Lenz (a Ph.D. student in UNM's Department of English), "Christopher Rawlinson's Edition of King Alfred's Meters of Boethius"; and Shannon McCabe (also a Ph.D. student in the Department of English), "George Hickes and His Thesaurus." The session was chaired by Anne Van Arsdall, Research Associate of the Institute. At the Thirty-Ninth International Congress on Medieval Studies, held on the campus of Western Michigan University, May 6-9, 2004, the Institute offered sessions on "Historical Understanding in the Middle Ages" (organized by Jay Rubenstein) and "Anglo-Saxon Studies in the Nineteenth and Early Twentieth Centuries" (organized by Anne Van Arsdall). Prof. Rubenstein's session included papers by Sally N. Vaughn (University of Houston), "The Wider World of Orderic Vitalis": Clementine Oliver (California Institute of Technology), "When Documents Become Historical Narrative: The Unsolved Case of the Anonymous Account of the Good Parliament": and Edna Ruth Yahill (University of California, Los Angeles), "Dueling Histories: The Carrouges/Le Gris Affair in the Parliament Registers and in Medieval Chronicles." The session on Anglo-Saxon Studies also included three papers: Dabney A. Bankert (James Madison University), "Joseph Bosworth's Edition of the Old English Orosius"; Michael K. C. McMahon (University of Glasgow). "A MS Dictionary of My Own, Begun Many Years Ago, When I Had Scarcely

Emerged from Boyhood': The Development of Henry Sweet's Concept of a Dictionary of Old English"; and Anne Van Arsdall, "The Enigmatic Oswald Cockayne: *Leechdoms* Editor and Philologist." At the same Congress, Kim Klimek, a Ph.D. student in UNM's History Department and the Institute's first Graduate Student Prize Winner, delivered her winning paper on "Abelard: Signification and Intentionality."

Anthony J. Cárdenas published his article "Alfonso X, el Sabio, King of Castile and León" in Medieval Iberia; An Encyclopedia, edited by E. Michael Gerli (New York: Routledge, 2003). In April 2004 he delivered an invited lecture on "Humor in Cervantes' Don Ouijote" at the Cervantes Symposium held at the Cervantes Institute in Albuquerque. He delivered four conference papers during the year: "Writing Women: Leonor López de Córdoba and Teresa de Cartagena" at the Eighty-Fifth Annual Meeting of the American Association of Teachers of Spanish and Portuguese, held in Chicago, August 2-4, 2003; "Celestina, Cañizares, Consuelo, and Última: Surveying Sorcery" at the Thirteenth Annual Medieval, Renaissance, and Baroque Interdisciplinary Symposium, held at Miami University, Coral Gables, FL, February 19-21, 2004; "Text and Image in La vida y historia del rey Apolonio" at the Fifty-Seventh Kentucky Foreign Language Conference held at the University of Kentucky, Lexington, KY, April 16-18, 2004; and "Editing and Translating Teresa de Cartagena: Whatever Did She Mean?" at the Thirty-Ninth International Congress on Medieval Studies held at Western Michigan University, Kalamazoo, MI, May 6-9, 2004. He received two grants from UNM's Research Allocation Committee. During the last two weeks of May, he and Professor Enrique Lamadrid of UNM's Department of Spanish and Portuguese led a group of twenty-five students along the medieval pilgrim route from Roncesvalles (the site of the famous battle recorded in The Song of Roland) to Santiago de Compostela in north-west Spain.

Helen Damico was a principal speaker at the major conference on "Text and Image in Medieval Europe" held at the University of Minnesota, Minneapolis, in March 2004; her paper was titled "Poetic Image and Historical Text." She chaired a session on "Beowulf" at the Eleventh Conference of the International Society of Anglo-Saxonists, held in Tempe, Arizona, in August 2003. At the Thirty-Ninth International Congress on Medieval Studies, held in Kalamazoo, Michigan, in May 2004, she presided at a session on "Theorizing the Visual: Image and Object in the Early Middle Ages." Professor Damico was co-organizer of the conference on "Literature and the University" held in Zimmerman Library in April 2004, to mark the retirement of Professor Hugh Witemeyer of UNM's Department of English. During the year, she was appointed to serve on the Executive Board of the Consortium for Teaching the Middle Ages, a subsidiary of the Medieval Academy of America.

Timothy C. Graham published comprehensive descriptions of three Anglo-Saxon manuscripts—Corpus Christi College, Cambridge, MSS 57, 191, and 422—in volume 11 of *Anglo-Saxon Manuscripts in Microfiche Facsimile*. This publication seeks to make available to scholars full microfiche copies of all manuscripts produced in Anglo-Saxon England, accompanied by detailed descriptions of the manuscripts. Professor Graham's descriptions drew upon work that he conducted in his former position as a researcher at Corpus Christi College, Cambridge, which has one of the world's finest collections of medieval manuscripts. The three manuscripts about which he wrote include a late tenth-century copy of the *Rule of St. Benedict* and other monastic

texts; a late eleventh-century copy of the *Rule for Canons* by Chrodegang of Metz; and a composite manuscript that combines a tenth-century copy of the Old English *Dialogues of Solomon and Saturn* with an eleventh-century liturgical manual for priests. In May 2004, Professor Graham and his co-author, Raymond Clemens of Illinois State University, submitted to Cornell University Press the manuscript of their book, *Introduction to Manuscript Studies*; the book is the fruit of courses taught by Professor Graham at the Newberry Library, Chicago, which has one of North America's most extensive collections of medieval manuscripts.

In his capacity as Director of the Institute, Professor Graham attended the annual meeting of the Committee on Centers and Regional Associations of the Medieval Academy of America (CARA), held at the University of Toronto, September 25–27, 2003. Professor Graham serves on the Executive Committee of CARA. At the Thirty-Ninth International Congress on Medieval Studies, in addition to chairing the Institute-sponsored session on "Anglo-Saxon Studies in the Nineteenth and Early Twentieth Centuries," Professor Graham participated in the annual meeting of the International Advisory Board of the Richard Rawlinson Center for Anglo-Saxon Studies and Manuscript Research. In November 2003, Professor Graham spoke on "Medieval Manuscript Production" at Albuquerque Academy; in February 2004, he delivered his paper on "The Oxford Saxonists" at the annual meeting of the South-Central Society for Eighteenth-Century Studies.

Anita Obermeier published reviews of Allen J. Frantzen's The Bloody Good: Chivalry, Sacrifice, and the Great War (Chicago: University of Chicago Press, 2004) and Robert G. Benson and Susan J. Ridyard (eds.), New Readings of Chaucer's Poetry (Cambridge: D. S. Brewer, 2004) in The Medieval Review, the on-line publication that is now the premier venue for reviews of books within the field of medieval studies. She was co-organizer of the Institute's 2003 Outreach Seminar on "Chaucer in Context: Society, Politics, and Gender" and offered a presentation on "Chaucer's Nuns, Wives, and Virgins" for the seminar. During the year she offered several presentations: "Transgressing with Pen and Sword: Medieval Warrior Women" for the "Warrior Women" course held at UNM in October 2003; "Medieval Medicine" for the Albuquerque Academy Medieval Day in November 2003; "Of Monarchies and Movies: Fertility and Sterility in Braveheart and The Mists of Avalon" for the UNM Feminist Research Institute in February 2004; "The Medieval Christian World View" for the Integrating Seminar of the College of Santa Fe. April 2004; and "Medievalist: A Career Path?" at Roosevelt Middle School in May 2004. With Jay Rubenstein, she directed a workshop on "Curriculum Vitae Writing" for UNM's Medieval Studies Student Association in April 2004. She chaired a session on "Middle English Fabliaux" at the Thirty-Ninth International Congress on Medieval Studies held in Kalamazoo, Michigan, in May 2004.

Jay Rubenstein published a review of Tomaž Mastnak, *Crusading Peace: Christendom, the Muslim World, and Western Political Order* (Berkeley: University of California Press, 2002) in *Speculum*, vol. 79 (2004), pp. 244-6. He organized and chaired the Institute's session on "Historical Understanding in the Middle Ages" at the Thirty-Ninth International Congress on Medieval Studies held at Kalamazoo, Michigan, in May 2004. He delivered a presentation on "Putting History to Use: Three Crusade Chronicles in Context" at the November 2003 meeting of the California Medieval History Seminar, held in Pasadena. His paper on "Conceptualizing Conquest" formed part of the panel on "Contemporary Interpretations of the First Crusade" at the April 2004 meeting of the Medieval Academy of America, held in Seattle, Washington. Also in April, he delivered invited talks on "The Black Death" at the University of Southern California and on "Contemporary Interpretations of the First Crusade" at Portland State University, Oregon. During the year he received a grant of \$3,500 from UNM's Research Allocation Committee to conduct research on "The First Crusade As Seen Through Manuscripts."

Department of Philosophy Annual Report for 2003-4 Submitted by Russell B. Goodman, Chairperson

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1. Significant developments during the academic year 2003-4 Our enrollments continued to set records, and we have had a strong year in research, as John Taber, Iain Thomson, and Russell Goodman had books accepted with major presses, and Andrew Burgess and Iain Thomson published a substantial number of papers. Several of our Ph. D. graduate students had papers accepted at national conferences. Richard Hayes and John Taber, in consultation with Dean Dasenbrock, have reorganized the Summer Seminar on the Sutras that the department conducts in Jemez Springs.

As usual, the department hosted a series of visiting speakers, with the highlight being our annual Brian O'Neil Lectures in the History of Philosophy, which were given this year by Beatrice Longuenesse of New York University. The complete list of speakers is as follows:

Lloyd Gerson, University of Toronto—"The Platonism of Aristotle", 9/18 Asli Gocer, University of Toronto—"What Should We Look At?" 9/19 Evan Tiffany, Simon Fraser University, "What is Normativity?", 10/31 William Richardson, Boston College—"The Zollikoner Seminars: Heidegger's Introduction to Heidegger"

Steve Crowell, Rice University—"Undergoing: Phenomenology, Value-Theory, and Nihilism," 11/21

Hayden Ausland, University of Montana—"Socrates' Comparision of Justice with the Arts in Plato, *Republic* I," 11/24

Paul Hurley, Pomona College—"Does Consequentialism Make Too Many Demands, or None at All?" 2/6

Joseph Schoepp, University of Hamburg—"The Powers and Duties of the Scholar or Writer: Emerson's Self-Construction in the Light of Goethe," 2/18 Brandan Gillon, McGill University, "Semantic Theory and Analyticity," 2/27 Fred Schueler, UNM, "All Your Moral Convictions are Correct," 3/5 Newton Garver, SUNY Buffalo, "Three Kinds of Politics", 3/11 William Blattner, Georgetown University, "Heidegger, Dewey, and the Primacy of Practice," 3/26

Paul Franks, University of Notre Dame, "Jacobi and the Most Uncanny of Guests: Reflections on his Conception of Nihilism," 4/1
Beatrice Longuenesse, New York University, "Self-Consciousness and Consciousness of One's Own Body: Variations on a Kantian Theme," 4/14, 4/15
Jay Garfield, Smith College, "Logic, Doxography, and Knowing Ultimate Reality: Tsong Khapa's Reading of Candrakirti," 4/19
Barbara Hannan, UNM, "Mood Disorders, Responsibility, and the Insanity Defense," 4/23
Ted Cohen, University of Chicago, If I Were Someone Else, 4/28
John Casti, Santa Fe Institute, "Limits to Scientific Knowledge," 4/30

Plans and Recommendations

We have been authorized to search for an assistant professor, and are looking in history of philosophy before Kant, as well as other areas. Our supply budget remains in serious deficit, and we have been supplementing it with funds from our endowment. If this situation is not corrected we will face a choice between funding our Barrett Dissertation Fellowship and supporting the standard operating expenses of the department, including travel. The chair is endeavoring to reestablish support for the Barrett Fellowship from the Office of Graduate Studies and the College of Arts and Sciences.

2. Appointments to faculty/staff

None.

3. Separations from faculty/staff

None.

4. Publications of faculty

•Kelly Becker, "Knowing and Possessing Knowledge," American Philosophical Quarterly 41:1, January, 2004

• Andrew Burgess, "Between Reflection and the Upbuilding: A Pattern in Kierkegaard's Discourses," *Immediacy and Reflection in Kierkegaard's Thought*, Louvain Philosophical Studies 17, ed. Paul Cruysberghs et al. Leuven University Press, 97-105

"The Bilateral Symmetry of Kierkegaard's Postscript, Kierkegaard: Critical Assessements of Leading Philosophers, ed. Daniel Conway. Routledge "Caricatures and the Comic in the Early Journals," Kierkegaard Studies Year Book 2003, ed. Niels Jorgen Cappelorn et al. Walter de Gruyter, 125-42 "Kierkegaard and the Classical Oratorical Tradition," Soren Kierkegaard and the Word(s): Essays on Hermeneutics and Communication, Poul Houe and Gordon Marino, ed. C. A. Reitzel, 228-39

"Kierkegaard's Discourses on 'Every...Perfect Gift' as Love Letters to Regine," Eighteen Upbuilding Discourses, International Kierkegaard Commentary, v. 5, ed. Robert Perkins. Mercer University Press, 15-30

"Religious Argument as Enthymeme: Aristotle, Paul, and Anselm," *Proceedings* of the Fifth Conference of the International Society for the Study of Argumentation," ed. Rans van Eemeren et al. Sic Sat, 145-49.

•John Bussanich, "Review of Brahman: A Comparative Theology," by Michael Myers (Curzon 2001). Religious Studies Review 29, 172

• Russell Goodman, "Transcendentalism," Stanford Encyclopedia of Philosophy, ed. Edward Zalta (<u>http://plato.stanford.edu</u>).

Review of The Unity of William James's Thought, Wesley Cooper (Vanderbilt), Philosophy in Review/Comptes Rendus Philosophiques, 327-29

•Richard Hayes, "Classical Buddhist Model of a Healthy Mind," *Psychology and Buddhism From Individual to Global Community*, Kathleen H. Dockett et al., eds, Kluwer.

"Language, Buddhist philosophy of," *Encyclopedia of Buddhism*, Robert E. Buswell, ed. Macmillan Library Reference.

•John Taber, "Dharmakirti Against Physicalism," Journal of Indian Philosophy 31, 479-502

• Iain Thomson, "Understanding Ontotheology as the Basis for Heidegger's Critique of Technology," *Proceedings for the University of Tokyo Center for*

Philosophy: International Symposium on Pragmatism and Philosophy of Technology in the 21st Century, 2:2, 82-103

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"Heidegger and the Politics of the University," Journal of the History of Philosophy, 41:4, 515-42

The Philosophical Fugue: Understanding the Structure and Goal of Heidgger's Beiträge," *Journal of the British Society for Phenomenology*, 34:1, 57-73.

"From the Question Concerning Technology to the Quest for a Democratic Technology: Heidegger, Marcuse, Feenberg, *Futures of Critical Theory: Dreams of Difference*, Michael A. Peters et al, eds. Roman & Littlefield, 59-72.

5. Outside Sponsored Research

None in this period.

DEPARTMENT OF PHYSICS AND ASTRONOMY July 1, 2003 to June 30, 2004

Professor Bernd Bassalleck, Chair

Significant Developments

During the 03/04 academic year four of our Associate Professors were considered for promotion to Full Professor: Prof. Dave Dunlap, Prof. Michael Gold, Prof. Sally Seidel, and Prof. Mansoor Sheik-Bahae. Each case was successful and their promotions became effective in August 2004. In addition, Prof. Douglas Fields' mid-probationary review process ended with a very positive result and a second three-year appointment.

Reorganization and better functioning of the departmental office staff has remained a very high priority and a challenge at the same time. The last official Department Administrator left in spring 2001. She was finally replaced in August 2003 by Beth Walker, who came to UNM from Case Western Reserve University in Cleveland. Her hire has proved to be one of THE best decisions this department has made in some time! Thanks to her talents, drive, and effectiveness we have made very good progress in increased operational efficiency of our entire office staff, a major improvement over the last few years.

As mentioned in last year's annual report, unmet start-up fund commitments over many years had resulted in a significant departmental debt. We are happy to report that as of July 1, 2004, this department is out of debt! This was helped considerably by the office of the VP for Research (matching our debt repayments for several years) and by the fact that our overhead return has remained strong. For CY01/02/03 the departmental overhead allocations were \$159k/190k/192.5k (with the last two numbers representing averages for those two years, correcting a mistake in the allocation made in summer 2003). These numbers signify the strong and continually improving research vitality of this department. Not having to contribute to debt reduction anymore next year will allow us to invest more in the future of the department, such as start-up costs for new faculty. The remaining problem of the debt of our Institute for Astrophysics (IfA), accumulated while reporting to the previous Dean, will now be tackled in collaboration with the Dean and the VP for Research.

The new wing of our building, mentioned in last year's report, was completed in fall 2003. This approximately 5000 sq ft wing contains office space for faculty, research staff, and graduate students. It is a replacement for our various trailers and was financed by the UNM Hospital/Health Sciences Center, which needs the space formerly occupied by our trailers for the pending expansion of the UNM Hospital (Children's Hospital and Critical Care Pavilion). Some other noteworthy developments related to our buildings include remodeling a room for our undergraduate majors, new furniture for several meeting/seminar rooms, and various multimedia improvements to classrooms in Regener Hall. In addition, we now have a dedicated room for servers, and, perhaps

most importantly, our entire building was equipped with wireless network access.

Future Plans

Chaired by Prof. Carl Caves our Long Range Planning committee (consisting of nine faculty members) has made great progress towards completion of this plan, with adoption now foreseen for fall 2004. This plan is the most serious and most comprehensive such Long Range Plan that this department has ever undertaken. It is both a critical self-assessment document and a planning document for the next 5-10 years, including a faculty hiring plan. In addition, it is very much meant to be a living (and governing) document in the sense that the Chair and his/her Advisory Committee will be tasked with implementing this plan as well as reviewing and updating it regularly. Concensus on top future faculty hirings was achieved, a proposal was submitted to and accepted by the Dean, as a result of which a new search for an Assistant Professor in Experimental Quantum Information/Quantum Optics was started in summer 2004.

New Appointments

No new faculty member was hired this year. Gary Harrison was hired as General Services Assistant in October 2003. A machinist position (vacant since late 2003 when Pablo Navrot left the department) was converted to a Webmaster and Database Developer (much more important for our department than the additional machinist position), and a search was initiated in spring/summer 2004.

Separations/Retirements

Three regular faculty members retired during the summer of 2004: Profs. Colston Chandler, John Panitz, and Michael Zeilik. Machinist Pablo Navrot left in November 2003.

Graduation Statistics

Between the summer semester 03 and the spring semester 04 the department graduated 2 BS in Physics, 2 BS in Astrophysics (both women), 4 BA in Physics & Astrophysics (one of them a woman), 3 MS in Physics, 4 MS in Optical Sciences & Engineering (one woman among them), 5 PhD in Physics (1 woman), and 6 PhD in Optical Sciences & Engineering. This represents a healthy graduation rate for this department.

Outside Sponsored Research and Publications

As indicated earlier, research efforts in the department remain strong and vibrant. For FY04 funding for new and existing/continuation grants in the department (including Institutes and Centers housed in the department, such as the CAS - the Center for Advanced Studies, the Institute for Astrophysics, the NM Center for Particle Physics, and the Consortium of the Americas for Interdisciplinary Science) amounted to \$6.362 million. For FY03 the corresponding amount was \$5.714 million, i.e. an 11.3% increase

from FY03 to FY04.

Publications in refereed journals, as well as conference contributions and proceedings, invited talks, etc. by faculty members of this department are too numerous to list here - suffice it to say that well over one hundred papers were published in refereed journals alone.

Awards and Special Grants or Contracts

In early summer 2004 Prof. Nitant Kenkre was named UNM's 50th Annual Research Lecturer. His official term as Annual Research Lecturer will be during CY05. Prof. Rob Duncan (also the Associate Dean for Research in A&S) was selected as Moore Scholar at Caltech, where he will be spending his sabbatical during the academic year 04/05. Our Astronomy graduate student Buckner Creel was elected President of the UNM Graduate and Professional Student Association (GPSA) for 04/05. Prof. Ivan Deutsch remains a Regents' Lecturer until 2006. Prof. Jean-Claude Diels received two US patents during the year. Led by Prof. Mansoor Sheik-Bahae, UNM's "Consortium for Laser Cooling in Solids" received an approx. \$3.4 million (over 5 years) grant from the Department of Defense as part of their Multidisciplinary University Research Initiative (MURI) program.

ANNUAL REPORT of the DEPARTMENT OF POLITICAL SCIENCE July 1, 2003 through June 30, 2004 Kenneth M. Roberts, Chair

SIGNIFICANT DEVELOPMENTS

I.

A, UNDERGRADUATE PROGRAM

The department graduated 88 majors including six students who received departmental honors: Sarah Hunt, Maureen Shaw and John Sugg were awarded *Summa Cum Laude* honors, Justin Flam and Matthew Ray were awarded *Magna Cum Laude* honors, and Sean Romero was awarded *Cum Laude* honors. The annual commencement ceremony was hosted in the Kiva Lecture Hall and attended by over 250 students and their guests. New Mexico State Senator Cisco McSorley was the commencement speaker.

Senior John Sugg presented his Senior Thesis research paper at the Southwest Political Science Association Annual Conference and was awarded the Association's *Best Undergraduate Paper Prize*. His paper also received the *Christopher A. McGee Award* from the UNM Department of Sociology.

The department added International Politics as a new concentration in our undergraduate curriculum and now offers concentrations in three fields – Pre-Law, Public Policy and International Politics. Pre-Law Advisor, Dr. Ellen Grigsby, worked with the College of Arts and Sciences to expand and enhance pre-law advisement services at UNM.

B. GRADUATE PROGRAM

The department awarded a Ph.D. degree to Mary Jean Bellman and M.A. degrees to Matthew Brix, D. Xavier Medina, Erik Peterson and Olivia Stockman.

Awards: Francois Gelineau, who received his Ph.D. in Fall 2002, was awarded UNM's Tom L. Popejoy Dissertation Prize for 2004. This year, Nancy Carrillo, Jeff Drope, Doug Hecock and Christina Schatzman conducted field research under their National Science Foundation dissertation grant awards. Eric Jepsen and Doug Hecock conducted field research under grants awarded by the Social Science Research Council. Eric Jepsen's field research this year was also supported by a Fulbright fellowship.

In competitive awards offered by the UNM Latin American and Iberian Institute Eric Jepsen, Roberta Rice and Christina Schatzman were recipients of Ph.D. Fellowships and Kim Nolan received a Title VI Foreign Language and Area Studies Fellowship. Douglas Hecock received the Graduate Dean's Dissertation Fellowship award and D. Xavier Medina was awarded a Graduate Fellowship.

Presentations: Several students presented research papers at professional conferences this year. Jeff Drope, Tali Gluch, Eric Jepsen and Christina Schatzman made presentations at the Annual Meeting of the American Political Science Association. Nancy Carrillo and Jeff Drope presented papers at the Midwest Political Science Association Annual Conference. Nancy Carrillo and Eric Jepsen made presentations at the Western Political Science Association Annual Conference.

Eleven new students were admitted to our graduate program for the 2004-2005 academic year. The department currently has 10 M.A. students and 21 Ph.D. students enrolled.

C. INSTITUTE FOR PUBLIC POLICY

The Institute conducted public opinion surveys and other research in key public policy areas this year, including national security and terrorism, water, health and family welfare, with funding from Sandia National Laboratories, the Texas A&M Research Foundation, the Middle Rio Grande Council of Governments, the New Mexico Health Policy Commission, the New Mexico Commission for Deaf and Hard of Hearing, New Mexico Advocates for Children and Family, the New Mexico Developmental Disabilities Council and others. Institute Director and Political Science Research Professor Roger L. Hagengruber served as director of UNM's Office for Policy, Security and Technology at UNM. The office was established last year by charter agreement between the University of New Mexico and Sandia National Laboratories to identify and explore opportunities to collaborate on national issues that may require multidisciplinary approaches in areas where public policy and technology meet.

D. SPEAKERS

The following faculty and graduate students gave presentations in the department's colloquium speaker series: Chris Butler, Jeff Drope, Roger Hagengruber and Olivia Stockman. Outside guest speakers included Kwame Dougan from Northwestern University, Herbert Kitschelt from Duke University, Edmundo Urrutia from Associacion de Investigacion y Estudios Sociales (ASIES) in Guatemala, Erik Wibbles from University of Washington, and Elisabeth Wood from New York University. Political Science also sponsored speakers in interdisciplinary colloquia with the department of English and International Programs.

E. INTERNSHIPS

The department and Sandia National Laboratories continued their externship program to assist graduate and advanced undergraduate students interested in international security and technology policy issues to work as part-time Sandia employees. This year, three undergraduate students continued their appointments as externs and worked at Sandia.

In addition to Sandia Laboratories' externship opportunities, 22 undergraduate students were placed as interns in public agencies, political campaigns, offices of elected officials, and voluntary organizations in Political Science 291/491 Internship classes this year. Under the direction of Adjunct Professor Larry Gordon, the students gained practical experience in the application of political science theories while receiving course credit. Twelve other students were placed in internships with the New Mexico State Legislature, working under the close supervision of Professor Gilbert K. St. Clair. The students were unanimous in their praise of the internship as a learning experience and the legislators were impressed by the maturity and professional skills that the interns displayed. The department's Legislative Internship Program began in 1984 and receives support from the College of Arts and Sciences as well as the University. The program provides a unique opportunity for our students to observe the policy-making process and for the University to showcase our students to the Legislature.

F. SCHOLARSHIPS AND FELLOWSHIP AWARDS

The department awarded six undergraduate scholarships and five graduate research fellowships this year.

G. RESEARCH CONTRACTS AND GRANTS

The department received \$994,426 in contracts and grants this year including a Ford Foundation Grant of \$680,000 to Christine Sierra in support of her research on gender and multicultural leadership. For the last five years, our annual average of contracts and grants awarded was \$1,022,427.

H. FACULTY HONORS AND APPOINTMENTS

F. Chris Garcia completed his one-year term as President of the University of New Mexico in August 2003. He received a 2003 New Mexico Distinguished Public Service Award presented by Governor Bill Richardson and the Bernard S. Rodey Award for Educational Leadership from the UNM Alumni Association. William Stanley continued to serve as Interim Director of the Latin American and Iberian Institute for another year. Benjamin Goldfrank and William Stanley were appointed Gallegos Lecturers in Political Science for 2003-2004. William Stanley received a Regents' Lecturer in Arts and Sciences award for the 2004-2007 term. Lonna Alkeson served the last year of her term as Regents' Lecturer and Mark Peecny served the first year of his Regents' Lectureship appointment.

II. SIGNIFICANT PLANS

A. CURRICULUM DEVELOPMENT

During the Fall semester, Wendy Hansen taught a new writing workshop for advanced graduate students writing field papers and dissertations or dissertation proposals. At the undergraduate level, the department taught the first of a new two-course sequence on water politics and policy in the Southwest as well as a new

course on politics and community organization during the Spring semester. At the graduate level, Timothy Krebs taught a new research seminar on urban politics and policy during the Spring semester. After restructuring our methods curriculum, Lonna Atkeson taught a new course in introductory statistics at the M.A. level and Wendy Hansen taught a new course in advanced statistical analysis at the Ph.D. level.

B. RECRUITMENT

Although the department was not authorized to hire for this year, we continue to have faculty vacancies in the American Politics, Public Policy, and Political Theory subfields. We are recruiting for an American Politics and/or Public Policy position for next year, and plan to recruit for our additional vacancies when authorized to do so. The department recruited a Lecturer to teach introductory courses in Political Theory and to serve as Pre-Law Advisor this year.

Using new informational brochures, the department continued its efforts to increase the pool of applicants to the graduate program and successfully recruited 11 new students into the program this year.

III. APPOINTMENTS TO FACULTY/STAFF

Cheryl Simmons, Administrative Assistant I, effective September 20, 2003.

IV. SEPARATIONS OF FACULTY/STAFF

Ellen Grigsby, Lecturer III, effective July 27, 2003. Cheryl Simmons, Administrative Assistant I, effective June 30, 2004.

V. PUBLICATIONS

Lonna Atkeson – "Not all Cues are Created Equal: The Conditional Impact of Female Candidates on Political Engagement," *Journal of Politics* 65 (4): 1040-61 (November 2003).

"The New Mexico First and Second Congressional Districts." In David B. Magleby and J. Quin Monson, eds., *The Last Hurrah? Soft Money and Issue Advocacy in the 2002 Congressional Elections* (Provo, UT: Center for the Study of Elections and Democracy, Brigham Young University, 2003), with Nancy Carrillo and Margaret C. Toulouse. Reprinted in *PS: Political Science and Politics*, E-Symposium (Fall 2003).

"The More Things Change the More They Stay the Same: Examining Gender Differences in Political Attitude Expression, 1952-2000." *Public Opinion Quarterly* 67 (4): 495-521 (2003), with Ronald B. Rapoport.

Christopher Butler – "Endogenizing Conflict Initiation: Flinching and Fighting at Global High Noon." Journal of Peace Research 41 (1): 47-63 (January 2004).

Gregory Gleason – "Uzbekistan." In Alexancer J. Motyl, Arch Puddington and Amanda Schnetzed, eds. Nations in Transit 2003 (Lanham, MD: Rowman and Littlefield 2003), pp. 630-648.

"Russia and the Politics of the Central Asian Electric Grid." *Problems of Post-Communism* 49 (2): 42-52 (2003).

"Democracy and Counterinsurgency in Central Asia." In Donald Kelly, ed., A Decade of Post-Communism: The Fate of Democracy in Eastern Europe and the Soviet Union (Fayetteville, AK: University of Arkansas Press 2003), pp. 161-186.

"Russian Strategy in the Caucasus and Central Asia." In Steven Wegren, ed., Russian Policy Challenges in the 21st Century (M.E. Sharpe Publishers 2003), pp. 58-77.

"The Centrality of Central Asia." Central Eurasian Studies Review 2 (1): 3-6 (2003).

Benjamin Goldfrank – "Making Participation Work in Porto Alegre." In Gianpaolo Baiocchi, ed., Radicals in Power: The Workers' Party and Experiments with Urban Democracy in Brazil (London and New York: Zed Books 2003). "Restraining the Revolution or Deepening Democracy? The Workers' Party in Rio Grande Sul." In Gianpaolo Baiocchi, ed., *Radicals in Power: The Workers' Party and Experiments with Urban Democracy in Brazil* (London and New York: Zed Books 2003), with Aaron Schneider.

Ellen Grigsby – Analyzing Politics: An Introduction to Political Science. Third Edition (Belmont, CA: Thompson/Wadsworth Press 2004).

Wendy Hansen – "Purchasing Protection? The Effect of Political Spending on U.S. Trade Policy." Political Research Quarterly 57:1 (March 2004).

Neil Mitchell – Agents of Atrocity: Leaders, Followers, and the Violation of Civil Rights in Civil War. (Palgrave MacMillan 2004).

"Democracy and Human Rights in the Mexican States: Elections or Social Capital?" International Studies Quarterly 48, 293-312 (2004), with Caroline Beer.

Kenneth Roberts – "Party System Demise and Populist Resurgence in Venezuela." Latin American Politics and Society 45 (3): 35-57 (Fall 2003).

"Latin America's New Social Landscape: Who Will Be the Workers?" In Vincent C. Peloso, ed., Work, Protest, and Identity in Twentieth-Century Latin America (Wilmington, Del: Scholarly Resources 2003).

"Venezuela: Party System Collapse Amidst Market Restructuring." In Carol Wise and Riordan Roett, eds., Post-Stabilization Politics in Latin America: Competition, Transition, Collapse (Washington, D.C.: Brookings Institution Press 2003).

Book Review: The Legacies of Liberalism: Path Dependence and Political Regimes in Central America by James Mahoney. Perspectives on Politics 1 (3) (September 2003).

Christine Sierra - "Hispanic Poverty in New Mexico." *The New Mexico Report*, The UNM Southwest Hispanic Research Institute, Issue No. 2 (Summer 2003).

"We're a Poor State: A Glimpse at Poverty in New Mexico." *The New Mexico Report*, The UNM Southwest Hispanic Research Institute (Academic Year 2003-2004).

Joseph Stewart, Jr. – Book Review: Race and Place: Race Relations in an American City by Susan Welch, Lee Sigelman, Timothy Bledsoe and Michael Combs. Journal of Politics 65 (1): 272-274 (2003).

VI. NOTEWORTHY OUTSIDE PROFESSIONAL ACTIVITIES OF FACULTY Department editorial board memberships

American Politics Research American Review of Politics Central Eurasian Studies Review International Studies Quarterly Journal of Central Asian Studies Journal of Latin American Politics and Society Latin American Research Review National Political Science Review Policy Studies Journal Political Research Quarterly State Politics and Policy Quarterly Served as officers or members of key committees in national or regional professional organizations Lonna Atkeson served as Nomination Committee Chair, Southwestern Political Science Association, and as Member, Charles Redd Paper Committee and Political Parties Program Committee, Western Political Science Association.

F. Chris Garcia served on the Committee on Endowments, American Political Science Association, and as Consultant-Evaluator for the Commission on Institutions of Higher Education, North Central Association of Colleges and Schools, and the Western Association of Schools and Colleges.

Gregory Gleason served as President of the Central Eurasian Studies Society. He was a member of the Executive Committee of the Section on Post-Communist States in International Relations, International Studies Association, and served as Secretary/Treasurer of the Section.

Wendy Hansen served as Chair, Political Economy Dissertation Awards Committee, American Political Science Association Annual Meeting, August 2003.

Timothy Krebs served as Urban Politics Division Chair of the 2003 American Political Science Association Program Committee and as a member of the Executive Council of the Urban Politics Section of the American Political Science Association.

Deborah McFarlane served on the Executive Councils of the Federalism and Intergovernmental Relations Section and the Public Policy Section of the American Political Science Association.

Christine Sierra served as Committee Member, Women's Caucus for Political Science, the American Political Science Association, and Member, Committee on the Status of Chicanos/as in the Profession and Committee on the Status of Women in the Profession, the Western Political Science Association.

Gilbert St. Clair served as Treasurer for the Western Political Science Association.

Joseph Stewart served as Vice-President of the Southwestern Social Science Association and as Chair of the Editorial Policies Committee.

Selected invited presentations by faculty

Gregory Gleason - "Structural Reform in Central Asia." Plenary Session Address, Central Eurasian Studies Society, Harvard University, October 2003.

Fred Harris – Principal Address, Oklahoma Political Science Association Annual Conference, University of Central Oklahoma, November 2003.

Kenneth Roberts – "Party System Transformation in Latin America's Neoliberal Era." University of New Mexico/New Mexico State University Latin American Consortium, Albuquerque, March 2004.

Christine Sierra – "In English, Spanglish, y Espanol: The Politics of Inclusion for Latinas and Latinos in Contemporary America." Public address sponsored by the Center for American Women and Politics and the Eagleton Institute of Politics, Rutgers University, New Brunswick, New Jersey, October 2003, and invited campus lecture, Drew University, Madison, New Jersey, November 2003.

Joseph Stewart -- Guest speaker at the "Jim Wright Symposium," Texas Christian University, October 2003.

Other professional activities off-campus or community and public service

Lonna Atkeson was interviewed on "University of New Mexico Showcase," KUNM radio, in March 2004 during Women's History Month and served as a member of the New Mexico Advisory Commission for the Help America Vote Act.

Christopher Butler served as Guest Editor for a special issue of *Conflict Management and Peace Science* on "Formal Theories of Bargaining in International Relations."

F. Chris Garcia served on the Board of Directors of the National Hispanic Cultural Center in Albuquerque.

Gregory Gleason served as Faculty Associate, Center for Middle Eastern Studies at the University of Chicago, as Governance Specialist for the Asian Development Bank, and as Research Advisor to the Fulbright Senior Specialist Program of the Council for International Exchange of Scholars.

Wendy Hansen served as Grant Referee for the National Science Foundation.

Fred Harris served as member and co-chair of the Board of Trustees of the Milton S. Eisenhower Foundation, Washington, DC. He is State Chair of NM Common Cause, a member of the National Governing Board of Common Cause and a member of the Board of Directors of the Common Cause Education Foundation.

Neil Mitchell served as Comparative Government faculty consultant for The College Board/Advanced Placement.

Mark Peceny made presentations to two junior English classes at Sandia High School on "The Use of Nuclear Weapons Against Japan," to a class of Executive MBA Students on "Spain and the European Union," and to a meeting of the Association of Former Intelligence Officers on "The UNM Intelligence Club."

Kenneth Roberts was President of the Board of Directors of Re-Visioning New Mexico and served as a member of the Carter Center's Election Observation Delegation to Venezuela in November 2003.

Christine Sierra was a guest panelist on "Executive Choice: New Mexico's Presidential Caucus," an *In Focus* broadcast on KNME TV-5 (PBS) in January 2004. She was a Visiting Professor, Fall 2003 and June 2004, at the Center for American Women and Politics, Eagleton Institute of Politics, Rutgers University, and in 2003-2004, served as a consultant to the Eleccion Latina Planning Committee, a national project to increase participation of Latina women in U.S. electoral politics. She served on the Social Sciences and History Examination Committee for The College Board/Educational Testing Service.

William Stanley presented "Crime, insecurity, and human rights in Latin America," at St. Andrew Presbyterian Church, Albuquerque, April 2004.

Joseph Stewart was Chief Faculty Consultant, Advanced Placement Government and Politics Examination, for the Educational Testing Service, and participated in Advanced Placement American Government Teachers' Institutes at Rice University, Texas Christian University, and UNM. He served as a member of The College Board's Advanced Placement College and University Policy Task Force and as a judge for the CLEP American Government Standard Setting, Educational Testing Service.

Served on departmental, college, or university committees or held administrative positions outside the department

Lonna Atkeson served as chair of the department's American Politics/New Mexican Politics Lecturer III Search Committee and on the Executive Committee.

Christopher Butler served as President of the UNM Chapter of Phi Kappa Phi and as temporary Chair of the university's International Affairs Committee.

F. Chris Garcia served as UNM Institutional Representative for The College Board.

Benjamin Goldfrank served as a member of the UNM Latin American and Iberian Institute's Operations Committee. Wendy Hansen served as the department's Graduate Advisor and as a member of the Graduate Committee. She was a member of the College of Arts and Sciences' Promotion and Tenure Committee. 52

Fred Harris chaired the department's Undergraduate Committee.

Timothy Krebs served on the department's Undergraduate Committee and Executive Committee.

Deborah McFarlane served as President of the American Association of University Professors (UNM Chapter) and as Managing Editor of the AAUP Newsletter at UNM. She served as Faculty Advisor for the Phi Beta Kappa Chapter at UNM.

Neil Mitchell served on UNM's European Studies Committee and on the Associate Provost's Distinguished Professor Review Committee. He served as a member of the department's Executive Committee and the IPP Steering Committee.

Mark Peceny served as the department's Library Liaison, as a member of the Graduate and IPP Steering Committees and was Coordinator of the UNM Political Science/Sandia Labs Externship program. He was on the university's Faculty Senate Library Committee, the AAUP Executive Committee, the Academic and Freedom Tenure Committee, the International Studies Institute Board, the University General Honors Program Committee and was the UNM Rhodes Scholarship Program Representative. He served on the Latin American Faculty Concilium Library Committee, the Latin American and Iberian Institute-Anderson Dual Degree Grant Awards Committee and chaired the LAII Operations Committee. He was Faculty Sponsor for the UNM St. Thomas Aquinas Newman Center Student Group and Director of the Center's Morning Choir.

Kenneth Roberts served as Chair of the department and as a member of the Policy Committee for the Latin American and Iberian Institute.

William Stanley served as Interim Director of the UNM Latin American and Iberian Institute and chaired the Grants and Awards Committee for the Institute. He served on the department's Graduate Committee.

Gilbert St. Clair served as the department's Undergraduate Advisor and on the department's Undergraduate Committee.

Joseph Stewart served on the department's IPP Steering Committee.

VII. SPONSORED RESEARCH

Lonna Atkeson, UNM Research Allocations Committee Research Award, \$3,470. Title: Examining Voter Learning, Voter Information and Voter Choice in New Mexico's Democratic Presidential Caucus.

VIII. OUTSIDE-SPONSORED RESEARCH

Kerry Herron/Eric Whitmore, Sandia National Laboratories, \$30,000. Title: Establish a Directed Research Program for the Cooperative Monitoring Center (CMC) at Sandia National Laboratories.

Amy Goodin/Amelia Rouse, Texas A&M Research Foundation, \$48,000. Title: Public Views of Air Quality in Texas: 2003 Follow-on Survey

Amy Goodin/Amelia Rouse, Sandia National Laboratories, \$225,000. Title: Cooperative Monitoring Center (CMC) Visiting Research Scholars Program.

Christine Sierra, Ford Foundation, \$680,000. Title: Gender and Multicultural Leadership: The Future of Governance.

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THE UNIVERSITY OF NEW MEXICO ANNUAL REPORT AY 2003-2004 DEPARTMENT OF PSYCHOLOGY Ronald Yeo, Chair

ANNUAL REPORT

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2003-2004

DEPARTMENT OF PSYCHOLOGY

Ronald Yeo, Ph.D. Professor and Chair

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- Appendix F Graduate Students Accepted for AY 2002-2003 Appendix G Senior Honors Theses

DEPARTMENT OF PSYCHOLOGY

STATEMENT OF MISSION

The Department of Psychology shares with other academic departments at the university its <u>raison d'être</u>: 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.

ANNUAL REPORT - AY 2003-2004 DEPARTMENT OF PSYCHOLOGY

Ronald Yeo, Chair

I. Department Information and Achievements

A. Departmental Administration and Structure

The Department continued with the administrative structure adopted in 1995. Mark McDaniel served the second year of his four-year term as Chair of the Department through May 15, 2004. As of May 15, Ronald Yeo began serving as Chair. Mark McDaniel moved to Washington University on July 1, 2004. The Department's major administrative committee, the Planning and Policy Committee, consisted of the Department chair, the associate chair for graduate education, Steve Gangestad, the associate chair for undergraduate education, Gordon Hodge, and the heads of the Department's five areas of study. These areas and their respective heads were: Clinical (Ronald Yeo), Learning and Cognition (Timothy Goldsmith), Developmental (Steve Gangestad), Quantitative (Harold Delaney), and Behavioral Neuroscience (Claudia Tesche). As of May 15, Michael Dougher took over as the head of the Clinical 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. Particularly noteworthy was the very important and time-consuming work of the Graduate Admissions Committee (chaired by Jane Smith). The Graduate Admissions Committee was faced with the task of selecting the very best applicants from a pool of roughly 169. Outstanding graduate students are essential to any good research department, and the Admissions Committee is to be commended for its work in recruiting an impressive class of new students.

The Department benefited again this year from the Quad-L Trust, which was endowed through the UNM Foundation by University Professor Emeritus Frank Logan. The Quad-L Library supported by this Trust not only facilitates the study of the psychology of learning, but also provides a meeting place for students' defenses of their graduate degrees. Michael Dougher serves as faculty advisor to the Quad-L.

B. Faculty

At the beginning of the academic year, the Department had 24 voting faculty (22.5 FTE), including William Miller, who is supported by a senior Research Scientist Award from NIAAA. Drs. Nancy Handmaker and Theresa Moyers continued as part-time visiting faculty to cover Dr. Miller's teaching load. Paul Amrhein (included among voting faculty) spent a year on leave and was granted a request for an additional year of leave, owing to his wife's ill health. Professor Amrhein is to notify the Department by December 1, 2004 as to whether he will decide to return to UNM.

Three new clinical faculty members were hired at the Assistant Professor level in AY 2003-4, Elizabeth Yeater, Steven Verney, and Bruce Smith. We also hired Karin Butler as a part-time tenure-track Assistant Professor in cognitive psychology. Dr. Yeater received her Ph.D. from the University of Nevada, Reno in 2001; Dr. Verney received his Ph.D. from the San Diego State University/University of California, San Diego joint program in 2000; and Dr. Smith received his Ph.D. from Arizona State University in 2002. Dr. Butler received her Ph.D. from Michigan State University in 2001. The Department was very pleased to have Drs. Yeater, Verney, Smith and Butler join our faculty this year. Professor Dennis Feeney announced his retirement, effective at the end of AY 2003-4. Professor Feeney is an internationally recognized

figure in the area of recovery of function from brain damage and his contributions to the Department will be greatly missed.

The research activities of the faculty are summarized in Appendices A-C. It is particularly noteworthy that this year our extramural funding exceeded \$8,232,120.10 million dollars (see Appendix B). This is certainly an extraordinary accomplishment, both in terms of the absolute level of funding achieved for a department of our size and in terms of the overall increase over the past several years. We are hopeful that we can continue this high level of funding in the future. Appendix C provides a list of faculty and a list of their publications for the year. Clearly our faculty continues to excel in their research activities and to be productive in terms of publishing and presenting their work at professional meetings. In addition, a large number of our faculty have achieved national and even international prominence and have assumed leadership roles in their respective fields.

By whatever metric one might wish to apply, the faculty of the Department of Psychology is very good. However, a persistent threat to the quality of our faculty is salary inequity. Indeed, Professor McDaniel's departure was partly related to salary matters. The salaries of some of our faculty are as much as 20% below national and regional norms. The situation was only slightly improved with the salary increases this year. It will take several successive years of substantial salary increases before our faculty is compensated at a level comparable to their peers. While this problem is fully acknowledged by the central administration, more needs to be done. There should be no doubt that the highest priority for the Department is to see faculty salaries increased to the level of regional norms immediately and to the level of national norms in the near future. This is the only way to preserve the excellence of our Department.

Professional Appointments. There were a number of other individuals within UNM and the professional community of Albuquerque who made major contributions to our teaching, training and research missions. Foremost among these are our three visiting faculty members: Janis Anderson, Nancy Handmaker, and Theresa Moyers.

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This year the Department added Kamilla Venner to our list of research faculty. Research faculty status is granted to individuals who have excellent research records, provide research opportunities for our students, and receive extramural funding. Three years ago the Department decided to expand our list of affiliated research faculty for several reasons. These arrangements extend the range of research opportunities for our students, increase opportunities for collaborative and interdisciplinary research, and increase the amount of extramural funding generated by the Department. The corresponding increase in the indirect costs returned to the Department provides additional research support to our faculty and students and, in a self-perpetuating manner, facilitates the generation of additional extramural funding. The Department is indeed pleased with its affiliation with our research faculty, and we intend to add to that list in the future.

A number of psychologists and researchers from other universities, other departments within the university, and from the community further enriched our educational programs by presenting research colloquia to our faculty and students. These individuals and the titles of their presentations are listed in Appendix D.

C. Graduate Education

79 graduate students are currently enrolled in the Department. This year, the Department awarded 17 Ph.D. degrees. The names of the degree recipients along with the titles of their dissertations and the names of their faculty advisors can be found in Appendix E. This brings the

total of Ph.D. degrees awarded by the Department to 319. In addition, the Department awarded 7 Master of Science degrees this year. These degree recipients along with the titles of their theses and faculty advisors are also listed in the second half of Appendix E. The graduate program remained relatively unchanged from the previous six years.

The faculty used the criteria and guidelines that were revised four years ago to evaluate each student's research productivity and degree progress. This exercise proved very useful in that each of the major areas gained a clear picture of their students' progress and were able to give specific feedback to each student. Based on this evaluation process, it is clear that our graduate students continue to be very active in both research and teaching.

The Department received 169 highly qualified applicants to the graduate program for AY 2003-4. Fortunately, the Department was able to provide some financial support to graduate students who requested aid and were in good standing. In part, this was due to the availability of research assistantships made possible by extramural funding obtained by the faculty as well the availability of research and clinical positions outside the Department. However, most of the students who receive aid in our Department work as teaching assistants (TAs). This presents a problem because the ratio of the number of courses needing TAs to the number of TAs we are able to fund creates an excessive workload for our TAs. The Department simply does not receive sufficient TA/GA funding to cover its needs. The Department is in clear need of at least two more TA positions. Moreover, TA stipends are too low relative to our peer institutions. This places us at a real disadvantage in trying to compete with other institutions for recruiting the best graduate students. Another emerging problem is difficulty in covering tuition for our graduate students who are supported through other mechanisms than our TA/GA budget.

In the face of all of this, the Graduate Admissions Committee under the leadership of Jane Smith continued its efforts to attract the very best applicants to our graduate program. Its efforts paid off in that we were able to admit fifteen very good students to our program this year. These students, their areas of study, and their advisors are listed in Appendix F.

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D. Undergraduate Education

Stated simply, the undergraduate education productivity of the Department's faculty and staff is enormous and among the highest in the College. As of the spring semester, the Psychology Department had a total of 614 majors, which makes it the department with the second highest number of majors in the College of Arts & Sciences. The Biology Department ranks first with 711 majors. However, the Psychology Department has a ratio of 27.3 majors per faculty member, compared to the Biology Department, which has 17.3 majors per faculty member. The Department offers a wide variety of courses, ranging from introductory psychology to advanced courses in learning and memory, cognition, clinical/abnormal psychology, developmental psychology, social psychology, evolutionary psychology, quantitative methods, and cognitive/behavioral neuroscience. Our students are exposed to some of the best lecturers at the University and have access to advanced laboratory courses in which they design experiments and gain "hands-on" research experience with human and non-human subjects.

The flagship for quality education in our Department remains our Psychology Honors Program, which has been in existence for 29 years. This program, which culminates in the student completing a year-long research project, has been especially attractive to Psychology majors who go on to pursue graduate work in Psychology. Appendix G lists our 2003-2004 honors students along with the titles of their theses and the names of their faculty supervisors.

Ronald Yeo served as the instructor for the senior honors seminar, and Michael Dougher will take over for AY 2004-5. By all accounts, student presentations were excellent.

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For the 14th consecutive year, the Department hosted a spring commencement ceremony for its graduating students. The commencement address was delivered by Professor Michael Dougher. This continued the tradition of having a senior faculty member in the Department deliver the commencement address. Previous addresses have been delivered by Frank Logan, Bill Gordon, Sam Roll, John Gluck, Henry Ellis, Bill Miller, Kristina Ciesielski, Mark McDaniel, Dennis Feeney, Richard Harris, Robert Sutherland, Harold Delaney, and Lynette Cofer. Department Administrator, Candace Blashak, organized the ceremony and she and her staff handled all of the arrangements. Counting the faculty, the graduates, their families and friends, almost a thousand people attended the ceremony. Needless to the say this is a huge and costly (over \$5,000) undertaking for the Department, but judging by the very positive comments from both the graduates and faculty, it is well worth the expense and effort.

E. Staff

The Department of Psychology continues to benefit from an extremely competent support staff. The core administrative support staff (Candace Blashak, Stan Bennett, Trish Aragon, Elise McHugh, and Mary Justus) skillfully handles the basic functions essential to the day-to-day operations of the Department. These people get the Department's administrative work done competently and efficiently. Candace Blashak (Department Administrator) and Stan Bennett (Department Financial Administrator) are very experienced and capable administrators. Elise McHugh and Mary Justus efficiently deal with the myriad day-to-day jobs required of a large department with many graduate and undergraduate students. Trish Aragon expertly advises students, helps organize teaching schedules, and manages all communications with the Office of

Graduate Studies (OGS). By any measure, this is the best core staff the Department has had in many years.

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Our research support staff again includes Gilbert Borunda, Senior Lab Animal Technician, Ector Estrada, Animal Research Coordinator, Patrick Sharp, Research Engineer, and Dr. Daniel Theele, Veterinarian. The outstanding experience, skills and efforts of these individuals are invaluable and facilitate a wide range of research activities in our Department. The Department is very appreciative of their important contributions.

The success of the Psychology Clinic is due in large measure to the administrative skills of Dan Matthews, who completed his 14th year as Clinic Staff Director this spring. Dan continues to be effectively assisted in his duties by Wanda Sharts, the Administrative Assistant.

F. Space

As has been highlighted in the Department's Annual Report for the past thirteen years, our Department is not well accommodated by its current space allocation. We need a new building or a significant addition to the existing building. Currently, we have insufficient staff space in order to function optimally, and more importantly, insufficient research laboratory space. Unfortunately, during the past few years we have had to continue to convert graduate student offices into faculty research space. Even with this, we do not have sufficient, suitable research space in the building to accommodate the high level of faculty research activity that has been attained in recent years. The size of our current building places severe limitations on our ability to grow and to reach our full potential as a department. The Department's request for an addition is now acknowledged on the University's Capital Projects list. Accordingly, with the Department of Facility Planning we began a formal study of our space needs and of the projected cost for a building expansion. Gordon Hodge, Claudia Tesche, and Ronald Yeo were appointed

by the Chair last year to a committee initiated by Roger Lujan (Director of Facility Planning) to conduct this study. In addition, a proposal for funds for a Psychology building expansion was submitted for UNM's Federal Priorities consideration, but was not included. This issue remains a priority for our long-term development.

APPENDIX A

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DEPARTMENT OF PSYCHOLOGY SUMMARY STATISTICS			IISTICS			
		AY	AY	АУ	AY	AY
		199	9-2000 200	0-2001 200	01-2002 2002	2-2003 2003-2004
	Faculty Informatio	n				
	Voting Faculty (tota)	l) 24	22	21	21	24
	Professors	12	11	11	11	11
	Associate Professors	6	6	6	5	5
	Assistant Professors	5	5	4	4	7.5
	Budgeted FTE Facul	ty 22	21.11	19.45	20	22.5
	Visiting Faculty	3	3	3	1	3
	Research Activities					
	Books and Articles	74	53	82	90	71
	Extramural Support	2,611,183	2,463,309	9,948,532	23,392,552	8,232,120.10
	General Informatio	n				
	FTE Staff	12.25	12.25	13.25	12.25	12.25
	Department Budget	1,956,300	1,921,498	2,079,538	1,988,047	2,228,702

DEPARTMENT OF PSYCHOLOGY SUMMARY STATISTICS

APPENDIX B

DEPARTMENT OF PSYCHOLOGY CURRENT OUTSIDE-SPONSORED RESEARCH AMOUNTS THAT INCLUDE THE CURRENT YEAR 2003-2004

Catherine Baca-Principal Investigator

National Institutes of Health (NIH); "Primary Care Intervention"; \$98,541.30; 9/1/03-8/31/04

Vincent Clark-Principal Investigator

National Institute on Drug Abuse/National Institutes of Health (NIH)/United States Department of Health & Human Services (DHHS); \$1,202,689; 9/30/01-6/30/05

Harold Delaney-Principal Investigator

Metanexus Institute; \$53,791.53; 6/1/03-6/30/05

Steven Gangestad/Randy Thornhill-Principal Investigator

National Science Foundation; "Genetic Conflicts of Interest, Fluctuating Asymmetry, and the MHC"; \$340,883; 08/01/02-07/31/05

Timothy Goldsmith/Peder Johnson-Principal Investigator

Federal Aviation Administration (FAA); "Training and Assessing Aircrew Skills: Methods to Achieve Reliable and Valid Performance Data"; \$194,000; 01/28/04-01/28/05

Nancy Handmaker/William Miller-Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Motivating Pregnant Problem Drinkers"; \$341,626; 09/27/99-06/30/05

Mark McDaniel-Principal Investigator

National Institute on Aging; "Aging and Memory Illusions"; \$652,828; 04/15/01-06/30/04

William Miller-Principal Investigator

National Institute on Drug Abuse (NIDA); "Moving MI into Practice"; \$156,287.80; 9/30/99-8/31/03

University of North Carolina; "Behavioral Pharmacologic"; \$29,991.78; 9/1/99-8/31/03

University of North Carolina; "Behavioral Pharmacologic"; \$9,266.21; 9/1/99-8/31/03

Behavior Therapy Association; "SBIR"; \$3.15; 1/1/01-8/31/03

University of Notre Dame; \$12,091.29; 6/8/00-8/31/03

National Institute on Drug Abuse (NIDA); "Clinical Trial Network"; \$441,839.90; 10/1/02-8/31/07

National Institute on Drug Abuse (NIDA); "Clinical Trial Network"; \$1,289,432.65; 9/1/03-8/31/04

New Mexico Department of Health; "Amity"; \$7,352.45; 6/1/02-6/30/03

Johnson Foundation; \$28,001.20; 12/15/03-12/14/06

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Combine Year 6"; \$26,332.74; 9/30/97-8/31/03

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Combine Year 7"; \$155,618.14; 9/1/03-8/31/044

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Combine Year 8"; \$0.00; 9/1/04-8/31/05

Theresa Moyers-Principal Investigator

University of Texas; \$9,381.42; 9/26/02-8/31/04

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "How does MI Reduce Alcohol?"; \$91,909.12; 9/16/02-8/31/05

Department of the Army; "MI in Prevention of Alcohol Abuse"; \$304,585.69; 7/26/01-7/25/05

Natasha Slesnick-Principal Investigator

National Institute on Drug Abuse (NIDA); "Treatment Runaway"; \$7,252.25; 9/1/98-7/31/03

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Family Therapy Runaway"; \$69,931.68; 9/28/98-8/31/03

National Institute on Drug Abuse (NIDA); "Outcome of CRA with Homeless"; \$666,976.89; 9/30/01-8/31/03

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National Institute on Drug Abuse (NIDA); "Outcome of CRA with Homeless"; \$-619.59; 9/30/01-8/31/03

Center for Substance Abuse Treatment (CSAT); "Evaluation of Adult Ment. with Homeless"; \$54,945.79; 9/30/01-5/29/03

Center for Substance Abuse Treatment (CSAT); "Expanding Svc Runaways Estar"; \$681,660.91; 10/1/02-9/30/05

National Institute on Drug Abuse (NIDA); "Treatment Outcome for Runaway"; \$174,880.36; 9/5/03-6/30/04

Jane Ellen Smith/Robert Meyers-Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "CRA and Enhanced Job Training for Homeless Women"; \$199,917; 09/27/01-07/31/05

Daniel Squires-Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Diffusing a PC-Based Intervention"; \$2,398.92; 9/20/03-9/19/03

Claudia Tesche-Principal Investigator

MIND Institute; "Magnetoen Cephalographic Studies of Information Processing in Normal Subjects"; \$120,968; 1/1/04-12/31/04

J. Scott Tonigan-Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "AA Practices–Match"; \$3,238.82; 9/30/00-8/31/03

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Combine ECO Study"; \$27,892.01; 8/2/00-7/31/06

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Change Mech. in AA"; \$111,103.71; 9/1/01-8/31/03

Fetzer Institute; \$32,410.69; 1/1/02-12/31/03

United States Department of Health & Human Services (DHHS)/National Institute on Drug Abuse/National Institutes of Health (NIH); "A Transtheoretic Model"; \$1,840.48; 4/15/04-3/31/05

Kamilla Venner-Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Cult Appropriate Treatment"; \$128,262.37; 9/30/02-8/31/07

Michael Villanueva-Principal Investigator

National Institute on Alcohol Abuse and Alcoholism (NIAAA); "Zuni Pueblo Veteran Project"; \$135,579.62; 3/15/01-7/31/06

Ronald Yeo-Principal Investigator

National Institute of Neurological Disorders and Stroke/National Institutes of Health (NIH); "Brain Metabolism & Traumatic Brain Injury in Children"; \$367,029; 10/01/02-04/30/05

APPENDIX C

FACULTY PUBLICATIONS DEPARTMENT OF PSYCHOLOGY UNIVERSITY OF NEW MEXICO AY 2003-2004

AMRHEIN, PAUL C.

Amrhein, P. C., Miller, W. R., Yahne, C., Palmer, M., & Fulcher, L. (2003). Client commitment language during motivational interviewing predicts drug use outcomes. *Journal of Consulting and Clinical Psychology*, *71*, 862-878.

BUTLER, KARIN M.

CIESIELSKI, KRISTINA T.

CLARK, VINCENT P.

COFER, LYNETTE

DELANEY, HAROLD D.

Maxwell, S. E., & Delaney, H. D. (2004). *Designing Experiments and Analyzing Data: A Model Comparison Perspective* (2nd Ed.). Mahwah, NJ: Lawrence Erlbaum Associates (1104 pages). [Released July 2003.]

DOUGHER, MICHAEL J.

ERICKSON, SARAH

Erickson, S. J. & Achilles, G. (2004). Cognitive behavioral therapy with children and adolescents. In H. Steiner (Ed.). *The Stanford University School of Medicine Handbook of Mental Health Interventions in Children and Adolescents: An Integrated Developmental Approach*. New York, NY: Jossey-Bass.

Erickson, S. J. & Palmer, L. (2004). Group therapy with children and adolescents. In H. Steiner (Ed.). *The Stanford University School of Medicine Handbook of Mental Heath Interventions in Children and Adolescents: An Integrated Developmental Approach*. New York, NY: Jossey-Bass.

Erickson, S. J. & Steiner, H. (2003). Predicting adolescents' global functioning from personality typologies. *Child Psychiatry and Human Development*, 34(1), 63-80.

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FEENEY, DENNIS M.

Phillips, J., Devier, D., & Feeney, D. M. (2003). Rehabilitation pharmacology and treatment of brain injury: Bridging laboratory studies to clinical practice. *Journal of Head Trauma Rehabilitation*, 18(4), 342-356.

GANGESTAD, STEVEN W.

Gangestad, S. W., Simpson, J. A., Cousins, A. J., Garver-Apgar, C. E., & Christensen, P. N. (2004). Women's preferences for male behavioral displays change across the menstrual cycle. *Psychological Science*, *15*, 203-207.

Gangestad, S. W., & Thornhill, R. (2004). Female multiple mating and genetic benefits in humans: Investigations of design. In P. M. Kappeler & C. P. van Schaik (Eds.). *Sexual Selection in Primates: New and Comparative Perspectives.* Cambridge, UK: Cambridge University Press.

Gangestad, S. W. (2003). Sexually antagonistic coevolution: Theory, evidence, and implications for human patterns of mating and fertility. In K. D. Wachter & R. Bulatao (Eds.). *Offspring: The Biodemography of Fertility-related Behavior*. Washington, DC: National Academy of the Sciences.

Gangestad, S. W., & Thornhill, R. (2003). Facial masculinity and fluctuating asymmetry. *Evolution and Human Behavior*, 24, 231-241.

Thornhill, R., & Gangestad, S. W. (2003). Do women have evolved adaptation for extra-pair copulation? In E. Voland & K. Grammer (Eds.). *Darwinian Aesthetics*. Cambridge, MA: MIT Press.

Thornhill, R., & Gangestad, S. W. (2003). Evolutionary theory led to evidence for male sex pheromone that signals male symmetry. *Psychological Inquiry*, *14*, 318-325.

Thornhill, R., & Gangestad, S. W. (2003). The evolutionary psychology of human physical attractiveness. In A. Moya & E. Font (Eds.). *Evolution: From Molecules to Ecosystems* (pp. 247-259). Oxford, UK: Oxford University Press.

Thornhill, R., Gangestad, S. W., Miller, R., Scheyd, G., McCollough, J., & Franklin, M. (2003). MHC, symmetry and body scent attractiveness in men and women (Homo sapiens). *Behavioral Ecology*, *14*, 668-678.

GLUCK, JOHN P.

Gluck, J. P. and Bell, J. (2003). Ethical issues in the use of animals in biomedical and psychopharmacological research. *Psychopharmacology*, *171*(1), 6-12.

Warner, T. and Gluck, J. P. (2003). What do we really know about financial conflicts of interest in research? *Psychopharmacology*, 171(1), 14-21.

GOLDSMITH, TIMOTHY E.

Trumpower, D. L. & Goldsmith, T. E. (2004). Structural enhancement of learning. *Contemporary Educational Psychology*, 29, 426-446.

HODGE, GORDON K.

MCDANIEL, MARK A.

Einstein, G. O., & McDaniel, M. A. (2004). *Memory fitness: A guide for successful aging*. New Haven, CT: Yale University Press.

Einstein, G. O., McDaniel, M. A., Williford, C. L., Pagan, J., & Dismukes, K. (2003). Forgetting of intentions in demanding situations is rapid. *Journal of Experimental Psychology: Applied*, 9, 147-162.

Hochstein, D. D., McDaniel, M. A., & Nettleton, S. (2004). Recognition of vocabulary in children and adolescents with cerebral palsy: A comparison of two speech coding schemes. *Augmentative and Alternative Communication*, 20, 45-62.

Kliegel, M., Martin, M., McDaniel, M. A., & Einstein, G. O. (2004). Importance effects in eventbased prospective memory tasks. *Memory*, 12, 553-561.

McDaniel, M. A., Einstein, G. O., Graham, T., & Rall, E. (2004). Delaying execution of intentions: Overcoming the costs of interruptions. *Applied Cognitive Psychology*, *18*, 533-547.

McDaniel, M. A., Guynn, M. J., Einstein, G. O., & Breneiser, J. (2004). Cue-Focused and Reflexive-Associative Processes in Prospective Memory Retrieval. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 30*, 605-614.

McNamara, D. S., & McDaniel, M. A. (2004). Suppressing irrelevant information: Knowledge activation or inhibition? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 30, 465-482.

McDaniel, M. A., & Einstein, G. O. (2004). Material appropriate difficulty: A framework for determining when difficulty is desirable for improving learning. In A. F. Healy (Ed.). *Experimental cognitive psychology and its applications* (pp. 73-85). Washington, DC: American Psychological Association.

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Martin, M., Kliegel, M., & McDaniel, M. A. (2003). The involvement of executive functions in prospective memory performance of adults. *International Journal of Psychology*, *38*, 195-206.

McDaniel, M. A., Einstein, G. O., Stout, A. C., & Morgan, Z. (2003). Aging and maintaining intentions over delays: Do it or lose it. *Psychology and Aging*, *18*, 823-835.

McDaniel, M.A., Maier, S.F., Einstein, G.O. (2003). ABrain-specific \cong nutrients: A memory cure? *Nutrition*, 19, 957-975. [republished from *Psychological Sciences in the Public Interest* by decision of Editor in Chief of *Nutrition*].

McDaniel, M. A., Maier, S. F., & Einstein, G. O. (2003). The other "brain boosters". Scientific American, 288, 72.

MILLER, GEOFFREY F.

Shaner, A., Miller, G., & Mintz, J. (2004). Schizophrenia as one extreme of a sexually selected fitness indicator. *Schizophrenia Research*, *70*, 101-109.

MILLER, WILLIAM R.

Miller, W. R. (Ed.). (2004). Combined Behavioral Intervention: A Clinical Research Guide for Therapists Treating Individuals with Alcohol Abuse and Dependence. COMBINE Monograph Series, (Vol. 1), National Institute on Alcohol Abuse and Alcoholism, Public Health Service, U.S. Dept of Health and Human Services.

Miller, W. R. (2004). Motivational interviewing in the service of health promotion. Art of Health Promotion in American Journal of Health Promotion, 18(3), 1-10.

Miller, W. R. (2004). The phenomenon of quantum change. *Journal of Clinical Psychology: In* Session, 60(5), 453-460.

Miller, W. R., & Delaney, H. D. (Eds.) (2004). Judeo-Christian Perspectives on Psychology: Human Nature, Motivation, and Change. Washington, DC: American Psychological Association.

Miller, W. R., & MuZoz, R. F. (2004). Controlling Your Drinking. New York: Guilford Press.

Miller, W. R., & Thoresen, C. E. (2004). Spirituality, health, and the discipline of psychology. *American Psychologist*, 59, 54-55.

Ogle, R. L., & Miller, W. R. (2004). The effects of alcohol intoxication and gender on the social information processing of hostile provocations involving male and female provocateurs. *Journal of Studies on Alcohol*, 65, 54-62.

Pettinati, H. M., Weiss, R., Miller, W. R., Donovan, D., & Rounsaville, B. J. (2004). Medical Management (MM) treatment manual: A guide for medically-trained clinicians providing pharmacotherapy as part of the treatment for alcohol dependence.

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SMITH, BRUCE W.

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SMITH, JANE E.

Smith, J. E., & Meyers, R. J. (2004). Motivating Substance Abusers to Enter Treatment: Working with Family Members. New York: Guilford.

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TANG, AKAYSHA C.

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WITHERINGTON, DAVID C.

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YEATER, ELIZABETH A.

Yeater, E. A., Naugle, A. E., O'Donohue, W. T., & Bradley, A. R. (2004). Sexual assault prevention with college-aged women: A bibliotherapy approach. *Violence and Victims*, 19.

O'Donohue, W. T., Yeater, E. A., & Fanetti, M. F. (2003). Rape prevention with college males: The roles of victim empathy, rape myth acceptance, and outcome expectancies. *Journal of Interpersonal Violence*, *18*, 513-531.

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YEO, RONALD A.

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APPENDIX D DEPARTMENT OF PSYCHOLOGY COLLOQUIA AY 2003-2004

Colloquium Presented By

Michael Weisend, Ph.D. Center for Functional Brain Imaging

John Dencoff, M.S. Department of Psychology University of New Mexico

Geoffrey Miller, Ph.D. Department of Psychology University of New Mexico

Mark McDaniel, Ph.D. Department of Psychology University of New Mexico

Jon A. Sefcek, M.A. Department of Psychology University of Arizona

Derek Hamilton, Ph.D. Canadian Centre for Behavioural Neuroscience University of Lethbridge, Canada

Glenn Scheyd, M.S. Department of Psychology University of New Mexico

Ronald Yeo, Ph.D. Department of Psychology University of New Mexico

Colloquium Title

"A novel method for the study of cognition with evoked responses" September 5, 2003

Training workshop for new human-subjects research experiments system" September 12, 2003

"Schizophrenia as one extreme of a sexually selected fitness indicator: How neurodevelopment risk-seeking explains the apparent evolutionary paradox of a highheritability trait that impairs reproductive success" September 19, 2003

"Material appropriate difficulty: A framework for determining when difficulty is desirable for improving learning" September 26, 2003

"Psychochimps! What can we learn about human personality from the study of chimpanzee psychopathy?" October 3, 2003

"Psychostimulants, brain plasticity and behavior" October 10, 2003

"Individual differences in attraction: Evidence for a facultative calibration" October 31, 2004

"Magnetic resonance spectroscopy studies of children and adults with traumatic brain injury" November 7, 2004 Steven Verney, Ph.D. Department of Psychology University of New Mexico

Lloyd Kaufman, Ph.D. New York University

Theresa Moyers, Ph.D. Department of Psychology and CASAA University of New Mexico

John Dencoff, M.S. Department of Psychology University of New Mexico

Akaysha Tang, Ph.D. Department of Psychology University of New Mexico

Joshua Zader Department of Psychology University of New Mexico

Dankert Vedeler, Ph.D. Norwegian University of Science & Technology

Kate Arrington, Ph.D. Department of Psychology Vanderbilt University

Karin Butler, Ph.D. Department of Psychology University of New Mexico

Jennifer Breneiser, M.S Department of Psychology University of New Mexico "Visual working memory in schizophrenia: An fMRI study" November 14, 2003

"The Moon Illusion" November 19, 2003

"What should we be teaching: Using process research to guide clinical training" November 21, 2003

Training workshop for new human-subject research experiments system" January 30, 2004

"Modification of social memory, HPA axis, and brain asymmetry by neonatal novelty exposure" February 6, 2004

"Mindfulness research: What do we know so far?" February 20, 2004

"The epigenetic landscape as a metaphor for development" February 27, 2004

"Voluntary task switching: Chasing the clever homunculus" March 12, 2004

"Muddying the memories: Age differences in the effectiveness of an item-specific processing strategy for reducing false memory" March 26, 2004

"Cost or no cost in prospective memory retrieval?" April 2, 2004 Marilyn Charles, Ph.D. Department of Psychology Michigan State University

Faith Hanlon, Ph.D. Department of Psychology University of New Mexico

Tom Toppino, Ph.D. Department of Psychology Villanova University

Christopher Butler, Ph.D. Department of Political Science University of New Mexico "'Microbehavioral' processes during navigation" April 16, 2004

"Learning from experience: A guide for clinicians" April 23, 2004

"Hippocampal dysfunction in schizophrenia" April 23, 2004

"Top-down and bottom-up processes in the perception of reversible figures: Toward a hybrid model" April 30, 2004

"Bargaining in a spatial context: An experimental study" May 7, 2004

APPENDIX E

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DOCTORAL DEGREES AWARDED AY 2003-2004

DEPARTMENT OF PSYCHOLOGY

NAME	TITLE OF DISSERTATION	ADVISOR
Georgianna Achilles	"The Neural Substratus of Human Associative Learning Measured with Magnetoenecphalography"	Claudia Tesche, Ph.D.
Robert Anderson	"Investigating a Quantitative Measure of Addiction-Prone Personality"	William Miller, Ph.D.
Tim Apodaca	"The Effectiveness of Bibliotherapy to Treat Problem Drinkers at a Hospital Trauma Center"	William Miller, Ph.D.
Alfredo Aragon	"The Ethical Costs of Deception in Psychological Research"	John Gluck, Ph.D.
Joel Bish	"The Effects of Stimulus Onset Asynchrony on Auditory-Visual Feature"	Claudia Tesche, Ph.D.
Faith Hanlon	"A Quest to Characterize a Specific Hippocampal Deficit in Schizophrenia Using Behavioral and Magnetoencephalographic Measures"	Ronald Yeo, Ph.D.
Amy Koerner	"Hormonal Influence of Spatial Abilities"	Gordon Hodge, Ph.D.
Nicklos Lucas	"Effects of Cross-Loading Items on Convergence, Variability of Parameter Estimates, and Goodness of Fit Indices for Conformity Fear Analysis"	Harold Delaney, Ph.D.
Sandra Moses	''The Neural Substratus of Human Associative Learning Measured with Magnetoencephalography''	Claudia Tesche, Ph.D.

Thomas Peterson	"Parent-Adolescent Conflict: A Relational Study of Dyadic and Triadic Family Communication"	Sarah Erickson, Ph.D.
Amanda Price	"Role Executive Functioning in Cognitive Skill Acquisition"	Mark McDaniel, Ph.D.
Laura Rowland	"The Effects of Ketamine on Brain Glutamate Metabolism, Behavior and Cognition in Healthy, Human Volunteers"	Ronald Yeo, Ph.D.
Debra Stibick	"Neurometabolites, Affect, Development Instability and Cognition"	Ronald Yeo, Ph.D.
Lorraine Torres-Sena	"The Issue of Gender and Ethnicity in Domestic Violence Among Hispanics and Non-Hispanic Whites"	Holly Waldron, Ph.D.
David Trumpower	"Development of Problem Solving Performance and Structural Knowledge in Physics Problem Solvers"	Timothy Goldsmith, Ph.D.
David Weers	"Pathophysiology and Cognitive Function Following Traumatic Brain Injury in Children: A Proton Spectroscopy Study"	Ronald Yeo, Ph.D.
Christopher Woodruf	f "Spatiotemporal Characteristics of Object-Based and Space-Based Attention Using Magnetoencephalography"	Claudia Tesche, Ph.D.
Л	MASTER'S DEGREES AWARDED AY 2	003-2004
	DEPARTMENT OF PSYCHOLOG	Y
NAME	TITLE OF THESIS	ADVISOR
	"Schizotypic Deficits in Context Processing and Decision- Making"	Tìmothy Goldsmith, Ph.D.

Jennifer Breneiser	"Prospective Memory Retrieval: Associativity, Discrepancy, and Individual Differences"	Mark McDaniel, Ph.D.
Sarah Feldstein	"The Relationship Between Coping, Defense, Distress and Adjustment in Early Adolescence"	Sarah Erickson, Ph.D.
Jennifer Hettema	"The Reliability of the Form 90-DWI: An Instrument for Assessing Intoxicated Driving"	William Miller, Ph.D.
Jamie Milford	"Coping, Hardiness, and Substance Use in Homeless Women with Post-Traumatic Stress Disorder Symptomology"	Jane Smith, Ph.D.
Bethany Reeb	"Neonatal Novelty Exposure and Early Emergence of Sex Difference in Social Interaction"	Claudia Tesche, Ph.D.
Joshua Zađer	"Structural Assessment of Biomedical Ethics"	John Gluck, Ph.D.

APPENDIX F

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GRADUATE STUDENTS ACCEPTED FOR AY 2003-2004

NAME	ADVISOR	AREA
Julia Austin	Jane Smith, Ph.D.	Clinical
Ayshea DeSmet	Dennis Feeney, Ph.D.	Behavioral Neuroscience
Aimee Dupriest	Mark McDaniel, Ph.D.	Cognitive/Learning
Rachael Falcon	Steven Gangestad, Ph.D.	Evolutionary
Rachel Freund	Michael Dougher, Ph.D.	Clinical
Barbara Howard	David Witherington, Ph.D.	Developmental
Christopher Jenkins	Geoffrey Miller, Ph.D.	Evolutionary
Shannon Lundy	Kristina Ciesielski, Ph.D.	Clinical
Peggy Maclean	Sarah Erickson, Ph.D.	Clinical
Nasato Nakazawa	Akaysha Tang, Ph.D.	Behavioral Neuroscience
Lauren Parks	Kristina Ciesielski, Ph.D.	Clinical
Matthew Sanders	Timothy Goldsmith, Ph.D.	Cognitive Neuroscience
Julia Steele	William Miller, Ph.D.	Clinical
Susan Stevens	Timothy Goldsmith, Ph.D.	Cognitive/Learning
Monica Stump	Jane Smith, Ph.D.	Clinical

APPENDIX G

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SENIOR HONOR THESES AY 2003-2004

DEPARTMENT OF PSYCHOLOGY

STUDENT	THESIS TITLE	FACULTY SPONSOR
Thais A. Marek	"Hypervigilance and Responding in a Modified Stroop Task"	Ronald Yeo, Ph.D.
Janel Goodman	"The Déjà vu Phenomenon and Memory Processes"	Claudia Tesche, Ph.D.
Alvin A. Valdez	"Understanding Algebra Conceptually: Cognitive Underpini	Timothy Goldsmith, Ph.D.
Bianca Peigler	"Female Foot Size: A Possible Estrogen Marker in Mate-Selection	Randy Thornhill, Ph.D.
Matthew J. Hanson	"Using Testing as a Retrieval Method to Enhance Retention"	Mark McDaniel, Ph.D.
Brandon Barrera	"Anticipation Errors in Speeded Reaction Time"	Claudia Tesche, Ph.D.
Donna Imelda	"An Ethnographic Study of	Cathleen Willging, Ph.D.
Padilla-Frausto	Promotoras as Mental Health	Howard Waitzkin, M.D.,
	Ph.D. Practitioners in Settings"	Steven Verney, Ph.D.
Heather Massoth	"Sexual Trauma Symptomatology as a Predictor of Negative Body Image and Eating Disorder	Jane Smith, Ph.D.
	Symptomatology in Homeless Wom	en"
Benjamin Paul Dodge	"Interpersonal Sensitivity and Effects of the San Juan County DWI Treatment Program on Americ Indians, Hispanics, and Caucasian.	
Jamie Kitterman	"Social Support as a Means to Cut Down on Prenatal Drinking"	Nancy Sheehy-Handmaker, Ph.D.

College of Arts and Sciences

Department of Sociology

July 1, 2003 - June 30, 2004

Susan Tiano, Chair

I am pleased to submit this report covering the fourth year of my term as department chair. The 2003/04 academic year witnessed several important developments with respect to our faculty and students.

A. Significant Achievements

Among the accomplishments of the Sociology Department during the 2003/04 academic year, there are several of which we are especially proud. Assistant Professor Tim Wadsworth successfully completed his mid-probationary review. The department received approval to initiate a national search for a comparative sociology faculty position. Professor Bert Useem authored the best-published essay by the American Sociological Association. The essay, "Forging Social Order and Its Breakdown: Riot and Reform in U.S. Prisons," appeared in the American Sociological Review in 2002.

The 2003/04 academic year also witnessed numerous professional accomplishments of Sociology graduate students. Spring 2004 doctoral graduate Jerry Daday accepted an assistant professorship at Western Kentucky University while Gloria Vaquera, summer doctoral graduate, accepted a tenure-track position at John Carroll University in Cleveland, Ohio.

A total of one hundred ten Sociology undergraduate students completed their studies in the 2003/04 academic year. Forty-nine of these graduating seniors (eighteen sociology majors and thirty-one criminology majors) participated the Sociology Convocation that was held in the Student Union Ballroom on Saturday, May 15, 2004 at 3:30 p.m. An estimated 600 persons were in attendance including family and friends. This year, the Department heard presentations from graduating doctoral students, Gloria S. Vaquera and Jerry Daday. The winners for the 2003 Christopher A. McGee Memorial Award were Katherine M. Coleman, Anne M. Enea, Kristina M. Garcia, Julianna Hallett, Meghan McDonnell, Renee Ruybal, John Patrick Sugg, Adrienne Tongate, and Jacob T. N. Young. In addition, the Department recognized the accomplishments of graduating seniors with grade point averages of 3.50 and above: Katherine M. Coleman, Kelli Christine Cox, David John Ebeling, Anne Sommer Enea, Kristina M. Garcia, Yvette Gonzales, Kimberly L. Halpain, Manyca Nivanh, Lisa Marie Ortiz, Renee Ruybal, Adrienne Tongate, and Jacob T. N. Young. Doctors of Philosophy degrees were recognized for graduates Marie Clevenger, Jerry Daday, Mark Patrick George, Mary Beth Howe, Karen E. B. McCue, and Gloria S. Vaquera; Masters of Arts & Letters degrees were recognized for Mozafar Banihashemi, Nafisa Halim, Billy James Ulibarri, and Bradley Varley.

Department Colloquia:

September 18, 2003. Ann Goetting, Professor of Sociology at Western Kentucky University. "Expert Witnessing on Domestic Violence as Feminist Activism."

October 24, 2003. Allen Whitt, Professor of Sociology at the University of Louisville. "Who has the Connections? The National Network of Directors of Major Corporations, Think Tanks, Foundations, Charities, and Federal Government Committees."

January 29, 2004. Rose Weitz, Professor of Women's Studies at Arizona State University. "Rapunzel's Daughters: A History of Women's Hair."

Additional achievements during the academic year include:

• Contributing to UNM's Extended Learning program by offering instructional television courses (Sociology 312 "Causes of Crime" and Sociology 471 "Contemporary Social Theory" taught by Kathryn Hovey).

• Contributing to the College Enrichment Program by offering six special sections of Soc 101, which enrolled three hundred thirty-eight students (Part-Time Instructor Marie Clevenger, Doctoral student Jason Ben-Meir, Ph.D. candidate Jerry Daday, and Part-Time Instructor Joel Young).

B. List of Faculty Publications, Outside Professional Activities, Sponsored Research

<u>Lisa Broidy</u>

Publications

Broidy, Lisa M., Elizabeth Cauffman, Dorothy Espelage, Alex Piquero, and Paul Mazerolle. 2003. "Sex Differences in Empathy and its Relation to Juvenile Offending." *Violence and Victims* 18:503-516.

Cauffman, Elizabeth, Alex Piquero, Lisa Broidy, Dorothy Espelage and Paul Mazerolle, 2004. "Heterogeneity in the association between social-emotional adjustment profiles and deviant behavior among male and female serious juvenile offenders." *International Journal of Offender Therapy and Comparative Criminology* 48:235-252.

Hunnicutt, Gwen and Lisa M. Broidy. 2004. "Liberation and economic marginalization: A reformation and test of (formerly?) competing models." *Journal of Research in Crime and Delinquency* 41:130-155.

Beverly H. Burris

Publications

Burris, Beverly H. 2004. "Review Essay of 'Globalization and Its Discontents: Qualitative Research on the Second Industrial Divide." *Qualitative Sociology* 27(1):117-121.

Outside Professional Activities

"Corporatization or Privatization? Public Higher Education in the 21st Century." Paper presented at the Society for the Advancement of Socio Economics meeting in Washington, D.C. June 2004.

"The Restructuring of Higher Education." Session Organizer at the Pacific Sociological Association meeting in San Francisco, California. April 2004.

"The Selective Corporatization of Higher Education." Paper presented at the Pacific Sociological Association meeting in San Francisco, California. April 2004.

Richard M. Coughlin

Publications

Coughlin, Richard. 2003. "The Social Construction of Tax Policy: Review of Liam Murphy and Thomas Nagel's *The Myth of Ownership: Taxes and Justice.*" *The Responsive Community* Summer:22-25.

Phillip B. Gonzales

Publications

Gonzales, Phillip B. 2004. "Review of Racism on Trial: The Chicano Fight for Justice." American Journal of Sociology 109(5):1213-1215.

-----. 2003a. "Review of The Spanish Redemption: Heritage, Power and Loss on New Mexico's Upper Rio Grande." New Mexico Historical Review 78:329-337.

----. 2003b. "Review of Culture in the American Southwest: The Earth, the Sky, the People." New Mexico Historical Review 78:201-04.

Outside Professional Activities

"The Land Grant Struggle in New Mexico, 1848-2001." Paper presented at the Western Social Science Association held in Salt Lake City, UT. April 22, 2004.

Latino Section. Roundtable Participant at the American Sociological Association held in Atlanta, GA. August 15, 2003.

Robert A. Ibarra

Publications

Ibarra, Robert A. 2004. "Academic Success and the Latino Family." Pp. 113-132 in *Creating Alternative Discourses in the Education of Latinos and Latinas*, edited by N. Lopez and R. Rodriguez. New York, NY: Peter Lang.

Sponsored Research

"Creating an American Research University for the 21st Century: Multicontextuality and Higher Education." October 2003 - October 2005. Funded by the Ford Foundation; Higher Education, Knowledge and Religion Section.

Outside Professional Activities

"The World of Multicontextuality and Diversity." Paper presented at the Symposium on Multicontextuality, Unity and Diversity in a Pluralistic Society. Hosted by the UNM Office for Diversity, and funded by the UNM Ford Foundation research project, September 17-19, 2004, La Posada Hotel, Albuquerque NM.

"Some Observations on Examining Differential Item Functioning In Standardized Tests." Paper co-presented with Allan S. Cohen (University of Georgia) at the Symposium on Multicontextuality, Unity and Diversity in a Pluralistic Society. Hosted by the UNM Office for Diversity, and funded by the UNM Ford Foundation research project, September 17-19, 2004, La Posada Hotel, Albuquerque NM.

Symposium on "Multicontextuality, Unity and Diversity in a Pluralistic Society." Convenor and co-chair. Hosted by the UNM Office of Diversity and funded by the Ford Foundation. September 17-19, 2004 in Albuquerque NM.

"Beyond Affirmative Action: Reframing the Context of Higher Education." Keynote presenter for the South Western Regional Conference of the College and University Professional Association for Human Resources (CUPA). April 25-28, 2004 in Las Vegas, NV. "Learning and Thriving in the New Mexico Classroom: A New Tool for Reframing the Teaching/Learning Environment." Keynote presenter for the UNM-Valencia Tech Prep Collaborative Symposium. March 19, 2004 in Valencia, NM.

Guest speaker at the Association of Latino Professionals in Finance and Accounting (ALPFA) -Annual conference. October 7, 2003 in Albuquerque, NM.

"Reputation vs. Reality." Invited speaker sponsored by Graduate Affirmative Action Advisory Committee (GAAAC) of the Graduate Division, The Center for the Study of Higher Education and the Graduate Assembly at the University of California-Berkeley's Campus Climate, Town Hall Meeting. September 25, 2003.

"Multicontext Diversity: Reframing Organizational Change." Invited workshops for the 18th Annual EEO/Diversity Training and Awareness Seminar, Albuquerque/Santa Fe/Los Alamos Equal Employment Opportunity Council. July 23, 2003 in Albuquerque, NM.

Raymond Liedka

Publications

Useem, Bert, Raymond Liedka, and Anne Piehl. 2003. "Popular Support for the Prison Buildup." *Punishment and Society* 5:5-32.

Nancy López

Publications

López, Nancy. 2004a. "Unraveling the Race-Gender Gap in Education: Second-Generation Dominican Men's High School Experiences." In *Becoming New Yorkers: Ethnographies of the New Second Generation* edited by Philip Kasinitz, John Mollenkopf and Mary Waters. New York: Russell Sage Foundation.

----. 2004b. "Review of Gender in Latin America." Contemporary Sociology 33(3):294-295.

-----. 2004c. "Transnational Changing Gender Roles: Second-Generation Dominicans in New York City." In *Transnational Perspectives on Dominican Migration* edited by Ernesto Sagas and Sintia E. Monlina. Gainesville, FL: University of Florida Press.

----. 2003. "Disentangling Race-Gender Experiences at Work: Second Generation Caribbean Young Adults." In *Gender and U.S. Immigration: Contemporary Trends* edited by Pierrette Hondaganeu-Sotelo. University of California Press.

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López, Nancy and Raul Ybarra, editors. 2004. Creating Alternative Discourses in the Education of Latinos & Latinas: A Reader. New York: Peter Lang.

Outside Professional Activities

Author Meets Critics: *Hopeful Girls, Troubled Boys.* Race and Gender Disparity in Urban Education. Pacific Sociological Association. April 17, 2004 in San Francisco, CA.

"Chicano/a & Latino/a Education." Organizer. National Association of Chicana and Chicano Studies meeting held in Albuquerque, NM. April 1, 2004.

<u>Philip A. May</u>

Publications

Gossage, J. P., L. Barton, L. Foster, L. Etsitty, C. LoneTree, C. Leonard, and P.A. May. 2003. "Sweat Lodge Ceremonies for Jail-Based Treatment." *Journal of Psychoactive Drugs* 35(1):33-42.

Gossage, J. Phillip and Philip A. May. 2004. "Results from the Primary Caregiver Questionnaire, Wave I (Baseline Data: 2002-2003)." *Laguna Free to Grow Initiative*. Albuquerque, NM: The University of New Mexico Press.

May, P.A. and J.P. Gossage. 2003. "Abstinence and Alcohol Use Among the People of Four American Indian Communities of the Northern States." *Tribal Monograph*. 2nd Edition. Albuquerque, NM: The University of New Mexico.

May, Philip A., J. Phillip Gossage, Mary White-Country, Karen Goodhart, Sara DeCoteau, Phyllis M. Trujillo, Wendy O. Kalberg, Denis L. Viljoen, H. Eugene Hoyme. 2004. "Alcohol Consumption and Other Maternal Risk Factors for Fetal Alcohol Syndrome Among Three Distinct Samples of Women Before, During, and After pregnancy: The Risk is Relative." *American Journal of Medical Genetics* 127(C):10-20.

Sponsored Research

"Clinical Evaluation of Fetal Alcohol Syndrome (FAS) for the State of Montana." State of Montana, May 01, 2002 - September 29, 2003. \$297,837. 02-07-5-31-013-0.

"A Trial of FAS Prevention and Diagnosis Among American Indians." NIAAA, May 1, 2004 - April 30, 2009. \$8,427,060. 2 UO1 AA 11685-06-10.

"International Neuropsychological Study of FASD (and Multi-Method Intervention Study of FASD in South Africa)." NIAAA, September 30, 2003 - September 29, 2006. \$803,287. U01 AA 014786.

"A FASD Epidemiology Study in Italy." NIAAA pilot project through the FASD Neuropsychological Study Consortium, San Diego State University, Consortium Principal Investigator: Edward Riley. September 29, 2003 - September 28, 2005. \$59,996. 53257A -P1660-7802-211 CSM.

<u>Aki Roberts</u>

Publications

Roberts, Aki and Gary LaFree. 2003. "Explaining Japan's Postwar Violent Crime Trends." Criminology 42:179-209.

Sponsored Research

"Police Innovations and the Structure of Informal Communication between Police Agencies: Network and LEMAS data." National Institute of Justice.

"Evaluation of Child Development." The study examines the effect of participation in preschools such as Head Start and Even Start on later academic performance and retention. City of Albuquerque. 2003-2004.

"Crime Clearance Using Linked National Incident Reporting System (NIBRS) and Law Enforcement Management and Administrative Statistics (LEMAS) data." American Statistical Association and Bureau of Justice Statistics.

Outside Professional Activities

2004. Summer funding to attend "Using Early Head Start Data" workshop sponsored by Child Care and Early Education Research Connections (CCEERC) project, with support from the United States Department of Health and Human Services, Administration for Children and Families

Paul Steele

Sponsored Research

Ford Foundation, "Assessment of High-Context Learning in Two Curricula at the University of New Mexico." March, 2004.

Justice Research and Statistics Association, "Tribal Justice Statistical Assistance Center: Research Concerning Crime on Tribal Lands in New Mexico." March, 2004.

New Mexico Department of Education, "No Child Left Behind: Innovative programs in Mathematics Education." January, 2004.

Bureau of Justice Assistance, "Research Partner for Project Safe Neighborhoods: District of New Mexico." July, 2002. (Expansion: January, 2004.)

Bureau of Justice Assistance, "Expansion of PSN Research Partner Activities, District of New Mexico." October, 2003.

Executive Office of Weed and Seed, "Evaluation Support for Weed and Seed sites in Albuquerque, New Mexico." October, 2003.

Bert Useem

Publications

Useem, Bert, Raymond Liedka, and Anne Piehl, 2003. "Popular Support for the Prison Buildup." *Punishment and Society* 5:5-32.

Sponsored Research

National Science Foundation, Law and Social Science Program. "The Transformation of Iraqi Criminal Justice System under U.S. Peacekeeping Authority." \$12,175. Bert Useem. 2003.

Nelson Valdés

Publications

Valdés, Nelson. 2004a. "Cuba y la tecnologia de la información." Rebelion (Madrid). January 29.

----. 2004b. "Cuba: Usuarios y proveedores de Internet." Cubarte (Habana). February 23.

-----. 2004c. "Presidential Succession: Legal and Political Contexts and Domestic Players." In *Cuban Socialism in a New Century: Adversity, Survival, and Renewal*. Edited by Max Azicri and Elsie Deal. Gainesville, FL: University Press of Florida.

----. 2003a. "América Latina en crisis y la confianza en sí misma de Cuba." *Cubadebate* (Habana) November 7.

----. 2003b. "Carta abierta a Eduardo Galeano." Rebelion (Madrid), Mayo 5.

----. 2003c. "Carta Abierta al Presidente Bush de un crítico de la política exterior de Estados Unidos." *Radio Progreso Semanal* (Miami). August 15.

----. 2003. "Concerned About Prostitution, Mr President? Try Reno: Bush, Electoral Politics and Cuba's Illicit Sex Trade." *Counterpunch*. November 18.

----. 2003d. "Contradiction or Conscious Policy? Why Americans Can't Travel to Cuba." Counterpunch (New York), February 21, 2003.

-----. 2003e. "Cuba y la tecnología de la información." La Jiribilla (La Habana) August 6.

-----. 2003f. "Latin America in Crisis Cuba's Self-Reliance in the Storm." *Canadian Dimension* (Manitoba, Canada). October 30.

----. 2003g. "Latin America in Crisis Cuba's Self-Reliance in the Storm." *Counterpunch*. November 7.

----. 2003h. "Por qué los norteamericanos no pueden viajar a Cuba." *Rebelion* (Madrid), February 21.

----. 2003i. "Traveling to Cuba: Where There is a Will, There is a Way." *Counterpunch* October 11.

----. 2003j. "Time to Welcome Cuba Back." Editorial in the Albuquerque Journal. May 29.

Sponsored Research

Ford Foundation. \$4,000 to research on impact of the Internet in the Economy, Society and Culture of Cuba. Grant administered by the Cuba Research & Analysis Group (non profit organization) in Albuquerque, New Mexico. (2002)

Ford Foundation. 2-year grant of \$150,000 to fund the Cuba Information Project, administered by the Cuba Research and Analysis Group, a non-profit Albuquerque organization. The Project will set up two mirror servers, one in Albuquerque and the other in Havana. Both will contain the same materials presently distributed by the Cuba-L listserver service. The grant will run from April 2003-2005.

Outside Professional Activities

Visiting Professor, Department of Sociology, Duke University, 2003-2006.

Assistant to the Vice Provost for International Affairs, Duke University, 2003-2006.

Executive Director, Fundación Amistad, Duke University, 2003-2006.

Directs and produces the Cuba-L Direct listserv, distributing information regarding Cuba on a daily basis (began in 1986).

Board of Editors, Magazine Temas (Habana). This is the leading social science publication in the country.

Discussant, United Nations, Economic Commission on Latin America, Seminar on the Economic Situation and Recent Social Policies in Cuba, Mexico City, December 2, 2003. Invited by Rebeca Grynspan, director of ECLAC.

Consultant on Cuba, MSN-NBC, 2003-2004.

"Educational Travel to Cuba: Social Trends, Practical Lessons and the Future" presentation at panel of the 17th annual Educational Travel Conference in Washington, D.C., February 8, 2003.

Presented paper on "La experiencia de Cuba-L Direct y el rastreo de información en Internet: Modelo para organizaciones con pocos recursos," III Congreso Internacional Cultura y Desarrollo, Havana, Cuba on June 11, 2003.

Conference given to technical and staff personnel of "Viernes de Cubasí," [computer enterprise] on "¿Hay posibilidades de insertarnos en los medios estadounidenses,?" June 6, 2003, Havana, Cuba. [The lecture was published in Boletín Electrónico - Clic.internet, (Havana), June 25, 2003].

Conducted course on Cuban Politics, Society and Economy for Duke University's Study Abroad Program in Cuba, May 18-July 11, 2003.

Directs and produces the Socialanalysis-L listserv, distributing information that relates to important contemporary issues from a sociological perspective (began in 2002).

Participated in radio program on "Cuba, the European Union and Dissidents," organized by the radio series Hemispheres" of KGNU-FM - Boulder County Public Radio (88.5 in Boulder 89.1 in Fort Collins, 93.7 in Ward), September 9, 2003. 37 minutes. http://kgnu.net/audio/hemispheres/data/

Tim Wadsworth

Publications

Wadsworth, Tim. 2004. "Industrial Composition, Labor Markets and Crime." Sociological Focus 37(1):1-24.

Outside Professional Activities

Wadsworth, Tim and Charis E. Kubrin. 2003. "Structural Factors and Interracial Homicide: A New Look at the Causal Process." Presented at the 2003 International Society of Criminology Meetings.

Richard L. Wood

Publications

Wood, Richard L. 2003a. "Does Religion Matter? Projecting Democratic Power into the Public Arena." In *Religion and Social Capital*, edited by Corwin Smidt. Waco, Texas: Baylor University Press.

Wood, Richard L. 2003b. (Translation of 2001c into Serbo-Croatian: Ricard L. Vud, "Preispitivanje politicke kulture: Uvidi o drustvenom kapitalu sa stanovista etnografije organizovanja verskih zajednica", Posle Tokvila. Debata o gradjanskom drustvu i drustvenom kapitalu u uporednoj perspektivi, Bob Edvards, Majkl Foli i Mario Dajani (prir.), s engleskog preveo Milan Brdar, Izdavacka knjizarnica Zorana Stojanovica, Novi Sad, 2004, pp. 337-351.)

Wood, Richard L. 2003c. "Religion, Faith-Based Organizing, and the Struggle for Justice.," Pp. 385-399 in *The Cambridge Handbook of the Sociology of Religion*, edited by M. Dillon. New York: Cambridge University Press.

Wood, Richard L. 2003d. "Up from the Parishes: Reclaiming the Public Voice of Catholicism." Pp. 1, 7-10 in *American Catholic Studies*. University of Notre Dame's Cushwa Center for the Study of American Catholicism. (December):1, 7-10.

Wood, Richard L. and Mary Ann Flaherty. 2003. *Renewing Congregations*. New York: Interfaith Funders and the Ford Foundation. Professionally published report, more than 4,000 distributed nationwide upon request by recipients.

Wood, Richard L., Amelia Rouse, and Mariah Davis. 2003. "Driving into Quicksand: Program Implementation and Police Subcultures." Pp. 136-162 in *Community Policing: Can It Work?*. Edited by Wesley Skogan. Belmont, CA: Wadsworth.

Sponsored Research

Islam and Democracy in the Middle East (March 2003 to March 2005: \$66,000). Principal investigator, in support of graduate student researcher at UNM Middle East Cooperative Monitoring Center, Sandia National Laboratory.

Congregational Development and Community Organizing (May 2002 to March 2004: \$101,365) Principal investigator; grant supported two graduate student research associates from the UNM Department of Sociology for 20 hours/week for 9 months of 2002-2003. Ford Foundation and Interfaith Funders.

Outside Professional Activities

Invited lecturer for the 2004 Bishop Bernard J. Flanagan Lecture on Religion and Public Life at Holy Cross College. "Faith-Based Organizing, Congregational Development, and the Struggle for Justice in America." (Worcester, Massachusetts: February 9, 2004).

Invited lecture at National Clergy Gathering for the Campaign for Human Development, the agency responsible for promoting grassroots economic development and the empowerment of residents of poor American communities for the United States Catholic Conference (January 2003).

"Entering the National Ecology of Civic Engagement," paper presentation at the Working Group on the Ecology of Civic Engagement, Brown University (November 2003).

Wood, Richard L. and Mozafar Banihashemi, "Sustaining a Movement: Congregational Development as Cross-Institutional Flow," a paper presentation on a special panel on *Religion*, *Politics, and the Analysis of Culture: Community Organizing and Local Political Culture*, annual meeting of the American Sociological Association (August 2003, co-sponsored by the Association for the Sociology of Religion).

Wood, Richard L., "Globalization and Civic Culture: Religion Through the Glass Darkly," a paper presentation on a special panel on *The Return of Civic Culture*, annual meeting of the American Sociological Association (August 2003).

Wood, Richard L., "Mapping Community Organizing" and "Congregational Development," presentations to the annual meeting of the Oblate Network for Peace, Justice, and the Integrity of Creation (September 2003).

C. Graduate Program

Awarded Doctoral Dissertations & Master's Theses Sociology Department/Summer 2003, Fall 2003, Spring 2004

Author	Title
Mozafar Banihashemi, MA	Iran in Transition: From Theocratic Rule to Incertitude?
Marie Clevenger, PhD	The Community College that Works: The Characteristics, Dynamics of Interaction, and Academic Achievement of Students in a Rural Community College
Jerry Daday, PhD	Individual, Ecological, and Situational Characteristics Associated with Violent Victimization and Offending
Mark Patrick George, PhD	Race Traitors: Exploring the Motivation and Action of White Antiracists
Nafisa, Halim, MA	Bureaucratic Corruption in Less Developed Countries: Assessing Major Theoretical and Empirical Insights
Mary Beth Howe, PhD	Dynamics, Process, and Structure in Small Claims Mediation: Understanding Disputant Satisfaction
Karen E. B. McCue, PhD	Employee Ownership and Industrial Democracy: The Case of ESOPs
Billy James Ulibarrí, MA	Transforming a Rape Culture: The Case of Male Survivors
Gloria S. Vaquera, PhD	Persistence in Doctoral Programs: A Test of a Theoretical Model at a Hispanic Serving Institution
Bradley Varley, MA	Subtle Parallels and Violent Differences: Comparing Crime in Canada and the United States

The graduate program in Sociology continued to make progress with twelve new admissions and for 2004/05. Out of those admitted, seven students joined the program with six being supported during their first semester on GA/TA assistantships. The Sociology Graduate Student Association (SGSA) remained active with Brad Varley and Sophia Hammett serving as copresidents, Billy Ulibarrí serving as treasurer and Tom Maestas serving as secretary.

Graduate Awards

Jason Ben-Meir received the UNM International Excellence Award for outstanding contributions to international education and programs.

Betsy Erbaugh received a Research, Project and Travel Grant from the UNM Office of Graduate Studies. She was also the recipient of both the Graduate Research Development Fund Grant and the Student Research Allocations Committee Grant from the UNM Graduate and Professional Student Association for 2003.

Marjorie Hudson received and SRAC grant to conduct preliminary research in Panama in September 2003. She was then awarded a travel grant through the Office of Graduate Studies and High Priority Graduate Research Development funding to conduct data collection in Chile and Panama.

Billy Ulibarrí received both a Research and Project Travel (RPT) Grant and a Graduate Research Development (GRD) Grant.

Gloria Vaquera was the recipient of a Lumina Foundation Dissertation Fellowship awarded by the Association for Studies on Higher Education. She also received the Raza Excellence Award given by El Centro de la Raza for outstanding student service to the Raza community at UNM.

Graduate Student Presentations

Crandall, Cameron, Lisa Broidy, Jerry Daday, and David Sklar. 2004. "Examining ED use and arrest histories to identify patients at risk for serious violence: A case control study." Poster presentation at the 7th World Injury Conference held in Vienna, Austria. June.

Daday, Jerry, Lisa Broidy, and Cameron Crandall. 2003. "Victim/Offender Relationships at the Ecological and Individual Level." Paper presented at the American Society of Criminology Conference held in Denver, CO. November.

Cameron Crandall, Peter Jost, David P. Sklar, Lisa Broidy, and Jerry Daday. 2003. "About to Get Killed: Increasing Use of the Emergency Department among Homicide Victims and Perpetrators." Paper presented at the American Public Health Association Conference held in San Francisco, CA. November.

Derkas, Erika. 2004a. "Bio-power, Reproductive Technologies and the Female Body." Paper presented at the Pacific Sociological Association held in San Francisco, CA. April.

----. 2004b. "A CRACK in the strategy." Paper presented at the National Strategy Session to Stop CRACK. March.

-----. 2003a. "Robbing Marginalized Women of their Fertility: CRACK and Population Control." Paper presented at the Sister Song Women of Color and Reproductive and Sexual Rights Conference. October.

-----. 2003b. "Criminalizing Women's Bodies: The Politics of Reproductive Rights." Society for the Study of Social Problems. October.

----. 2003c. "Neo-Colonization of the Womb: CRACK something for sale." Cultural Diversity in a Globalizing World Conference. Fall.

----. 2003d. "Neo-Colonization and Family Planning in the developing world." National Women's Studies Association. July.

Erbaugh, Betsy. 2004. Presenter, Workshop on Teaching Sexuality Topics, Feminist Research Institute, University of New Mexico. April.

----. 2003a. "Community Organizing to End Violence in LBTIQ Women's Families." Society for the Study of Social Problems Annual Meeting held in Atlanta, GA. August.

-----. 2003b. "Sexuality and Organizing to End Violence Against LBTIQ Women." Roundtable presentation at the American Sociological Association Annual Meeting held in Atlanta, GA. 2003.

Lechuga, Chalane. 2004. "Uncovering the Factors that Influence the Identity of Non-Spanish-Speaking Chicanas." Paper presented at the National Association for Chicana and Chicano Studies (NACCS) Conference. April.

Nicdao, E. G. 2004. "Mental Health Care Delivery in a Rural Setting: Enacting cultural competence in clinical practice." Paper presented at the 4th Annual Society for Medical Anthropology/Society for Applied Anthropology Conference in Dallas, TX. April 2.

----. 2003. "Challenges To Mental Health Care Delivery for Case Managers & Counselors in Rural Settings: A Case Study." Paper presented at the American Sociological Association Annual Meeting in Atlanta, GA. August 16.

Ulibarrí, Billy. 2004. "Una Fuerza Increible: The Disconnect between HIV Prevention and Sexuality in Mexico." Paper presented at the Graduate Student Conference of Latin American Public and Social Policy. University of Pittsburgh. February 4-5.

Vaquera, Gloria. 2004. "Examining the Factors of Doctoral Student Departure Among Hispanics and Non-Hispanic Whites." Paper presented at the National Association of Chicana/Chicano Studies held in Albuquerque, NM.

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Wylupski, Warren. 2004. Evaluating Police Status Roundtable discussant. Presented at the Academy of Criminal Justice Sciences Annual Meeting in Las Vegas, NV. March.

----... 2003. Evaluating Police Professional Status Roundtable discussant. Presented at the American Society of Criminology Annual Meeting in Denver, CO. November.

Graduate Student Publications

Derkas, Erika. 2003. "Criminalizing Women's Bodies: The Politics of Reproductive Rights." Pro Bono: Newsletter of the Law and Society Division of the Society for the Study of Social Problems 10(1).

Other

Wayne Pitts (PhD in Sociology, 2003), left his position as a principal investigator at the Institute for Social Research to accept an assistant professorship at the School of Urban Affairs and Public Policy in the Department of Criminal Justice and Criminology at the University of Memphis.

Marie Clevenger (PhD in Sociology, 2003), is currently engaged in post-doctoral research at the Institute for Social Research.

D. Appointments

Dr. Susan Tiano continued to serve as Chair of the Sociology Department.

Dr. Bert Useem continued to serve as the Director of the Institute for Social Research (ISR).

Dr. Nelson Valdés began serving as both a Visiting Professor, Department of Sociology, Duke University and as the Assistant to the Vice Provost for International Affairs, Duke University. He also became the Executive Director of Fundación Amistad at Duke University.

E. Leaves of Absence, Sabbaticals, Departures

Dr. Felipe Gonzales was on sabbatical during the 2003-2004 academic year.

Jennifer Nelson, the undergraduate academic advisor, left the department in June 2003 to accept a position at a private firm and to complete her studies in community and regional planning.

Dr. Nelson Valdés was on a research semester at Duke University during the fall semester 2003.

Annual Report Institute for Social Research, 2003-2004

Prepared by Bert Useem and Terresita Saenz

The Institute for Social Research is a unit within the Department of Sociology. Its mission is to promote and help carry out funded research, while providing an intellectual training ground for both graduate and undergraduate students.

Personnel Changes at ISR

Dr. Bert Useem, Professor of Sociology, continues to serve as the Director of ISR, a position he has held since 1999.

ISR's front office faced difficult circumstances this year, but our personnel met the challenges admirably. Ms. Judith Bernhard, office administrator, was hospitalized for most of this period. Ms. Terresita Saenz, who had been serving in the role of Accounting Technician, took over her duties. She learned the position quickly, and performed all duties with great care and efficiency. Two extremely able students assisted her. Because of Ms. Bernhard's continued illness, she decided to retire from the University.

Principal Investigator Dr. Wayne Pitts accepted a tenure track position at the University of Memphis. Dr. Pitts had received his Ph.D. from UNM's Sociology Department and, prior to this, had worked as a graduate assistant at ISR. His successful transition from graduate student to ISR PI, and then to an assistant professor illuminates an important role that ISR may play for UNM graduate students.

Dr. Jerry Daday accepted a position as an assistant professor in the Department of Sociology at Western Kentucky University. As a graduate student, Dr. Daday worked at ISR with Dr. Paul Steele and Dr. Lisa Broidy. Dr. Daday received his Ph.D. in Sociology.

Dr. Roberto A. Ibarra joined ISR as a Principle Investigator. Dr. Ibarra is the Special Assistant to the Provost for Diversity Initiatives, and Associate Professor of Sociology. Dr. Ibarra brings to the Institute a Ford Foundation grant, which seeks to enhance academic culture through increased campus diversity. The project involves a consortium of four southwestern universities. Dr. Ibarra is the author of "Beyond Affirmative Action: Reframing the Context of Higher Education."

Mr. Tony Ortiz and Mr. Randall Cherry joined ISR as senior attorneys associated with the NM Sentencing Commission. Mr. Ortiz was appointed Deputy Director of the Commission, and Mr. Cherry was appointed as a staff attorney for the Commission's Sexual Offender Management Board. Prior to joining ISR, Mr. Ortiz had been a senior bill writer for the NM Legislative Council Service and was responsible for the drafting of all criminal and juvenile justice legislation. Mr. Cherry had worked in a number of public law positions. Most recently he served as senior Senate majority bill analyst in the NM Legislature and, prior to that, he was General Counsel to the Republic of Micronesia. Dr. Marie Clevenger joined ISR as Post-Doctoral Fellow, following the receipt of her Ph.D. from the Sociology Department. She is working with Dr. Ibarra on educational diversity issues and Dr. Steele on outcomes assessment issues.

ISR's Financial Growth

ISR's contribution has experienced significant growth over the last-decade. This is reflected in the F&A it has been able to generate and the amounts of funding award.

Year	Total amount F&A
1993	\$40,915
1994	68,534
1995	61,431
1996	100,431
1997	127,000
1998	148,000
1999	202,000
2000	232,000
2001	202,000
2002	206,000
2003	194,887
Year	Total Award To ISR
1997	\$1,034,420
1998	1,304,409
1999	1,991,400
2000	1,621,506
2001	1,218,604
2002	1,089,127
2003	1,263,033

Centers

The institute is organized around four centers:

- The Center for Education Research (CER) is the newest center at the Institute for Social Research. It was formed to incorporate the ongoing research begun by Dr. Richard Boyle in which children who attended public child development programs in Albuquerque are tracked as they advance through Albuquerque Public Schools. Dr. Aki Roberts has joined Dr. Boyle in maintaining this project and developing and expanding its research potential.

- The Center for Applied Research and Analysis (CARA) provides evaluation research, basic applied research, training, and technical assistance under multiple projects. CARA's goals are to contribute to the social sciences focusing on the criminal justice system and to provide an atmosphere that strengthens the links between research and education, especially by providing research experience for graduate and undergraduate students. Dr. Paul Guerin directs CARA. CARA employs graduate and undergraduate students from a variety of fields. These staff members serve as project managers, interviewers, writers, data collectors/entry, data analysts, and administrative personnel.

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- The New Mexico Criminal Justice Analysis Center (CJAC), directed by Dr. Paul Steele, conducts basic and applied social science research concerning the causes of crime, its relationship to other social concerns, and efforts of the criminal justice system and other social institutions to control crime, through prevention and intervention activities.

- The New Mexico Sentencing Commission, a state agency, studies, compiles and releases data on the effects of criminal sentencing on state resources, programs and citizens. The 23-member bipartisan Commission has representation from corrections, law enforcement, juvenile, legal, judicial and legislative agencies. Mr. Michael Hall is the Executive Director. The Commission reports annually to the state legislature on the fiscal and societal impact of sentencing and the need for further reforms.

Principal Investigators

Dr. Lisa Broidy Dr. Aki Roberts Dr. Paul Guerin Mr. Michael Hall Dr. Roberto Ibarra Dr. Paul Steele Dr. Bert Useem Dr. Timothy Wadsworth (grants pending) Dr. John Roberts (grant pending)

Students Working at ISR

Name	University Standing	Project
Alissa Bandy	Undergraduate	NMSC
Joseph Chacon	Undergraduate	CARA
Shannon Chang	Graduate	Front Office
Nell Damon	Graduate	CJAC
Bria Day	Undergraduate	Front Office
Kerry Edwards	Graduate	CJAC
Mark Gonzales	Undergraduate	CARA
Vikas Hamine	Graduate	CARA
Anthony Herrera	Undergraduate	CARA
Erin Hielkema	Graduate	NMSC
Monica Jaramillo	Undergraduate	CARA
Slaim Khayoumi	Undergraduate	CJAC
Anand Krishnamurthy	Graduate	NMSC/CARA
Justin Landis	Undergraduate	Front Office
Wei Wei Liu	Graduate	NIBRS*
Kristopher Looney	Undergraduate	CARA
Amanda Lucero	Undergraduate	CARA

WD+

Oifeng Luo Meghan Maes Kristin McPeek Christopher Miller Donna Navarette Karen Ochsankehl Colin Olson Martin D. Otero Lisa Ortiz John Paiz Rebel Palm-Aitchison Japho Perea Stephen Colby Phillips Lymicca Pierre Jack Pullikottil Nalani Ouinn Brian Ramirez Vanessa Salazar Shaundra Sanders Teresa Schellhamer Kristin Seewald Amanda Sims Cynthia Torres Laura Krystle Vega Bradley Varley Elise Vigil Elizabeth Wright Sarah Young

Graduate Undergraduate Undergraduate Undergraduate Graduate Graduate Graduate Undergraduate Undergraduate Undergraduate Graduate Undergraduate Graduate Undergraduate Graduate Graduate Undergraduate Undergraduate Undergraduate Graduate Undergraduate Undergraduate Undergraduate Undergraduate Graduate Undergraduate Undergraduate Undergraduate

CARA NMSC CARA CARA CARA/Ford NMSC CJAC CARA CJAC CARA CER CARA NMSC Front Office CARA CARA CARA CJAC CARA CJAC CARA CJAC CARA NMSC NIBRS* CARA CARA

CARA

*With Dr. Aki Roberts

DEPARTMENT OF SPANISH AND PORTUGUESE

CHAIR: TEY DIANA REBOLLEDO

DEPARTMENT ADMINISTRATOR: ROSARIO JOHNSON

ANNUAL REPORT

JULY 1, 2003 - JUNE 30, 2004

I. TEACHING FACULTY AND STAFF

A. TENURED AND TENURE TRACK FACULTY

Spanish

Anthony J. Cárdenas-Rotunno	Professor
Enrique Lamadrid	Professor
Tey Diana Rebolledo	Professor
Kimberle López	Associate Professor
Judy Maloof	Associate Professor
Susan Rivera	Associate Professor
Alejandra Balestra	Assistant Professor
Miguel López	Assistant Professor
Kathryn McKnight	Assistant Professor
Eleuterio Santiago-Díaz	Assistant Professor
Rena Torres Cacoullos	Assistant Professor
Catherine Travis	Assistant Professor
María Dolores Gonzales	Lecturer III

Portuguese

Margo Milleret

Associate Professor

B. VISITING PROFESSORS

Ricardo Paiva

Joaquín Garrido

C. LECTURERS

Patricia Rosas-Lopátegui

Roxanne Hale

D. EMERITUS PROFESSORS

John Bergen

Garland Bills

Rubén Cobos

Pelayo Fernández

Rosa Fernández

Dick Gerdes

Ángel González

Erlinda Gonzales-Berry

Tamara Holzapfel

Raymond MacCurdy

Alfred Rodríguez

Jon Tolman

E. TEACHING ASSISTANTS

Ph.D.

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Erin Amason	Loreto Catoira	Carmen Holguín-Chaparro
Matthew Alba	Patricia Catoira	Benito Quintana
Melba Amador	Jens Clegg	Shelli Rottschafer
José Bañuelos	Mary Copple	Michelle Salazar
Beth Bernstein	Maria de Abajo	Theodore Walker
David Briggs	Miguel Ángel Estrada	Mark Waltermire
Esther Brown	José Esteban Hernández	Damián Vergara Wilson
Verónica Calvillo	Spencer Herrera	

M.A. Spanish

Zuheil Alvarez	Kiley Guyton	Rosalba Ramírez
Kathleen Cunniffe (LAII)	Valerie Medina	Blanca Rodríguez
Jennifer Dumont	Alejandro Nuñez	Rita Osipyan Schexnayder
Jessica Foley	Dorothea Odom	Silvia Soto
Soledad García-King	Manuel Ostos	Naomi Todd (LAII)
Duane Garrett	Takako Otsuki	Lauren Wellman
Lillian Gorman	Isabelle Petit	Chavaleh Wetzel
Sara Vicuña Guengerich	José Quintana	

M.A. Portuguese

Valico Romualdo	Agripino Souza Silveíra
-----------------	-------------------------

José Alejandro G. Sousa

ARTS AND SCIENCES INTERDEPARTMENTAL TEACHING ASSISTANTS

Orlando Andrade	Latin American Iberian Institute
Wendy Braun	Latin American Iberian Institute
Douglas Deane	Latin American Iberian Institute
Tali Gluch	Political Science
Katie Knutson	Latin American Iberian Institute
Michael McGovern	Latin American Iberian Institute
Patrick Staib	Anthropology
John Tingey	Anthropology
Gregory Zaro	Anthropology

F. OFFICE STAFF

Rosario Johnson	Department Administrator II	
Martha Hurd	Graduate Administrative Assistant II	
Maríafelix Treviño	Language Instruction Administrative Assistant II	
Katharine E. Merrill	Department Administrative Assistant I	

G. WORK STUDY STAFF

Paola Ferreira Natalia Jimenez Ari Muñoz Daniel Noriega-Lucero Rosalinda Olivas

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H. DEGREES AWARDED

Summer 2003

PH.D. IN ROMANCE LANGUAGES - SPANISH AND PORTUGUESE

Stephanie Becker,

Dissertation title: Perversions of Romance: A Look at Love in Fiction and Film by

Mexicanas and Chicanas.

B.A., SECOND MAJOR IN SPANISH

Monica Trujillo

Fall 2003

MASTER OF ARTS IN SPANISH

Stuart Griffith	Margaret Keller	Dorothea Odom
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BACHELOR OF ARTS IN SPANISH, MAJOR

Gina L. nei veit Stephante L. Levin	Gina L. Herbert	Stephanie L. Levine
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Kristin Leigh Overman Treva Brooke Pierce

B.A., SECOND MAJOR IN SPANISH

Jesse K. Loper	Karla Leanne Lucero	Antonio Lord Nuñez
Rogelio Ortiz	Manuel Ostos	Jonathon Palmer
Rodrigo Pimentel	Adria Cristina Scharmen	Daniel Sonnenberg
Emily Jean Stoddard	Izaac Ruben Tajan	Lissa G. Vigil
D.C. Oberein M. rep of Co. North		

B.S., SECOND MAJOR IN SPANISH

Paul Matthew Delgado Fatima de los Angele Gutierrez

Spring 2004

MASTER OF ARTS IN SPANISH

Jennifer Dumont	Sara Vicuña Guengerich	Manuel Ostos
Jessica Foley	Heidi Harting-Rex	José Quintana
Lillian Gorman		
BACHELOR OF ART IN SP	ANISH, MAJOR	
Lucy Boyadjian	Rachel Johnston	Rebecca Martínez
Junro Narita	María Ruiz-Fábrega	Gabriela Rodriguez
José V. Sánchez	Rachel Steele	
B.A., SECOND MAJOR IN	Spanish	
Stephanie Bofman	Melissa Caughey	Terrance J. Cook
Juan Escobar	Rene Carrillo Fernández	Lisa Garcia
Julia Gilroy	Elizabeth T. Gonzales	Desiree Nichole Perea
Azucena Rascón	Gregory Schneeberger	Pedro S. Torres
Brandon Walters		

B.S., SECOND MAJOR IN SPANISH

Elena Bissell

Rachel Lacy

Sara Metheny

II. COURSES OFFERED

A. SUMMER 2003

Spanish

	:	Number of Sections	Number of Credit hrs.
	101 Elementary Spanish	5	270
	102 Elementary Spanish	2	90
	201 Intermediate Spanish	1	42
	202 Intermediate Spanish	1	75
	203 Spanish Conversation	1	12
	301 T/ Spanish Language Contac	t 1	57
	301 T/ From Spain to Española	1	27
	301 T/ Films/Trips/Culture	1	45
	301 T/Culture and Politics of Spa	ain 2	33
	302 Spanish Writing Skills	1	45
	429 T/Spanish Culture and Lit	1	24
	497 Undergrad Problems	3	21
	551 Graduate Problems	3	9
	629 S/Viejas y Diablos	1	18
	699 Dissertation	3	24
Portuguese			
	202 Intermediate Portuguese	1	30
	335 Brazilian Popular Culture	1	18
	497 Undergrad Problems	1	3

B. FALL 2003

Spanish

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101 Elementary Spanish	35	2511
102 Elementary Spanish	10	657
103 Elem Spanish Conversation	1	20
111 Elementary Spanish SHL	7	399
112 Elementary Spanish SHL	5	315
201 Intermediate Spanish	10	708
202 Intermediate Spanish	7	432
211 Intermediate Spanish SHL	5	393
212 Intermediate Spanish SHL	4	279
275 Accelerated Begin Span	1	90
301 T/Latin Amer Cult Themes	2	153
301 T/Fantistic Mex Pan	2	174
301 T/Hispanic Culture in Carib	2	141
301 T/Latin American Film	1	78
301 T/Mitos de España	2	162
301 T/Spanish Bilingualism	1	78
301 T/NM Cult thru Film	1	39
301 T/Mexico 20 th Culture	1	72
302 Develop Span Writing Skills	5	294
307 Intro Hispanic Literature	3	255
350 Spanish Phonetics	1	75

351 Intro Spanish Language	1	81
352 Advance Grammar	2	165
411 Survey of Span Literature I	1 1	78
431 Span Am Literature Survey I	1	75
439 T/La Vida Loca	1	90
439 T/Cuba/Mexico Gender/Race	1	75
479 T/US Latino Literature	1	48
497 Undergrad Problems	1	9
502 Pro-sem Resch CRMTH	1	42
519 Medieval Literature	1	27
522 Sem/Spanish Poetry	1	27
532 S/ Central American Narrative	1	36
541 Research Methods-Teachers	1	39
546 Sem/Sociolinguistics	1	18
547 Sem. Southwest Spanish	1	45
549 Recent Research for Teachers	1	9
551 Graduate Problems	4	11
578 T/US Latino Literature	1	30
579 T/Ethnopoetics	1	33
633 Cont Spanish American Poetry	1	18
699 Dissertation	8	138

Portuguese

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	275 Intens Begin Portuguese	2	210
	276 Intens Interm Portuguese	1. 1	60
	311 Advanced Comp/Conversation	1	48
	415 Popular Brazilian Music	1	33
	457 Brazilian Lit Survey I	1	21
	497 Undergrad Problems	1	3
	511 Advanced Comp/Conversation	1	18
	515 Popular Brazilian Music	1	15
	557 Brazilian Literature Survey I	1	б
	570 Comparing Women Dramatists	1	33
	599 Masters Thesis	1	7
C. Spring 2004			
Spanish			
	101 Elementary Spanish	27	2007
	101 Elementary Spanish UNM West	1	15
	102 Elementary Spanish	13	843
	104 Elem Spanish Conversation	1	25
	111 Elementary Spanish SHL	3	204
	112 Elementary Spanish SHL	6	282

201 Intermediate Spanish9426202 Intermediate Spanish7477211 Intermediate Spanish SHL4270

617

212 Intermediate Spanish SHL	4	294
276 Accel Intermed Spanish	1	120
301 T/Panorama Cult Mexico	2	168
301 T/Cuentos de America	2	159
301 T/Cult/Revol Latin America	2	135
301 T/Caribbean Culture	1	72
301 T/Temas Cult LA II	2	144
301 T/ Frontpage Legends	2	141
301 T/AfroLatino Music & Soc	1	66
302 Develop Span Writing Skills	6	381
307 Intro Hispanic Literature	3	246
350 Spanish Phonetics	2	153
352 Advanced Grammar	2	159
370 Survey Chicano Literature	1	45
371 Spanish of the Southwest	1	54
412 Survey Span Literature II	1	84
423 Cervantes-Quijote	1	63
429 T/Medieval Legacy	1	42
429 T/Journey to Santiago	1	72
430 Spanish American Short Story	1	72
432 Span Am Lit Survey II	1	57
439 T/Sacred Journeys	1	69
439 T/Sociolinguistics & Gender	1	48

619

	479 T/SW Hispanic Literature	1	18
	497 Undergrad Problems	1	38
n gyfrangel o gan me	515 Medieval Paleograph	1	9
	529 Spanish Post-War Novel	1	21
	549 S/Spanish-English Bilingual	1	15
	549 S/Functional Syntax	1	21
	549 S/ Sociolinguistics & Gender	1	42
	551 Graduate Problems	б	20
	578 T/SW Hispanic Literature	1	39
	629 S/Medieval Legacy	1	9
	629 S/19 th Century Pen Span Novel	1	27
	639 S/Sacred Journeys	1	15
	639 Paleography	1	9
	639 S/ Novela Indigenista	1	33
	639 Lit of Spanish Caribbean	1	27
	699 Dissertation	8	168
Portuguese			
	275 Intens Begin Portuguese	2	150
	276 Intens Interm Portuguese	1	78
	417 Pop Brazilian Music II	1	45
	458 Brazilian Lit Survey II	1	18
	517 Pop Brazilian Music II	1	33
	558 Brazilian Lit Survey II	1	9

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561 Hist of Portuguese Language	1	21
599 Masters Thesis	1	2
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III. DEPARTMENTAL HIGHLIGHTS

The Department of Spanish and Portuguese was quite active in terms of scholarship, teaching and service during the academic year. We sponsored several national conferences, such as the 7th Hispanic Linguistic Symposium and the 6th Conference on the Acquisition of Spanish and Portuguese as First and Second Languages along with our 12th Annual Conference on Ibero-American Culture and Society. This conference was well attended with a total of 83 presentations. The keynote speakers were noted linguists from Mexico and Spain as well as the United States. Our department was a sponsor and site coordinator for the National Association of Chicana and Chicano Studies Conference held in April. This conference brought scholars and students of Chicana and Chicano Studies to Albuquerque as well as to the campus. A reception and artistic performances were held in Zimmerman Library as well as the Student Union Building. A third important conference was the annual meeting of the Association of Chairs of Departments of Foreign Languages of the Modern Language Association. This meeting was sponsored by the Department with help from the Department of Foreign Languages and Literatures and brought together Chairs of Language Departments from across the country in very productive discussions about languages. We also had considerable interdisciplinary outreach across departments and Institutes within UNM such as LAII where several faculty members serve on the Executive Committee as well as various Institute committees (Grants and Awards and ICLAS). We are also involved in cooperative ventures with the Southwest Hispanic Research Institute as well as Chicano Studies. We sponsored many events in the department, which included lectures by eminent researchers and scholars from around the world, play performances by students and faculty as well as several productions of plays by outside theater groups including "Los Pastores" and "El muerto disimulado" from Brigham Young University's Golden Age Theater Project. In addition to sponsoring literary discussions and linguistic colloquia we also sponsored community activism in solidarity with the Disappeared Women in Juarez.

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Several faculty members received national awards as well as recognition by the University of New Mexico academic community. I received the Distinguished Professor Award from the Division on Chicana and Chicano Literature of the Modern Language Association, Professor Enrique Lamadrid received a National Endowment for the Humanities Fellowship, and Professor María Dolores Gonzales received the Faculty Student Service Award from UNM. We were also the recipients of a Visiting Fullbright Scholar Award which was postponed until next year.

We conducted a search for an Assistant Professor of Portuguese to replace Dr. Jon Tolman who retired several years ago. Fortunately we were able to hire Dr. Leila Lehnen from the University of Colorado. Despite the fact that the department has been unable to fill various other vacant positions, such as in Peninsular literature, the department faculty has a large number of graduate students studying Hispanic literature, culture and linguistics. We have had a steady increase in the number of students in our basic language courses, and also in our intermediate Spanish courses - all largely taught by Graduate Teaching Assistants and ABDs. As a consequence the number of our Spanish majors and double majors is increasing. Our Sabine Ulibarrí Spanish as a Heritage Language program is flourishing. The Placement Test to separate out heritage language speakers is working well and the number in these classes is increasing. We hope that this program is contributing significantly to the retention of New Mexican heritage speaking students at the University. Moreover, there has been considerable interest on the part of other academic entities outside of UNM in the program. We have several departments who want to purchase the placement test to use in their programs, and our Heritage Language coordinator, Dr. María Dolores Gonzales, is working as a consultant to programs at Highlands University and at Santa Fe Community College.

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Our faculty has been working diligently to close the proficiency gap between our 200 level classes and our 300 level classes. We are in the process of analyzing different approaches to the problem, such as adding an extra hour to beginning Spanish classes, tightening up the beginning level curriculum, and introducing more reading and writing into the 202 and 212 level classes.

It has been a productive year with faculty working closely together for the benefit of our students. Moreover, in terms of research, our faculty has been actively publishing book chapters, articles and reviews and giving professional talks at conferences and symposium nationwide. Similarly, a significant number of graduate students have read papers at conferences and published articles and books, indicating a growing awareness of the importance of these professional meetings. However, the absence of a faculty member in Peninsular literature is impacting our program as is the need for an additional faculty member in Linguistics. We hope that we will be able to replace these positions in the near future.

Our department continues to be involved in community activities. We participated in Language Expo in which more than a thousand high school students came to the University in March, 2004 as well as in the International Students Fair, Find Your Major Fair, and other events of interest to students. Our Spanish Club is newly established and flourishing with more than 200 students who have taken part in its activities.

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All in all, the Department had a lively and productive year of research, teaching and service.

A. STAFF CHANGES

Martha L. Hurd was promoted to an Administrative Assistant II position. Mariafelíx Treviño was hired as the Language Instruction Program's Administrative Assistant II

B. AWARDS

PROFESSORS

María Dolores Gonzales received the Faculty, Student Service Award, March 2004.

Tey Diana Rebolledo was noted in "Mujeres de Distinction," <u>The Hispanic Outlook in</u> <u>Higher Education</u>, February 23, 2004, Vol. 14. No. 10, 10-17.

Tey Diana Rebolledo received the Distinguished Professor, 2003 from the Modern Language Association's Division on Chicana/o Literature.

GRADUATE STUDENTS

Melba Amador, ABD:

 Hispanic Scholarship Award Recipient, \$2500, April, 2004: National Hispanic Scholarship Fund.

• Research, Project and Travel Grant, University of New Mexico, \$250, Spring 2004: Funding to attend the 24th Louisiana Conference on Hispanic Languages and Literatures, Louisiana State University, Baton Rouge, LA, February 19-21, 2004.

• Specialized Travel Grant, University of New Mexico, \$200, Fall 2003: Funding to attend MLA in December.

Lillian Gorman received the Center for the Advancement of Scholarship in Teaching and Learning 2004 Outstanding Teaching Assistant Award.

Loreto Catoira received the Who's Who Among Students in American Universities and Colleges on December 19, 2003. It is a national award that recognizes students' service to the university community and their activities outside the academic setting.

D. PROFESSORS WHO HAVE PASSED

Marshall Nason

IV. DEPARTMENTAL ACTIVITIES

A. EVENTS

The Spanish Club established Fall 2003.

Founder and president, Loreto Catoira (PhD student) established the club to celebrate and promote awareness and appreciation of the Spanish language and its speakers. The club has over 300 members and has sponsored a film series, poetry readings and lectures, amongst other activities, and has co-sponsored several of the department's events. "Veinte siglos después del homicido: el apocalipsis de Vieques según Carmelo Rodríquez Torres" September 26, 2003.

As guest lecturer for the Solas Brown Bag Lecture Series, Professor Eleuterio Santiago-Díaz's presentation focused on the crisis of Vieques, Puerto Rico, as represented in the narrative of Carmelo Rodríquez Torres. Presented at and sponsored by the Latin American and Iberian Institute.

The Department of Spanish and Portugueses' 12th Annual Conference on Ibero-American Culture and Society: "The 7th Hispanic Linguistic Symposium and the 6th Conference on the Acquisition of Spanish and Portuguese as First and Second Languages." October 16 – 18, 2003.

A total of 83 presentations were delivered by over 100 professors and graduate students. Held in the Student Union Building.

The Spanish and Portuguese Graduate Student Association's 12th Annual ¡Baila! October 17, 2003. In association with the conference, the fundraiser was held in the New Mexico Ballroom at the Albuquerque Hilton.

"Mexican Cinema and the Border" October 24, 2003.

This lecture was presented by Dr. Rubén Sandoval from the Universidad Autónoma de Baja California Sur. Sponsored by the Department of Spanish and Portuguese and held in the Ortega Hall Reading Room.

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"Ciclo de cine ecuatoriano: La huella de lo audiovisual en la cultura." Contemporary Ecuadorian Cinema Film Series. November 17 – 20, 2003.

Discussions followed the films lead by guest speaker Dr. Gabriela Alemán, Ecuadorian writer and film scholar, from the Universidad Andina Simón Bolívar, Ecuador. Professor Eleuterio Santiago-Díaz coordinated this event which was co-sponsored by the Department of Spanish and Portuguese and the Latin American and Iberian Institute. Presented in room 202 of Mitchell Hall.

Literary Recital: Homage to the Life and Work of Elena Garro, November 17, 2003. Graduate and undergraduate Spanish students performed literary works by the Mexican writer Elena Garro in the Ortega Hall Reading Room. This event was organized by Prof. Tey Diana Rebolledo and producer, Loreto Catoira and was co-sponsored by the Spanish Club.

International Festival. November 19, 2003.

This festival of cultures with music, food and dances from around the world was organized by the Office of International Programs and took place in the Johnson Auxiliary Gym. Students from the Spanish Club and the department participated by representing Hispanic societies. Their activities were co-organized by Ph.D. student Loreto Catoira and the Spanish Club.

"La expresión del tiempo futuro en el español de California en el siglo XIX." November 20, 2003. Presented by Professor Alejandra Balestra as part of the Southwest Hispanic Research Institutes Fall Tertulias Series. Held in the Willard Reading Room, Zimmerman Library.

"Los Pastores - The New Mexican Shepherds Play." December 3, 2003.

Performed by the Grupo Sangre de Cristo de Taos at the UNM Alumni Chapel. Sponsored by UNM Chicano Studies Program, the Department of Spanish and Portuguese and "Lo Maduro de la Cultura" (Department of Cultural – City of Albuquerque).

"San Millán de la Cogolla: El Lugar de la Palabra." December 5, 2003.

Presented by Claudio García Turza and Javier García Turza from the Universidad de la Rioja. Sponsored by the Spanish Ministry of Education, UNM's Department of Spanish and Portuguese, and Division of Continuing Education, and the Instituto Cervantes. Held in the Ortega Hall Reading Room.

"Connection and connectives: a crossroad between forms and functions." December 5, 2003. Presented by Salvador Pons Bordería from the Universidad de Valencia. This event was sponsored by the Instituto Cervantes and the Department of Spanish and Portuguese and held in room 128 of Dane Smith Hall.

Spanish 439 – Cuban /Mexican Gender and Race - Student Performances and Poetry Readings. December 8 and 10, 2003. Professor Patricia Rosas-Lopátegui coordinated her student's public performances of works by Elena Garro, Sue Rivera, Ramón García, Rosario Castellanos, Margarita Coto-Cárdenas, Alfonsina Storni and José Martí in room 153 of Ortega Hall.

450 Dead or Missing – Students for the Woman of Juárez. December 12, 2003. Professor Miguel López is the faculty representative for the Honor student's group Justicia sin Fronteras that sponsored this forum which addressed the disappearance and/or murder of over 450 women from Ciudad Juárez. Held in Acoma rooms A and B of the Student Union Building. Funded by a \$2,500.00 grant from the Dean of Arts and Science.

Comparing Women Dramatists, Portuguese 570 – Graduate student performances. December 12, 2003. Professor Margo Milleret coordinated the presentation of two plays by Brazilian Isis Bajão which were translated into Spanish, a third play by Brazilian Leilah Assuncao that was adapted and translated into English, and the fourth play by Dolores Prida which was read in Spanish. The plays presented unexpected representations of Latin American women which are surprising and entertaining looks at male-female relations, aging and identity.

Sociolinguistics: Linguistic ideology vs. language use, Spanish 546 - Graduate student symposium. December 12, 2003. Professor Rena Torres Cacoullos coordinated the presentation of her student's papers. Participants included Michelle Salazar, Jennifer Dumont, Earl Brown, Jessi Aaron, Volya Kapatsinski, Elisabeth Hein, Jenny Halpern, and Heather Cowan.

"Contemporary Brazilian Culture: Tupy or Not Tupy, Closing the Gap Between High and Low." February 3, 2004. Presented by Professor Cacilda Rêgo of the University of Texas at Austin as a candidate for the Portuguese faculty position. Held in the Ortega Hall Reading Room.

"Questionable Genealogy: History and Nation in Ana Miranda's <u>Desmundo</u>." February 10, 2004. Presented by Professor Leila Lehnen from the University of Colorado at Boulder as a candidate for the Portuguese faculty position. Held in the Ortega Hall Reading Room.

"Human and Divine Justice in Two Cinematic Autos Sacramentais: 'Auto da Compadecida' and 'Dogma.'" February 12, 2004. Presented by Professor Mark Alan Lokensgard of St. Mary's University, San Antonio, Texas as a candidate for the Portuguese faculty position. Held in the Ortega Hall Reading Room.

Performance of the play "El muerto disimulado." March 3, 2004.

Students from Brigham Young University's Golden Age Theater Project performed this seventeenth century play written by Angela de Azevedo, a lady-in-waiting for Queen Isabel de Borbón, wife of Philip IV. The play was performed in the Student Union Theater and was co-organized by Professor Margo Milleret, and PhD student Loreto Catoira. Co-sponsored by the Spanish Club.

In Solidarity with las Mujeres Desaparecidas de Juárez. March 26, 2004.

This forum was organized by Professor Miguel López and UNM students with the sponsorship of UNM's Honors Program to raise awareness and support for family members of the disappeared. Participants included: Justicia sin Fronteras; Greg Bloom of Amigos de las Mujeres de Juárez and Editor of Frontera; Ester Chávez Cano, Director of Casa Amiga; Solidarity Across the Border; and Women of Juárez.

National Association of Chicano and Chicana Studies Annual Meeting. March 31 -April 4, 2004. The annual conference was held at the Hyatt Hotel in Albuquerque, New Mexico. Professors Enrique Lamadrid and Tey Diana Rebolledo served as Chair and Co-Chair (respectively) on the Site Committee.

An Overview of Language Recovery Efforts and Personal Language Experiences. April 14, 2004. Spanish as a Heritage Language Teaching Assistant, Lillian Gorman and SHL students presented Coloquio – Spanish as a Heritage Language students in Nicaragua, in room 153 of Ortega Hall.

"Señorita extraviada" a film by Lourdes Portillo. April 21, 2004.

The film was presented in the Student Union Ballroom for the Spanish as a Heritage Language Program's students. This fundraising event collected \$130.00 from student donations, which was sent to "Nuestras Hijas de Regreso a Casa" for the Women of Juárez. This event was organized by Spencer Herrera, ABD, and sponsored by the Spanish as a Heritage Language Program and coordinated with the student group, Justicia sin Fronteras.

Alfred Rodríguez Lecture Series. April 27, 2004.

Dr. Glenn Martínez from the University of Arizona presented "Genres and Genre Chains: Post-process Perspectives on Heritage Language Writing. Held in the Ortega Hall Reading Room.

Association of Departments of Foreign Languages (ADFL). June 2004.

Summer seminar for Chairs, Albuquerque and the University of New Mexico. Professor Tey Diana Rebolledo served as Site Coordinator.

Mirta Alejandra Balestra

"El tiempo futuro en el español de California, 1800-1930." Southwest Hispanic Research Institute, Fall 2003 Tertulia Series. November 20, 2003. Zimmerman Library, UNM.

Anthony J. Cárdenas-Rotunno

"Alfonso X's Cultural Legacy." University of Oklahoma. December 1, 2003. Norman, Oklahoma.

Kathryn McKnight

- "Blood Rituals in Cartagena de Indias (1634): Creoles, Angolans, Malenbas and Queen
 Leonor of the Palenque de Limón," (modified version) Symposium on "Enslavement
 and Colonialism in the Atlantic World," Miami University. April 2-3, 2004. Oxford and
 Hamilton, Ohio.
- "Blood Rituals in Cartagena de Indias (1634): Creoles, Angolans, Malenbas and Queen
 Leonor of the Palenque de Limón," this presentation focused on the problems of ethics
 and interdisciplinary scholarship. Presented to a Latin American history class, and the
 college community at Earlham College. April 1, 2004. Richmond, Indiana.

Susan Rivera

"Crítica literara frente a creación." Literatura española: Exploración de los géneros literarios. Universidad Complutense. July 21-25, 2003. El Escorial, Spain.

Eleuterio Santiago-Díaz

"Veinte siglos después del homicidio: La crisis de Vieques," invited by the Student

Organization for Latin American Studies, Latin American and Iberian Institute, University of New Mexico. September 26, 2003. Albuquerque, New Mexico. 1032

Rena Torres Cacoullos

Invited Lecturer for the Universidad Nacional Autónoma de México, curso de Postgrado: Cambio lingüístico y variación lingüística. May 24-31, 2004. Mexico City, Mexico.

C. FACULTY PUBLICATIONS

Miguel López

Book review:

La novela naturalista de Federico Gamboa, by Manuel Prendes Guardiola. Revista Iberoamericana, 70. 206 (2004): 298-99.

Judy Maloof

Book reviews:

- Telling to Live: Latina Feminist Testimonios by The Latina Feminist Group. The Arizona Journal of Hispanic Cultural Studies, Volume 6, (Winter 2003): 292-293.
- Tortilleras: Hispanic and U.S. Latina Lesbian Expression, edited by Lourdes Torres and Inmaculada Pertusa. Letras Femeninas, Volume 29, No. 2 (Winter 2003): 224-226.

Kathryn McKnight

Article in refereed scholarly journal article:

"The Diabolical Pacts of Slavery. The Stories of Two Mulatto Slaves before the Inquisition in New Spain." *Revista de Estudios Hispánicos* 37 (2003): 509-36.

Book chapter:

"<u>Vida y Afectos</u> de la madre Castillo," in *Yo con mi viveza. Textos de conquistadoras, monjas, brujas, poetas y otras mujeres de la colonia.* Edited by Luisa Campuzano and Catharina Vallejo, La Habana, Casa de las Américas, 2003. p. 121. [One-page introduction to a selection from Castillo's texts: pp. 122-26.]

Book review:

"Imagining Identity in New Spain: Race, Lineage, and the Colonial Body in Portraiture and Casta Paintings," by Magali M. Carrera in *Colonial Latin American Historical Review* (Albuquerque, New Mexico), vol. 11 no. 2 (Spring 2002), pp. 203-04. [published Fall 2003.]

Margo Milleret

Book chapters:

"Social Customs," in *Culture and Customs of Brazil*. Pp. 81-94. Ed. Jon S. Vincent.
Westport, CT: Greenwood Press, 2003.

 "Um Perigo no Palco: Mulher, Envelhecimento e Sexualidad," in *Passo e Compasso* nos Ritmos do Envelhecer. Pp. 155-164. Ed. Maria Jose Somerlate Barbosa. Porto
 Alegre, Brazil: Editora da Pontificia Universidade Católica, Rio Grande do Sul, 2003.

Tey Diana Rebolledo

Chapters in edited books:

- "Lucha Corpi," <u>Latino and Latina Writers</u>. Alan West-Durán, ed. New York: Charles Scribner's Sons, 2004, 251-268.
- · "Denise Chávez," Latino and Latina Writers. Alan West-Durán, ed. New York:

Charles Scribner's Sons, 2004, 209-228.

Susan Rivera

Selected conference proceedings:

"La poesía española del exilio: arma de guerra o canción de amor." *La cultura del exilio republicano español de 1939,* Volumen I, ed. Alicia Alted y Manuel Llusia. (Madrid: Universidad Nacional de Educación a Distancia, 2003), pp. 481-485. Conference: Sesenta años después. Universidad Nacional de Educación a Distancia. December, 1999. Madrid, Spain.

Book review:

"Luis Cernuda, 'Si el hombre pudiera decir". Los 140 mejores lectores de poesía escogen los poemas del siglo XX. (Madrid: Visor libros, 2003) pp. 484-487.

Eleuterio Santiago-Díaz

Book chapter:

"In Search of an Afro-Puerto Rican Chronicle: Contesting race, nation, and modernity," in Marvels of the African World: Cultural Patrimony, New World Connections, and Identities, Ed. Omoniyi Afolabi, Trenton, N.J.: Africa World Press, 2003, pp 485-515.

Rena Torres Cacoullos

Article in refereed journal article:

2003. Bare English-origin nouns in Spanish: Rates, constraints, and discourse functions. Language Variation and Change 15.3:287-326. Co-author: Jessi E. Aaron. [appeared: February 2004]

Selected conference proceedings:

(PWPL) 9.2: Selected Papers from NWAV 31, 159-172. Co- author: Jessi E.

Aaron. [appeared: October 2003]

• 2003. Spanish /s/: A different story from beginning (initial) to end (final). A Romance Perspective in Language Knowledge and Use. Selected Papers from the 31st Linguistic Symposium on Romance Languages (LSRL), Rafael Núñez-Cedeño, Luis López, and Richard Cameron (eds.), 22-38. Amsterdam/Philadelphia: John Benjamins. Coauthor: Esther L. Brown. [appeared: December 2003]

Catherine Travis

Non-selected conference proceedings:

2003. The emphatic *es* construction of Colombian Spanish. Proceedings of the 2003 Australian Linguistic Society Annual conference. (co-authored with Timothy Jowan Curnow); http://www.newcastle.edu.au/school/lang-media/news/als2003/proceedings.html 2003 Australian Linguistic Society Annual conference. University of Newcastle. September 26-28, 2003. Newcastle, NSW, Australia.

D. GRADUATE STUDENT PUBLICATIONS

Jessi Elana Aaron, ABD

Article in refereed journal article:

2003. Bare English-origin nouns in Spanish: Rates, constraints, and discourse functions. Language Variation and Change 15.3:287-326. Co-author: Rena Torres Cacoullos. [appeared: February 2004]

Selected conference proceedings:

2003. Determiner variation with English-origin nouns in New Mexican Spanish: Borrowing bare forms. University of Pennsylvania Working Papers in Linguistics (PWPL) 9.2: Selected Papers from NWAV 31, 159-172. Co- author: Rena Torres Cacoullos. [appeared: October 2003]

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Melba Amador, ABD

Non-selected conference proceedings:

"Racialized Identity: Perceptions of Body in 'The Story of My Body'." Proceedings of The Interpretation and Representations of Latino Culture: Research and Museums National Conference. November 2002. Smithsonian Center for Latino Initiatives. http://latino.si.edu/researchandmuseums/presentations/amador.html Spring 2004.

Esther L. Brown, PhD

Selected conference proceedings:

2003. Spanish /s/: A different story from beginning (initial) to end (final). A Romance Perspective in Language Knowledge and Use. Selected Papers from the 31st Linguistic Symposium on Romance Languages (LSRL), Rafael Núñez-Cedeño, Luis López, and Richard Cameron (eds.), 22-38. Amsterdam/Philadelphia: John Benjamins. Co-author: Rena Torres Cacoullos. [appeared: December 2003]

Jens Clegg, ABD

Article in Refereed Scholarly Journal. - Under review for publication "Gender Assignment to Lone English-Origin Nouns in the Spanish of Mora, New Mexico" in *Bilingual Review/La Revista Bilungue*. Co-Authored with Mark Waltermire.

Teresa Dovalpage

Book authored:

- "A Girl Like Che Guevara." New York: Soho Press, April 15, 2004.
- · "Posesas de la Habana: Novela." Los Angeles: Pureplay Press, April 1, 2004

E. PAPERS READ BY FACULTY

Mirta Alejandra Balestra

"El tiempo futuro en el español de California y de México en el siglo XIX: incidencia del género en la selección de las formas de futuro." Second UK Symposium of Hispanic Linguistics, University of Southampton. April 15-17, 2004. United Kingdom.

Anthony J. Cárdenas-Rotunno

- "Writing Women: Leonor López de Córdoba and Teresa de Cartagena." 85th Annual Meeting of the American Association of Teachers of Spanish and Portuguese.
 August 2–4, 2003. Chicago, Illinois.
- "Celestina, Cañizares, Consuelo, and Última: Surveying Sorcery." The Thirteenth Annual Medieval, Renaissance, and Baroque Interdisciplinary Symposium. University of Miami. February 19-21, 2004. Coral Gables, Florida.
- "Text and Image in La vida & hystoria del rey Apolonio." 57th Kentucky Foreign Language Conference. University of Kentucky. April 16–18, 2004. Lexington, Kentucky.
- "Editing and Translating Teresa de Cartagena: Whatever Did She Mean?" 39th International Congress on Medieval Studies. The Medieval Institute. Western Michigan University. May 6–9, 2004. Kalamazoo, Michigan.

María Dolores Gonzales

"La Política de enseñar español como lengua de herencia." La Cosecha, Eight Annual Dual Language Conference: Growing Cross-Cultural Connections. November 2003. Santa Ana Pueblo, New Mexico.

Enrique Lamadrid

- "Identidades fronterizas: transculturación y mimetismo cultural en las fiestas de Matachines y Comanches en Nuevo México." Los Hombres y las Fronteras - Simposio de la Universidad de Extremadura, Trujillo. July 2, 2003. Extremadura, Spain.
- "Ritual Dance in New Mexico: Matachines y Comanches" American Folklore
 Association. October 2003. Albuquerque, New Mexico.
- "Chicano Studies at UNM: a 30 year Legacy." National Association of Chicano and Chicana Studies. University of New Mexico. April 2004. Albuquerque, New Mexico.

Kimberle López

"Constructing a 'Patria' from Memory in Exile: Alicia Dujovne Ortiz's *El árbol de la gitana*." The Mid-America Conference on Hispanic Literature, University of Colorado. October 2-4, 2003. Boulder, Colorado.

Miguel López

 "Teaching Service-Learning Along the Border: Linking the Local, the Regional and the Global" at Abriendo Brecha/Opening a Path: A Workshop and Conference on Activist Scholarship in the Humanities and the Social Sciences. University of Texas at Austin-Rockefeller Foundation. February 26, 2004. Austin, Texas.

- "The Incommensurability of Language and Experience in Border Narrative," Modern Language Association of America National Convention. December 2003, San Diego, California.
- "Distopía y nueva utopía en las novelas de Homero Aridjis," Mid-America Conference on Hispanic Literatures, University of Colorado. October 2-4, 2003. Boulder, Colorado.

Judy Maloof

"Love, Exile, and Intercultural Encounters in Isabel Allende's *Hija de la fortuna*." XIV Conferencia Internacional: Asociación de Literatura Hispánica Femenina. October 23-25, 2003. Boca Raton, Florida.

Kathryn McKnight

 "Spinning the Violence: The Marcons of Limón Narrate Loyalty and Betrayal in Cartagena de Indias (1634)." First International Interdisciplinary Symposium of the Colonial American Studies Organization, Georgetown University. October 9-11, 2003.
 Washington DC.

"Blood Rituals in Cartagena de Indias (1634): Creoles, Angolans, Malenbas and Queen
 Leonor of the Palenque de Limón," Affirmations and Contestations: Interrogating the
 Connections between Africa and the African Diaspora. Conference of the Association
 for the Study of the Worldwide African Diaspora, Northwestern University.

October 2-4, 2003. Evanston, Illinois.

Margo Milleret

"Isis Baião's Surprising Sketches on Aging." Mid-America Conference on Hispanic
 Literatures. Department of Spanish and Portuguese, University of Colorado.

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October 2-4, 2003. Boulder, Colorado.

 "Reasons to Redesign our Less Commonly Taught Languages Curriculum."
 7th National Conference on Less Commonly Taught Languages. National Council of Organizations of Less Commonly Taught Languages. April 29-May 2, 2004. Madison, Wisconsin.

Tey Diana Rebolledo

- "Las Clarividentes: Chicana Writers and Artists: Gender, Ethnicity and Creativity." Arizona State University. October 2003.
- "Positioning Women in the Academy: Issues of Teaching, Research, and Administration for Scholars of American Women Writers." Society for the Study of American Women Writers. October 2003. San Antonio, Texas.
- "Voces fronterizas: La frontera in Multiple Perspectives." National Association of Chicano and Chicana Studies Annual Meeting, Hyatt Hotel. March 31-April 4, 2004. Albuquerque, New Mexico.
- "The Lure of the Garage Sale: The Call of the Hunt," Popular Culture Association.
 April 2004. San Antonio, Texas.
- "Art and Literature on the Border: Perspectives for Border Studies." Modern Language Association. December 2003. San Diego, California.

Eleuterio Santiago-Díaz

 "Border Writing Against Literary Whiteness: The Afro-Boricua Outcry of Piri Thomas," at the 2004 Narrative: An International Conference. University of Vermont, April 22-25, 2004, Burlington, Vermont. "Los cuentos negros de Lydia Cabrera y Ana Lydia Vega: Teoría y práctica de la significación en el Caribe." Louisiana Conference on Hispanic Languages and Literatures, Louisiana State University. January 21, 2004. Baton Rouge, Louisiana.

Rena Torres Cacoullos

"Me salía con las amigas: pragmaticalization of reflexive markers." 8th International Pragmatics Association (IPrA). July 2003. Toronto, Canada, (with Jessi E. Aaron).
"Taking a complement...variably." New Ways of Analyzing Variation (NWAV) 32, University of Pennsylvania. October 2003, (with James A. Walker).

Catherine Travis

- "Parallel processing effects in subject expression in conversational Colombian Spanish." Hispanic Linguistics Symposium 7. University of New Mexico.
 October 16–18 2003. Albuquerque, New Mexico.
- "The emphatic es construction of Colombian Spanish." 2003 Australian Linguistic Society Annual Conference. University of Newcastle. September 26-28 2003. Newcastle, NSW, Australia, (co-authored with Timothy Jowan Curnow).
- "Ahi está: Extending the meaning of ahi in conversational Colombian Spanish."
 8th International Cognitive Linguistics Conference. University of La Rioja, Spain.
 July 20–25 2003. La Rioja, Spain (co-authored with Timothy Jowan Curnow).
- "Subject expression in two dialects: New Mexican and Colombian Spanish." 34th Annual Linguistic Symposium on Romance Languages. The University of Utah.
 March 12-14, 2004. Salt Lake City, Utah.

F. PAPERS READ BY GRADUATE STUDENTS

Jessi Elana Aaron, ABD

"Me salia con las amigas: pragmaticalization of reflexive markers." 8th International Pragmatics Association (IPrA). July 2003. Toronto, Canada, (with Rena Torres Cacoullos).

"Ya verás: The fossilization of the future in Mexican Spanish", New Ways of Analyzing Variation 32. University of Pennsylvania. October 10, 2003. Philadelphia, Pennsylvania.

Melba Amador, ABD

- "The Story of My Body': Racialized Perceptions in the Narrative of Judith Ortiz
 Cofer." New Directions in Critical Theory Conference, University of Arizona. April 8-10, 2004. Tucson, Arizona.
- "Body, Home, Memory: The Female Body in *Geographies of Home* by Loida Maritza Perez." National Association of Chicano and Chicana Studies Annual Meeting, Hyatt Hotel. March 31-April 4, 2004. Albuquerque, New Mexico.
- "Mi cuerpo, mi hogar: el cuerpo femenino en la novela Geographies of Home de Loida Maritza Pérez." 24th Louisiana Conference on Hispanic Languages and Literatures, Louisiana State University. February 19-21, 2004. Baton Rouge, Louisiana.

Jens Clegg, ABD

"Morphological adaptation of lone English-origin nouns in the Spanish of New Mexico." The 2004 Deseret Language and Linguistic Society Symposium. Brigham Young University. March 18-19, 2004. Provo, Utah.

Spencer Herrera, ABD

- "Los tejanos' and its role in Regional New Mexican Identity" at the 2003 Annual Meeting: Folkore Culture and the Public Domain. The American Folklore Society (AFS) October 8-12, 2003. Albuquerque, New Mexico.
- "Territorial Regionalism: 'Los Tejanos' and New Mexican Regional Identity' at the 38th Annual Western Literature Association (WLA) Conference: The West of the 21st Century. October 29–November 1, 2003. Houston, Texas.
- "The Circumstances Surrounding the Education of the Chicano Body: A Gender Based Bildungs" at the 31st Annual NACCS Conference: El Pueblo Unido...Strength in Unity. National Association of Chicano and Chicana Studies (NACCS). March 31 – April 4, 2004. Albuquerque, New Mexico.

Shelli Rottschafer, ABD

- "To Exile or Not to Exile: Bella's Choice in Luisa Valenzuela's Cuarta version."
 Mid-America Conference on Hispanic Literatures (MACHL). University of
 Colorado. October 2-4, 2003. Boulder, Colorado.
- "Metatextual Art: Establishing Collective Resistance in Alicia Partnoy's *The Little* School (1986)." Hawaii International Conference on Arts and Humanities. University of Hawaii. January 8–11, 2004. West Oahu, Honolulu, Hawaii.

G. OTHERS RESEARCH PROJECTS OF CREATIVE WORKS IN PROGRESS OR COMPLETED. Mirta Alejandra Balestra

Encyclopedia article forthcoming:

Luis Valdez and Jesús Colón. in The Encyclopedia of Latinos and Latinas in the United

States, Oxford University Press.

Articles submitted to refereed journals:

- "El tiempo futuro en el español de California en el siglo XIX y principios del XX: incidencia del género en un cambio lingüístico en marcha" submitted to *Southwest Journal of Linguistics* on February 27, 2004.
- "Género y estilo en el uso de las formas de futuro: estudio de sociolingüística histórica."
 Submitted to Spanish in Context on April 21, 2004.

Textbook review:

Entrevistas for McGraw Hill, Spring 2004

Authony J. Cárdenas-Rotunno

Grants:

• "Teresa de Cartagena–Woman, Nun, Deaf, and Conversa: Conserving and

Disseminating Her Writings." Research Allocation Committee Grant, UNM, \$3,074.00 June 2003. In progress.

"Editing the Madrid Mansucript of the Libro del caballero Zifar." Research Allocation
 Committee Grant, UNM. \$3500.00. May- June 2004. In progress.

Encyclopedia article forthcoming:

"Cristobal de Castillejo," in Dictionary of Literary Biographies.

Article in progress:

- "Text and Image in the *Historia y vida de Apolonio*." [An examination of the role the woodcuts played in the production of the 1488 incunabular edition of the Apolonio.]
- "The Pleasure of Textual and Iconic Artifice in Alfonso X's Cantiga 16: The Miracle of

the Love-Sick Knight." Submitted to *Bulletin of Hispanic Studies*. [Analysis of this particular miracle of the Virgin showing how interpretations thus far are not quite adequate and determining that "pleasure" derived from unveiling the seams of a text unite critics from C. S. Lewis to Vincent Leitch.]

Book in progress:

Libro del caballero Zifar (BNM 13.905). Publication with the Hispanic Seminary of Medieval Studies. Transcribed 144 folios and need now to proofread against original.

Enrique Lamadrid

Grants:

- *"Romancero Nuevo Mexicano II*: Four Centuries of Hispanic Balladry in New Mexico"
 Monograph and collection of recordings. National Endowment for the Humanities,
 Research Grant 2003-2004, \$24,000.00.
- "Nuevo México, ¿hasta cuándo?" New Mexico Component of Smithsonian Corridos
 Exhibit. University of New Mexico, University College Production Grant, \$8,500.00.
- "Hermanitos Comanchitos." Center for Regional Studies, grant for the publication of photographs in University of New Mexico Press book, \$6,000.00.
- "Hermanitos Comanchitos" John D. Robb Musical Trust, grant for production of Compact Disc for book, \$800.00.

Creative Works:

- "Nuevo México, ¿hasta cuándo?: Anthology of New Mexican Ballads." Washington,
 D.C.: Smithsonian Institution, 2004. Producer, recorder, editor, annotator / compact
 disc (3,000 copy edition).
- · Museum Exhibit Curiatorial Consultant: "Corridos sin Fronteras: A New World Ballad

Tradition." Smithsonian Institution Traveling Exhibit Service, Washington D.C. February 2002-October 2005.

Curator: Guillermo Hernández. Additional Venues: San Antonio, Kansas City, Albuquerque, San Diego. Compiled, recorded, and produced the New Mexico component, including acquisition and loan of objects, photographs, and maps.

 Museum Exhibit Consultant: "Chicano Now: American Expressions." Inaugurated at La Alameda Center (Smithsonian Affiliate), San Antonio, 2002. National Hispanic Culture Center, Albuquerque, 2003.

Kimberle López

Grant:

"Improving Media Technology in the Classroom." Teaching Allocations Subcommittee Grant, \$2500.00, awarded December 2003. For purchase of equipment to edit film clips and internet media for classroom use.

Articles in progress:

• "The House of Memory: Exile in Alicia Dujovne Ortiz's *El árbol de la gitana*," abstract of article has been accepted and submission of article solicited for a critical anthology entitled *Voices from the Margins: Female Exiles in 20th and 21st Century Europe*, edited by Maureen Tobin Stanley and Gesa Zinn.

- "Consumer Cannibalism in Augusto Monterrosos's 'Mr. Taylor'," to be submitted to Latin American Literary Review.
- "The Monstrous-Feminine in Rómulo Gallegos's Doña Bárbara."

Books in progress:

· Carnal Fantasies: Cannibalism in Latin American Literature, critical anthology to be

• Close Encounters of the Taboo Kind: Sexual Near-Misses in Latin American Narrative, on incest and miscegenation in the nineteenth-century Latin American novel.

Miguel López

Grant:

Received \$2,500.00 from the Dean of Arts and Science for Honor's Course.

Article forthcoming:

"Pensar la nación mexicana a través del apocalipsis ecológico en dos novelas distópicas de

Homero Aridjis." Lateinamerika-Studien, Fall 2004.

Article submitted:

"Historiographic Metafiction in Guy García's *Obsidian Sky*." Submitted to *La página roja*, waiting for a response.

Articles in progress:

- "La retórica del viaje en Crónicas desde el país vecino y "Rainbows at Seven Eleven" de Luis Arturo Ramos."
- · "Historia y sujeto indígena en Oficio de tinieblas de Rosario Castellanos."

Books in progress:

- Utopian Dreams, Apocalyptic Nightmares: Dystopian Images of Globalization in Mexican and Chicano Narrative.
- · La "otra" novela indigenista: Género y nación en México (1930-1950).

Creative work in progress:

Assembly of materials for DVD "Justicia sin fronteras: Teaching Activism and Service

Learning in Upper-Division Border Studies Courses."

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Judy Maloof

Encyclopedia articles forthcoming:

- · About author Gloria Anzaldúa, in Encyclopedia Latina, 2004.
- About author José Vasconcelos in Encyclopedia Latina, 2004.
- · About artist Frida Kahlo, in Encyclopedia Latina, 2004.

Book review forthcoming:

Ana María del Río's Carmen's Rust in Letras Femeninas. Fall 2004.

Articles submitted for publication:

- About Latin American author Isabel Allende.
- About Latin American author Angela Mastretta.
- · About Chicano author Norma Cantú.
- About Chicana author Lucha Corpi.
- About the film *Danzón*.

Sabbatical proposal accepted:

Cultural studies book project on Mexican immigration to Barelas. Will conduct interviews with community leaders, activists, and residents in the Barelas neighborhood.

Kathryn McKnight

Summer Fellowship:

"Roots: African Dimensions of the History and Culture of the Americas (Through the Trans-Atlantic Slave Trade)." National Endowment for the Humanities. Summer Seminar Fellowship. Stipend: \$3700. June 2 - July 11, 2003. Sponsored by the Virginia Foundation for the Humanities and the National Endowment for the Humanities. Sixweek seminar, including shared curriculum and development and presentation of

seminar paper: "Spinning the Violence: Loyalty and Betrayal as Told by Enslaved Rebels before Spanish Authorities in Cartagena, 1634." Completed.

Margo Milleret

Book review forthcoming:

The Archive and the Repertoire by Diana Taylor for Theatre Journal. Special Issue on Latin American Theatre.

Encyclopedia articles forthcoming:

• "Teatro Arena de São Paulo" for *Encyclopedia of Modern Drama: 1860- PRESENT*. To be published by Grolier/Scholastic Press.

• "Consuelo de Castro" for *Encyclopedia of Modern Drama: 1860- PRESENT*. To be published by Grolier/Scholastic Press.

Published non-refereed essay:

"Reasons to Redesign the Portuguese Curriculum." The Portuguese Newsletter.

Vol 16, no. 1, pp. 6-7, Fall 2003.

Rena Torres Cacoullos

Grant:

"Hispanic Linguistics Symposium." National Science Foundation, Award # BCS-0312382. \$21,428 Began: 8/1/03, finished 7/31/04. Funding for the international Hispanic linguistics conference hosted at UNM, October 2003. In-progress.

Catherine Travis

Grants:

· "Pragmatic transference in New Mexican Spanish," Research Allocation Committee

Grant, University of New Mexico. \$1659.00. February – September, 2003. Digitizing sound files from Garland Bills and Neddy A. Vigil's New Mexico and Colorado Spanish Survey corpus; editing the transcriptions; preparing a CD of the transcriptions to be made available to students and other researchers working with this data; an analysis of subject expression in this data compared with a corpus of monolingual Colombian Spanish.

• Research project: "Languages of New Mexico," Teaching Allocations Subcommittee Grant, University of New Mexico. \$2395.68 December 2003–June 2004. Funding for the purchase of recording and DVD burning equipment for use by graduate students in the Departments of Linguistics and Spanish and Portuguese. In progress.

H. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES

Mirta Alejandra Balestra

- Co-organizer of The 7th Hispanic Linguistics Symposium and the 6th Conference on the Acquisition of Spanish and Portuguese as First and Second Languages. University of New Mexico, October 16-18, 2003, Albuquerque, New Mexico Co-organizers: Rena Torres Cacoullos, Catherine Travis, David Eddington, et al.
- Elected member to the board of Recovering the U.S. Hispanic Literary Heritage Project,
 2002- present. Organize meetings, conferences, contact funding organizations, co-write
 proposals with the Director, University of Houston, Houston, Texas.
- Member of the Modern Language Association.
- · Member of American Association of Teachers of Spanish and Portuguese,
- · Member of the Asociación de Lingüística y Filología de América Latina.

Anthony J. Cárdenas-Rotunno

- Reader for the *Publications of the Modern Language Association*. Evaluated a submission on humors in the female characters of Celestina. Spring 2004.
- Member of the Executive Committee for the Cervantes Society of America.
 Helped plan topics for MLA sessions and to discuss issues pertaining to the Society.

Spring 2004.

Organized session for Kentucky Foreign Language Conference, 2004.

María Dolores Gonzales

Reader for submissions of conference papers to LASSO conference, Fall 2003.

Enrique Lamadrid

- Served on the Site Committee for the American Folklore Society's conference.
 October 2003. Albuquerque, New Mexico.
- Served on the Site Committee for the National Association of Chicano and Chicana
 Studies conference. April 2004. Albuquerque, New Mexico. Raised \$2,300.00.
- Served on the Advisory Board for the Smithsonian Center for Folk life and Cultural Heritage - three year appointment 2002-2005.

Kimberle López

- Editorial Consultant for *Huellas de las literaturas hispanoamericanas*, 3rd edition, Prentice Hall, Spring 2004.
- Read 300-page novel proofs for Teresa de la Caridad Doval's, A Girl Like Che Guevara.
 New York: Soho Press, Spring 2004.
- Read student article, Kathleen Cunniffe, "The Fragmented Psyche of Mexico: The Narrative

Structure of La muerte de Artemio Cruz through the Lens of Francisco González Pineda." MACLAS: Latin American Essays 16 (Fall 2003): 96-113.

- Editorial Consultant for Aproximaciones al estudio de la literatura hispánica, 5th edition, McGraw Hill. Fall 2003.
- Reader, "Mateo Alemán and his Poetic History," for *Colonial Latin American Historical Review*, Fall 2003 Made publication recommendations with extensive editorial comments regarding the 50-page article.

Miguel López

- Co-organizer of the panel "The Symbolic Violence of Border Literature," for the 119th Modern Language Associations Annual Convention in San Diego, California.
 December 27-30, 2003.
- Editorial Consultant for *Huellas de la literatura hispanoamericana*, Prentice Hall, Spring 2004.

Judy Maloof

- Tenure consultant for North Dakota State University, Summer 2003.
- Reader for the Latin American Research Review, Summer 2003.

Kathryn McKnight

 Member of the Executive Committee for the Division on Colonial Latin American Literatures, Modern Language Association. Proposed, selected presenters and chaired panel - 2003. Consulted with committee during 2003 Congress to plan 2004 panels.
 Proposed and selected presenters for 2004 Congress. January 2003 to present. Met at Annual Convention in San Diego, California. December 2003. • Reviewed article manuscript "Journeys to Dark Lands: Francisca de los Angeles" Bilocations to New Mexico (1700)" for the *Colonial Latin American Historical Review* May 2004.

Margo Milleret

- Served on the editorial board for Latin American Theatre Review.
- Served on the editorial board for *Journal of the Mountain Interstate Foreign Language* Conference.
- Co-organized six panels on Teaching Portuguese as a Second Language for the Brazilian Studies Association International Conference, June 2004. Rio de Janeiro, Brazil. Reviewed proposals, selected and organized panels.

Tey Diana Rebolledo

- Site Coordinator for the Association of Departments of Foreign Languages (ADFL) Summer Seminar, Albuquerque and the University of New Mexico, June 2004.
- Co-Chair, Site Committee for the National Association of Chicano/a Studies
 Conference, April 2004. Albuquerque, New Mexico.
- Member of the Executive Council for the Modern Language Association.

Susan Rivera

• Tenure consultant for Joseph Kobylas. Rockford College, Spring 2004.

Rena Torres Cacoullos

- Conference organizer for the 7th Hispanic Linguistics Symposium and 6th Conference on the Acquisition of Spanish and Portuguese as First and Second Languages, Department of Spanish and Portuguese, University of New Mexico. October 16-18, 2003. Albuquerque, New Mexico. Coordinated team of colleagues and volunteers. Was directly responsible for accommodations, conference venue, transportation, catering, plenary speakers, web page, fundraising and budget. I am still working with publisher on proceedings.
- Member of the Editorial Board for the Southwest Journal of Linguistics. Assist editor in refereeing manuscripts and proof reading final copy.
- Reader of two articles to be published as part of the 7th Hispanic Linguistics
 Symposium proceedings. "Spanish *Dequeismo*: A Case Study in Subjectification" and "Processos de gramaticalización por subjetivización." February 29, 2004.

Catherine Travis

- Co-organizer of the 7th Hispanic Linguistics Symposium. Organizer: Rena Torres (and David Eddington, prior to his departure) University of New Mexico. October 16 – 18
 2003. Albuquerque, New Mexico. Duties: handling of revision of abstracts, putting together program booklet, including organizing session chairs; distribution of information for all presenters.
- Referee of articles for *Proceedings of the 4th Hispanic Linguistics Symposium* (2 papers) 2004.
- Referee of articles for Hispania, 2003.
- Referee of articles for Journal of Latin American and Iberian Studies, 2003.

I. OTHER PROFESSIONAL ACTIVITIES (EXHIBITS, OFF CAMPUS TALKS, ETC)

Mirta Alejandra Balestra

New Mexico Teacher Assessment Test Materials. Participated in a conference to read, evaluate, propose changes and make corrections to the New Mexico teacher assessments for teachers of Spanish. February 12-13, 2004.

María Dolores Gonzales

Served on the New Mexico Teacher Assessment Test Materials Committee. February 12-13, 2004.

Enrique Lamadrid

- Instructor for Albuquerque Teachers Institute's "El Río: Bioregionalism Across the Curriculum." Ongoing in-service workshops for APS School on Wheels. Seminars held in the Fall of 2003 with a river trip in the Spring of 2004.
- Presented off campus talks for the New Mexico Endowment for the Humanities

Speakers Bureau Chautauqua and Lecture Series. Community Talks:

Fort Stanton. August 2003.

Garfield Elementary School in Albuquerque. May 2004

Bureau of Land Management headquarters in Socorro. May 2004

• Coordinator of the "Commanches en Nuevo México" Community Lectures and Events:

National Hispanic Cultural Center in Albuquerque. October 2003. University of New Mexico, Valencia Campus in Tomé. November 2003. New Mexico State University campus in Grants. April 2004. University of New Mexico, Los Alamos Campus for the Jim Sagel Lecture Series. April 2004.

Judy Maloof

Presented the paper, "An Early Struggle Against School Segregation: Paul Espinosa's *The Lemon Grove Incident*," and lead a discussion for the Paul Espinosa Film festival at the South Broadway Cultural Center. September 6, 2003.

Margo Milleret

 Member of the New Mexico Area Team of the AFS, a high-school exchange program.
 Participation includes an orientation workshop for new host parents and liaison families in August (2003 and 2004), a Spring 2004 tour of UNM with visits to the Fine Arts theaters, the Southwest Research Institute, and the student government. Conducted screening interviews for an exchange program candidate and for two host families.
 Currently a host parent for a girl from Germany.

• Outreach efforts for Portuguese courses. Developed materials for a folder designed by Agripino Silveira to promote introductory Portuguese language classes in UNM Spanish classes.

Rena Torres Cacoullos

Grant proposal evaluation: 1/30/04, File: 410-2004-1880, Social Sciences and Humanities Research Council of Canada.

Catherine Travis

PhD external examination of dissertation by student of the Australian National

University. Yuko Asano: 'A semantic analysis of epistemic modality in Japanese'.

J. NON-TEACHING UNIVERSITY, COLLEGE, AND DEPARTMENT SERVICE

Mirta Alejandra Balestra

- · Chair of the PhD Comprehensive Exam Committee for Loreto Catoira.
- · Chair of the PhD Comprehensive Exam Committee for Mary Copple.
- · Reader for the PhD Dissertation Committee of Mark Waltemire.
- · Reader for the PhD Dissertation Committee of Patricia Cano.
- · Member of the PhD Comprehensive Exam Committee for Damián Wilson.
- Member of completed PhD Comprehensive Exam Committee for Matt Alba, Fall 2003.
- Director of independent study course for Stuart Griffith, Fall 2003.
- · Director of independent study course for Blanca Rodríguez, Spring 2004.
- Director of independent study course for Rita Schexnayder, Spring 2004.
- Member of the Undergraduate Committee, Fall 2003 and Spring 2004.
- Coordinator of Spanish as a Second Language Program, Department of Spanish and Portuguese, Fall 2003 to present.

• Elected member to the board of the Southwest Hispanic Research Institute, 2003 to present.

Anthony J. Cárdenas-Rotunno

- Guest Lecturer for Peter Pabisch's German 370 course, "The Hapsburgs in Spain" March 25, 2004.
- Reader of completed MA Thesis for Lille Norstadt, English Department, Fall 2003.
- Director of independent study course for Jesse Loper, Summer 2003.

- Director of independent study course for Jennifer Vicuña, Summer 2003.
- Director of independent study course for Gwyneth Moya, Summer 2003.
- · Director of independent study course for Renae Manzanares, Summer 2003.
- · Director of independent study course for Antonio Núñez, Fall 2003.
- Director of independent study course for Kelly Shannon, Fall 2003.
- Member of the Salary Committee.
- Member of the Graduate Committee.

María Dolores Gonzales

- Member of completed PhD Comprehensive Exam Committee for Patricia Cano, Fall 2003.
- Member of completed PhD Comprehensive Exam Committee for Michelle Salazar, Spring 2004.
- · Coordinator of the Spanish as a Heritage Language Program.
- Member of the Graduate Committee. 2003-2004.
- Member of the Undergraduate Committee. Fall 2003.
- · Committee member of La Raza Graduate Student Excellence Award, 2004.
- · Guest speaker in Nancy Usher's Women Studies course, Summer 2003.
- Guest speaker in Estela Martínez's Family Studies course on New Mexico Spanish, 2003-2004.

Enrique Lamadrid

- Interim Chair for Chicano Studies, Fall 2003, Spring 2004.
- Interim Director for El Centro de la Raza, Fall 2003.

- Reader of MA Thesis for Charles Bicahlo.
- Member of completed PhD Comprehensive Exam Committee for Spencer Herrera, Spring 2004.

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- · Director of independent study course for Sarah Salimi, Spring 2004.
- · Director of independent study course for Christy Clavio, Spring 2004.
- Director of independent study course for Siobhan Asgharzadeh, Spring 2004.
- Director of study abroad program for "Camino de Santiago" Expedition to Northern Spain, May 2004.
- Research Opportunity Proposal, undergraduate mentoring for Adam Martínez.
- Research Opportunity Proposal, undergraduate mentoring for José Sánchez.
- Member of the University Honors Council,
- Member of the Scholarship Committee.
- · Departmental Honors Advisor, Fall 2003, Spring 2004
- Manuscript review of Philip Guerin's novel for the University of New Mexico Press, April 2004.

Kimberle López

- Chair of completed PhD dissertation for Patricia Catoira; "Writing Cuba: Transformations of Cecilia Valdés in Morúa Delgado's Sofia and Reinaldo Arenas's La Loma del Angel." Summer 2004.
- Reader of completed PhD dissertation for Stephanie Becker; "Perversions of Romance:
 A Look at Love in Mexicana and Chicana Fiction and Film." Summer 2003.
- Read dissertation chapters for Karen Stocker; "The Effects of Schooling on Ethnic Identity: The Dynamics of Discrimination in a Rural Costa Rican High School," Anthropology.

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Summer 2003.

- Read dissertation chapters for Alyssa Cymene Howe; "Strategizing Sexualities: Re-Imagining Gender, and Televisionary Tactics: The Cultural Politics of Social Struggle in Neoliberal Nicaragua," Anthropology, Summer 2003.
- Member of completed MA Examination Committee for Kathleen Cunniffe, Spanish American literature, Latin American and Iberian Institute, Spring 2004.
- MA Examination Committee for Michael McGovern, Spanish American literature, Latin American and Iberian Institute, Spring 2004.
- MA Examination Committee for Laura Fausto, Spanish American literature, Latin American and Iberian Institute, Fall 2003.
- Assistant supervisor of 300-level ABD teaching assistants, Fall 2003 and Spring 2004.
- Director of graduate independent study course for Teresa Dovalpage Women in Galdós. Spring 2004.
- Member of the Comparative Literature/Cultural Studies Advisory Committee, Spring 2004.
- · Observer of Foreign Languages and Literatures External Review, Spring 2003-Fall 2004.
- Member of the Graduate Committee, Spring 2003-Spring 2004.
- Member of the Advisory Committee, Spring 2003-Spring 2004.
- · Associate Chair 2003-2004 attended Arts and Sciences Chairs' meetings, Spring 2004.
- Member of the Latin American and Iberian Institutes' Director Search Committee, Spring 2003-Fall 2003.
- Member of the Italian Instructor Search Committee, Foreign Languages and Literatures, Spring 2004.
- · Organized and Participated in Mock MLA Interviews, Spanish and Portuguese, December,

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2003.

- · Conducted Exam Preparation Workshop, Spanish and Portuguese, November 2003.
- · Conducted Introduction to Graduate School Workshop, September 2003.

Miguel López

- · Chair of Ana Lusero's Honors Thesis: Border Crossings, Spring 2004.
- Reader of completed PhD dissertation for Patricia Catoira, June 2004.
- Member of completed PhD Comprehensive Exam Committee for Spencer Herrera Fall 2003.
- Member of completed PhD Comprehensive Exam Committee for Carmen Holguín -Chaparro, Spring 2004.
- Member of completed MA Comprehensive Exam Committee for Ana Liza Caballero, Latin American Iberian Institute. Fall 2003.
- · Chair of PhD dissertation for Miguel Angel Estrada.
- · Chair of PhD dissertation for Olga Rios-Soria.
- · Reader of PhD dissertation for Spencer Herrera.
- · Reader of PhD dissertation for Carmen Holguín-Chaparro.
- Director of independent study course for Ana Liza Caballero, Literary Theory: Cultural Studies, Latin American Iberian Institute. Fall 2003.
- Director of independent study course for Jessica Escalante, Literatura indigenista, Spring 2003.
- Chair of the Activities Committee, Fall 2003.
- Member of the Activities Committee, Spring 2004.
- · Member of the Merit and Salary Committee, Spring 2004.

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- Member of the Southwest Hispanic Research Institute New Faculty Committee, 2003-2004.
- Faculty Contact Liaison between Spanish graduate students and faculty. Fall 2003-Spring 2004.
- Participated in Mock MLA Interviews December 2003.
- Faculty Advisor for Justicia sin Fronteras. This organization's mission is to create awareness of social injustice in Hispanic communities. Since last year, we have gathered hundreds of people to listen to talks from mothers of disappeared daughters in Ciudad Juárez and collected donations for family support.
- Forum organizer for Justicia sin fronteras, December 12, 2003.
- Forum organizer for Justicia sin fronteras, presented during the National Association of Chicano and Chicana Studies Conference on April 2, 2004.
- Participant at the Language Expo, March 2004.

Judy Maloof

- Reader of completed PhD dissertation for Stephanie Becker, August 2003.
- Reader of a completed MA Thesis for Isabelle Petit, French Department, April 2004.
- Reader of completed PhD dissertation for Patricia Catoira, June 2004.
- Chair of completed PhD Comprehensive Exam Committee for Carmen Holguin-Chaparro, February 2004.
- Member of completed PhD Comprehensive Exam Commíttee for María de Abajo, November 2003.
- · Member of completed MA Comprehensive Exam Committee for Analioza Caballero,

Latin American Iberian Institute, October 2003.

• Member of completed MA Comprehensive Exam Committee for Laura Frausto, Latin American Iberian Institute, October 2003.

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- Member of completed MA Comprehensive Exam Committee for Michelle Hopper, Latin American Iberian Institute, April 2004.
- Director of student in independent study course for Jasmine Cenicero, Summer 2003.
- Director of student in independent study course for Isabel Petit, Summer 2003.
- · Member of Latin American Iberian Institutes' Grants and Awards Committee, Fall 2003.
- Member of Merit and Salary Committee, 2002-2003; and 2003-2004.
- Spanish Undergraduate Advisor, 2002-2004 (three semesters).
- Member of the Search Committee for Portuguese Professor, 2003-2004.

Kathryn McKnight

- Member of completed PhD Comprehensive Exam Committee for Melba Amador, August 2003.
- Member of completed MA Comprehensive Exam Committee for Michael McGovern, Latin American Iberian Institute, March 2004.
- Member of completed MA Comprehensive Exam Committee for Kathleen Cunniffe, Latin American Iberian Institute, March 2004.
- Spanish and Portuguese faculty representative on the Latin American and Iberian Institutes' Policy Committee. January - September 2003.
- Chair of the Activities Committee. January-May 2004. Polled committee on funding requests. Organized 2004 departmental graduation ceremony.
- · Member of the Grants and Awards Committee for the Latin American and Iberian

0/04

Institute. January 2004 - present. Read applications for Latin American Iberian Institute fellowships, Title VI fellowships, and summer field research grants for students and faculty.

Margo Milleret

- · Chair of completed MA Thesis by Charles Bicalho.
- Chair of BA/BS Honors Thesis by Carrie Thompson. "Applying Paulo Freire's Theories to Second Language Learning." Fall 2003.
- Member of completed MA comprehensive exam committee for Diego Deane, Latin American Iberian Institute, October 2003.
- Member of completed MA comprehensive exam committee for Andrew Frankl, Latin American Iberian Institute, March 2004.
- Portuguese Program Coordinator.
- Portuguese Graduate and Undergraduate Advisor.
- Director of independent study course for Elena Spontak, Summer 2003.
- Director of independent study course for Diego Deane, Fall 2003.
- Director of independent study course for Leta Evaskus, Fall 2003.
- Director of independent study course for Doug Fischer, Fall 2003.
- · Member of the Vice-Provost's Task Force on Study Abroad. Spring 2004-Fall 2004.
- Member of the Ad-Hoc Committee on Performance Studies PhD, Fall 2003.
- Member of the Latin American Iberian Institute Executive Committee, Fall 2003.
- Member of the Department's Undergrad Committee, Fall 2003.
- Chair of the Search Committee for Portuguese Professor, Fall 2003-Spring 2004.
- Serve on the KUNM Radio Board, a two year assignment expiring in 9-04.

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- Serve on a sub-committee for developing opportunities for students to participate in KUNM. Acquire grant monies for students to attend a National Radio Conference.
 Have arranged for possible software development through the School of Education for potential student radio broadcasters.
- Coordinated the visit and performance by the BYU Golden Age Theater Project in March 2004. Involved in the distribution of promotional materials, arrangement of equipment and set up at the SUB theater and acquisition of funds to help offset the groups travel costs.

Susan Rivera

- Chair of a completed PhD Comprehensive Exam Committee for María de Abajo, November 2003.
- · Co-Chair of PhD Dissertation Committee for Beth Bernstein.
- Chair of PhD Dissertation Committee for Theo Walker.
- · Chair of PhD Dissertation Committee for María de Abajo.
- · Chair of PhD Comprehensive Exam Committee for David Briggs.
- Chair of PhD Comprehensive Exam Committee for Teresa Dovalpage.
- Director of independent study course for David Briggs; "La poesía de Manuel Machado y el flamenco." Fall 2003.
- Director of independent study course for David Briggs; "Poesía española y cultura popular." Spring 2004.
- Chair of the Graduate Committee, Fall 2002-Spring 2004.
- Member of the Advisory Committee, Fall 2002-Spring 2004.
- Member of the Arts and Sciences Graduate Committee, Fall 2002-Spring 2004.

· Graduate Advisor, Fall 2002-Spring 2004.

Eleuterio Santiago-Díaz

- Member of the Undergraduate Committee, 2003-2004.
- · Member of the Southwest Hispanic Research Institute, Spring 2004.
- Volunteer at the information table for the Language Expo March 2004.
- Coordinator of film series "La huella de lo audiovisual en la cultura ecuatoriana:
 Contemporary Ecuadorian cinema." Sponsored by the Deptartment of Spanish and
 Portuguese and the Latin American and Iberian Institute. November 17-20, 2003.

Rena Torres Cacoullos

- Chair of completed PhD dissertation for Esther L Brown; *The reduction of initial /s/ in* New Mexican Spanish: A usage-based approach. May 17, 2004.
- Chair of PhD Dissertation Committee for José Esteban Hernåndez; Sociolinguistic variation, grammaticization and dialect contact: The present perfect in Salvadoran and Mexican Spanish.
- Chair of completed PhD Comprehensive Exam Committee for Jens Clegg, September 2003.
- Chair of completed PhD Comprehensive Exam Committee for Matthew Alba, October 2003.
- Chair of completed PhD Comprehensive Exam Committee for Patricia Cano, December 2003.
- · Chair of completed PhD Comprehensive Exam Committee for Jessi Aaron, May 2004.
- Chair of completed PhD Comprehensive Exam Committee for Michelle Salazar, May

2004.

• Member of completed MA Comprehensive Exam Committee for Jenny Halpern, Linguistics, March 2004. 667

- Member of the College of Arts and Sciences' Interdisciplinary Committee on Latin American Studies (ICLAS), Fall 2003-Spring 2004.
- · Member of the Merit and Salary committee, Spring 2004.
- Member of the Search Committee for Portuguese Professor, Fall 2003-Spring 2004.

Catherine Travis

- Member of completed PhD Comprehensive Exam Committee for Jessi Aaron, Spring 2004.
- Member of completed PhD Comprehensive Exam Committee for Matt Alba, Fall 2003.
- Member of completed PhD Comprehensive Exam Committee for Jens Clegg, Fall 2003.
- Member of completed PhD Comprehensive Exam Committee for Michelle Salazar, Spring 2004.
- Member of completed MA Comprehensive Exam Committee for Barbara Finch, Linguistics, Fall 2003.
- Member of completed MA comprehensive exam committee for Mami McCraw, Educational Linguistics. Spring 2004.
- Member of completed MA comprehensive exam committee for Daniel Sanford, Linguistics, Spring 2004.
- Director of independent study course for Matthew Alba; 'Linguistic Variation Theory' Summer 2003.
- · Director of independent study course for Mami McCraw, Linguistics; 'The learning of

Japanese sentence-final particles': Discourse analysis. Fall 2003.

- · Library Representative for the Department of Linguistics, 2003-2004.
- · Chair of the Personnel Committee for the Department of Linguistics, 2003-2004.
- Conference Presentation Practice Talk Coordinator for the Department of Linguistics,
 2002-present.
- Member of the Activities Committee for the Department of Spanish & Portuguese, 2002-2004.

K. DIVERSITY

Throughout the last academic year the Department maintained its pursuit of diversity, making efforts to attract women and minority groups. The Department issued contracts to fifty-eight teaching assistants, fourteen of whom are Hispanic-Americans, two are Afro-American, and eleven are Hispanic individuals from such diverse places as Bolivia, Spain, Puerto Rico, and Mexico. Our three Portuguese teaching assistants are all from Brazil, one of whom is an African-Brazilian. There are four additional Spanish teaching assistants from Armenia, Japan, Israel and France. Women accounted for 59 percent of the total, of which fourteen are Hispanic. A total of two lecturers taught on a part-time basis, both of them are women, one of whom is Hispanic. The work study team was composed of five students, all of whom are Hispanic and three are women.

Annual Report Department of Speech and Hearing Sciences July 1, 2003 – June 30, 2004

Submitted by Janet L. Patterson, Associate Professor and Chair, Department of Speech and Hearing Sciences

I. Significant Developments

A. Accreditation

The department's master's degree program in speech-language pathology was reaccredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association (ASHA-CAA) for the maximum accreditation period of eight years, April 1, 2004 – March 31, 2012. The accreditation process included an application submitted by Amy Wohlert, Ph.D, to the ASHA-CAA in February 2003 and a site visit by Charles Madison, Ph.D. (Washington State University, Spokane), Sophia Hadjian, Ph.D. (SE Missouri State University), and Elisabeth Person, Ed.D. (Speech-Language Pathologist from Victoria, Texas) on December 11 and 12, 2003. The site team submitted a positive report to ASHA-CAA and documented evidence of full compliance with all 31 accreditation standards.

B. Mission Statement and Related Goals

A retreat was held on Friday, November 7 at the Petroleum Chub. The retreat began with a review of the department mission statement adopted in May 2001. The faculty agreed that the mission statement continues to reflect the priorities and broad goals of the department. Some minor editing was done, resulting in the revised mission statement, as follows:

The mission of the Department of Speech and Hearing Sciences at the University of New Mexico is to support the missions of the University and the College of Arts and Sciences by:

1. Creating and disseminating knowledge in the academic disciplines of communication sciences and disorders,

2. Pursuing excellence in clinical services as an applied component of students' education, as a component of research endeavors, and as a benefit to the community, and,

3. Increasing the participation of culturally diverse populations in our disciplines and preparing our students to be leaders in a multicultural and multilingual society.

Using the mission statement as a framework, the following topics were discussed during the retreat: Research goals, clinic/academic interface, meeting new professional accreditation standards regarding number of clinical practicum hours, the possibility of promoting consistency and efficiency in the graduate program and graduate students' curricular and clinical experience through requiring students to adhere to a pre-specified "lock-step" programs of studies, and continuation and expansion of multicultural and literacy information in the curriculum.

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C. UNM Speech-Language-Hearing Clinic

The following chart indicates the total number of sessions and the populations served by the Clinic for AY 2003-2004.

2003- 2004	Visits			Ethnicity					
	total	child	adult	white	hisp.	black	native am.	asian	not reported
	1864	1232	632	852	443	0	0	106	463

In addition to individual treatment for a wide range of speech and language disorders, the clinic provided group sessions for adults with aphasia, children that are language delayed, children with autism spectrum disorders, and transgender voice clients. The clinic also provides diagnostic and treatment sessions for clients wishing to modify their English pronunciation, many of whom are UNM graduate assistants whose first language is not English. Through our contract with the Albuquerque Public Schools, pre-school children identified in the APS "Child Find" program are seen for treatment at our clinic.

A fund was established to assist clients who cannot afford the department's Speech-Language-Hearing Center fees for speech-language pathology services. The funds are provided by a gift from Charlotte and Keith Lough.

D. Acquisition of Equipment and Major Materials

In AY 2003-2004 the department acquired equipment essential for faculty and student research and for students' clinical and academic education, in addition to furnishing our new facilities. The largest expenditure (\$39,680) was for an audiological sound-treated testing suite. The McCune Charitable Foundation (\$10,000) and other gifts to the department provided funding for this essential piece of research and clinical equipment.

Other research laboratory equipment and computers were purchased from faculty start-up funds, including 2 desktop computers & speech-signal analysis software (\$9613, Neel start-up funds) and an electroglottograph (\$2550, Palmer start-up funds).

Departmental furnishing, general/administrative equipment, and clinical & classroom instructional equipment and materials also were purchased. Two laptop and 2 desktop computers, 13 conference room chairs, 16 counter-height stools for observing clinical sessions, and a portable audiometer were purchased using a combination of A&S equipment funds, instructional and general funds, and clinic income. Clinic income and clinical course fees also paid for tests, protocols, all treatment materials used in the clinic, and 5 computers for clinic use.

E. Gifts

Donations provided funding for a conference table, an audiological sound-treated testing suite, assistance for clients needing help to pay our clinic's speech-language therapy fees, and scholarships for undergraduate and graduate students.

F. Communidad Crecer

From May 18 to May 26, 2004, Charlotte Lough, Clinic Director, and a group of 8 students (4 Speech-Language Pathology and 4 Occupational Therapy) and 2 other professionals visited *Communidad Crecer*, the rehabilitation center in Mexico City that has served as an educational site for our students since 1991. The group performed evaluations of children at the school, counseled parents, and provided equipment and materials to improve communication abilities of these multiply handicapped children. Professionals in the community donated wheelchairs and other adaptive equipment. The 4 SLP students were Antoinette Alderete, Maria Elena Garcia, Majorie Pyles, and Sharlene Sandoval.

G. Rural Health Interdisciplinary Program

Our program continued to participate in this UNM Health Sciences program. The program includes interdisciplinary classroom sessions and clinical practice in rural communities. In addition to our speech-language pathology graduate students, the program includes medical, nursing, and physician's assistants students, students in public health, pharmacy, respiratory therapy, occupational therapy, physical therapy, dental hygiene and social work. Our program has participated since 1994. One of our clinical supervisors, Katharine Blaker, serves as a Faculty Tutor, Steering Committee member, and Evaluation Committee member for the RHIP program, and one to four of our graduate speech-language pathology students participate each year.

H. Southwest Conference

The 13th Annual Southwest Conference on Communicative Disorders was held March 11- 12, 2004, at the Wyndham Albuquerque International Sunport Hotel. The conference was presented by the UNM Chapter of the National Student Speech-Language-Hearing Association and chaired by graduate student Mary Becker with the assistance of faculty advisor Charlotte Lough. Nineteen nationally-known professionals presented two full days of sessions covering a wide variety of topics in the fields of speech-language pathology and audiology. Approximately 300 students and professionals attended the event, which has become a primary continuing education source for the entire New Mexico speech and hearing community

I. Physical Plant

The department moved to its new location, 1712-1714 Lomas NE, upon completion of the remodeling of approximately 11,000 square feet for department offices and clinic space in September 2004. The department facility also includes approximately 3000 square feet of space to be remodeled in the future to provide research lab space and additional clinic space.

A playground on the south side of the department also is planned. A commitment for a gift of \$75,000 from the Hanson Foundation was obtained and UNM Facilities began work on designing the project.

J. Grand Opening

Approximately 300 people attended the Grand Opening held of the new department location on March 12, 2004. The event was held to inaugurate the building, dedicate the new

audiological testing suite, and invite supporters, past graduates, the UNM community, and the public to tour the new department facilities.

II. Significant Plans and Recommendations

1. Obtain approval for hiring tenure-track faculty in speech-language pathology to result in a total of 7.0 FTE of tenured/tenure track faculty in the department.

2. Pursue the completion of Phase II of our building project, which will provide faculty laboratories and additional clinical space.

3. Initiate the Speech-Language-Pathology concentration in the Linguistics PhD program, admitting our first students in Fall 2005.

4. Seek full UNM funding for professional staff members. Two of our three current professional staff lines are funded by UNM at 75% and 68% with the remaining funding charged to an outside contract that was designed for another purpose.

5. Increase research productivity in terms of faculty publications and grant funding.

6. Increase integration of clinical and academic aspects of the graduate program.

III. Appointments to Faculty and Staff

Cathy Binger was hired during a search process in AY 2003-2004 to replace Dr. Linda Riensche Cullivan, who retired in September 2002. Appointment of Cathy Binger is anticipated for January 2005, following completion of her Ph.D. in Fall 2004.

IV. Separations of Faculty and Staff

There were no separations of faculty or staff. Amy Wohlert, Ph.D. was appointed Interim Associate Provost for Academic Affairs in June 2004; her appointment in Speech and Hearing Sciences continues.

V. Faculty Achievements

A. Publications

Rodríguez, B.

Rodríguez, B. & Olswang, L. B. (2003). Mexican-American and Anglo-American mothers' beliefs regarding child rearing, education, and language impairment. *American Journal of Speech Language Pathology*, *12*, 452-462.

Rodríguez, B. (2004). Creencias: Mothers' beliefs about child rearing, education, and language impairment. *Word of Mouth*, 15, 4-7.

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B. Selected Presentations

Neel, Amy

Rogers, C. L., and Neel, A.T. (2003, November). *Low-cost software for speech* science teaching and research. Invited talk presented at the American Speech-Language-Hearing Association Convention, Chicago, IL.

Palmer, Phyllis

Swallowing Problems & Treatment for Patients with OPMD. Presented in November 2003 at the Muscular Dystrophy Meeting, Albuqueque, NM.

Patterson, Janet

Bilingual Toddlers: When Should We Assess Both Languages? American Speech-Language-Hearing Association Annual Convention, Chicago, IL. November 2003.

Rodriguez, Barbara

Rodriguez, B. (2004, February). *Preschool language development: Implications for the preschool classroom*. Presentation at the City of Albuquerque, Child Development Centers, Professional development meeting.

Rodriguez, B. (2004, February). *Sociocultural Learning*. Presentation at Albuquerque Public Schools, Even Start Educators, Inservice.

Rodriguez, B. (2003, August). *Parental involvement in early language and literacy development*. Presentation at the 2003 Summer Institute Project LEER, Albuquerque, New Mexico.

Westby, C., Scheffner Hammer, C., Vigil, D., and Rodriguez, B. (Special invited session: 2003, November). *Caregiver Interactions Across the Multicultural Spectrum: Research & Applications*. American-Speech-Language-Hearing Association, Annual Convention, Chicago, Illinois.

Vining, Christine

New Mexico's Native American Languages: Language and Dialectal Variations. 13th Annual Southwest Conference on Communicative Disorders, Albuquerque, NM: March 2004.

Issues in Bilingual Special Education. With Fastwolf, F., Lopez, P., Martinez, S., Soto-Gomez, Y., La Cosecha-Eighth Annual Dual Language Conference. Albuquerque, NM: November 2004.

New Mexico Legislation Affecting SLPs and Audiologists and SEALS Issues. With Jaramillo, M. Stewart, M. Ulibarri, ME, Wood, D. NMSHA Convention, Albuquerque, NM: October, 2003.

C. Selected Service

Ballachanda, Bopanna

-Member of Multicultural Issues Board, American Speech-Language-Hearing Assoc. -Chair: Ad Hoc committee Auditory Evoked Potentials, Tutorial and Web based

learning -- American Speech-Language-Hearing Association

-President, New Mexico Speech-Language & Hearing Association

-Chair, UNM Athletics Council

-UNM Faculty Senator

Lough, Charlotte

-Member, Health Rehabilitation Services Association (HRSA) Steering Committee -Member, NM Stroke Task Force

-Board Member, Society for Cognitive Rehabilitation, Inc.

-Board Member, Society for Cognitive Renabilitation, inc.

-Area Representative, National Stroke Association

-State Representative, National Neurotrauma Registry

Neel, Amy

- College of Arts and Sciences Undergraduate Council

-College of Arts and Sciences Scholarship Committee

Palmer, Phyllis

-Editorial Consultant, Journal of Speech, Language, & Hearing Research.

Patterson, Janet

 -Editorial Consultant, Language Speech & Hearing Services in Schools
 -2004 ASHA Convention Program Committee Member, Multicultural and Diversity Issues

Rodriguez, Barbara

-Ad Hoc Reviewer, American Journal of Speech Language Pathology

-Ad Hoc Reviewer, Contemporary Issues in Communication Science and Disorders-

Vining, Christine

- -Member, Executive Board of Council of State Association Presidents (CSAP), Chair of Local Arrangements for Spring Conference- 2004, 10/2002-5/2004
- -Participant, New Mexico State Bilingual Advisory Board, 01/04-present
- -Mentor, Minority Student Leadership Program, American Speech-Language-Hearing Association (ASHA), 03/03-10/03
- -Vice-President: Professional Affairs, New Mexico Speech-Language-Hearing Association (NMSHA), 10/03-10/04
- -Past-President, New Mexico Speech-Language-Hearing Association, 10/02-03.
- -Past-President, New Mexico Division of Culturally and Linguistically Diverse Exceptional Learners (NMDDEL), 11/02-12/03
- -Reviewer/Consultant, National Early Childhood Transition Center (NECTC), Diversity Work Group, University of Kentucky, Lexington, KY, 11/2003-present

Wohlert, Amy

-Chair-Elect, Council on Academic Accreditation of the American Speech-Language-Hearing Association.

-Consulting Editor, Journal of Speech, Language, & Hearing Research.

- -Chair, UNM A&S Junior Faculty Tenure and Promotion Committee.
- -Speech-language pathology consultant for Stedman's Concise Medical Dictionary, Williams and Wilkins Publishers

-Secretary, Council of Academic Programs in Communication Sciences and Disorders

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B. Honors, Awards

Sue Garley

-Outstanding UNM Staff Award, March 2004

Palmer, Phyllis

-SHS Teacher of the Year award, March 2004.

Rodriguez, Barbara

-American Speech Language and Hearing Association, Advancing Academic-Research Careers Award, \$5,000.

-Family Research Consortium IV, University of California-Los Angeles, Travel Awardee, June 2003.

Wohlert, Amy

-Honors of the Association, New Mexico Speech-Language-Hearing Association

VI. Outside Sponsored Research and Programs

National Institutes of Health/NICHD/Pennsylvania State University

Dr. Barbara Rodríguez continued her work on the NIH-funded research project, "Bilingual Preschoolers: Precursors to Literacy" (a two-year Minority Supplement Award for 2003-2005; funding for Spring 2003-Spring 2004 was \$101,107). The purpose of this study is to examine the nature of bilingual language and literacy development in English/Spanish bilingual preschool children.

Albuquerque Public Schools

The department maintains a contractual arrangement with the Albuquerque Public School System. APS provided \$68,792 for 2003-2004 to provide stipends and tuition for a graduate assistant, paid internships and tuition for four graduate students, partial salary support for two clinical supervisors, and funds for materials and operating expenses. In addition, three full-time clinical supervisors were paid by APS to supervise UNM graduate students in public school settings. This contract has been renewed annually since 1995.

VII. Students

A. Graduates

From fall, 2003 through summer, 2004, 21 master's students received their degrees. Of those reporting their prospective plans (14/21), the following sites of employment were represented:

New Mexico public schools	29%
New Mexico health care facilities	14%
New Mexico private practice	36%
Out-of-state	14%
Further study (doctoral)	7%

Twenty-seven students received the Bachelor of Arts degree majoring in Speech & Hearing Sciences.

B. Theses

Chaired by Dr. Rodríguez

Miguel Montiel. "A Study of Mexican-American Mothers from Low SES Backgrounds and Book-Reading Interactions with their Young Children."

C. Honors and Awards

The following students received funding and/or honors during AY 2003-04 (list may not be complete):

Crossman Scholarship: Krissi Spence

Chreist Scholarship: Lea Weaver

Josephine Chen Scholarship: Maya Parker

OGS 3% Scholarship: Jennifer Chao, Mary Beth Griffin, Stephanie Rich, Sharlene Sandoval

Project BRIDGE: Ivonne Flores-Medeiros, Sandy Frey, Maria Elena Garcia, Quella Garcia, Nadine McDaniel, Marlaina Romero

Project LEER: Antoinette Alderete, Kimberly Branch, Cindy Nguyen,

SHS Graduate Assistantships: Cheray Bell, Mary Becker, Jennifer Chao, Mya Colasurdo Bridget Guenther (fall semester), Judi Ferdinand, Leigh Ann Hatcher (spring semester), Sarah McGinnis, Tiffany Paulus, Lorie Reese, Demarre Sanchez

APS Graduate Assistantship: Rebecca Solomon, fall semester; Bridget Guenther, spring semester

D. Applications

There was a total of 50 applications for 2003-2004 entry into the master's program in speech-language pathology. We accepted 28 of those applicants and 22 enrolled in the program.

E. Enrollment

In spring of 2004, 89 undergraduate A&S students majored in Speech and Hearing Sciences and an additional 8 students in the major were registered in University College (46 Hispanic, 41 White/non-Hispanic, 8 American Indian, 1 Asian, 1 Black). The master's degree program served 56 enrolled graduate students (28 White/non-Hispanic, 24 Hispanic, 3 Asian, 1 Black). Approximately 34 students were taking courses in the department under non-degree status.

The total department course enrollment for Fall 2003 and Spring 2004 was1830 student credit hours (SCH) in undergraduate courses and 973 graduate SCH. In summer 2004 students were enrolled in 225 graduate SCH.

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Women Studies Annual Report July 1, 2003-June 30, 2004 Submitted by: Gail Houston, Associate Professor, English Director, Women Studies Program, Aug 1, 2003-

9/29/04

1. Significant developments

- a. Approval of Faculty Proposal for WS: In February 2004, the Dean approved the WS Executive Committee's Proposal for Women Studies Faculty Plan: this plan will build the credibility of our program by moving away from TAs and PTIs being the foundation of the program to tenured UNM faculty as joint appointments, a full-time Post-doctoral Teaching Fellow and TAs as the foundation of our program, reducing our reliance on PTIs significantly.
- b. The WS Executive Committee approved a Proposal for a Graduate Certificate in WS; that certificate is now going through the process of receiving approvals and we plan on it being established in fall of 2005, spring 2006 at the latest. This will also give further academic credibility to our program and encourage full-time faculty and graduate students to become involved in our department.
- c. The WS Brown bag series was started in fall of 2003, with 3 presenters every semester. Our average has been between 15-35 people in attendance.

September 2003	Melissa Axelrod, "Violence in Guatemala" (the Lobo did an article on it)
October 2003	Ann Skinner-Jones, "Judy Chicago's Art"
November 2003	Jesse Aleman, Unsexed by War"
February 2003	Lori Rudolph, "Women & Peace Movement in Palestine/Israel"
March 2004	Dorothy Baca The Decorated Body
April 2004	Professor Gwin, one on April 22 ("Space and Gender) and one on April 23 ("Wishing for
Snow")	

- d. The establishment of 1st annual UNM Women of Color Conference by graduate students was very successful (there were about 300 people who attended from all over the world.) This will be a yearly conference at UNM and should put us on the map in this area. WS will continue to support this very important event.
- e. Honors component added to WS: We received \$1450 from A&S in spring 2004 to give 10 scholarships to the Women of Color Conference, to pay for registration; \$500 a semester for a research project by a WS student. And \$250 for spring and fall for the best WS student paper. This helps to encourage our students to write more academic papers. We have applied for this money again for the coming year.
- f. In conjunction with the honors writing awards, WS added a requirement that all teachers include 20-25 pages of analytical writing in each course; we will add to that requirement this spring that a portion of that writing be a research paper component. This helps to build the academic strength of our program.
- g. Houston made contacts with Women in Science Director Elaine Borrelli and Sally Seidel in the Physics Department. We are working on finding someone to teach a Women in/and Science course as well as other ways to collaborate. It is important for WS to make more connections with the sciences. I have also added Laura Crossey to the WS Executive Committee, which also makes more links with the sciences.
- h. WS had a huge graduating class in the spring of 2004 (10 majors, minors, BUS/WS concentration students). Currently we have 10 majors, 11 second majors, 19 minors, and at least 7 BUS majors with concentrations in WS. WS and its crosslisted courses continue to typically provide courses for between 400-500 students a semester.

i. WS added an undergrad list-serv that makes it much easier to communicate important events and announcements to students. We added a grad list-serv this fall.

2. Plans & Recommendations for the Future

- a. The Executive Committee focused on curriculum this year, and will make a recommendation to the committee at the end of year; at this point it appears that the sub-committee and full committee are interested in revamping WS to a cluster model that would go well with UNM's Cluster Program and fit the needs of students who are already creating an ad-hoc cluster model for themselves. This model will work well with our new faculty plan as well and the new graduate certificate.
- b. The Brown bag series has been turned over to FRI beginning in spring 2005 because such a series is more in line with what they do as we prepare for graduate cert to be put in place (courses).
- c. As we transform from a faculty heavily reliant on PTIs to one reliant on a post-doc and joint appointments, it is crucial to make strong ties with departments across campus in order to encourage them to offer more undergrad and graduate courses that can be x-listed with Women Studies, so that our Program can increasingly rely on courses offered by other departments.
- d. At least one WS course should be made part of the core requirements for a degree.
- e. We will need to carefully regulate and monitor how to administer the graduate certificate.

3.Appointments to Faculty and Staff: We are working to expand and diversify and use more tenured faculty and visiting appointments.

Karen Foss, First Faculty Joint Appointment Tas/GA: Fiona Sinclair, Kate Lehman, Patricia Perea, Katherine Greysen Ann Cacoullos, Professor from Greece Maria Betancor, Professor from Canary Islands Patricia Lopategui, new PTI working on Mexican feminism Regular PTIs: Ann Skinner-Jones, Maya Sutton, Lori Rudolph, Rinita Mazumdar

4. Separations of Faculty and Staff

TAs: Betsy Erbaugh, Laura Fujikawa, Hadard Ma'Ayan

5.Outside Professional Activities

*Women Studies co-sponsored a number of speakers and event this year with African American Studies, Women's Resource Center, English, American Studies, and Native American Studies.

*Karen Foss, our first faculty joint appointment, used travel money for a conference on Women and Gender and Communication.

*Lori Rudolph, used travel money to do research in Palestine/Israel on her Women and Peace movement work.

*Rinita Mazumdar represented WS at the WS conference in Milwaukee at NWSA.

6. Women Studies Associates and Affiliates and their work (the following represents just some of what our affiliates and associates are doing in their scholarship over the last year.

Bonnie Duran

~Duran, B., Malcoe, L.H., Sanders, M., Waitzkin, H., Skipper, B., & Yager, J. (2004). Child maltreatment prevalence and mental disorders outcomes among American Indian women in primary care. Child Abuse & Neglect, 28, 131-145.

~Duran, B., Sanders, M., Skipper, B., Waitzkin, H., Malcoe, L. H., Paine, S., et al. (2004). Prevalence and correlates of mental disorders among Native American women in primary care. Am J Public Health, 94(1), 71-77.

~Duran, B., & Walters, K. (2004). HIV/AIDS prevention in "Indian Country": Current practice, indigenist etiology models, and postcolonial approaches to change. AIDS Education and Prevention, 16(3), 187-201.

~~Malcoe, L.H., Duran, B.M., Montgomery, J.M. (2004) Socioeconomic disparities in intimate partner violence against Native American women: a cross-sectional study. BMC Medicine 2:20.

~Oetzel, J., & Duran, B. (2004). Intimate Partner Violence in American Indian and or Alaska Native Communities: A social ecological framework of determinants and interventions. Journal of the Center for American Indian and Alaska Native Mental Health Research.

~Duran, B. (2004). Race, Racism and the Dharma. In H. G. Baldoquin (Ed.), Dharma, Color, and Culture: New Voices in Western Buddhism (pp. 135-140). Berkeley: Parallax Press.

--Wallerstein, N., Duran, B. (2003). The Conceptual, Historical and Practical Roots of Community Based Participatory Research and Related Participatory Traditions. In: Minkler, M., Wallerstein, N, Eds. Community Based Participatory Research. San Francisco: Jossey Bass.

Wallerstein, N., Duran, B. M., Aguilar, J., Joe, L., Loretto, F., Toya, A., et al. (2003). Jemez Pueblo: built and social-cultural environments and health within a rural American Indian community in the Southwest. Am J Public Health, 93(9), 1517-1518.

Chavez, V., Duran, B., Avila, M. and Wallerstein, N. (2003). The Dance of Race and Privilege in Community Based Participatory Research. In: Minkler, M., Wallerstein, N., Eds. Community Based Participatory Research. San Francisco: Jossey Bass

Pamela Cheek, Sexual Antipodes: Enlightenment Globalization and the Placing of Sex (Stanford University Press, 2003).

Janet Cramer

Hendry, Judith and Cramer, Janet M.; Moral ecology and the logic of colonization in the "What would Jesus Drive?" anti-SUV campaign. *Environmental Communication Yearbook* 2, January 2005.

Cramer, Janet M.; Cross purposes: Publishing practices and social involvements of 19th-century U. S. missionary women. *Journalism History*, October 2004.

Cramer, Janet M.; Discourses of sexual morality in "Sex and the City" and "Queer as Folk." *The Journal of Popular Culture.* (Forthcoming).

Cramer, Janet M.; White womanhood and religion: U.S. missionary women's publications, 1890-1905; *The Howard Journal of Communications* 14(4), December 2003.

Cramer, Janet M. & McDevitt, Michael; "Ethnography" in *Taking it to the streets: Using qualitative methods to research and report public concerns and issues*; S. H. Iorio (Ed.); 127-143; New York: Lawrence Erlbaum Associates, Inc.; 2004.

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First Annual Report for PROFOUND August 20, 2004

Founding of PROFOUND

PROFOUND was established as a campus-wide service to students and faculty in August 2003 with funding from five University of New Mexico offices: Dean of the College of Arts & Sciences, Dean of the School of Engineering, UNM Provost, UNM Vice Provost for Research, and UNM Vice President for Student Affairs. PROFOUND was designed to improve student retention rates by offering on-campus job opportunities for students who must work to attend school. The mission of PROFOUND is to support the objectives and values of the UNM campus in recruiting, retaining and educating undergraduate students by facilitating their participation in scholarly and scientific research under the direction of a faculty mentor.

Committee on Undergraduate Research (CUGR)

PROFOUND is advised by a faculty group, entitled the Committee on Undergraduate Research (CUGR), which was involved in helping to establish the program. CUGR meets once a month to discuss issues relevant to undergraduate research and to plan events for the PROFOUND program. The list of current CUGR members is attached. As can be noted, the faculty represent fields across the curriculum, which is what PROFOUND is designed to do.

Website

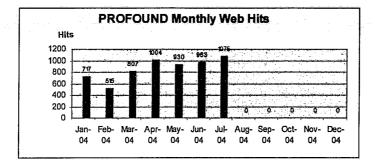
The primary vehicle for PROFOUND is the web. The website for PROFOUND offers an interactive database for students to register their online "applications" and it went live in late September 2003. This database provides information about students that faculty can access by registering with a login name and password on the site. Thirty-nine students have registered on the website. The site lists current research projects on campus and several summer opportunities at other universities with REU programs and/or research experiences in private industry. Upcoming events or deadlines for programs are listed on the New and Events page. Registration for the UNM Celebration of Undergraduate Research Symposium that is scheduled for every April is also handled online.

A faculty email was sent out by *faclist* asking faculty to answer a survey posted on the PROFOUND website. Fifty-nine faculty from both the Main and Health Sciences campuses responded to the survey. Thirty-nine of the respondents have agreed to be part of a speaker's bureau that will go out into the local high schools to do presentations to encourage students to seek a degree in research related programs and to attend UNM.

The graph below represents the number of hits the PROFOUND website has had monthly since January 2004. Since the end of the spring semester 2004, this office has participated in each of the fourteen Freshman Orientation sessions. These freshmen may account for the steady increase in site visits during the traditionally "slow" summer

months. These outreach efforts have met with great interest from both the students and parents who attend these orientation sessions.

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Grand Opening

After the website was established, the PROFOUND Grand Opening was held on Thursday, December 4, 2003, in the Student Union Building. Robert Ward, a former undergraduate researcher at UNM and currently a Cal-Tech graduate student, was the keynote speaker. The event was attended by over 150 people, with media coverage by the *Albuquerque Journal*, *New Mexico Business Weekly* and the *Daily Lobo*, among others (see attached articles).

1st UNM Celebration of Undergraduate Research Symposium

The 1st UNM Celebration of Undergraduate Research Symposium was held Monday, April 19, 2004, in the Student Union Building Ballrooms A & B. Mayor Martin Chavez sent a letter of support for the symposium and undergraduate research program. Tim Martin and Steve Gangestad addressed the audience about the research that is taking place in the Psychology Department. Teresita Aguilar, Dean of Graduate Studies spoke to the undergraduates about the application process to graduate programs. The keynote speaker of the day was UNM alumni Larry Crumpler, a project scientist for the NASA Mars Rover and research curator for volcanology and space science at the New Mexico Museum of Natural History and Science.

Fifty students representing twenty-seven undergraduate degree programs and thirty-one faculty mentors presented posters. Judging of the posters was done by fifteen volunteer faculty judges from the Main campus and the Health Sciences Center. Posters were judged on content, creative display, and/or oral presentation. Five grand prize winners were awarded \$200 awards and 1^{st} place certificates:

Whitney Petrie--Biochemistry Down-Regulation of Junctional Proteins in Response to Epidermal Growth Pactor in Human Squamous Cell Carcinoma Lines Linnah L. Neidel--Earth & Planetary Sciences Oxygen Isotopes of Middle Pennsylvanian Apatitic Conodonts as a Potential Record of Pennsylvanian Glacial Ice Volume Variations

Julia Gilroy--Economics The Effects of Women's Labor Force Participation in Developing Countries

Jake D. Hochhalter--Engineering Process Induced Errors in Replicated Carbon Fiber Reinforced Polymer Mirrors

Cheryl Monfette—Psychology Behavioral Effects of Environmental Enrichment on Western Lowland Gorillas (Gorilla Gorilla Gorilla)

All participants in the symposium received certificate awards from the office of Senator Manny Aragon. Students were also acknowledged in a half page ad in the *Albuquerque Journal*, and the event was covered in articles in the *New Mexico Business Weekly* and the *Daily Lobo* (see attached articles).

Other Activities

In addition to the summer orientations, the Program Coordinator is available to discuss and promote PROFOUND to undergraduates and faculty, and during the past several months has fielded hundreds of inquiries from students during invited presentations to departments, student groups, high school summer program participants, or telephone, email and drop in visits. The Program Coordinator is also the Institutional Coordinator for the UNM site of the New Mexico AMP (Alliance for Minority Participation), and attends the annual symposium in Las Cruces. Conferences that the Program Coordinator attended during the past year, which provided opportunities for networking and learning about other creative ways to engage students in research, include:

NM AMP 2003, September 26-27, 2003, Las Cruces, New Mexico

SACNAS (Society for the Advancement of Chicanos and Native Americans in Science), October 2-5, 2003, Albuquerque, New Mexico

CUR (Council on Undergraduate Research) Tenth National Meeting, June 23-26, 2004, La Crosse, Wisconsin

Plans for Years 2 and 3

PROFOUND has already begun to launch a new service component to help faculty with preparing REU and NIH supplement proposals to obtain funding for student research assistance for their NSF- and NIH-funded research projects. We are preparing to submit a proposal to the McCune Foundation for a program that will offer research experiences to selected high school students during the summer of 2005, and then help them to exhibit their posters at national meetings. The PROFOUND program is also being written into

proposals as a partner to help with implementing various training grants, such as PREP, a campus-wide collaborative project that will assist underrepresented minority students preparing for graduate school by offering mentored research experiences in laboratories across the campus (both Main and HSC) and coursework to enhance their science and mathematical knowledge and skills.

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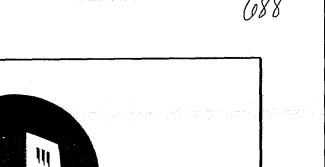
PROFOUND will sponsor the 2nd Annual UNM Celebration of Undergraduate Research Symposium on Wednesday, April 13, 2005, in the Student Union Building Ballrooms. We will publicize it broadly to invite any and all students who are conducting research on campus to participate, and we hope to double the number of participants. We will continue to be active in promoting PROFOUND during the freshman orientation sessions held on campus throughout the summer and expand our outreach to high school juniors and seniors throughout the year.

PROFOUND Program of Research Opportunities FOr UNDergraduates

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Committee on Undergraduate Research (CUGR) Members

Interim Associate Dean for Research
Program Coordinator PROFOUND
Dean, Graduate Studies
Chair, Electrical & Computer Engineering
Earth & Planetary Science
Education Leadership
Physics
Physics
Albuquerque Teachers Institute
Electrical & Computer Engineering
Chair, Chemical/Nuclear Engineering
Financial Aid
Special Programs
Student
Psychology
Student
Electrical & Computer Engineering
Neurosciences/Cell Biology
Student
Physics
Civil Engineering
Electrical and Computer Engineering
Chair, Civil Engineering
Computer Science
Biology



The University of New Mexico

LOS ALAMOS

ANNUAL REPORT

Academic Year 2003 - 2004

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UNM-LOS ALAMOS ANNUAL REPORT

REPORTING PERIOD: JULY 1, 2003 - JUNE 30, 2004

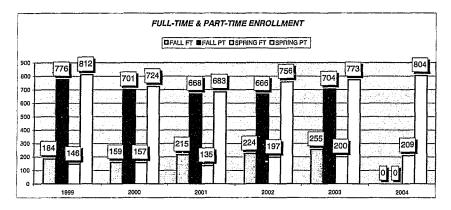
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SIGNIFICANT DEVELOPMENTS, 2003-2004

OVERVIEW BY EXECUTIVE DIRECTOR:

During the 2003-2004 academic year UNM-LA increased it's over all enrollment of students in credit and community education courses over the previous academic year as is evidenced by the following charts:



	1999	2000	2001	2002	2003	2004
FALL SEMESTERS						
American Indian	60	22	39	31	50	
Black	10	4	3	6	8	
Asian	25	28	31	24	21	
Hispanic	280	310	323	351	358	
White, Non-Hispanic	539	468	455	426	454	
Foreign	17	9	5	13	14	
No Response	29	19	27	39	54	
Total Headcount	960	860	883	890	959	

	1999	2000	2001	2002	2003	2004
SPRING SEMESTERS						
American Indian	58	42	34	35	35	51
Black	8	7	4	5	3	5
Asian	33	28	27	21	22	18
Hispanic	283	269	274	334	372	393
White, Non-Hispanic	523	499	446	524	475	486
Foreign	14	15	7	7	20	11
No Response	39	21	26	27	46	49
Total Headcount	958	881	818	953	973	1013

Following are highlights of the campus-wide achievements for the 2003-2004 academic year:

- A total of fifty-three students received AA/AAS degrees and/or certificates and fifty individuals received GED's during 2003-2004. Of those GED students a total of 21 enrolled in post secondary programs at UNM-LA.
- A total of 113 students participated in the College Cornerstone Program designed to provide foundational skills in math, English, reading, science and academic skills to academically under prepared students.
- Forty -two 2003 high school graduates participated in the UNM-LA 2003 Summer Bridge program. Of those students, 34 enrolled in post secondary schools in fall 2003.
- Over 200 children in grades 1st through 6th from throughout Northern NM participated in Children's College

UNM-LA hosted the following major events during the academic year:

- Jim Sagel Memorial Lecture Series
- Piano Fund Concert Series
- Art exhibits- A.J. Melnick's show "Carrying on the Tradition" featuring photographs of the prominent Moquino family, potters, of Santa Clara Pueblo and works of sculptor Jean Balagna.
- Monthly movies co-sponsored with the Los Alamos Film Society
- Los Alamos County Job Fair
- A Taste of Autumn Scholarship Fundraiser
- Endowment/Scholarship Benefit Dinner featuring prominent community members as celebrity waiters

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Campus Achievements:

• Three staff members successfully completed the Management Academy at UNM-A: Rick Goshorn, Accountant III: Patricia Boyer, Community Education supervisor; and Maisie Trujillo, Registrar.

1,91.

- UNM-LA transfer students were honored at a special reception at UNM-A at which Provost Foster and VP for Student Services Eliseo Torres participated along with other UNM-A administrators and staff members.
- UNM-LA instituted its first international education trip during this academic year. The trip consisted of two courses earning each six credit hours that were taught by Arsenio Cordova and the class traveled to Chihuahua, Mexico.
- The UNM-LA Bernalillo site continued to grow and prosper during this academic year. Additional credit courses were added to the schedule and the ABE program in cooperation with the Bernalillo School District continued to expand.
- Six new core faculty members were hired at the institution thus increasing the total number of core faculty members at the institution.
- UNM-LA was a founding member of Leadership Los Alamos and hosted the planning meetings for the new organization. A total of 3 UNM-LA individuals participated in the 1st class: Carole Neal, math core faculty member, Linda Weeks, UNM-LA advisory board member and Patricia Boyer, Community Education Supervisor

Scholarships & Fundraising Efforts:

- Fundraising events brought in over \$50,000 for the UNM-LA endowment and scholarship funds.
- In the fall of 2003, the "A Taste Of Autumn" scholarship fundraiser brought in approximately \$14,873.
- In the spring of 2004, the Endowment/Scholarship Benefit dinner brought in approximately \$12,000.
- A total of \$49,036 was donated from the estate of Joe and Stella Martinez to establish a scholarship endowment.
- The Espanola Woman's Club donated \$15,000 to establish an endowment scholarship.
- Los Alamos National Bank donated \$3,000 for the ESL program

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UNM-Los Alamos Annual Report July 1, 2003 to June 30, 2004 Dr. Carlos B. Ramirez, Executive Director

DEPARTMENT OF INSTRUCTION

Community Education/Customized Training

- Secured LANL Foundation Grant for \$3,250 to support 2004 Children's College Program.
- · Altered format for Young Readers and Writers Conference resulting in increased enrollment.
- Increased number of joint credit/non-credit course offerings.
- Utilized Work Force Development monies to diversify training workshops/classes.

Library

- Staged a total of eight new exhibits.
- John F. Kennedy and D-Day exhibits curated in conjunction with the History Channel.
- Added four new electronic databases.
- Major book shifting project completed to make room for new acquisitions.
- Added to acquisitions from State GO Library Bonds.
- Facilities issues resolved, including leaking roof and installation of support beam guards.
- Circulation system upgraded with new interface software, a new PC and barcode scanners.
- Staff work areas upgraded with new workroom printer and barcode scanners at each workstation.

Adult Basic Education

- Added L.A and Bernalillo ABE Class Schedules to campus website.
- Expanded faculty orientation sessions to include ABE instructors.
- Increased the numbers of GED recipients enrolling in credit courses by 90%, from 27 to 50.
- Received LANL Foundation funding for staff professional development activities.
- Developed partnership with Los Alamos Middle School that provided parent /student tutorial assistance- funded by money CHE Gear Up grant monies in the amount of \$5,724.
- Increased number of class offerings at Bernalillo Site from 49 to 73.
- Created Pathways to College Scholarship Program for Bernalillo Site. Advanced ESL students to facilitate entry into IS010 credit English courses.

Tutorial Center

- Increased number of tutor volunteers from 8 to 10.
- Added two additional computer workstations.
- Increased overall tutoring service hours.

Credit Instruction

• Completed, presented, and received approval for restructuring of academic administration into three divisions (from two) and nine curriculum areas (from eight).

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- In collaboration with Division Heads, completed selection process for appointments for new academic administrative structure.
- Worked with Public Affairs Department to complete 2004-2006 catalog.
- Completed successful searches for six new core faculty positions.
- Increased number of web-based and web-enhanced course offerings by 10%, from 15 to 17.
- Increased overall scheduling/course management resulting in headcount and FTE increases.
- Submitted funding proposals to eleven entities including four new sources. Six were funded for a total of \$324,181.

Science and Technology Division

- Hired 16 new adjunct faculty members in the Science area and 8 new adjunct faculty members.
- Hired 5 new adjunct faculty members in the areas of Computer Science, Network Administration, Digital Media arts, and the Technologies.
- Provided information to advisors on unwritten pre-requisites for several science, computer science, and technology courses.
- Sent written reports to advisors regarding changes to degree programs to be in effect starting June 2004. Degrees changed: AAS/Cert. In CS, Net Admin, Web Tech, Tech Support, DMA, Environmental Engineering, Pre-Engineering, Science, Electro Mechanical Technology.
- Held an Outcomes Assessment (OA) meeting for all core faculty in the division in which the goals of OA on our campus were discussed and training was provided for doing OA in a science and technology environment.
- OA results were collected and compiled from all core faculty in the division.
- Mathematics Outcomes Assessment Plan was updated and revised. Triangulation (assess, analyze, implement change) was successfully used. Instruments were developed to measure math anxiety.
- Collected and labeled outdated and excessive hazardous chemicals from the 312 storeroom and 516 and arranged for appropriate disposal.
- Curriculum Coordinator (Leslie Dendy) underwent training Occupational Health office at UNM-ABQ to have the lung test and health evaluation required for a respirator fitting, and to the SHEA office to have the actual respirator fitting and training.
- Created new MSDS notebooks for 312 and 516; ongoing collection of updated MSDS's to provide the latest safety information to lab users.
- Substantially updated the AAS/Cert. In Computer Science to reflect changes on main campus to the BS in CS degree.
- Substantially revised the Windows track of both the AAS/Cert. In Network Administration to reflect changes in the current technology.

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- Made minor updates to these (DMA/Tech Support/Web Technology) degrees to reflect changes requested by faculty to bring the degree programs more up-to-date.
- Completed revision of the Electro-mechanical Technology courses, certificate, and AAS.
- Revised Materials Science Technology courses and certificate.
- Thoroughly revised the portions of the catalog pertaining to Science, Engineering, and what is now Applied Science, including revisions of any degree or certificate programs requiring science courses, to reflect main campus changes in courses and course descriptions as well as UNM-LA changes in local courses and degree programs.
- Started development of the new biology core courses recently created by the main campus (Biol. 201, 202, 203L, 204L). Offered Biol. 201 for the first time. Advised students on the transition to these new courses.
- Thoroughly revised, IT Cooperative Education paradigm and distributed the new process distributed to advisors and faculty.
- Major additions were made to the shop/welding classroom through new purchases and donations from LANL.
- New equipment (CPR dummy, etc.) was acquired for the EMS course, which previously used borrowed equipment.

Arts & Social Sciences Division

- Participated in creation of third division: Mathematics, Science & Engineering Division with new discipline area for Applied Sciences.
- Provided information on unwritten pre-requisites for advisors.
- English composition program: Input/processed four years of outcomes assessment data backlog; in process of analyzing data.
- Began review of outcomes assessment form design & training problems.
- Compiled a draft of a comprehensive Outcomes Assessment Plan for the Developmental Education area.
- Completed updated Inventory for all chemicals in Art Labs and completed collection of MSDS for all chemical s in Art Labs.
- Arranged, coordinated, and held Chemical Hazard Safety Training and Pollution/Recycling training for staff and faculty.
- Created advisory board and held advisory board meeting for OCT degree after completion of curriculum and arranged for creation of brochure; mentored faculty member who was spearheading program.
- Facilitated six English composition department meetings, with input from & participation by members of the ABE program, tutorial center, and Bernalillo site:
- Addressed curriculum issues in all levels of English;
- Worked on textbook selection and creation of new curriculum materials;

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- Oversaw re-design of English 010;
- Trained faculty in midterm cross-grading;
- Began review of outcomes assessment form design & training problems.

STUDENT SERVICES DEPARTMENT

UNM-Los Alamos Student Services puts students first by offering quality services and programs for not only the students themselves, but also for the overall campus community. One area in which Student Services has improved service to our students is by attendance at Banner/Link trainings on main campus. Adequate training will provide a smoother transition when Student Services is fully running on the system in the fall of 2005. We continue to promote our educational collaboration with the Los Alamos National Laboratory, which allows student internships that enhance a student's educational experience at UNM-Los Alamos.

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Scholarships

- UNM-LA Summer Bridge Program helps students with the transition from high school to college. The program pays tuition and a stipend for students to take college courses prior to enrolling as a freshman in the fall. There were 42 students who completed the program out of 46 admitted to the program the summer of 2003, 21 of whom registered for classes the fall of 2003 at UNM-LA.
- The UNM-LA Bridge to Success Scholarship is an institutionally funded scholarship that is automatically awarded to eligible recent GED and high school graduates who enroll full-time in a degree program during their first semester of college.
- New Mexico Lottery Success Program provides full-time students that maintain a GPA of 2.5 with tuition stipends. A total of 101 students were awarded the NM Lottery Success Scholarship for a total of \$51,240.
- The UNM-LA Scholar's Program Scholarship was created in 1998-1999. It provides students with a 3.5 or higher GPA with free housing, tuition, fees and books. A total of 12 students were awarded the UNM-LA Scholar's Program Scholarship for a total of \$9,328.99.
- The Alliance for Minority Participation (AMP) encourages minority students to pursue studies in science, engineering, math and the technologies.
- The Jim Sagel Memorial Scholarship Endowment was created in 2000 to recognize the literary achievements of the late professor. The scholarship is awarded to students with a focus on Southwest Studies or Liberal Arts.
- Two additional endowment scholarships are the Noah Rodriguez Scholarship Endowment for students studying humanities and the Agnes Finnie Grotto Scholarship Endowment for non-traditional students.

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Recruitment and Retention

- 46 students were recruited into the Summer Bridge program that was 100% funded by UNM-LA the summer of 2003.
- Student services staff again coordinated a mail campaign to area seniors via an ACT listing furnished by UNM Recruitment Services.
- Held two "College Connection" events in spring 2004 (a recruitment event for high school juniors and seniors).
- Combined the UNM Transfer Day with an event to showcase UNM-LA educational programs which was named "Explore-a Major Day".
- Implemented statewide participation in College Days events.
- Students on academic probation were put on contracts and met with their assigned academic advisor who worked with them to improve their grades.
- Assisted in building the class schedule and emphasized the need to offer more core curriculum classes to increase the transferability of UNM-LA students.

Advisement

- Utilized the UNM Student Information System as a standard means of information particularly the advisor's comment screen, transcript information, admissions information and familiarity with holds.
- All degree-seeking students were assigned an Academic Advisor in an effort to establish continuity in advisement and to enhance communication between students and academic advisor.
- Maintained advising for all students in certificate and associate degree programs.
- Academic advisors participated in the College Cornerstone Program meetings to interact with instructors and to better advise students in introductory studies courses.
- Explored better ways in which to provide quality advisement and training at the Bernalillo site, i.e., telephone advising.
- Participated in Banner/Link Training

Admissions and Registration

- Continued utilization of I-TEL-UNM on the Los Alamos campus.
- Continued utilization of an application for admission in a PDF format.
- Actively participated in the UNM Registrars Network via quarterly Registrar's meetings.
- Irene Martinez from the registrar's Office attended Regional RMACRAO (Registrar's Association) conference in Wyoming.
- Continued implementation of UNM transcript evaluations process on-site.
- Conducted Employability Skills Training classes in fall 2003 and spring 2004, at Jemez Valley High School and UNM-Los Alamos campus. (This included resume writing and tips

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on interviewing.)

- In cooperation with the New Mexico Department of Labor in the implemented a One-Stop Career Center at UNM-LA.
- Helped plan and coordinate the UNM-Los Alamos Career/College Fair in spring 2004

Financial Aid

- UNM-LA awarded 69 students scholarships for a total of \$30,559.99.
- Provided all services associated with a financial aid office such as processing of applications, awarding of funds, disbursements of funds, evaluation of academic progress, and administered work-study and scholarship programs.
- Continued to promote UNM-Los Alamos Bridge to Success scholarship by creating and mailing out flyers to students via a report form an ACT listing furnished by UNM Recruitment Services.
- Kept abreast of financial aid policies and procedures by attending UNM meetings, state and regional conferences.
- Provided EDE Express (an electronic financial aid application) service to the Los Alamos community and the surrounding areas.
- Coordinated the Electro-Mechanical program.
- Assisted in overall Student Services efforts in advisement, recruitment, retention, special programs, and student activities.
- Served as a co-advisor to the UNM- LA student government.

BUSINESS OPERATIONS

- Held and organized fourth annual Endowment/Scholarship Benefit Dinner campaign on April 30, 2004. The campaign raised approximately \$ 11,500. Approximately \$10,000 was transferred for student scholarships. Recruited key community members to participate. Community members included: James Anderson, Superintendent LA Public Schools, Ed Burkel, General Manager, KSL, Senator Carlos Cisneros, Larry Icerman, Valles Caldera Trustee, Senator Richard Martinez, Richard Melton, Chief of Police, Chris Ortega, Retired Utilities Manager, LA County, Representative Jeannette Wallace and Representative Nick Salazar, Jim West, LA County Councilor. UNM-LA Advisory Board members Ron Dolan, Richard Honsinger, Richard Kraemer, Nelson Hoffman and Linda Weeks.
- Completed Career Ladder for member of the Finance office from Accountant II to Accountant III. Accountant also participated and graduated from the UNM Management Academy.
- Finance personnel participated on committees to implement the new Banner Financial system.

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- Worked cooperatively with the U.S. Department of Energy, Los Alamos, NM to address the establishment of a Joint Information Center (JIC) utilizing the UNM-Los Alamos campus as the Primary JIC location.
- Successfully coordinated Community Job Fair for 2004.

Food Services

 Provided catering services to Los Alamos National Laboratory, Los Alamos Historical Society, Native Los Alamos Leadership group, Los Alamos National Laboratory Foundation, and Account Records Manager Association.

Housing

- Successfully negotiated with Los Alamos National Laboratory a five-year contract to utilize one apartment complex during the months of May – August insuring 100% occupancy during these months.
- Made 5th installment payment on housing remodel. Final payment to be made in FY 2005.

Physical Plant

- Coordinated Earth Day Activities
- Made progress on safety report

COMPUTER CENTER

For the year 2003-2004, the Computer Facilities department completed/accomplished the following significant activities:

- Provided support for the Los Alamos National Laboratory Joint Information Center project. UNM-Los Alamos campus is currently the top choice for location.
- Provided support for Atomic Molecular Physics Summer program.
- Provided support to Finance and Student Services for the ongoing Banner project.
- Continued to maintain a high degree of 'uptime' regarding the campus network and its components at the Los Alamos and Bernalillo locations
- Continued to maintain a high degree of 'uptime' regarding the campus network and its components at the Los Alamos and Bernalillo locations
- New Java compiler was installed across the campus

PUBLIC RELATIONS

• The Public Affairs Department has increased our visibility in the Los Alamos Community significantly between January 2004 and June 30, 2004. Our rate of story publication in the

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Los Alamos Monitor has increased by approximately 300% and we have had a number of positive stories on the front page between January 2004 and June 2004. Public Affairs has continued the good working relationships with the local radio and public television stations.

- Public Affairs has promoted and helped to organize a number of successful events this year, including the 2003 A Taste of Autumn, the 2004 Los Alamos Community Job Fair, the annual Endowment/Scholarship Fundraising Banquet, the Piano Fund Concert Series of monthly concerts and four art shows. The department also promoted and helped to organize a very successful weeklong series of events, the Jim Sagel Lecture Series, in April 2004.
- In addition to the quarterly community newsletter, "Newsline," and the twice-monthly oncampus publication "Stall News," the Public Affairs offices produced three class schedules and the 124-page two-year UNM-LA Catalog during this period. The Public Affairs Department produced numerous posters, flyers, brochures, postcards and other publications for various programs and campus events. It also produced print, radio and television advertising.
- The Public Affairs department oversaw the production of a new recruitment CD for UNM-LA during 2003-2004.
- Public Affairs had tables at a number of community events, including the NM State Fair, Community College Day at the Legislature and the Los Alamos Chamberfest.

SIGNIFICANT PLANS AND RECOMMENDATIONS, 2004-2005

OVERVIEW BY EXECUTIVE DIRECTOR:

The University of New Mexico – Los Alamos held its annual planning retreat on May 25 & 26, 2004 at Santa Fe Community College. The purpose of this retreat was to review the previous year's accomplishments and areas of improvement. No changes were made to the mission statement, however, goals and objectives for 2004-2005 were developed. Following are the major goals & objectives for the 2004-2005 academic year.

- Increase the number of full-time students and part-time students.
- Implement an overall recruitments and retention program for the campus.
- Implement the Title v Grant in conjunction with UNM-Valencia.
- Continue to participate in training and implementation of the Banner System.
- Expand courses and support services for the Bernalillo site and the rest of Sandoval County.
- Establish a "Friends of the UNM-LA Library" committee.
- Increase the number of volunteer tutors in the Adult Learning Center and Tutorial Center.
- Increase the number of contracts and grants.

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- Establish a committee to plan for UNM-LA 25th Anniversary celebration.
- Raise additional funds for student scholarships.
- Reorganize the Adult Learning Center and Community Education units and increase the number of students enrolled. Especially in the Computer Application Training and Customized Training Program segment of Community Education.
- Expand the number of International Education course offerings.

DEPARTMENT OF INSTRUCTION:

Computer Science, Business and Technologies Division Credit Instruction

- Coordinate with UNM Safety Office to provide identified training/process/procedures to ensure overall compliance.
- Enhance channels of communication between instructional areas and Student Services (i.e., meeting inclusion, degree check process, co-op placement & procedures).
- Establish regular channels of communication with Extended University to expedite services to students.
- Update Institutional Outcomes Assessment Plan and modify as necessary.
- Review current program/course offerings with the intent of identifying alternative delivery schedules/modes.
- Create, organize, and offer a minimum of two international education opportunities.
- Expand overall number of strategies for instructional services/training.
- Revise faculty evaluation system, as needed included classroom observation forms.
- Explore the possibility of offering a learning community either as a freshman interest group or as a regular learning community.
- Plan and host the College Cornerstone Retreat in fall and spring.
- Evaluate A & S 198 to determine any needed changes.
- Assess ESL English 100.
- Create assessment tool and implement assessment of two Fine Arts courses.
- Analyze data in English composition program and make recommendations.
- Begin planning for assessment in selected General Studies courses.
- Increase number of faculty receiving WebCT training-Fall 2004.
- Develop appropriate wholly online Web courses (English 219 should be up and piloted for Spring 2005).
- Update or create generic syllabi in Developmental, Communications, General Studies, and Fine Arts.
- · Post-generic syllabi for all A & S course curriculum courses to the division web site.
- Establish course rotations for division's core curriculum classes.

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- Update English handbook on web.
- Get appropriate hazard labeling on chemicals in ceramics lab, darkroom, and paint shop and get chemical inventories into electronic database, stored at Office of Instruction, as well as division.

Computer Science, Business and Technologies Division

- Design and implement safety policies/procedures relevant to the division.
- Create web pages for division, Division Head, Curriculum Coordinator's, core faculty.
- Put generic syllabi on the web.
- Review CS, IT, Business division degree programs for consistencies with main campus programs and revise as needed to bring degrees up-to-date with current technology and needs of local employers.
- Meet with advisory boards for the technology degrees to learn the skills sets needed by these local area employers. Identify specific needs in technology and business areas at LANL and develop offerings accordingly.
- Contact main campus departments to learn of new or pending degree changes.
- Focus efforts on updating UNIX track of AAS in Network Administration, Web Tech degrees, older Business degrees, and Hospitality Management degree.
- Research the need/feasibility of developing a cohort program for students taking the new Office Communications and Technology degree. Study the MST and Electromechanical cohort programs for patterns that can be replicated in an OCT cohort program. Identify new scheduling patterns for OCT courses that support a cohort program.
- Support the expansion of the campus web page with information from the CS, IT, and Business Division.

Mathematics, Science and Engineering Division

- Use instruments to measure math anxiety.
- Implement use of mathematics software, MARPLE, calculus series.
- Create web page for math department.
- Design and implement safety policies/procedures relevant to the division.
- Create web page for the division.
- Create a collection of generic syllabi for the division.

Community Education/Customized Training

- Diversify customized training offerings to additional populations.
- Increase number of credit/non-credit combination offerings.
- Obtain trend analogies of SBDC workshop participation and counseling service for predictability.

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- Secure necessary equipment/software to facilitate new Office XP courses.
- Increase number of overall types of LANL CAT Training offerings.
- Examine departmental staff needs for possible reorganization.

Library

- Identify and secure additional instructional support equipment as needed.
- Review Library reference sources and reorganize as needed.
- Resolve lingering cataloging problems for Southwest Collection.
- Preparation and completion of Library brochure.
- Participate in statewide consortia efforts.
- Explore the feasibility of establishing a "Friends of the Library" group.

Adult Basic Education

- Collaborate with Student Services to increase the number of GED recipients enrolling in credit courses.
- Increase the overall ABE enrollment by 10% and student retention (12 plus hours) by 10%.
- Complete updated ABE brochure.
- Conduct community outreach campaign.
- Reestablish service offerings in Cuba and Jemez areas.
- Implement site-based ESL classes at local area businesses.

Tutorial Center

- Expand service hours.
- Participate in A & S 198 pilot project.
- Increase number of tutors
- Address special needs request of increased student population.

STUDENT SERVICES

- Explore feasibility of increasing high school visits to UNM-LA Campus
- Explore feasibility of increasing school site visits when districts are unable to visit UNM-LA campus.
- Review Graduation Ceremony activities.
- Review Summer Bridge activities.

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BUSINESS OPERATIONS

- Reorganize Finance functions to insure successful implementation of Banner Financial System.
- Work on task force for Banner Student Accounts Receivable implementation.
- Provide training to staff on Banner Financial system.
- Extend Purchasing Card authorization to departments on campus.
- Coordinate and assist with fundraising activities
- Continue community service for Joint Information Center with Los Alamos National Laboratory
- Obtain property adjacent to campus for expansion of instructional facilities.

Physical Plant

- Continue progress on safety items
- Coordinated landscaping on east side of campus
- Oversee construction projects
- Work on emergency evacuation plans

Food Services

- Expand menu options and hours of operation.
- Expand catering services to campus and outside entities.

Bookstore

• Expand special services to departments

COMPUTER CENTER

- Campus-wide replacement/upgrade of computers scheduled for late 04-05, per our computer replacement policy.
- Evaluation, replacement/upgrade of various network components not addressed by the computer replacement policy.

PUBLIC AFFAIRS

• Organize a campus marketing committee

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- Develop a marketing plan for the campus, including a new slogan and marketing direction
- Develop an outreach plan to market to local employers, including Los Alamos National Laboratory
- Plan and promote the UNM-LA 25th Anniversary events
- Redesign the Class Schedule and quarterly newsletter
- Increase the number of and success of student-centered events, such as student art shows and concerts by students. Increase student participation in campus events.
- Establish more positive relationships with regional newspapers, i.e. Santa Fe New Mexican, Journal North, Santa Fe Reporter, and Rio Grande Sun.

APPOINTMENTS TO STAFF

Name	Positions	Area	Effective Date
Gloria McDowell	Academic Advisor	Student Services	07/07/03
Valida Dushourova	Instructional Researcher	Directors	08/04/03
Michelle Ueland	Office Administrator	Bernalillo Site	09/05/03
Maisie Trujillo	Registrar	Student Services	09/08/03
Jose Torres	General Service Assistant	Physical Plant	09/15/03
Bonnie Gordon	Sr. Public Relations Rep.	Public Relations	12/15/03
Heather Lujan	Administrative Assistant I	Admin. Service	02/06/04
Jan Merrel	Administrative Assistant I	Admin. Service	05/24/04

APPOINTMENTS TO FACULTY

- New Curriculum Coordinator for Communications, Graciela Cainelli, mentored and trained 2003-2004.
- New Curriculum Coordinator for General Studies/Developmental, Karen Meier, came on board June 2004.
- Hired 7 (and mentored 3) new core faculty: English 0.75 position, Mickey Marsee (Fall 2003) English 0.75 position, Eva Artschwager (Fall 2003) Spanish .5 position- Graciela Cainelli (Fall 2003) Philosophy .5 position- Jesus Ilundain (Fall 2003) Southwest Studies 0.5 position, Arsenio Cordova (Fall 2003) Fine Arts/DMA/Web .5 position- Mindy Turner (shared with Tech division)(Hired Fall 2003, started Spring 2004) Developmental .5 position- Karen Meier
- New Division Head for Mathematics, Science, and Engineering Division: Kay Willerton, June 2004.
- New Curriculum Coordinator for Computer Science/Network Administration: Lynne Williams, June 2004.
- New Curriculum Coordinator for Business: Mickey Marsee, June 2004.
- New Curriculum Coordinator for Applied Science: Alphonse Forget, June 2004.
- Hired 5 new core faculty for the Division of Science and Technologies: Math .5 position- Carol Neal (Fall 2003) Math .5 position-Joe Ladish (Fall 2003)

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CS .25 position- Dave Schultz (Fall 2003) Network Administration .5 position- Lynne Williams (Fall 2003) Fine Arts/DMA/Web .5 position- Mindy Turner (shared with Tech division, hired Fall 2003, started Spring 2004)

SEPARATIONS FROM STAFF

Name	Positions	Area	Effective Date
Samantha Beres	Sr. Public Relations Rep	Public Relations	09/26/03
Gina Clason	Administrative Assistant I	Admin. Services	11/21/03
Lucia Ortiz Y Garcia	Administrative Assistant I	Admin. Services	01/31/04
Heather Lujan	Administrative Assistant I	Admin, Services	04/05/04
Craig Degener	Academic Advisor	Student Services	04/16/04
Anna Mae Apodaca	Associate Director SS	Student Services	05/12/04
Carmela Martinez	Career Development Fac.	Student Services	06/18/04
Cheryl Voltin	Administrative Assistant II	Instruction	06/04/04

SEPARATIONS FROM FACULTY

NONE

PUBLICATIONS

STAFF

Bonnie Gordon, Public Affairs Representative

- Wrote various articles, concerning the UNM-Los Alamos campus, for the Los Alamos Monitor, Rio Grande Sun, The New Mexican, the Journal North, Jemez Thunder, and UNM Campus News.
- Developed and produced several UNM-LA publications for internal and external use including brochures, schedules, catalogs, press releases, video scripts, annual reports, etc.

FACULTY

 Pilar Rodriquez Aranda: Documentary "Unexpected Turn of Jim Sagel" premiered at the Santa Fe film Festival; Shown at Durango Film Festival, Latino Writer's Conference, Border Book Festival, NMSU, Roswell Film Festival and Chosen Best New Mexican Film there;

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Attended Nat'l Assoc. of Latinos in the Industry conference in CA.

- Ellen Koment: Solo Exhibition-"Desert Dances," Waxlander Gallery, Santa Fe; Group Exhibitions at Santa Fe Community College and Governor's Gallery & Rotunda, Santa Fe.
- Duane Monczewski: Group Exhibitions: Photogenesis Gallery, Santa Fe; Andrew Smith Gallery, Santa Fe; Photography Auction, Center for Contemporary Art, Santa Fe; Collections: Ohio Wesleyan University.
- Theresa Cordova: Book review "Ayer-y-hoy," Taos County Historical Magazine.

OUTSIDE PROFESSIONAL ACTIVITIES

<u>STAFF</u>

Carlos B. Ramirez, Executive Director

- Member, New Mexico Association of Community Colleges (NMACC)
- Member, Dennis Chavez Foundation
- Member, Northern New Mexico Council for Excellence in Education (NNMCEE)
- Member, Tri-County Higher Education Association (THEA)
- Member, Literacy Volunteers of Santa Fe
- Founding Member, Leadership Los Alamos

Debbie Valdez, Associate Director/Business Operations

- Member Human Resources Committee
- Member Two-year Institutions Formula Task Force
- Member -- UNM Planning Council
- Member Campus Resources Committee
- Member Banner Account Control Monitoring Group
- Member Banner Fund Group
- Member Adult Basic Education Funding Task Force

Phyllis A Mingus-Pepin, Associate Director/Instruction

- UNM Curriculum Terminology Taskforce
- New Mexico Assessment/Retention Conference, Albuquerque, NM, February
- New Mexico Assessment Association President
- Vision 2020

Anna Mae Apodaca, Associate Director/Student Services

- New Mexico Assessment/Retention Conference, Albuquerque, NM, February
- National Association of College Activities (NACA) Conference, Houston TX, October
- National Academic Advising Association (NACADA)
- UNM President Special Assistant for Diversity Search Committee
- Northern New Mexico Council for Excellence in Education
- UNM Branch Retreat
- UNM Los Alamos Retreat
- Retention & Assessment Conference, Albuquerque

Anthony Valdez, Computer Center Manager

NM Council for Higher Education Computing/Communication Services (NM CHECS)

Bonnie Gordon, Public Affairs Representative

- Member, National Council for Marking and Public Relations
- Member, UNM Public Affairs Working Group
- Member, National Federation of Press Women (National, State and Northern New Mexico Chapter affiliation)

Patricia Boyer, Community Education Supervisor

- Leadership Los Alamos
- UNM Management Academy
- · Secretary for the Executive Committee of the Chamber of Commerce Leadership Council
- Eastgate Toastmasters

Rick Goshorn, Accountant III

• UNM Management Academy

Steve Ciddio, Bookstore Manager

- Member, Southwest College Bookstore Association
- Member, National Association of College Stores

Maisie Trujillo, Branch Registrar

- American Association of Collegiate Registrars and Admissions Officers (AACRAO)
- Rocky Mountain Association of Collegiate Registrars and Admissions Officers (RMACRO)
- New Mexico Association of Collegiate Registrars and Admission Officers (NMACRO)
- Banner Meetings, UNM-Main Campus
- UNM Branch Retreat

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UNM Los Alamos Retreat

Yohanna Wiuff, Financial Aid Coordinator

- Member, New Mexico Association of Student Financial Aid Administrators (NMASFAA)
- Member, Southwest Association of Student Financial Aid Administrators (SWASFAA)
- Branch Representative on LINK Financial Aid Team
- Attended Branch Financial Aid Retreat in Albuquerque
- Attended College Cornerstone Retreat
- Attended UNM-Los Alamos Retreat in Los Alamos
- Attended Lottery Scholarship meeting in Albuquerque

Gloria McDowell, Student Advisor

- UNM-Branch Retreat, Albuquerque
- College Cornerstone Retreats
- Retention and Assessment Conference, Albuquerque

Craig Denegar, Student Advisor

• Retention and Assessment Conference, Albuquerque

Kathy Casados, Administrative Assistant to the Executive Director

- MANA del Norte, Member (Also served on the Scholarship Selection Committee)
- · Conducted Mock Job Interviews with Los Alamos High School Life Skills Class Students

FACULTY

- **Carlos Ramirez**: Presented at the 9th Annual Congress of Regional History at the University of Ciudad Juarez, Mexico; Presented at Leadership Los Alamos; Presentation to LANL Diversity Committee during National Hispanic Cultural Month (September 2003).
- Phyllis Mingus-Pepin: New Mexico Higher Education Assessment Association, President, 2003-2004.
- Arsenio Cordova: Honored by Hispano Roundtable for Educational Advocacy; Who's Who Among American Teachers 2003-2004; Presented at 9th annual Congress of Regional History at University of Ciudad Juarez, Mexico.
- Dennis Davies-Wilson: Faculty Senator-UNM LA rep; UNM Blue Ribbon Diversity Committee UNM-LA Faculty rep; Member and President of New Mexico Association of Research Libraries (NMARL); Member of New Mexico Consortium of Academic Libraries (NMCAL); Attended Spring Meeting of NMCAL, April 24, 2004; Member of the New Mexico Library Association (NMLA); Attended NMLA Annual Conference in Las Cruces,

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April 21-23, 2004; Co-facilitated Brainstorming Session at NMLA; Member of LIBROS Advisory Board (LAB); Attended annual LAB meeting, May 10, 2004; Attended Information Literacy workshop, Albuquerque, August 2003; Member of the Music Library Association (MLA); Member of MLA's Bibliographic Control Committee's Subcommittee on Descriptive Cataloging; Member of Music Library Association Mountain Plains Chapter (MPMLA); Professional musician in Música Antigua de Albuquerque (early music ensemble - regular performance season and community outreach - performed in all Los Alamos County Elementary Schools October 17, 2003) and Opera Southwest Orchestra. Premiered commissioned work by Ted Vives at the annual meeting in Las Cruces of the New Mexico chapter of the Music Teacher's National Association; Adjudicator, Science and World Studies Fair, Our Lady of the Assumption Catholic School, Albuquerque, January 2004.

- Juanita Madland: Organized 10 concerts for UNM-LA Campus Concert Series; Solo concert of Beethoven's Emperor Concerto, etc. and invited to perform it again with the Minot, ND State University Symphony; member of Los Alamos Arts Council & chairs brown bag noon concerts; Received Permanent Certification of Nationally Certified Teacher of Music. Premiered commissioned work by Ted Vives at the annual meeting in Las Cruces of the New Mexico chapter of the Music Teacher's National Association.
- Mickey Marsee: Attended American Association of Developmental Educators National Conference.
- Kate Massengale: New Mexico Assessment & Retention Conference; Who's Who Among Teachers 2003-2004 (2nd time); Recruited for and attended 2nd Oxford Round Table in Oxford, England, on Women and Literature.
- Kay Willerton: Member of College Reading and Learning Association; Attended LANL Foundation conference banquet 2003; New Mexico Assessment and Retention Conference, Albuquerque, NM February 2004; State Mathematics Articulation Committee, May 2004; New Mexico Mathematics Association of Two Year Colleges state Conference, Santa Fe, NM, May 2004.
- **Carol Neal**: Mathematics Realignment Meeting, May 2004; Participated in Leadership Los Alamos.

OUTSIDE SPONSORED RESEARCH

Anne Fitzpatrick, NSF Grant, "War by Numbers"

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UNM-VALENCIA CAMPUS

ANNUAL REPORT

For the Period

JULY 1, 2003 - JUNE 30, 2004

Alice V. Letteney Campus Executive Director

CONTENTS

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INTRODUCTION

Dr. Alice V. Letteney, Campus Executive Director Highlights of the University of New Mexico-Valencia Campus July 1, 2003-June 30, 2004

1. Significant Developments

FACILITIES MASTER PLAN

UNM-Valencia Campus Administration, Faculty, Staff, Students and Advisory Board participated in the process which culminated in production of a Facilities Master Plan for 2004-2008.

CONSTRUCTION – GROUNDBREAKING-March 18, 2004

Following approval of \$4 million mil levy bonds and \$1.25 million in state GO bonds two years ago, construction on a new Health Sciences facility started January 2. The facility, which is due for completion January 2005, will allow the campus to expand science and pre-medicine curricula. A 2,000 sq. ft. expansion of the Wellness Center and a 3,600 sq. ft. expansion to Student Services are underway. The Wellness center is due for completion in August of 2004; the Student Services area is due for completion October 2004.

TITLE V - ENDOWMENT

The UNM-Valencia Campus Development Board raised \$30,000 which was matched by the Title V endowment in the second year of a 3 year \$180,000 endowment fund drive.

OPERATING AGREEMENT

UNM-Valencia Campus negotiated a revised Operating Agreement with UNM-Main Campus. The revised Agreement is scheduled for approval by the UNM Board of Regents in August 2004.

AACC HOUSE EDUCATION & WORKFORCE COMMITTEE - June 2004

At the Vice-President of the American Association of Community Colleges' request, Dr. Letteney testified on their behalf before the House Education and Workforce Committee on the Higher Education Reauthorization Act. She provided five minutes of testimony, followed by two hours of questioning in an effort to alert the Committee to the issues involving increasing significant grant aid to For-Profit education companies. That Committee subsequently postponed a vote on this legislation until January 2005.

2. Program Developments

UPWARD BOUND

The Upward Bound program began in earnest spring 2004 with 34 students. Twentythree students attended the first summer session from June 7 through July 16. These students worked on writing, math and science materials all culminating in presentations and science demonstrations. Students participated in various trips and activities which included an overnight visit to NMSU in Las Cruces, a day trip to take the tram in Albuquerque, visits to the Indian Cultural Center, and a concert at Popejoy Hall, UNM-Albuquerque. It is anticipated that the goal of 50 students will be reached during the fall 2004 semester.

TRiO

The SSS Program initiated a pilot Learning Community project for first time students who had been placed into Math 010, Academics 100, and English 010 for the fall 2003 semester. The project included IT 101 and 110 to strengthen basic computer skills and Math 193T "Finding Your Mathematical Voice." Students received supplemental instruction for each class they attended, as well as individual tutoring. The project was limited to 20 students who attended all classes together thus forming a cohort. The instructors met periodically to discuss problems and strategies during the semester. We saw a 90% retention rate into the spring 2004 semester as compared to students taking the same classes (Engl 010, ACAD 100, Math 010) during the fall 2003 who had a retention rate of 64.71%.

APPLICATION FOR TITLE V COOP

The Title V, Developing Hispanic-Serving Institutions Program is scheduled for completion September 2004. The proposal for a Title V Cooperative Grant was submitted in March 2004. The submission proposes a Cooperative effort between UNM-Valencia and UNM-Los Alamos for a \$3,000,000 award geared towards improving rural Hispanic success through enhanced instructional technology.

4. Community Outreach

Workforce Development

Provided 27,800 hours of customized, non-credit, contract training.

I. CAMPUS EXECUTIVE DIRECTOR'S OFFICE

A. Title V, Developing Hispanic-Serving Institutions Program

Gearld Willis, Title V Coordinator

1. Significant Developments

Activities in the grant are primarily geared toward the successful completion of the grant on September 30, 2004. Major objectives in the three Activity areas have already been defined in the first four years of the grant and have continued to be updated and refined.

a. <u>Activity I, Student Success</u>

- i. In the Student Service area, the Early Alert Program for students experiencing difficulties with coursework or attendance, has been enhanced with the installation and use of the Attendance Module of the new Valencia Management Information System (VMIS).
- ii. The final 12 academic classrooms were equipped with LCD projectors, Elmo document cameras, speaker systems, DVD/VCR units and interactive BestWrite Projection Marker Boards to improve student learning through the implementation of technology into academic instruction. Technology training for all full-time faculty was completed in May.

b. Activity II - Institutional Stability Through Information Management

The main topics addressed during the reporting period were the go-live implementation of the 9 modules of the Valencia Management Information System (VMIS), and transfer of the Degree Audit Reporting System to the Windows based DARWIN version and integration with LINKS.

c. <u>Activity III - Institutional Advancement</u>

The Endowment Fund Goal of \$40,000 for Year 5 (ending September 2004) was on track at the end of June, to be matched with \$40,000 by the US Department of Education.

2. Significant Plans and Recommendations

The Development Office submitted a Title V Cooperative Grant proposal in March of 2004. This grant will be a cooperative effort between UNM-Valencia Campus and UNM-Los Alamos Campus. The Title V HSI program will be fully integrated into the campus infrastructure by the end of the Grant on September 30, 2004.

Staff Separations

Karen O'Kain, Development Lab Coordinator

B. Workforce Development Program

Kevin C. Begley, Program Manager

- 1. Workforce Development
 - a. Received \$33,784.00 for Non-credit Workforce Training from CHE on November 7, 2003.
 - **b.** Provided 27,803.25 contact hours of Non-credit Workforce Training in this fiscal year to 2,872 persons at 73 sites.

2. AACC MentorLinks

- a. The MentorLinks Program ends September 30, 2004, with a final conference in October.
- b. Beginning to explore alignment with NWCET Skills Standards for IT Curriculum.

3. Carl Perkins Instructional Project

- a. Perkins funding for 2003-2004 was \$107,761.00 plus \$25,790.00 in Carryforward funding.
- **b.** Funding for 2004-2005 is \$95,643.00.

4. Welfare Reform SU PARTE

- a. SU PARTE assessed 419 E & T and 673 TANF clients in 2003-2004, or 1,092 total assessments.
- **b.** TANF Full-time employments were 239 at an average wage of \$7.21 per hour. TANF part-time employments were 185 at an average wage of \$6.62 per hour.
- c. SU PARTE served 2,203 clients in 2003-2004.
- **d.** We are advised that beginning in 2005-2006 these programs will be operated through the WIA boards regionally with local community colleges as the primary providers for TANF and WIA services.

Staff Changes:

1. Staff Appointments

Rosella Cruz - Admin II, September 15, 2003. Lourdes Ortiz - Admin II, October 27, 2003. Rosa Auletta - Program Coordinator (Grade 10) promoted to Case Manager, (Grade 12) December 1, 2003. Carol Hudson - Admin III, January 2, 2004. Fanny Isela Ayala - Admin II, January 12, 2004. Jennifer Hunn - Admin II, March 27, 2004.

2. Staff Departures

Keni Banos-Troncosa - Admin II, transferred to Development/Grants, September 1, 2003 Carol Claus – Admin III, transferred to ABE December 31, 2003 Rosella Cruz – Admin II, February 18, 2004. Carol Hudson – Admin III, May 21, 2004. Ray Meek – Bus Driver, Retired, June 30, 2004. Fanny Isela Ayala – Admin II, June 30, 2004.

5. Outside Professional Achievements

Dr. Alice Letteney

AACC Commission on Communications & Marketing June 2003-2005. United Way, Valencia County Board Member

Kevin Begley

Completed WEB-Based WorkKeys[©] Job Profiling recertification on December 7, 2003. Completed certification on WorkKeys Business Writing skill for Job Profiling on December 7, 2003.

Installed on Belen Chamber Board January 16, 2004.

Chad Perry

Chair, Southwest District of the Public Relations Society of America (PRSA). Assembly Delegate, New Mexico Chapter of PRSA. New Mexico PRSA Lifetime Achievement Award, June 2004. Chair of R&D Work Group, Universal Accreditation Board, PRSA. NAMASTE Executive Board Member.

Cheryl Pulaski

New Mexico Regional Science and Engineering Fair Chair.

UNM-Valencia Campus Community Outreach Committee Chair.

NAMASTE Executive Board Member.

New Mexico Network of Women in Science and Engineering-Steering Committee, Region VI Council for Resource Development-Summer Symposium Steering Committee, and does YMCA. New Mexico Women on the Move-Nominee.

II. INSTRUCTION

Dr. Reinaldo Garcia, Dean of Instruction

A. Significant Developments

- 1. Overall
- a. Continued assessment of programs of study and effectiveness of course scheduling.
- **b.** Completion of training faculty in the integration of technology into the classroom under Title V.
- c. Installation of A/V equipment (projector, document camera, and sound) in all remaining classrooms in the Arts & Sciences and Business & Technology buildings.

2. Credit Programs

- a. Scheduling and Curriculum Development
 - i. Major revision to all academic and vocational programs.
 - ii. New Catalog developed for 2004 2005 through 2006 2007 academic years. Catalog features new format.
 - iii. Researched possible health science programs for new Health Sciences Center.
- b. Out-of-District Instruction (administered by Community Education) in Socorro, Moriarty, Estancia and Magdalena (253 students served, 623 credit hours w/ FTE of 41.5).
- c. Extended University (started in 2004 spring semester; 66 students served w/ FTE of 13.2).
- d. Tech Prep
 - i. Funded the following programs: CAD, Internet Webmaster, Construction Tech, Systems Engineer, and Business Technology.
 - ii. Worked with 6 High Schools: Belen, Los Lunas, Estancia, Magdalena, Mountainair and Socorro and Los Lunas Career Academy.
- e. Fitness and Wellness Education Center
 - i. Curricula: The Associate of Science in Health Education degree and the Group Fitness Instructor Leadership Certificate were revised; the facility was made available to all students, faculty, staff, and the community by enrolling in a one credit hour physical education course; all physical education courses (with exception of golf and other courses which require special sites) were offered at the center.
 - Enrollments: A total of 1,037 students enrolled in Physical Education classes and used the FWEC. The staff conducted a total of 150 orientations for the students enrolled in PE-NP Introduction to Fitness.
 - iii. Equipment: New equipment was researched, ordered, and purchased to support existing physical education programming.
 - iv. Outreach: The FWEC organized the Valencia Campus "Relay For Life" team to raise money for the American Cancer Society; the 3rd annual Wellness Fair, "Your Health is a Work in Progress," attended by students, faculty, staff, high school students, and community members.

Approximately 503 people were in attendance. The FWEC had a booth at the Wellness Fair; FWEC hosted 11 health education presentations on a variety of topics; the FWEC Coordinator gave four workshops for one course in the Language and Letters Department and six courses in the Math Department; and the staff provided 36 free Friday exercise sessions available to students, faculty, staff and community members as an avenue to educate the campus and community about the variety of exercise modalities and the importance of exercise.

- Other: A campus student Wellness Club was established. The club assisted in organizing six campus events in 2003 - 2004. They are a recognized chartered club; the staff provided 149 fitness assessments for students and provided 67, (Summer 03 – 10, Fall 03 – 36, & Spring 04 – 21) personal training sessions.
- vi. Grants: The FWEC Coordinator wrote and submitted a grant to the Presbyterian Health Foundation.
- f. Fine Arts

i. The fine Arts Gallery space was upgraded to professional standards in July/August 2003 with the introduction of new track lighting and a professional surveillance system. Each exhibition is now promoted by an article in the <u>Valencia County News-Bulletin</u>, invitations, posters, and it's own web-page. Exhibitions since the upgrade:

1st Annual OUTLAW INC. Hikidashi Fire Show (first international show) Annual Faculty and Staff Show

Sea Forms by Janis Prudhomme

Rio Abajo Santero Exhibition - an extremely successful exhibition featuring the work of award wining local Santeros.

Mica Clay Works by Villis Shipman

Juried High School Art Show - an exhibit of local high school students' work.

- ii Fine Arts Department Web Page created.
- iii Community Outreach

Two faculty taught classes through Community Education's Friday morning program for gifted/at-risk children.

Jaramillo Elementary School Kindergarten Art field trip.

3. Non Credit Programs

- a. Adult Basic Education
 - i. Enrollments: 927 students completed over 12 hours of instruction, an increase of 2.8%; ESL increased by 24%; 33% of students enrolled are between the ages of 16 and 18.
 - ii. Services: Family literacy services were made available to ESL students at El Cerro Mission Community Center; 201 people participated in

Encuentro, a conference for the Spanish-speaking community in Valencia County. Training from the BLAST project in student leadership made it possible for students to coordinate *Encuentro*. (English Literacy/Civics sponsored activity).

 Currícula: Computer basics courses were offered at Valencia Campus, El Cerro Mission Community Center and Juan Diego Mission Meadowlake. 58 students were served by this program. (English Literacy/Civics sponsored activity); ABE faculty developed curriculum guides for each class offered.

- iv. Success rates: 60% of GED graduates who go on to college at Valencia Campus place into English 101 and 69% place into Math 100.
- v. Grants: The extension for the ABE grant was submitted and the program received an increase; the EL/Civics grant was received and an increase was realized.
- b. The Learning Center
 - i. Equal Access Services: Processed 30 students during the first two weeks of the Fall semester. Accommodations for the fall include sign language interpreters, ergonomic computer stations, recording textbooks onto CD and tape, notetakers, readers, and specialized tutoring.
- c. Library

i. Thanks to the main campus library, Valencia received free access to another 9 online databases.

- ii. Virtually the entire \$47,760 of GO Bond money was spent on new books.
- iii. The Library's web page was completely redesigned so that it is now the access point for all of our databases and other links that used to be listed separately on the computer desktops.
- iv. The entire collection was inventoried and shifted. A total of 2,293 titles were withdrawn (2,592 volumes).
- v. <u>The Valencia County News-Bulletin</u> 1996-2003 was microfilmed, thanks to a partnership with the Belen Public Library.
- vi. The Law Library's various databases were switched from CD format to online.
- d. Community Education, provided workforce and vocational training, cultural enrichment events, health occupations training, gifted/high potential program, Gear Up tutoring to 11,086 community members.
- e. Child Care Center
 - Funding: Began new funding cycle for 3-year, \$110,000 per year. CCAMPIS Federal Education grant funded again @ \$13,848.
 Received \$10,000 from McCune Foundation to expand playground. Doubled its sized, added play equipment, landscaping and built Navajo style hogan playhouse. Received \$10,000 grant from Daniels Fund to support salary of teacher in 3rd classroom, and to bring Non Violent Communication training to our campus.

Other: Opened 3rd classroom as drop-in/evening care for children 2¹/₂ - 10; 12:00 p.m. - 9:00 p.m. Monday - Thursday. Offered Non Violent Training to our staff & families and whole campus. Participated in 4th year research project with Focused Portfolios—an important, statewide, landmark study.

4. Faculty Assembly:

a. Officers for 2003 – 2004:

ii.

- i. President: Greg Candela
- ii. Vice President: Reid Mowrer
- iii. Secretary: Jami Huntsinger
- iv. A & S: Julie DePree
- v. B & T: Toni Black

B. Significant Plans and Recommendations for the Near Future

1. Credit Programs

- a. General
 - i. Continue to assess effectiveness of all credit programs.
 - ii. Promote and provide WebCT training to all interested faculty.
 - iii. Design, develop, and deliver computer-based training courses.
 - iv. Continue to supply short-term training for employers in the community.
 - v. Advertise, market, and promote Business and Technology programs via brochures, high school visits, radio, billboard, television, and word-of-mouth to community members.
 - vi. Create Teaching & Learning Center to provide mentoring for faculty and service, training and resources for all presentation equipment and faculty who use it as well as improved effectiveness for our developmental studies and tutorial programs.
 - vii. Expand Extended University offerings at our campus.
 - viii. Determine one or two new health science program to be offered in our new Health Sciences Center.
 - ix. Continue to work with advisory committees to keep abreast of industry changes and continue and do more community outreach with Tech Prep and area high schools and career academies.
 - x. Business and Technology continues to be concerned about enrollment management and is eager to try alternative and innovative methods of scheduling classes. The Office of Business and Technology along with IT would like to be a forerunner in offering a fast track degree. The department also recognizes the need to offer distant education and on-line courses.
 - xi. As we look to the future the intent is to expand the Career Building to include more labs and replace desks with tables in the classrooms.
 Expansion is of the utmost importance since more and more academic

courses are being taught in the computer labs.

- b. Tech Prep:
 i. Plan
 - Planning whole day Tech Prep Symposium for Tech Prep High School teachers and UNM-Valencia faculty
 - ii. Providing training and testing for Tech Prep teachers to obtain industry certifications in MOS, A+, CIW, CAD and NCCER
- c. Fitness and Wellness Education Center:
 - i. Facility: The Fitness and Wellness Education Center square footage will increase to include a larger group fitness room, fitness assessment room, more locker room space, another office, and more storage.
 - ii. Staff: An assistant to the coordinator position is needed to assist in event planning, fitness assessment, personal training intake and coaching, health promotion, and other facility management and office duties.
 - iii. Outreach: Continue to offer opportunities for the students, faculty, staff, and community to attend a variety of health education presentations and participate in exercise activities; organize the 4th Annual Wellness Fair, "Your Health In Focus;" organize the 2004 UNM-Valencia Campus Relay for Life Team to raise money for the American Cancer Society; write articles for the local newspaper and 6 articles for the faculty newsletter; continue community presentations; and promotion of the classes and programs offered in Physical Education and Health will continue as a priority.
 - iv. Marketing: Creating positive public relations with the community will continue to be a priority; redesign the brochure to better market the FWEC.
 - v. Expanded services: The coordinator will further develop the fitness assessment services offered by the center and purchase more equipment to support these services; bring the campus bicycle path proposed project to fruition; equipment needed to support existing and future programming will be researched.
 - vi. Grants Explore grant opportunities to fund projects not in the current budget.

2. Non Credit Programs

- a. Adult Basic Education
 - i. The program has restructured with Olga Gandara as Associate Director Program Development and Tina Kitzrow as Coordinator of Curriculum and Instruction.
 - ii. Workshops in Spanish on issues pertinent to the ESL community will be conducted (WebQuests, units of study using the Internet, for ESL).
- b. The Learning Center
 - i. During the next year, we would like to upgrade Kurweil and Dragon Naturally Speaking software and purchase a multi-page scanner to scan texts on CD for visually impaired or dyslexic students The DS-9 classroom is scheduled over 40% of the available hours for the fall. The

lab use by students also continues to be steady and tutor contact hours high for the first two weeks of the fall semester. We would like to find funding to send tutors to a tutoring conference in the spring.

- c. Library
 - i. Explore possibilities of moving into electronic reserves, moving into selfcheckout, and setting up meeting manager software for the staff.
 - ii. Move to new cataloging software,
- d. Community Education
 - i. Evaluation: All programs will be evaluated for cost-effectiveness with respect to revenue generated, expenses incurred, community impact, value to the university, etc. Recommendations for the coming year will follow that report.
 - ii. Program expansion: Extended University course offerings to a maximum of 10 upper-division classes per year; out-of-district instruction to include the town of Mountainair which recently acquired high-speed internet; increasing the customized and vocational training course offerings through WIA and House Bill 160 funds; participate in the development of new health; and expand the Gear-Up Tutoring Plus program to include 6 elementary schools in Belen, 1 in Isleta, 3 intermediate schools in Los Lunas, and all middle schools in Valencia County, dependent on the funding level. Develop occupational programs following the completion of the Health Sciences Center building.
 - iii. Staff: Establishing the .5 FTE position for the CPR/1st Aid coordinator to regular staff.
- e. Child Care Center
 - i. New grants: Plan to write grants to fund permanent teacher assistants, place shade canopy over the asphalt tricycle pad on playground, seed grass on back section of playground, and to bring Non-Violent Communication trainer back.
 - Accreditation: Will apply for Accreditation from the National Association for the Education of Young Children this semester. We have completed the self-study aspect of the process.
 - iii. Other: Continue with Focused Portfolio research project.

C. Appointments to Faculty and Staff

1. Full Time Faculty

- a. Rebecca Blackwell, Assistant Professor of English
- 2. Staff
- a. None
- D. Separations from Faculty and Staff
- 1. Faculty
- a. Kelly How, Assistant Professor of Biology
- 2. Staff
- a. None.

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D. Tenure and Promotion Decisions

- 1. Advancement to Professor
- a. None
- 2. Achievement of Tenure and Advancement to Assistant Professor
- a. None
- 3. Advancement to Code 4
- a. Reid Mowrer, Assistant Professor of Mathematics

E. Publications, Papers, and Notable Achievements

- 1. Reid Mowrer, Assistant Professor of Mathematics: Conducted research related to attitude shifts in "Finding Your Mathematical Voice" students from the beginning to the end of the semester.
- 2. Rebecca Blackwell, Assistant Professor Developmental English: 2nd time Who's Who Among America's Teachers.
- 3. Julie DePree, Associate Professor Mathematics, and Richard Kitchen: "Examining Prospective Teachers' Understanding of Proportional Reasoning." The AMATYC Review, published by the American Mathematical Association of Two-Year Colleges, volume 25, Number 2, Spring 2004, Pages 62-70.
- 4. Michael Ceschiat, Lecturer, Coordinator Art Department: 2 photographs published in Fiberarts Design Book 7: 4 photographs published in Fiberarts Magazine, March/April 2004.

Visiting Artist Slide Lecture, Columbus College of ARt & Design, Columbus, Ohio.

Hikidashi Slide Lecture, Belen Art League, Belen, NM.

Solo Exhibition: Hikidashi Bugs and Pokers, Bradley Gallery, Truth or Consequences, NM.

Group Exhibitions:

Clay and Fiber, Belen Art League Gallery, Belen, NM

1st Annual Hikidashi Fire Show, UNM Valencia Campus Fine Arts Gallery, Los Lunas, NM

UNM Valencia Campus Faculty Exhibition, UNM Valencia Campus Fine Arts Gallery, Los Lunas, NM

Bugs, Bombs abd Blooms, Harvey House Museum, Belen, NM

UNM Valencia @ UNM Gallup, Faculty Exhibition, UNM Gallup, Gallup, NM Curated Exhibitions:

1st Annual Hikidashi Fire Show (international)

Rio Abajo Santero Exhibition, UNM Valencia Campus Fine Arts Gallery Juried High School Art Show, UNM Valencia Campus Fine Arts Gallery.

5. Daniel Davis, Adjunct Faculty, Music

Concerts and premieres of original compositions November 13, 2003. performance of "Road Tales" for

November 15, 2005. performance of Road Tales Narrator and percussion trio at Keller Hall,

INITATO and percussion the at Keller Hall,

UNM Percussion Ensemble, narrated by Daniel Davis.

December 1, 2003. performance of "Road Tales" for Narrator and percussion trio at Keller Hall.

UNM Percussion Ensemble, New Music New Mexico.

January 30, 2004. Premier of Little Vine for Cor Anglais and Organ, St Stephen's Episcopal Church, Seattle Washington. Composer in attendance.

March 29, 2004. Sown Among Thoms for Woodwind Quintet performed by Faculty Chamber Ensemble, Ellis Recital Hall, Southwest Missouri State University, Springfield, Missouri.

April 4, 2004. Parousia for Organ, recital by Dan Chambers, All Saints Church, Oxford UK.

April 30, 2004. Premier of Quarks, micro sonata for Solo Bassoon, Leslie Shultis, Bassoon, UNM Keller Hall.

April 30, 2004. Frida, a dance drama, excerpts. Licia Perea. UNM Keller Hall. April 30, 2004 The Matador from Orlando of one thouseand years, Licia Perea, UNM Keller Hall.

April 30, 2004 Hymns and Fuging Tunes from High Desert Harmony, New Mexico Sacred Harp Singers, UNM Keller Hall.

February, 16, 2004. Guest Lecturer, Davidson College, Davidson North Carolina. Topic, music for documentary films, TV and other media. Master class with student composers.

Publication:

High Desert Harmony, 2004 edition, a collection of hymns, fuging tunes, songs and rounds for sacred harp singers. Contains 46 original hymns fuging tunes, rounds and songs, and other arranged tunes.

III. STUDENT SERVICES

Raymond Rondeau, Associate Director Student Services

A. Significant Developments

1. Admissions/Registrar's

- a. In an effort to enhance awareness about the Valencia Campus, the staff from the Admissions/Registrar's Office has been actively involved in informational workshops conducted at area High Schools. The Admissions office sent out letters to all eligible seniors at Belen and Los Lunas High Schools in preparation for the spring 2004 early admissions and registration.
- **b.** The early registration program to allow early admissions and registration for high school seniors during the months of March and April was continued with positive results. Students from Los Lunas, Belen, Century and Infinity participated in early admissions/registration.
- c. Admissions/registrar along with advising and financial aid staffs hosted some 230 Belen High School junior students over three days in April 2004. The same staff presented to approximately 240 Los Lunas High School juniors in their classes at the high school. These presentations are the result of an initiative generated by the UNM-Valencia Advisory Board meeting with the Belen and Los Lunas school boards. The students were presented with information about college and being a college student, how that differs from being a high school student, and given financial aid information. The students were taken on a tour of the campus to cap off their visit to Valencia Campus. Reports from the students as well as the high school faculty, who accompanied their students, were all very favorable. As a result we will repeat this activity during the 2004-2005 academic year.
- d. Admissions staff participated in New Mexico College Days during the month of October 2004. All consortium high schools were visited.

2. Advisement & Counseling Services

- a. Retention efforts were intensified by initiating a new program for tracking and advising students on academic probation and students on financial aid progress contracts. A senior academic advisor was assigned to keep track of all students on academic probation by (1) seeing them a minimum of three times during the semester, and (2) conducting a mandatory workshop covering such things as time management skills, study skills, note taking skills, and text reading skills. The intent is to do all that we can as Student Services staff to bring these students back into good academic standing and to see those students persist toward their academic goals. Preliminary results indicate that this program will work and we plan to continue it during the next academic year.
- b. We received permission to add up to three on-call senior academic advisors to assist us in the above project as well as a graduation readiness program to identify

and assist those students who have achieved the necessary credit hours to earn an Associate degree or a Certificate. The advisors reviewed a list of student with 50+ credit hours for possible degree/certificate candidates, contacted them and encouraged them to petition to graduate. As a result we increased our graduates for 2003-2004.

c. During the spring 2004 semester we piloted a new project to identify students who are not attending class through a new electronic attendance module. Instructors enter student attendance and our Title V Retention Specialist reviews attendance records on line. This person then contacts the student(s) to express concern and to find out if we can assist them in any way. This is helping to make our "Early Alert" program more effective by looking at student lack of attendance as early as possible.

3. Advising/Career Services Counseling Services One-Stop Concept

- a. We have been able to co-locate advising, counseling, and career services in one wing of the Student Services area. As a result we are able to provide a one-stop shop approach to students needing a mix of these services.
- b. The counselor participated in teaching a 1 credit hour math class called "Finding Your Mathematical Voice" during the fall and spring semesters.
- c. The Counselor conducted Alcohol, Anxiety and Depression Screenings during national college screening days during the fall 2003 and spring 2004 periods

4. TRiO/SSSP

- a. UNM-Valencia Campus continued to serve qualified students through the Student Support Services Program grant under the TRiO umbrella which serves low income, first generation College and/or disabled students. This was the third year of this four-year grant. During the year the program exceeded its grant goal by serving more than 172 students. The grant allows us to provide intensive services to a minimum of 160 students per academic year. These services include advising, counseling, tutoring, and weekly contact with the students, monitoring class attendance, and providing college survival skills workshops. All third year grant goals were met. The program was funded at \$228,819 during this period
- b. A pilot program was initiated to create a Learning Community during 2003-2004. Seventeen students participated in the programs all of whom were participants in the Student Services Support Program. These students formed a cohort that took Math 010, English 010, Acad 100, IT 101, IT 110, and Math 193 during the fall 2003 semester. Results revealed that 80% of the students persisted into the spring 2004 semester as compared to 64.71% of the control group. The successful students along with eight additional students moved to the next level for spring 2004. Of those students 81.25% persisted into the fall 2004 semester while the control group persistence was 73.6%. The successful students from the spring Learning Community registered into a linked class group consisting of a section of English 101 and Sociology 101 for fall 2004.

6. TRiO/Upward Bound

- a. UNM-Valencia Campus was awarded an Upward Bound grant fall 2003. The grant is for four years with an award of \$220,000 in the first year. The purpose of the grant is to identify and provide tutoring and other services to 50 current students in grades 9-12 from Belen and Los Lunas High Schools whose intent is to go to college. The students must meet low-income and first generation requirements in order to be eligible for services. In the first year the program served 27 students. It is anticipated that the grant will reach its goal of serving 50 students during the fall 2004 semester.
- **b.** The grant is staffed with a Manager, a counselor, and an administrative assistant. Certified teachers are hired to provide after school tutoring to the students. Each fully participating student receives a monthly stipend of \$40.
- c. Student activities include a six week summer program in which the students attend classes in math, English, and science four days per week. Other activities includes visits to colleges and involvement in various cultural events, all funded by the grant. During the summer program the fully participating students receive a monthly \$60 stipend.

B. Significant Plans and Recommendations

- 1. On-going training for staff on the current Student Information System as well as preparation and training to use the new SCT banner system that will be replacing the Student Information System.
- 2. Off-site financial aid workshops will continue to be a big part of recruitment efforts.
- 3. Continue with the pilot Learning Community during the academic year 2004 2005.
- 4. Continue with hosting and visiting Belen and Los Lunas High School juniors.
- 5. Continue with the Learning Community project.

D. Appointments to Staff

- 1. Cassandra Shiplet, Financial Aid Assistant
- 2. Valdis Garoza, on-call Senior Academic Advisor
- 3. Bea Sanchez, Manager TRiO/Upward Bound
- 4. Shirley Cornett, Counselor TRiO/Upward Bound
- 5. Della Willis, Administrative Assistant II TRIO/Upward Bound

E. Staff Departures

- 1. Cassandra Shiplet, Financial Aid Assistant
- 2. Shirley Cornett, counselor TRIO/Upward Bound

IV. OFFICE OF BUSINESS & FINANCE Andrew Sanchez, Associate Director, Business Operations

A. Significant Developments:

1. Campus Issues:

a. On January 26, 2004 construction began on the new Health Science Center, as well as renovations to the Student Services/Administration Building, Wellness Center, and several deferred maintenance projects.

2. Business Office:

- a. The Business and Finance staff is managing the campus' efforts in constructing the new Health Science Facility, and other expansions on campus. These efforts included selecting a contractor, after two separate project bids. The first bid was rejected due to high costs. Schumate Constructors was the successful bidder on the project. The construction phase is approximately 50% completed with all projects scheduled to be completed prior to the Spring 2005 semester.
- **b.** The Business and Finance staff is well underway integrating the LINKS / Banner Finance system implemented by the Main Campus. The new system will eventually add better integration of functions, and better reporting capabilities while eliminating shadow systems on campus.
- c. The Business and Finance staff coordinated the campus efforts to complete a new Five Year Master Plan to be submitted to the Commission on Higher Education. A new Master Plan became necessary as the Master Plan created in June of 2000 will be fully executed with the completion of all projects listed in that plan. The remaining projects will be completed by December 2004 as part of the current projects in progress. As of June 30, the New Master Plan update was approximately 90% complete.
- **d.** The Business Office hired a new Accountant II, which was approved during the FY 03 04 budget. The new position was approved in order to monitor all grants, including tracking cost share, and reviewing new proposals.

3. Human Resources:

- a. A successful search was completed in July of 2004 for a full-time Faculty Assistant Professor of Developmental English. In Addition, twelve staff employees separated from employment with UNM-VC, and seventeen full and part-time staff were hired. The Valencia Campus currently employs 89 full-time staff, 12 part-time staff, 25 full-time faculty, 1 part-time faculty, and 67 adjunct faculty.
- b. The Human Resource Department continues providing important community outreach, such as the "Los Sabios" mentoring program developed at Tome Elementary School and participation in the Valencia Hispano Chamber of

Commerce. Ms. McDonald is also attending a Career Day for Los Lunas high school students, an event to assist students with making future career choices.

5. Computer Support Services

- a. Several modules of the Valencia Management Information System (VMIS) were implemented beginning in Fall 2003, including modules for attendance, orientation, advisement, student demographic, tutoring, and lab login.
- b. In a continued effort to provide more and better services, the Computer Support Services Department implemented a limited distribution of video over the existing fiber optic network connections to each building. Over the air local channels, satellite, and microwaves feeds from UNM main are now available in all buildings on campus except the Physical Plant.

6. Auxiliary Enterprises:

- a. The Bookstore purchased and implemented the Nebraska Book Company Win-Prism Automated Accounting System for inventory and sales tracking. The system has provided faster service to students and more timely and complete tracking of inventory and sales.
- **b.** The Cafeteria completed the physical year with a slight profit, a major milestone f or the staff.

7. Physical Plant:

- a. The Physical Plant assisted in the coordination of the major construction project undertaken by the campus this year, including the new Health Science Center and other campus renovations. Temporary staff reallocation of several departments during construction was a major part of this coordination. All were accomplished with minimal disruption to services.
- **b.** Bill Bowdich of the Physical Plant coordinated the AED (Automatic External Defibrillator) program on campus. This initiative had been in planning for the last two years. This initiative included selecting the appropriate AED, and training of key personnel around campus.

B. Significant Plans and Recommendations for the new Fiscal Year:

- a. The Business and Finance area will move forward with the completion of construction and renewal projects undertaken during FY 03 04. The projects will be completed by January 2005.
- **b.** The Business and Finance staff will also complete a new Five Year Master Plan to be submitted to the Commission on Higher Education. The new Master Plan is expected to be completed by August 2004, with submission to the Commission on Higher Education expected September 01, 2004.
- c. The Business Office staff will continue to work on the Banner Finance Conversion and integration.
- d. The Computer Support Staff will continue its constant effort to enhance and expand all IT services to adequately meet the growing needs of our students,

faculty, and staff. The department will not only continue to upgrade our current network capabilities but also expand campus wide wireless services. Another major initiative will be to try to get a service provider so the campus may more fully utilize the newly completed head end video distribution system, which allows video transmission from one central source to anywhere on campus.

- e. The final funded modules of the Valencia Management Information System (VMIS) will be rolled out during FY 04 05, enhancing our ability to track and report student progress for in house planning which will also allow us to complete our commitments under the Title V Grant Program.
- f. Our Bookstore will continue to explore the feasibility of utilizing the new Point of Sale software capability to allow students to order their books over the Internet. This would enhance customer service to both on campus and distance education students.
- g. The Cafeteria will continue to implement quality improvements to increase sales, decrease costs, and to offer nutritious meals while holding down the costs to customers.
- h. The Security Office will continue its efforts to secure funding in order to add an additional security guard as well as a clerical assistant to the staff. The additional guard will allow for more coverage of the campus and allow for leave to be taken by other position will allow someone to be available in the office at all times while allowing the security officers to have more presence in parking lots, buildings, and open areas. A new automated guard tour tracking system will be implemented to assure guard inspections and tours are consistent but not predictable to add safety and security to visitors, staff, students, and campus equipment.
- i. The Physical Plant staff will continue to work with Main Campus on AED (Automatic External Defibrillator) policy development and related issues.
- **j.** A collaborative effort will be made to examine the feasibilities of having Security, Physical Plant, and Computer Support Staff get uniforms. This will aid tremendously with security in that it will be easier to recognize that only uniformed staff should be in secure areas as well as projecting a more professional image of these staff around campus increasing staff moral and pride.
- k. Human Resources will be scheduling training on Performance Management, Performance Review Overview, and Sexual Harassment during the Fall semester

Staff Changes:

1. Staff Appointments

Cyndy Baca, Administrative Assistant II Daniel Chavez, Custodian Sheila Gorman, Administrative Assistant I Shireen McDonald, Br/Div Human Resources Rep. Shelley Rogers, Accountant II Chris Romero, Custodian

2. Staff Departures: Elsa Aguirre, Custodian Suzie Vigil, Administrative Assistant I

V. PROGRAM DEVELOPMENT 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 program oversight and special projects. The Associate Director is responsible for the management oversight of the Small Business Development Center the P-16 professional Development Grant, coordination of t "Special Scholarships and serves as the Weekend College Administrator.

A. Significant Developments

1. Small Business Development Center (SBDC)

- a. Ms. Roberta Scott and Ms. Cindy Browning respectively continue to serve as the Director and Business Advisor. During the fiscal year 2003-2004 a student employee assisted the Center by providing support services for approximately 20 hours per week. The administrative assistant, Ms. Hutchinson continued on medical until her separation date, Decenber19, 2003. Ms. Ruby Aragon was assigned to the SBDC Center on a .5 FTE basis effective September 20, 2003.
- **b.** The UNM-Valencia Campus Center received a total of \$154,688 to operate during the fiscal year. This included carry forward funds totaling \$7,227.
- c. During the fiscal year 2003-2004, the Center served 182 clients providing a total of 573 counseling hours with an average of 3.1 hours per session.
- **d.** The Center assisted 25 clients obtain \$1,780,500 of capital during the year. Twenty-three businesses were opened with a total of 60 new jobs created. Eleven new businesses were started.
- e. Of the clients served by the UNM-Valencia Campus SBDC, 43% were men, 41% women and 16% were couples. Forty-one percent of the clients were Hispanic, eight percent were black and three percent were Native American. This reflects an increase in all categories from the previous year.
- f. The SBDC and its clients were featured 45 times in the local print media. In addition to this the Director continues to publish articles related to small businesses in the Valencia County News-Bulletin and the Socorro Chieftain.
- g. SBDC hosted its fifth Economic Development Conference in June with 90 attendees. Mr. Jerry Pacheco for the International Business Accelerator in Silver City, NM served as the keynote speaker for the event. He addressed the business opportunities that New Mexico based businesses have in developing trade with Mexico.

2. P-16 Professional Development Grant

- a. Beginning January 2005, UNM-Valencia Campus continued operating the P-16 Professional Development Grant funded by the Commission on Higher Education UNM Valencia Campus spent \$33,770 of the \$66,000 awarded for operation during the 2002-2003 project year. While UNM-Valencia Campus was awarded \$69,540 for the second year of operation, the \$32,330 of unexpended funds must be spent before the \$69,540 is accessed. The major reason for only expending a little over 50% of the award is due to the project design. The students on this project must apply for the Pell Grant. If the students receive a Pell award, their program costs are covered through the Pell grant. The P-16 grant funds cover the costs for those students who do not receive the Pell grant or who do not receive sufficient funds from the Pell grant to cover their costs. From the onset most students have been recipients of the Pell grant.
- b. The Associate Director, Program Development, Senior Academic Advisor, Student Services, the Belen School District's Human Resources Director and Education Professor work collaboratively in administering this program. Every effort is taken to encourage these students to continue their participation in the program.
- c. On November 19, 2003 several P-16 students were recognized for a variety of achievements upon completion of the first three semesters in the program. The f ollowing awards were issued:

Stephanie Saiz	Closest to Degree completion
Grace Jaramillo	Highest GPA and Persistence
Linda Sanchez	Persistence
Anabelle Lovato	Strongest Mentor and Mentee Association and Persistence
Theresa Morgan	Persistence
Kathleen Carlson	Persistence
Paula Gabaldon	Persistence

- d. A joint meeting of the P-16 students and their mentors was held at the Belen School District on March 16, 2004. Eleven students received a total of \$2,200 for successful completion of their fall semester 2003 classes. The awards ranged from \$200-\$300 per student. Six of the mentors received their \$200 stipends for their active engagement with their students during the 2003 spring summer and fall sessions.
- e. One of the p-16 students received her AA degree from UNM-Valencia Campus in May 2004, thus successfully completing the program. This student is presently working toward her Bachelor's degree at the College of Santa Fe. This student received a \$500 stipend for successful completion of a total of fifteen credit hours (five classes) at the end of the fall 2003 session.
- f. There are nine individuals currently enrolled in this program.

3. Scholarships

- a. UNM-Valencia Campus submitted two nominations to the Jack Kent Cooke Foundation for consideration as potential scholarship recipients and one nomination to the Barry M. Gold water Scholarship organization.
- b. Thirty-nine letters were mailed directly to selected students regarding various scholarships including the "Community College Transfer Program" offered through the Hispanic Scholarship Fund.
- c. Working collaboratively with the Financial Aid Office, students were provided with information and applications on the "Sallie Mae Fund Unmet Need Scholarship" program that supplements financial aid packages for low-income students.

4. Weekend College

- a. A total of six classes were offered through the Weekend College during the Fall 2003 semester. Thirty-one students made use of the open lab.
- b. The results of a survey canvassing 90 of the 2003 Fall semester "Weekend College" students regarding the number of classes they would like to take on Saturday, the preferred times for these classes and the preferred number of weeks (duration) for the weekend classes resulted in classes being offered for 16 weeks from 9:00 a.m. to 2:45 p.m.
- c. A total of fourteen classes were offered through the Weekend College during the Spring 2004 semester. Sixty-nine students made use of the open lab.

B. Significant Plans and Recommendations

1. Small Business Development Center

- a. Effective July 1, 2004 Dr. Alice Letteney will provide the management oversight for the UNM-Valencia Campus SBDC Center.
- **b.** Effective July 1,2004 Ms. Ruby Aragon has been assigned to serve as the administrative assistant for SBDC on. a .75 FTE basis.

2. P-16 Professional Development Grant Program

- a. Continue to administer all aspects of this grant.
- **b.** Train the .25 FTE administrative assistant II funded through the grant and assigned to work with the project.

Staff Changes:

1. Staff Appointments

Ruby Aragon (reassigned) Administrative Assistant III

July 1, 2004

2. Staff Departures

Linda Hutchinson Adn Faith Chavez Stud

Administrative Assistant III Student Employee December 19, 2003 June 30, 2004

Outside Professional Activities

Ms. Roberta Scott

Regular articles for local newspaper publication. Los Lunas Rotary Club Board member. Habitat for Humanity Board member. NMIDEA and Red Cross Boards of Directors. Member of the International Economic Development Council.

Ms. Cindy Browning

Member of the Institute for Management Accountants. Past President for the Los Lunas Optimist Club. Business advisor on the Belen Chamber of Commerce Advisory Board. Member of the Rio Abajo Days Committee responsible for coordinating the Belen Chamber of Commerce fundraiser. Ms. Roberta Scott and Cindy Browning, Business Advisor attended ASBDC meeting in San

Diego, California in September 2003.

Publications

Forty-five articles featuring the SBDC or the Center's clients appeared in the local newspaper.

ANNUAL REPORT

2003-2004

CHICANO / HISPANO / MEXICANO STUDIES PROGRAM

UNIVERSITY OF NEW MEXICO



Submitted by Enrique Lamadrid Director January 2005

UNM CHICANO / HISPANO / MEXICANO STUDIES PROGRAM -NEWS RELEASE-

¡ADELANTE! CHICANO / HISPANO / MEXICANO STUDIES PUBLIC FORUMS SPRING 2005

A well publicized effort to revitalize Chicano Studies at UNM is underway. The public is invited to a series of guest lectures, round tables, and community forums featuring celebrated local and national scholars and activists. Moderator is renown Alburquerque educator John J. Lopez. The 6 pm Tuesday evening time slot was scheduled so the public may attend. The host group is Prof. Lopez's introductory Chicano Studies seminar.

The first Community Forum for January 25th is titled: "Creating Educational Access for Latinos: the Pipeline Project," and features Margaret Montoya, UNM Law School Professor and Director of the Southwest Hispanic Research Institute. Additional guests that have been invited include Valerie Romero-Legott, Karen Griego, Miguel Acosta, Rebecca Blum Martinez, and Governor Toney Anaya. Location: UNM Law School Room 2401. Other Forums on community issues include:

February 22 "Tierra y Agua: Land Grants, Acequias, and Agricultural Traditions"

March 8 "Cruzando Fronteras: Immigration in the 21st Century"

March 29 "Trabajo y Trabajadores: A Legacy of Labor Activism"

April 26 "Buscando Justicia: Social Inequality in the Hemisphere"

May 3 "Noche de Cultura: Poetry, Music, and Drama"

Check the Daily Lobo and listserves for updates on room locations. (Sponsored by Evening and Weekend Degree Programs)

CHICANO / HISPANO / MEXICANO STUDIES PROGRAM

GOALS AND OBJECTIVES

The development of a Chicano / Hispano / Mexicano Studies Major is an ambitious goal which depends on increasing enrollments and retention, expanding programs, and enhanced institutional articulation. We have set our sites well past the 200 students we currently serve towards the 6000 Hispanic undergraduates at UNM and all others who share our interests in regional and global history, language, politics, and culture. The recruitment of women teachers, students, and researchers is a major priority. The optimum staffing for the program will consist of:

a director, an administrator, two tenure track faculty, two instructors, three graduate student teaching/research positions, three part time temporary instructors, and two work study positions

Our vision clearly features inclusion, cultural activism, Spanish language recovery, internationalism, and community involvement. (See "2005-2006 Budget Projections" in appendix #5).

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CHICANO / HISPANO / MEXICANO STUDIES PROGRAM

Prof. Enrique Lamadrid - Director

I. A HISTORICAL OVERVIEW

The Chicano Studies Program at UNM emerged in the 1970s during a heightened period of student political and cultural activism. Controversies concerning the Viet Nam War and the Land Grant movement polarized and energized the community. The traditional curriculum at UNM was challenged and new interest in women's and ethnic studies was met with new courses and programs.

Although strong departments of Anthropology and Spanish have always been part of the foundational vision of a University <u>for</u> New Mexico, the commitment to Regional Studies built by leaders like President Zimmerman and Spanish Professor Joaquín Ortega before World War II waned quickly in the post war period. An important link to the future was forged by Professor Sabine Ulibarrí with the foundation of the nation's first "Heritage Spanish" program as we now call it.

REGIONAL STUDIES

Chicano Studies built on the past, articulated with the national Chicano movement, and helped restore and build UNM's commitment to the region. The emergence of the Center for Regional Studies in the 1980s has insured the vitality of this process, funding special research and archival projects, film, joint appointments, graduate fellowships, and program initiatives including the establishment of the Heritage Spanish program and instructorships in Chicano Studies. Faculty with academic backgrounds in Chicano Studies now occupy positions of leadership across campus, including five chairs in Arts & Sciences, one in Education, and prominent colleagues in Law and Medicine.

THE UNDERGRADUATE MINOR

The Chicano Studies undergraduate program has always been small, perhaps because students may pursue regional studies in a number of departments. In 1996 these offerings coalesced into a Minor, with the addition of introduction, topics, and seminar courses. After a period of initial growth, the program reached a stasis, with minors numbering up to 40 students, and overall enrollments up to 185. These numbers are small when compared to the growth in the Heritage Spanish program (450-500) and minuscule in the sea of Hispanic undergraduates at UNM (5000-6000). When Chicano Studies became a part of University College, a renewed commitment to undergraduate education and retention emerged. Director Eduardo Hernández Chávez directed much of his energy to the establishment of a Spanish language charter school, La Academia de Lengua y Cultura. The introduction of Chicano Studies curriculum in high schools was also a high priority.

A NEW DIRECTOR

Enrique Lamadrid began as interim chair in the fall of 2003, after a year of controversy concerning the directorship and the rejection of a candidate. The national search which followed confirmed his leadership by the fall of 2004. A Chicano Studies Steering Committee lead the program through this difficult period (see 2/04 "Chicano Studies Mission Statement," appendix #1). Lamadrid was chosen for his experience, research and museum record, diplomacy, and a plan which emphasizes inclusion, cultural activism, language recovery, community involvement, regional studies, and institutional articulation (see "Press Release" and "A Personal Manifesto" in appendix #2 and #3).

NEW DIRECTIONS: A NAME CHANGE

Action on the inclusion initiative led to a name change of the program in November 2004, since the term "Chicano" does not fully address the diversity within the Hispanic communities of New Mexico. It is interesting to note that sister programs across the Southwest reached the same conclusions and made necessary title changes as early as the early 1980s at the University of Texas Austin, the University of Arizona, and others. Don Américo Paredes, the Dean of Chicano Studies himself, instituted the change in Texas to "Mexican American Studies" in a move towards inclusion and diversity. After lengthy discussion over almost two years, the Steering Committee recommended a name change of "Southwest Hispanic Studies." The following language was then submitted to the Curriculum Committee:

"The terminology of "Chicano Studies" has ever-decreasing relevance to Hispanic students in New Mexico, who overwhelmingly identify themselves and their families with the ethnonyms "Hispanic" and "Mexicano," at the top of a list which also includes "Mexican-American," "Latino," and near the bottom, "Chicano." To target a broader range of a diverse population, only the name of the minor will change to "SW Hispanic Studies." Course contents and degree requirements will remain the same."

After a dynamic community forum and debate with national repercussions, the name became Chicano / Hispano / Mexicano Studies (CHMS). (See "Some thoughts on Chicano / Hispano / Mexicano Studies at UNM" appendix #4).

II ACADEMIC PROGRAMS

COURSES

Typical course offerings in 2003 and 2004 have included the core introductory and senior seminar courses, a wide variety of topic courses, plus a number of cross listed courses. Staffing includes a full time director, a full time administrator, two full time lecturers, and a pool of five graduate student TAs, and five part time lecturers. Four women have been added to the pool to teach various courses.

In Spring 2004, course offerings were doubled and a recruitment campaign featuring regular Course Preview Nights was conducted. Cross listed courses were dramatically increased, with new TW's with Native American Studies, Religious Studies, Women's Studies, American Studies, Anthropology, Spanish & Portuguese, Theatre, Fine Arts, and Philosophy. New Arts and Science Approvals for Group Requirement Status in Social Sciences, Humanities, and Fine Arts were also obtained.

FACULTY

For full faculty profiles, check the "~Chicanos" website. Recent news includes impending book contracts for both Michael Candelaria (advance contract/UNM Press) and Charles Trujillo (Harlan Davidson Press). Enrique Lamadrid received top honors for his UNM Press book, Hermanitos Comanchitos: Indo-Hispano Rituals of Captivity and Redemption, with the prestigious University of Chicago Folklore Prize and the Southwest Book Award.

INITIATIVES

Revival of a course in Indo-Hispano Traditional Arts which was originally piloted, then forgotten in the College of Fine Arts, which has now cross listed it and will be taking it over by fall.

The first CHMS courses offered entirely in Spanish have begun, with classes on Border Culture and the Camino Real. The Spanish requirement for the Minor has been increased by one course to the SPAN 202/212 level.

A mandatory Service Learning component has been added to the Senior Seminar CHMS 490, modeled after the Senior Colloquium in University Honors.

The CHMS 201 Introduction to CHM Studies was offered to the entire senior class of South Valley Academy (charter school).

Another section of the CHMS 201 Introduction is being offered featuring a series of public forums and guest speakers.

SUMMER PROJECTS

An ongoing academic exchange with the Universidad de Extremadura on the topic of Border Studies happened in the summers of 2003 (in Spain) and 2004 (in New Mexico). Titled "Fronteras y Fronterizos / Culture and Identity in Spanish and Mexican Borderlands," two professors from the UE joined the team for a two week traveling seminar. Will be featured again in 2006.

A Field School in the Documentation of Traditional Cultures is scheduled for the summer of 2005.

INTERNATIONAL PROJECTS

The CHMS 351 Chicanos Abroad course title has been changed to "Expediciones" to give more room for the subtitles which describe the destination of the study seminars. In recent years Prof. Charles Trujillo has conducted trips to Mexico, Spain, Peru, and now Argentina. Prof. Lamadrid led a group on the medieval pilgrimage to Santiago de Compostela in May 2004 and is conducting trips to Puerto Rico and Zacatecas, Mexico.

Our international agenda has included a visiting researcher from Japan and visiting faculty from Mexico, supported by the Fulbright Program. In 2004 prominent anthropologist Tomás Martínez Saldaña has been in residence to do research on traditional agriculture in New Mexico. Jacinta Palerm, another Mexican scholar has applied for residency at UNM next year.

MUSEUM PROJECTS

Classes built around museum exhibits at the Maxwell Museum and the Hispanic Cultural Center have and will be offered. Prof. Lamadrid taught a course on traditional ballads in conjunction with the Smithsonian exhibit "Corridos sin fronteras: a New World Ballad Tradition" in Fall 2004. The Smithsonian "El Río: Traditional Culture and Environment in the Río Grande/Bravo Watershed" is coming in Spring 2006.

III CULTURAL ACTIVITIES

SMITHSONIAN EXHIBIT

The major cultural and research achievement of Chicano / Hispano / Mexicano Studies in 2003-2004 was the building of the NM component of the Smithsonian Traveling Exhibit entitled "Corridos sin Fronteras: a New World Ballad Tradition" which was featured at the Hispanic Cultural Center from May to December, 2004. We expanded the exhibit with "Nuevo México, ¿Hasta Cuándo? / New Mexico, How much Longer?" featuring a full kiosk display, wall and floor cases and panels, and audio and video installations, plus a CD and interpretive booklet. The Museum of

New Mexico Traveling Exhibits Service has adopted this component to tour the state and is now in the Silver City History Museum. Prof. Lamadrid helped raise \$85,000 to bring the exhibit to New Mexico, \$12,000 of which was expended at UNM on design and fabrication of the exhibit.

Additional activities included an August Teachers Workshop attended by educators from across the state, and a national symposium. A series of lectures and performances were also featured. Prof. Lamadrid taught an undergraduate course and graduate seminar built around the exhibit.

NATIONAL CONFERENCES

UNM Chicano / Hispano / Mexicano Studies was the co-sponsor of the National Association of Chicano Studies Conference - March 31-April 4, 2004 with faculty and student participation across the board in sessions, panels, and committees, including the Site Committee, and Committees for Community awards, Cultural events, Publicity, Logistics, Nominations for Fred Cervantes Prize, NACCS Scholars, etc. See webpage at: www.naccs.org

UNM Chicano / Hispano / Mexicano Studies was the co-sponsor of the Recovering the U.S. Hispanic Literary Heritage Project in December, which featured a Plenary Session on Corridos, and a day of activities at the Hispanic Cultural Center, where our exhibit was on display.

MAJOR SPONSORSHIPS & COLLABORATIONS
-"La Pastorela" - New Mexican Shepherds' Plays, December 2003
-"La Virgen de Guadalupe" - festival, December 2003, 2004
-"Paul Espinosa Film Festival" - with SW Hispanic Research Institute - September 2003
-"Images of San Ysidro" - Exhibit with Maxwell Museum - Alfonso Ortiz Institute, Fall 2003, programming and community outreach.
-"16 de Septiembre" Celebration - with El Centro de la Raza, 2003 and 2004.
-"Dia de los Muertos" Celebration, 2003.

-"César Chávez Memorial Celebration" - March, 2004.

-"5 de mayo" - with El Centro de la Raza, 2004.

-"Raza Graduation" - with El Centro de la Raza, 2004.

-"Los Comanches en Nuevo México" Festival / Symposium - November 2004, Los Luceros / Collaboration with Getaway Adventures. -Plus support of activities with MANA, Raza Graduate Students,

and undergrad groups.

IV COMMUNITY RELATIONS

EDUCATIONAL OUTREACH

We have cultivated relations with public and charter schools in Albuquerque on programs and curriculum.

Support for the Academia de Lengua y Cultura continued in 2003.

In the late summer of 2003, a workshop for the South Valley Academy was hosted at UNM in connection with their curriculum development NEH grant on the Impact of World War II in New Mexico. In addition, a Spring 2004 CHMS 201 Introduction class was offered by Prof. Michael Candelaria to the entire senior class on site at the charter school.

In summer of 2004, educators from across the state attended the Corridos Teachers Workshop at the Hispanic Cultural Center conducted by Prof. Lamadrid. Many of these educators will be working with the Corridos traveling exhibit when it comes to their community.

In the fall of 2004, arts educator Alejandro López offered a course called Art and Community in which students performed service learning public art projects at Robert F. Kennedy Charter School near campus.

Renown Albuquerque High School teacher John López continues his collaboration with UNM by teaching Chicano Studies to APS teachers and students and by teaching our CHMS 201 Intro course.

Prof. Michael Candelaria is supervising the new service learning component of the CHMS 490 Senior Seminar, in which students will be serving organizations across the community, including senior centers, health agencies, and schools.

QUESTA MUSEUM

Another major outreach project is our sponsorship of the organizational phase of the Questa History Museum. CHMS Admistrator Lucille Córdova is directing this initiative in connection with her work with the Questa Historical Society. A classic WPA era building is currently being rennovated to house the museum.

DETENTION CENTER OUTREACH

Given the disproportionate representation of Hispanics in the New Mexico Correctional System, Chicano Studies has historically conducted outreach activities, mostly consisting of support of cultural activities and library resources.

In December 2005, a Book Drive was conducted which collected over 500 texts of all descriptions from private individuals and the UNM Bookstore. They were donated to the City of Albuquerque / Bernalillo County Metropolitan Detention Center.

APPENDIX

#1. MISSION STATEMENT: CHICANA/O STUDIES PROGRAM

Designed to enrich the University community at large, the Chicana/o Studies Program offers a broad selection of courses exploring the rich historical and cultural tapestry of Chicano/Mexican experience throughout the United States. The program uses an interdisciplinary approach to examine the historical, political, social, educational, economic, artistic, and cultural developments that affect the Chicano and other Hispanic communities in the United States. Further, the program allows students to analyze the mainstream U.S. society from the perspective of a linguistic, ethnic, and cultural minority within a contemporary cultural studies framework. The program provides students with opportunities to assist community organizations, thereby gaining invaluable professional experience. The program provides students with scholarships to study in Mexico. Spain and Latin America, enabling students to improve their Spanish-language fluency, increase the knowledge of contemporary Hispanic cultures and of the vital interactions between New Mexico populations and their communities of origin. The education offered by the program enables students to assume leadership roles in our multicultural society and global economy. (Passed unanimously by the Steering Committee 2/18/04)

#2. PRESS RELEASE: ENRIQUE LAMADRID NAMED INTERIM DIRECTOR OF CHICANO STUDIES

Literary folklorist and Professor of Spanish Enrique Lamadrid became interim director of UNM's Chicano Studies Program this summer after he was recommended by a consensus of faculty, staff, students, and community members last spring.

Before coming home to UNM in 1985, he taught Chicano and Latin American literature and folklore at Northern NM Community College and the University of Oregon. Lamadrid is a scholar and cultural activist known for his research on mestizo culture, his legendary international field programs, and his community and student advocacy.

"This is a pivotal year for the future of Chicano Studies at UNM," Lamadrid stated, noting that there will be a national search for a permanent director this year. His vision of program building stresses inclusion, cultural activism, Spanish language recovery, internationalism, and community involvement.

Besides a series of cultural activities, a symposium, and new courses, the high point of the year will be the spring meeting of the National Association of Chicano Studies in

Albuquerque. The entire UNM Chicano community will be involved in planning, special events and awards, and of course panels and papers to showcase the research of faculty and students.

#3. CHICANO STUDIES AT UNM / A PERSONAL MANIFESTO Prof. Enrique R. Lamadrid / Interim Director

Chicano Studies has been one of the cornerstones of my career in teaching, research, and service. I taught one of the first C/S courses at Los Angeles Valley College when I was a grad student at USC, and went on to teach the *first* Chicano Literature course at the University of Oregon, where I was faculty advisor to MEChA, and was also very involved in migrant advocacy. I then returned to my *querencia* and taught six years at the Northern NM Community College in Española before coming to UNM in 1985. The continuing battle up north was trying to do liberal arts and cultural activism in the narrowly pragmatic framework of Vo-Tech education. My research record begins with Mexicano and Chicano literature and extends into "cultura popular", the culture of the people, with special emphasis on the study of mestizaje and hybridity.

My vision and areas of strength in Chicano Studies center on the following:

- -Inclusion. The Chicano experience is broad and multi-faceted; urban as well as rural, working as well as middle class, with all degrees of bilingualism and multiple identities that vary from "puro mexicano, casi" to "coyote." To approach the pedagogical goal of conscientización as Paulo Freire defines it, you must begin with students as they are in order to show them what they can become.
- -Cultural Activism. Culture takes on a great symbolic role in our plural society. Chicano literature, theatre, and art have always been the vehicle of social consciousness and community identity formation. My recent experience organizing folk and Chicano theatre festivals has proven to me once again the power of art in reaching out to the community. A complete calendar of cultural events is a sure sign of vitality in Chicano Studies.
- -Language Recovery. As a Spanish professor in this part of the world, I am a facilitator in the process of linguistic recovery. Language is so intimately connected to identity, that achieving the goal of full bilingualism can lead to great personal fulfillment. When Chicanos professionalize their Spanish, doors open wide. Our Spanish Heritage language program gives us great access to Nuevomexicano and Mexicano students to recruit into Chicano Studies.
 -Internationalism. As Chicanos "en la barriga del monstruo"

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(José Martí), we must expand our social, political, and cultural awareness beyond our region to include the rest of the Spanish speaking world. As a founder of the Conexiones program, a central feature of my teaching has been the exploration of US Latino cultural homeland areas, including both northern and central México, western Spain, and the Caribbean. In 1997 I organized a Chicano-Riqueño program in Puerto Rico. In 2000, I took UNM's first undergrad seminar to Cuba. More recently my groups have been exploring the Camino Real de Tierra Adentro in Chihuahua, and Nuevo México's historical connections to Baja California. Travel seminars are an integral part of C/S. There is a rich in house legacy in this part of our curriculum.

- -Community Involvement. Chicano Studies begins with community and advocacy. Besides my research, my link to the community has been through environmental education (the Jardines del Bosque Program and the Albuquerque Teachers Institute), the Senior Centers, Community Centers, and the South Valley Academy (charter school). I have a network of former students who now teach in public, charter, and private schools, both locally and in the state. Chicano Studies puts social activism into a historical perspective. But a new emphasis on Service Learning will create actual opportunities for our students. University Honors has an exemplary program of Service Learning, and we can follow suit.
- -Regional Studies. Since the beginning, my goal has been to put Nuevo México in a more prominent place on the map of Chicano Studies. Our regional focus is one of our program's greatest existing strengths and future potentials. Border studies are part of this picture. As I tell my students, Chihuahua is the other half of New Mexico. In an indohispano cultural region, Chicano studies needs to reach out to Native American studies in new and significant ways.
- -Institutional Articulation. We need to work with our minor, expand our offerings and faculty, cross list more courses, develop a major, and articulate opportunities for graduate studies with existing SW/Chicano programs in American Studies and Spanish. Program building also includes grantsmanship. My grants record includes six figure budgets from the Fund for the Improvement for Post Secondary Education (where Conexiones began) and the NM Legislature (UNM Smithsonian partnership), as well as program grants from NEH and smaller foundations such as the Witter Bynner Foundation for Poetry. I have chaired a search committee in my own Department. I served on the University Honors search committee last year, and am now serving on the Student Affairs search for the new director of Special Services.

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As interim director, I would hope to serve as more than a caretaker for a legacy more than thirty years in the making. As the search for the permanent director evolves, I will actively advance the C/S academic agenda. There are strong linkages between Southwest, Regional, and Chicano studies. Almost every single one of my close colleagues are involved with all three. The potential for program building is excellent at UNM.

#4. Some thoughts on Chicano / Hispano / Mexicano Studies at UNM -Enrique Lamadrid

There are two types of *ethnonyms*; those assigned to a cultural or ethnic group, and those which such groups use to refer to themselves. U.S. Hispanics / Latinos / Chicanos (etc.) are a diverse group with multi-faceted national, racial, and cultural elements which constitute their identities. The range of ethnonyms is broad, and depends on the preferences of each group. Although they refer to cultural, national, and political groups, ethnonyms are very personal.

The largest group of U.S. Hispanics are connected in some way to Mexico, historically, culturally, and through immigration. The second group is of Caribbean origin, namely from Puerto Rico, Cuba, and the Dominican Republic. The third group includes a broad collection of others. One characteristic which links these groups is a present or past relationship to the Spanish language.

Spanish Heritage Language programs identify and teach students connected in some way to the language. At UNM, the majority of our Spanish Heritage Language students are either native New Mexicans or foreign and US born Mexicans. Of hundreds of students who have taken Spanish placement tests for Heritage students in the past few years, only 8-9% have chosen "*Chicano"* as the ethnonym of preference. The vast majority identifies with terms like "*Mexicano"*, "*Hispanic* or *Hispano"*, and "*Mexican American"*.

Our goal in the Chicano Studies Program in a designated Hispanic Serving Institution is to find a way to serve this 90 [•] percentile in such a way that does not immediately threaten or disrespect their identity. Identity formation is a personal process that cannot be imposed from without. It is informed by family, education, and community.

For these reasons, the faculty of the program, its advisory committees, and Hispanic and Chicano faculty at large in the institution are overwhelmingly in support of a name change for the program, to update, and more truly reflect its goals and objectives. We are also counting on the support of community groups concerned with the future of UNM such as the Hispanic Round Table. The content of existing courses and program design will not change, only titles. If a consensus is achieved, the new name for the program will be Southwest Hispanic Studies, as

of the next Fall 2005 catalog. The only additional catalog change for the minor is an upgrade of the Spanish requirement by one course, and the inclusion of a service learning component in the Senior (or capstone) Seminar.

A Southwest designation will create instant articulation and identification with all the other units in this area of Marked Excellence at the University of New Mexico, including (among many others):

Southwest Hispanic Research Institute

Center for Southwest Research

Center for Regional Studies

Center for the Southwest,

not to mention several Departmental undergraduate and graduate concentrations in Southwest and Chicano Studies, including Spanish, American Studies, English, Linguistics, and others.

However, since Chicanismo and the Chicano Movement continue to be a part of our history and future at UNM the following points are also resolved:

- -The term "Chicano" is honored as an integral part of the history of Mexican American activism in the United States, which neither began nor ended with term itself.
- -The term "Chicano" is used in a historical sense, to refer to the Chicano movement, in its social, political, and cultural aspects.
- -Chicano as a literary term is viable and will continue to be used in titles and literary histories.
- -Unfortunately, the term "Chicano" with the newly ascribed meanings of the 1970s and 1980s, never made it very far past the walls of the university. The revisionist meaning of the term was never accepted in most Mexican American communities. Therefore, it can only be concluded that it is a "college" term today. People that use it are connected in some way to the university.
- -In the university setting, many Chicano Studies Programs have changed their name. Only a few have retained the term, such as UCLA and the UC Santa Barbara Chicano Studies Department where the academic movement began. Because of the ambivalence of the Chicano ethnonym in many communities, prominent programs such as the one at the University of Texas, Austin became "Mexican American Studies."
- -At UNM, many units and programs have changed titles to broaden both the focus and critical to students. El Centro Chicano's change to El Centro de la Raza is one outstanding example, since their mission is to serve a broad range of students. Another example is the Chicano Politics course in Political Science, which long ago changed its name to Latino Politics.
- -Many alternative program names have been discussed at UNM, including Latino Mexicano Studies, U.S. Latino Studies, and

others. Lamadrid's favorite is "Nuevo Mexicano Studies" because it is all-inclusive of Xicanos (archaic spelling of Chicanos), Mexicanos, and places New Mexico and Mexico more prominently on the map of curriculum and research. The critique is that the name should be more recognizable and less contrived.

- -Although many national groups are not fully comfortable with the term *Hispanic*, it has broad acceptance and historic usage in New Mexico. *Hispano* is preferable to many, but the translation would needs explaining as well.
- -Because it reflects a northeastern point of view, *Southwest* is also a term of compromise. At least it extends the region far beyond New Mexico.

By broadening our scope and including more students in the program, the way will be paved for an undergraduate interdisciplinary major, our ultimate goal.

UNM CHICANO / HISPANO / MEXICANO STUDIES 2005- 2006 Dream Team Budget Projections Enrique Lamadrid, Director

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- For Line item # 1 we have budgeted \$36,131.00 for the Director's position, currently held by Dr. Enrique Lamadrid, we need an additional \$12,000 in order to meet his total contract amount.
- New Tenure Track Faculty lines. 1 FTE at \$45,000 and ½ FTE at \$22,5000 (for joint appointment). Total \$67,500.
- 3. Our two Lecturer IIIs are paid from two sources. Dr. Charles Truxillo receives half of his salary or \$20,000 from Center for Regional Studies / Dr. Tobias Duran. We request funding to cover that balance within our own budget . Dr. Michael Candelaria receives his entire salary from CRS/ Duran as well, we request complete funding of \$41,000 for a total of \$61,000.
- 4. Lines 20A0 Graduate studies /TAs. We request an additional \$7550. The budget line is for 3 @ \$2750, for a total of \$7550. This only covers one semester, Currently we have two TAs teaching for us Fall 2004 and Spring 2005. We also need to assist our TAs with tuition waivers in the amount of \$3200. In total we need \$10,750.
- 5. Line 20P0 Part-time Temporary Instructor. We currently employ one Part-time Temporary Instructor and in the future will need three. Our budget for temps is set at \$5,000. We need an additional \$13,000 to fund 3 part-time positions at \$3,000 each per semester.
- 6. We request additional funding for 2 workstudys, one of which is a student/web master. An additional amount of \$3000 would be sufficient for one year for basic office coverage.
- 7. Line item 0604, Supply budget; includes, phone service, supplies, postage, photo copying, honoraria, library needs to increase from \$9539.98 to \$20,000.00 in order to meet C/H/M sponsored events, our community outreach efforts, and to otherwise enhance and enrich our academic offerings (field trips, guest lecturers, etc.). Total increase of \$10,460.02.
- Finally we need to upgrade our Administrative Assistant III position to a Program Coordinator with a salary increase of approximately \$3,000.

#5

1.	Director Position	\$12,000
2.	Tenure Track Faculty	\$67,500
З.	Lecturer IIIs	\$61,000 \$61,000
4.	TAs	\$10,750
5.	Temps	\$10,750
6.	Workstudys	\$ 3,000
7.	Supplies	\$10,460
8.	Program Coord	\$ 3,000
		\$113, 210 Total increase

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UNM CHICANO / HISPANO / MEXICANO STUDIES Enrique Lamadrid - Director

(See web page for more details <u>http://www.unm.edu/~chicanos/)</u>

I SPRING 2005 HIGHLIGHTS

ADELANTE!: FORUM AND LECTURE SERIES - Moderator John López Spring series open to the public on topics including: NM Education Pipeline Project Acequia Culture and Agriculture: Heritage & Future Immigration and Transnationalism: Chihuahua and New Mexico Trabajadores y Obereros: Labor and a History of Work Social Inequality: Privilege and Poverty in the Borderlands (Built around the CHMS 201 Introduction to Chicano / Hispano /

Mexicano Studies)

SERVICE LEARNING INITIATIVES

- -Senior Capstone Seminar with new Service Learning Component Michael Candelaria (CHMS 490)
- -Art and Community Service with Alejandro López at RFK Charter School (CHMS 393)

EXPEDITIONS:

-PUERTO RICO & NUEVO MEXICO: CHICANO-RIQUEÑO STUDIES Senior Learning Community with Spring Break Expedition to PR Comparative regional studies in literature, language, and cultural history, with Professors Eleuterio Santiago Díaz, María Dolores Gonzales, and Enrique Lamadrid (CHMS 351).

-CAMINO REAL DE TIERRA ADENTRO

Learning Community with Inter-session Expedition to Zacatecas Search and documentation of the cultural roots of New Mexico, with Jose Bañuelos, Fulbright researcher Tomas Martínez Saldaña, and Enrique Lamadrid (CHMS 351).

ARTS & CULTURAL INITIATIVES:

-Indo-Hispano Arts - survey of traditional expressive culture in New Mexico by Mary Montaño, acclaimed author of *Tradiciones nuevomexicanas*

-Community Art Projects with Alejandro López

- -"Comanches en Nuevo Mexico" / with Native American Studies
- Tewas and Comanches A Heritage Shared March cultural event -Cinco de Mayo: una Noche de Cultura / music, poetry, theater, May 3, 2005

MORE SPRING CHMS COURSES

-Patricia Perea / Hispana Writings: From Folklore to Fiction -Michael Candelaria / Globalization and Human Rights & SW Hispanic Religion -Charles Truxillo Meso American Civilizations (Anthro crosslist)!

ACADEMIC ARTICULATION: CROSSLISTINGS & GROUP REQUIREMENTS -American Studies, Anthropology, English, Fine Arts, Spanish, Women's Studies (both cross lists and taught with status) -New Arts and Science Approvals for Group Requirement Status in Social Sciences, Humanities, and Fine Arts

II UPCOMING PROJECTS:

-INTERNATIONAL FIELD SCHOOL: Documentation of Traditional Culture Inter-Cultural Communication / Indo-Hispano Legacy with Miguel Gandert, Enrique Lamadrid, and Tomas Martinez Saldan~a

- -CONEXIONES 2005: Trujillo / with continuing collaboration with the University of Extremadura Curso de Verano (to convene at UNM in Summer of 2006)
- -CAMINO REAL HERITAGE CENTER Permanent Exhibit Student involvement with exhibits and programs at the new center
- -"EL RIO" Smithsonian Traveling Exhibit (spring 2006) Traditional culture and environment in the Río Grande watershed

III COMMUNITY RELATIONS
-Robert F. Kennedy Charter School / Arts Projects
-South Valley Academy / WWII Curriculum Project
-Albuquerque High School / Chicano Studies / John Lopez
-Martineztown Projects
-Amistad and North 4th Senior Centers

IV OTHER CULTURAL ACTIVITIES / CO-SPONSORSHIPS National Association of Chicano Studies MANA / Membership and Annual Banquet Raza Graduate Studies Estudiantes del Norte Raza Graduation Cesar Chavez Memorial Celebration Cinco de Mayo Celebration with El Centro

COMPUTER & INFORMATION RESOURCES& TECHNOLOGY

Annual Report July 1, 2003-June 30, 2004

Prepared by CIRT Management and Staff

Computer & Information Resources & Technology (CIRT) is the computing center at the University of New Mexico. CIRT's experienced staff and dynamic resource capabilities provide computing and networking services to a diverse and extensive campus community.

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2.0 EXECUTIVE SUMMARY

The 2003-2004 Fiscal Year was very busy for CIRT. The LINK Finance project continued to demand much support from CIRT staff across all areas of the organization. The Administrative Support staff focused on the final implementation stages of Banner Finance as well as the numerous third party systems that provide services external to the base finance product.

The Database Management and UNIX systems group kept improving the database and systems configurations that support the Banner software so that we can incrementally implement the remaining modules in the system.

Management and staff in our Support Center were instrumental in implementing a support model for the LINK project, and implementation for the LINK Student system started in earnest. The Dane Smith Hall Pod was upgraded with 88 new computers and five projectors. The Network group was busy continuing the network upgrade to campus buildings as well as implementing significant improvements to the campus network backbone. In addition, security and privacy protection became a major activity for CIRT.

CIRT's major accomplishments for the 2002-2003 Fiscal Year fell into the following broad areas:

- Administrative applications projects
- · Client support and infrastructure software improvements
- Hardware and infrastructure projects
- UNM network improvements

Usage of CIRT's various services (detailed in the tables and graphs in Section 7) continues to increase in many categories. It is becoming increasingly difficult to meet the demand on these services, but CIRT continues to reallocate its resources to find better and more productive ways to stay ahead of ever increasing demands.

To ensure that our ongoing commitment to excellent customer service continues, CIRT contracted with the UNM Management Development Center to provide a dedicated customer service training program for all CIRT staff.

While Project LINK has been the primary focus of most of CIRT's administrative and technical support staff (detailed in Section 8), we did make numerous incremental enhancements to UNM's academic and administrative systems (detailed in Section 4). Many of our efforts in the administrative applications area were focused on automating manual processes and developing electronic process that improved productivity for faculty and staff.

CIRT's efforts in client support and infrastructure software improvements focused on the computer pods and classrooms we support as well as privacy and security improvements for our clients. In addition, the newly refurbished Lobo Lab provided support for many department-affiliated seminars and conferences, and provided space for LINK training sessions.

As noted, much of CIRT's focus on hardware and infrastructure support was on new hardware and software to support the LINK project. CIRT is supporting many servers and managing increased storage in preparation for the new Banner Systems. In addition, another major accomplishment of this group last year was the selection and implementation of a new e-mail system to support central e-mail services for UNM.

The Network group continues to work to bring the whole campus to a switched network environment.

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Much progress was made this past year in that area and there is hope that we will soon see this goal completed. This group also began laying the foundation for a true end-to-end managed network environment this year and completion of that goal is one of our highest priorities in the coming year.

As peer-to-peer file sharing becomes more and more prevalent, and more and more hackers work to exploit operating systems holes, security and privacy issues demand more attention from our staff. New Federal and State statues require that we focus more on privacy and security than ever and we are developing training and awareness programs to ensure that students, faculty and staff know their risks and responsibilities.

On the non-technical side, CIRT instituted an organizational and management development project that is outlined in Section 9. Our goal is to develop our management and leadership skills while improving our organizational structure to allow us to provide core services in a more efficient and effective manner.

As we reflect on a busy and productive Fiscal Year 2003-2004, we look forward to another year of new and exciting challenges.

3.0 CIRT Organization

3.1 Executive Offices of the Associate Vice President

- Associate Vice President
- Unit Administrator
- Accounting Administration
- Supporting Staff

The executive offices provide support common to all groups within CIRT, including contracting, materials management, and administrative support for the entire CIRT staff. Planning is the shared responsibility of upper-level management in the executive offices and operational groups which include: Administrative Information Support (AIS), Information Resource Center (IRC), Central Systems and Operations Support (CSOS), Distributed Systems Integration Group (DSIG), and the Network Group.

3.2 Administrative Information Support (AIS)

AIS serves the administrative information needs of the University, primarily through the development and 24-hour maintenance of mission-critical central systems such as I-TEL-UNM, Financial Aid Management, Financial Reporting Systems, Payroll, Human Resources and others. AIS is participating in the LINK Project's implementation of Banner administrative software, and has committed teams of analysts and managers to implement Finance, Financial Aid, and Student and Academic systems. AIS also supports the Data Warehouse for accessing student administrative information.

3.3 Information Resource Center (IRC)

The IRC provides the UNM computing community with the first level of support for CIRT-supported hardware and software. The CIRT Support Center, staff consultants, CIRT computer pods and classrooms, computer accounts, documentation and publications, public relations, hardware maintenance, software distribution, security, tutorial materials, etc. are all supported by and included in the Information Resource Center.

3.4 Central Systems and Operations Support (CSOS)

CSOS provides operational support for all CIRT shared systems. This includes monitoring and operating all hardware systems, data entry, scanning services, enterprise server operating systems, as well as database, technical, and administrative support. CSOS provides delivery service to administrative departments on campus, and monitors, records, and reports the status of hardware problems. In addition, CSOS supports a staff that maintains outside contacts.

Distributed Systems Integration group (DSYS) provides a wide variety of mission-critical Universitywide services such as e-mail, domain name service (DNS), campus LDAP directory, Web servers, Web portal, and file storage. DSYS also provides the computing infrastructure underlying application platforms like Oracle and ColdFusion that power Project LINK and other new administrative systems. DSYS works with academic and administrative departments and organizations around the UNM community to select, provide and support systems and services beneficial to UNM. Specific areas of focus over the last fiscal year included creating the production Link Finance infrastructure, increasing use of LDAP, and Security. The Network Group is responsible for designing, installing and supporting the UNM network/backbone, including campus access to the Internet and other national networks such as Internet2. The group works closely with various University units to ensure that departmental network needs are met. In addition to network equipment installations, this group maintains current network configurations to allow accessibility on a 24-hour, 7-day-a-week basis.

4.0 CIRT ACHIEVEMENTS

4.1 Administrative Applications Projects (AIS)

Project LINK

LINK implementation of Banner finance system

Worked on the implementation of Banner Finance as well as interface systems such as Xtender, Evisions, I-way, Appworx, ePrint, ODS, Hyperion and the Direct Pay Request (DRP) Application. Co-developed with SCT and Higher Markets a new e-procurement system that interfaces to Banner.

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Coordinated functional trainings for all departmental Finance users with technical support staff, in preparation for July 1st go-live date.

Successfully helped Purchasing go live June 1 on Banner Finance, e-procument, Xtender and Evisions.

General Person Area: Did analysis, testing, and conversion for ongoing updates of demographic data of employees in Banner. Provided technical support for the General Person team.

Security/System Access: Did analysis, testing, and created Web applications for the initial and continued management of 2400 people's access to Banner. Provided technical support for Finance Systems Management.

Financial Approvals: Did analysis, testing, and created Web application to collect data from departments for initial setup of queues. Provided technical support for temporary team lead, Carol Stephens.

Implemented ePrint, a Web-based report distribution system initially being used by Banner Finance. ePrint uses an internet browser to quickly and easily retrieve and print reports.

Implemented AppWorx, a distributed batch scheduling system, for the Banner Finance Module. The production schedule, "The Night Train," runs nightly and includes Oracle Banner database backups and Finance batch processes.

LINK Implementation of Banner Reporting Environment

Eliminated risk of departmental charge back by re-negotiating Hyperion per-seat licenses for site licensing. We now have unlimited licenses for as many users as our current configuration will support. When the configuration grows, we must purchase new licenses at the server level.

Completed major upgrade from SCT's Data Marts to SCT's Operational Data Store (ODS) in February, during Finance implementation. SCT is phasing out support for the Data Marts

Implemented SCT's Banner Finance ODS, one of the first schools to do so.

Worked with Continuing Ed to offer complete Hyperion Training for Developers. Presently limited to LINK implementation Teams and Legacy Data Warehouse (DWH) report developers

LINK implementation of Banner Student/Academic and Financial Aid sysems

Completed several data cleansing and purging projects of legacy student data in preparation for conversion to the Banner system. Data cleansing and purging projects are expected to escalate as the LINK-STAC and Financial Aid projects get closer to their respective go-live dates.

Worked with the LINK-STAC and Financial Aid projects to provide information on mapping legacy data to the Banner system and identify interfaces needed.

Selected collaborations with our customers

Registrar

Completed implementation of the DARsWeb technical environment making it possible to render degree audits for students and advisors directly over the web. Continued working with the Provost Office Project Group (ESP) to roll-out DARsWeb to the campus community.

Recruitment

Worked with the Recruitment Office on several special Presidential Initiative Scholarship mailings identifying students who excel academically around New Mexico.

Bursur

Started working with the Bursar's Office to identify payment gateway solutions that would provide a single solution for the campus on credit card payments, check-direct debit payments and refunding of credits via Automated Clearing House.

Financial Aid

Continued to meet student needs by implementing federally mandated changes to the financial aid award system. For the third year in a row, met Financial Aid Office target dates for award letters.

Benefits

Developed a Web-deployed, self-service application for employees to enroll for medical, dental, and vision insurances during the open enrollment period.

Made substantial modifications to HRS to implement a newly designed Catastrophic Leave benefit. Employee leave contributions and leave accruals are automated.

Payroll

Made all necessary modifications to the HRS system to accommodate the new organization codes and account indices required for the Banner Finance system.

Human resources

Modified Employment Tracking System and eHire to accommodate Career Advancement postings that are limited only to existing UNM employees.

Upgraded eJobs and eHire to Cold Fusion MX.

4.2 Client Support and Infrastructure Software Projects (IRC)

New and ongoing projects

Pods/Classrooms Upgrades:

Once again, the SUB-LoboLab has proven to be the computer pod of choice for UNM students, faculty and staff. With its new training center now open, many one-time training sessions have been scheduled. LINK Project trainers have taken full advantage of the availability of this new training resource.

CIRT's installation of eight e-mail/Internet workstations just outside the LoboLab pod for walk-up customer access has been such a success that eight to twelve similar workstations will be implemented just outside the Dane Smith Hall pod.

CIRT continues to upgrade hardware and software in its computing facilities to provide quality customer service. This past fiscal year, CIRT upgraded 88 computers and five projectors at Dane Smith Hall. In addition to the computer and projector upgrades, several printers, scanners, and file servers were replaced on the Windows and Macintosh platforms that support the pods and computer classrooms.

The majority of the replaced hardware went into CIRT's recycling program to benefit those campus departments whose computers were sub-standard or unable to run the Banner Program due to insufficient memory or low megahertz processing power. CIRT upgraded the memory on all of its pod recycling computers to meet Banner software functionality requirements.

Recipients included English, Mechanical Engineering, Art Museum/Jonson Gallery, Lodestar Astronomy Center, Communication & Journalism, African American Student Services, UNM Recreational Services, College Enrichment Program, Linguistics, Religious Studies, International Programs, Museum of Biology, Physical Plant, Biology, Student Health Center, Chemical and Nuclear Engineering, Agora Crisis Center, Physics and Astronomy and Physics Graduate Student Association.

The success of CIRT's hardware recycling program enables UNM Departments to upgrade their existing hardware as close to the current technological state as the program can provide.

Again with the assistance of CIRT, the Communication & Journalism Department continues to acquire new audio/visual equipment and software to support video editing and digital media for their students at the Johnson Center and Dane Smith Hall computing classrooms.

Major pod software upgrades include Mac OS X Panther (v10.3) for all Macintoshes, Intel LANDesk Management Suite v.8.0 for remote hardware/software management and Driveshield State Technology for all pod Windows computers.

CIRT's pods and computer classrooms also received enhancements, including new art, new chairs, new carpet and new paint.

This past fiscal year, as previously, the CIRT pods and computer classrooms supported UNM departmentaffiliated seminars and conferences including: CAPS New System Training, UNM Testing, PubMed, ZEMAXX Software Training, Department of Civil Engineering, Math EduSpace, CEP Orientation, UNM Budget Office Web Database Training, BRIO Training, Nursing 429-Utilizing Resources to Build Nursing Knowledge and Project LINK.

LDAP

Improvements to the centralized directory, LDAP, continued. CIRT collaborated with the Health Sciences Center to ensure that directory information for Health Sciences Center employees (including those in University Hospital) was updated daily in LDAP. Further collaboration resulted in HSC employees being automatically provisioned with UNM NetIDs and passwords similar or identical to their HSC NetIDs. Additional work included synchronizing NetIDs with Oracle IDs, to facilitate Banner users authenication process.

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CIRT support of UNM IT committees

CUC: CIRT continued its role in working with the Faculty Senate Computer Use Committee in various ways, including providing staff assistance in their survey of faculty IT usage. CIRT continues to use the CUC as a forum for improving communication with faculty regarding IT issues.

UCU/IT-UNM: The UCU, Umbrelia Computer Use committee, has undergone a few changes, this fiscal year. First, Dale Hendrickson, manager for University Libraries IT (GLIT), assumed the co-chair in the spring of 2004. And, with Hendrickson's help, came a name change. The UCU was renamed IT-UNM to distinguish it more clearly from the CUC (Computer Use Committee) and to be more representative of the group of attendees that work in information technology on campus. The IT-UNM meetings have been a lively and productive forum for cross-campus issues and a great conduit for dispensing CIRT information and developments. The group provides excellent review and feedback.

Sharing Service Center with departments

During FY 03-04, Peregrine Service Center, CIRT's Problem Management tool, was configured so other departments on campus could use it to track their own problems. Two sections of the Service Center database, one for General Library IT (GLIT), and one for LINK, were created so they would be separate from CIRT operators. That way, CIRT operators would not see LINK or GLIT problems unless they were given access to do so, and vice versa.

For GLIT, fifteen operators were created and one of their staff was trained to do some administrative and configuration tasks on the system. Though their initial use was light, towards the end of the FY, they were ready to overhaul their configuration of Assignment Groups and begin focusing on Service Center use more thoroughly.

There are 58 LINK operators, many of whom are functional representatives in Financial offices rather than technical support personnel. Much of the problem categorization and configuration of the product for LINK was put into place during FY 03-04, to prepare for the implementation of SCT-Banner beginning July 1, 2004.

Knowledge Management

To scale the support organization for both LINK and the CIRT Support Center, CIRT identified the need for a self-service knowledge management system. Using information from the Gartner research organization, and other universities and sources, CIRT evaluated the leading products in this industry against the product offered by CIRT's, current Problem Management solution (Peregrine) supplier. We determined the most scalable and cost effective solution was the e-Service system from RightNow Technologies. We purchased the product in May, and implemented it as the Fast Info site (*http://fastinfo.unm.edu*).

Whiteboard

The Whiteboard project was started in January 2004 to replace the Support Center physical whiteboard with a virtual (online) system. The Whiteboard initially included CIRT private information concerning support issues, and a Campus Status (public) page. Subsequently, with agreement from CIRT management, CIRT extended the feature set to include a public network whiteboard page to reflect the status of network issues on campus. The network whiteboard is linked to the Port Security system to provide end-users with up to date information about the status of blocked ports on campus. The whiteboard is available at *http://cirtalerts.unm.edu*

Tracking system

A former CIRT student employee developed a tracking system for the network group to record network disconnects/reconnects (blocked ports). After a system crash, much of the data was lost, and because the student had left, the code could not be maintained. IRC agreed to re-write the code and port the system to PHP and MySQL, running on a secure server. This work was completed in May 2004. The new version includes a more extensive database structure, and a redesigned look and feel. It provides for the storage of additional data fields for disconnects. The system is integrated with CAS to provide better security management. A new public interface was added to allow people to check their own systems for blocks. This user interface is accessed through the network status whiteboard.

uPortal Upgrade and changes

CIRT upgraded the uPortal from version 2.0.2 to 2.1.4. This included table structure changes; user preferences and data such as briefcase and bookmark entries were retained.

Survey and Elections channel was purchased and implemented for the uPortal. Assisted University Secretaries office in use of the channel for the UNM Deans evaluation that was distributed to all voting faculty. Also assisted GPSA in use of the channel for officer elections that was distributed to all graduate students. uPortal was modified to provide a longer login session (9 hours) in addition to the one-hour default. The user interface to change the session timeout was written in ColdFusion and published to the uPortal CIRT Tools channel. CIRT created an RSS channel for single point of entry for Banner Finance users. The channel provides links to Banner applications and information. Since Banner Finance went live in July 2004, the average number of monthly unique logins to the uPortal have increased from 2000 to 5500.

CAS

CAS is a Centralized Authentication Service designed to provide a secure means for authenticating Web applications. The service allows many web applications to redirect users to a centralized server to login. CAS allows departments to create password-protected Web site without having to handle or maintain user logins/information. The service provides a single sign-on environment. When logged in to CAS, a person is authenticated to other applications that also use CAS for authentication. CAS was been implemented into widely used online tools such as The UNM Portal, CIRTTOOLS, DSS, as well as various other departmental sites such as Midas.

CIRTTOOLS

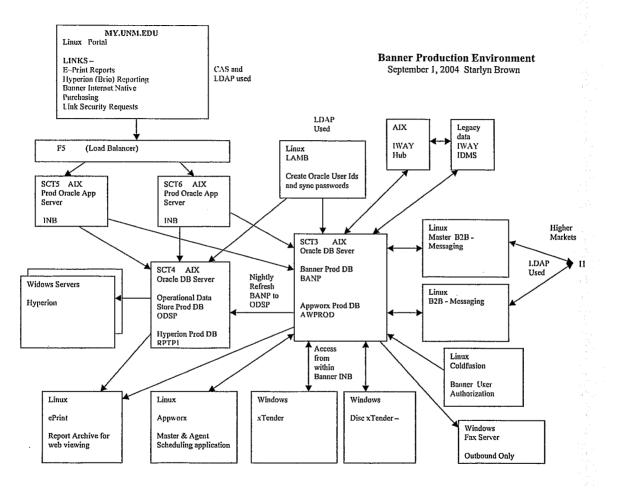
CIRTTOOLs. Web interface to common CIRT account features was created to provide online access for the University community. The CIRTTOOLS provides features that allow people to forward their e-mail to another address, setup a vacation message, reset their Mulberry preferences, change their uPortal timeout, check their disk quota, and use a Web based SSH connection.

Netreg

In the fall of 2003, CIRT implemented a service called Netreg in the Student Resident Center to help battle the MSBlaster virus and other network-based viruses that were plaguing the UNM network at the beginning of the semester. This service required that student bringing computers into the dorms register the computer and pass a basic security scan before being allowed on the network. The service greatly reduced the amount of virus traffic impacting the UNM network.

Publications

The Publications group revised the publication date for Login:_, CIRT's guide to CIRT computing at UNM, to Spring to better serve new students and the Lobo Freshman Orientation (held during the summer). The date change will enable new students to have current information about CIRT's computing services as they plan their college careers. The Publications group also created a new guide, *Security: Ten Best Practices*, for general distsribution and for at security workshops.



4.3 Hardware and Infrastructure Projects (DSYS)

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4.4 UNM Network Projects (CSOS)

2003-2004 Year Accomplishments

Xtender Application Servers

Legato's Xtender solutions were implemented on three Windows servers, for development, integration testing, and production. In addition we implemented Disk Xtender which gives UNM the capability of storing all scan documents from Xtender application servers on the SAN storage device. Xtender allows departments the capability of storing all documentation pertaining to a purchase or student information in a document imaging system. Three high-speed scanning stations were installed in different finance departments of the University to provide high speed scanning of hard copy records into Xtender application.

Active Directory Root Domain

A root Active Directory infrastructure was implemented to support colleges and departments that need to install Active Directory for application support. Active Directory (AD) is a Lightweight Directory Application Service (LDAS) that integrates closely with many Windows applications. It provides authorization and authentication servers for those closely integrated applications. AD also allows the central control of servers and client workstation trough administrative templates. Active directory domains were created for CIRT, Fine Arts, and the Institute of Public Law. This is the second domain outside the CIRT domains to exist in the AD forest. We have also implemented a test environment for Active Directory by installing Virtual PC on a Windows 2003 server and creating Virtual servers for all of UNM's Active Directory domains.

Hyperion Implementation

A migration from UNIX BRIO version 6 to Hyperion version 8 on Windows Server technology was performed this fiscal year. Hyperion Performance Suite stores, protects and delivers information for UNM Banner data. It enables users to analyze, transform, and report data; share, search for, retrieve and use documents; run queries, execute and schedule jobs and distribute job output.

This functionality can be accessed from the application programs or from a web browser. Currently the information being retrieved is mainly from the finance Oracle databases, but in the near future it will also retrieve information from the student Oracle databases. Hyperion was installed and configured to support both a test/development and production environment. The test environment consists of a single server and the production environment is configured with three servers. The three production servers are configured with different Hyperion services in order to better load balance the processes. These servers utilize LDAP and Stunnel to securely authenticate all users.

Concord Monitoring Severs

A Concord server was implemented to support the EOC as an application server for monitoring Network and Computer Devices. The Windows Server Group install the systems, assist in the setup of the application, and maintains the health of the server.

SUS Windows Update Server

The WSG implemented Software Update Servers (SUS) to allow UNM departments to be able to get to required critical Windows updates from within the campus network. The server will help reduce the amount of Internet bandwidth used to download required Windows systems updates.

Networking Accomplishments for 2003-2004

Upgrade Project Phase 2

Completed 30 building upgrades from 10/100Mbps environment to a gigabit, as per SCTBanner recommendations.

Disconnected FDDI backbone and connected all Zone Hubs using gigabit technology.

Separated cashiering into its own subnet for higher performance. Added buildings like AROTC and CARS to the UNM fiber backbone and networked them into the UNM Gigabit backbone.

Subnet Project

Completed an aggressive schedule to re-subnet buildings into smaller broadcast domains. This affected approximately 50 buildings and required coordination and cooperation from most UNM departments.

Wireless Implementation Project

Installed Wireless Access Points across campus. Completed 50 in 8 different buildings. Working on Wireless Security plan to include authentication and usage by faculty, staff, student and visitors.

EMS Project

Began working and scheduling with PPD and Ford Utility to implement Energy Management System on the UNM Network. Completed 19 buildings out of 90 buildings in FY 2003-2004.

Firewalls

Wrote SLA's for firewalls after meeting with many UNM departments. Deployed firewalls for Central Services Environment and many departments.

Intrusion Protection

Implemented Intrusion Protection System to protect Internet Connectivity, Student Residence Center, Branch Campuses and WANs, and South Campus networks. This system allows enhanced and prompt detection and prevention of numerous security vulnerabilities.

Hosted Internet2 Days

Prepared network for I2 Days conference complete with Content Distribution and Qos services.

5.0 New Staff and Separations

New hires and Separations - July 1, 2003 to June 30, 2004

New Employees

Cameron Byrne Candice Lai Danny Lee Scott McMillan Richard Rutledge Linda Lysaght Linda Herbster Terry Othick Casey Hengen William Halverson Jerry Gonzales Sara Alirez Diana Crespin Kelly Lesher Parveen Nagji Angela Hostak Janice Sonetz Lynda Mullen	Network Analyst Mgr., Appl. Prog. Tech Support Analyst 2 August AP3 AP2 AP2 Mgr., Appl Prog. SA3 Systems Specialist SA3 AP2 Courier SA3 AP2 AP2 AP2 AP2	August 25, 2003 September 2, 2003 September 2, 2003 September 2, 2003 October 27, 2003 October 27, 2003 November 17, 2003 November 17, 2003 November 18, 2003 November 18, 2003 December 22, 2003 February 2, 2004 February 2, 2004 March 22, 2004 April 5, 2004
Angela Hostak	AP2	February 2, 2004
David Fitzgerald	AP3	April 20, 2004
Rick Valles	SA1	March 29, 2004
Chris Rogers	SA3	June 14, 2004
Peggy Jenkins	SA3 SA3	June 14, 2004
Dale MacAlister Michael Gruen	SAS SA3	May 11, 2004 May 18, 2004
Lia Ross	AP3	June 1, 2004

Project Link/ACS (New)

Nirmala Polisetty	AP3	May 10, 2004
Linda Johansen	Appl. Support Spec.	May 17, 2004
Lisa Newell	Appl. Support Spec.	May 17, 2004
Deborah Schaefer	AP2	May 24, 2004

Separations

Bob Goodwin	Courier	August 8, 2003
Randy Whelan	Mgr., Appl. Prog.	July 31, 2003
Ray Baca	AP3	October 31, 2003
Evelyn Archunde	Personnel Coord.	January 30, 2004
Janelle Edmister	Network Engr.	February 6. 2004
Sara Alirez	AP2	February 27, 2004
Rebecca Harris	AP1	May 15, 2004
Cameron Byrne	Network Engr.	June 25, 2004

6.0 CIRT Staff Professional Development

Conferences

AfcomData Center World, Las Vegas, NV Joe Montoya, Gregory Brown

Broadband Wireless, San Diego, CA Art St. George

CA World 2000 Conference, Las Vegas, NV Yvette Fournier

CUMEC 2004 Conference, Austin, TX Andy Gutierrez

FSA EAC 2004 Spring Conf, New York, NY Barbara Nolan, Daniel Trujillo

Linux World 2004 Conference Jamin Rague, Chuck Phillips

Networld & Interop 2004, Las Vegas, NV Charles McQuade, Kelly Lesher, Louella Phillips, Drexel Atkinson RSA Security Conference, San Francisco, CA Cameron Byrne

Oracle ODTUG 2004 Conference, Phoenix, AZ Cathy Hillygus, Theresa Sanzone, Michael Robertson

SCT Spring 2004 Summit Yvette Fournier

SHARE Conference, Los Angeles, CA Louis Sullo

Sansfire 2004 Conference Jeff Gassaway

SCT Summit Spring, Philadelphia, PA Barbara Pfaff, Yvette Fournier, William Adkins

Windows Connection 2004, Las Vegas, NV William Halverson, Mary Hanson

Meetings

CHECS Directors Meeting, Las Cruces, NM Louis Sullo

Lambda Rail, Tucson, AZ William Adkins

State of New Mexico, Purchasing Office, Santa Fe, NM

Martha Talbott

Research visits

Dell EOC Site Visit, Kelly Lesher, Martha Talbott, Louis Sullo

Classes/Workshops/Seminars

AMA Critical Thinking Seminar, Chicago, IL Mark Harty

ACUTA Wintel Seminar, New Orleans, LA Gary Bauerschmidt

Intense School Windows Workshop, Las Vegas NV Jerry Gonzales

Database Training, Orlando, FL Paul Perea

Negotiation Seminar, Chicago, IL Martha Talbott

Planet Storage 2004, Las Vegas, NV Louis Sullo Oracle 9i Warehouse Builders: Implementation Workshop, Atlanta, GA John Lopez, Bechir GhedhouiOracle

Oracle 9i Warehouse Builders, Orlando, FL David Fitzgerald, Richard Campbell

SETA West 2003 Conference, Dolores Kirion

Secure Architecture Bootcamp Bill Halverson

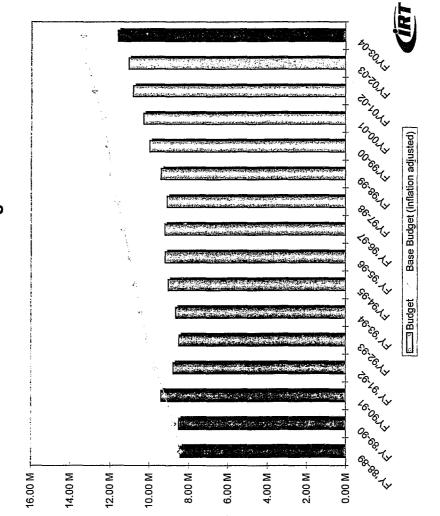
Secure Architecture for Network & Data Infastructure Denver, CO Bill Halverson

Sisco Works 2000, Irvine, CA Pamela Mirabal

7.0 Statistical Review of CIRT-provided Services

1988-1989 to 2003-2004 Fiscal Year Change

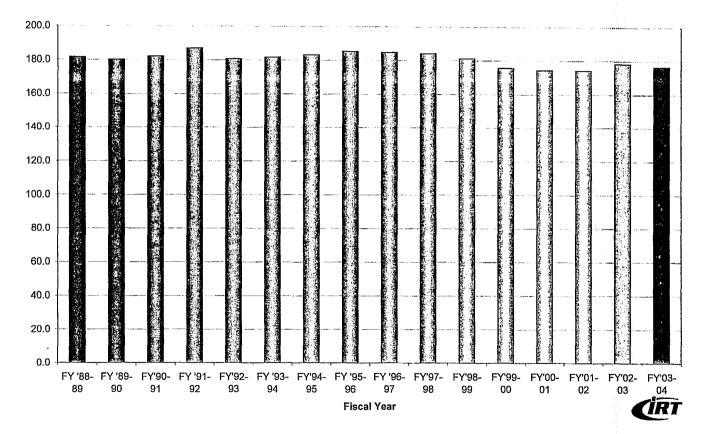
								Disk			Networ	Spam
						Connect		Spac	Maii		k	Messages
		Full-time		#		Time in	Normalized	e	Message/	www	Connec	Blocked/D
	Budget	FTE's	FTE's	Accounts	# Sessions	Hours	CPU Hours	(GB/D	Day	Hits/Day	tions	ay
FY '88-89	8.43 M	162.0	181.4	3,933	567,754	335,924	113,824	48	300	0	700	
FY '89-90	8.50 M	161.0	180.0	6,625	1,068,697	727,740	194,928	46	405	0	1,274	
FY'90-91	9.41 M	163.0	182.0	10,072	1,644,448	1,170,498	289,677	48	2,500	0	1,975	
FY '91-92	8.79 M	154.2	187.0	13,120	1,900,647	1,173,567	459,702	58	7,000	0	2,578	
FY'92-93	8.50 M	154.2	180.6	17,425	1,800,123	1,779,979	1,109,968	72	11,000	0	3,403	
FY '93-94	8.66 M	154.2	181.6	32,955	2,201,300	2,610,629	1,606,830	80	23,500	150	6,526	
FY'94-95	9.05 M	154.2	183.2	40,326	3,013,235	2,610,629	6,380,037	118	32,000	2,300	8,065	
FY '95-96	9.20 M	155.7	185.3	58,509	4,818,319	2,290,415	7,191,537	212	48,500	39,700	11,808	
FY '96-97	9.22 M	155.7	184.8	58,201	4,978,951	3,190,297	7,116,482	350	70,000	70,000	12,700	
FY'97-98	9.10 M	155.4	184.1	67,544	5,650,893	3,831,168	8,461,929	456	140,000	82,000	15,000	
FY'98-99	9.41 M	151.5	181.2	71,907	6,934,902	4,701,695	16,808,605	645	160,000	122,000	17,213	
FY'99-00	9.98 M	146.9	175.7	73,322	8,456,901	5,923,112	21,997,234	879	160,000	138,400	19,246	
FY'00-01	10.30 M	145.2	174.4	73,078	7,998,577	6,130,950	22,054,147	1520	165,000	147,375	20,428	
FY'01-02	10.82 M	145.2	174.3	66,366	8,603,532	7,068,258	26,088,092	1713	165,000	162,286	19,050	
FY'02-03	11.05 M	149.2	178.3	55,364	8,248,896	7,026,355	28,977,196	1963	220,000	616,000	20,000	100,000
FY'03-04	11.62 M	147.4	176.4	58,260	8,739,917	7,453,599	30,118,612	2079	259,000	756,000	22,320	138,000



CIRT Budget

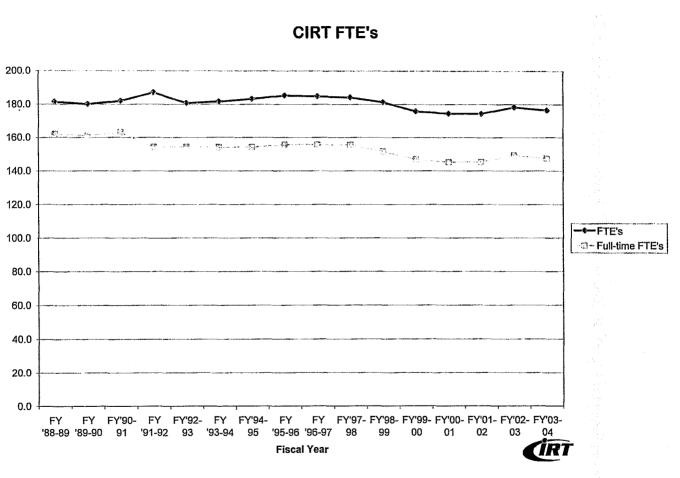
Budget

Page 2

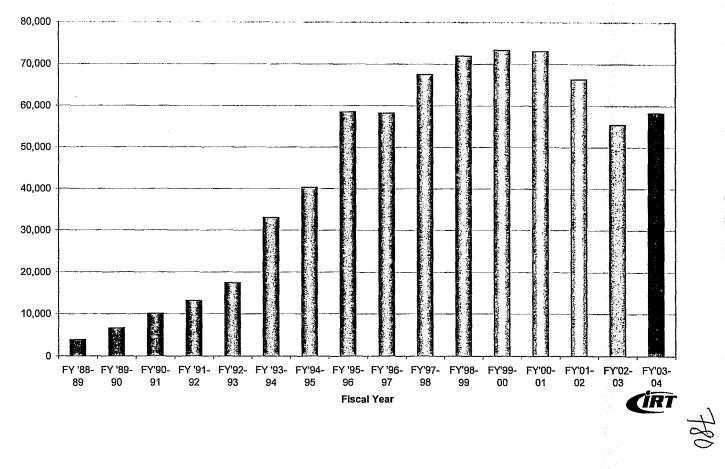


CIRT FTE's

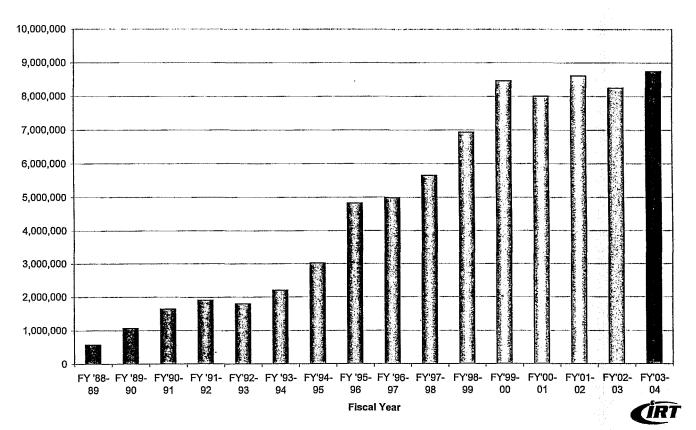
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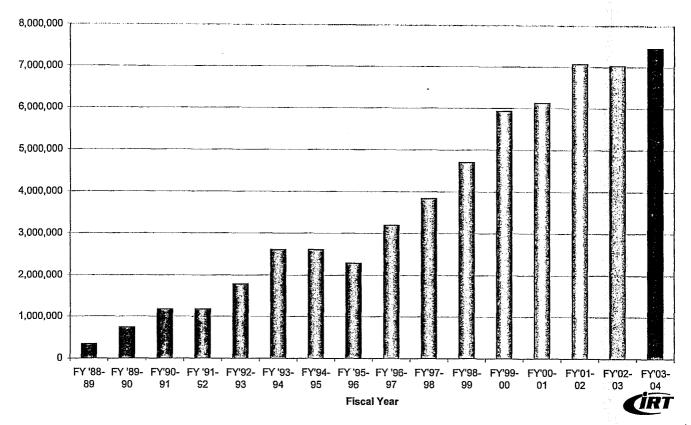


Accounts



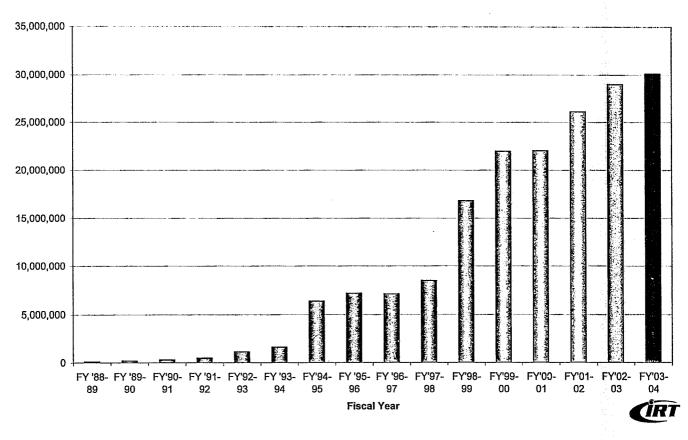
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Sessions



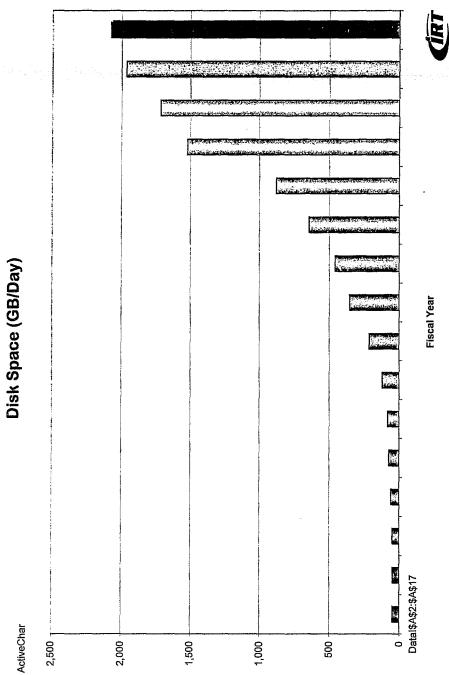
Connect Time in Hours

787



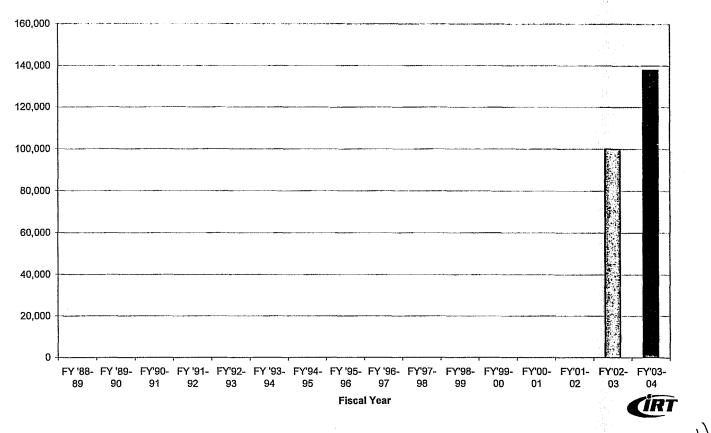
Normalized CPU Hours

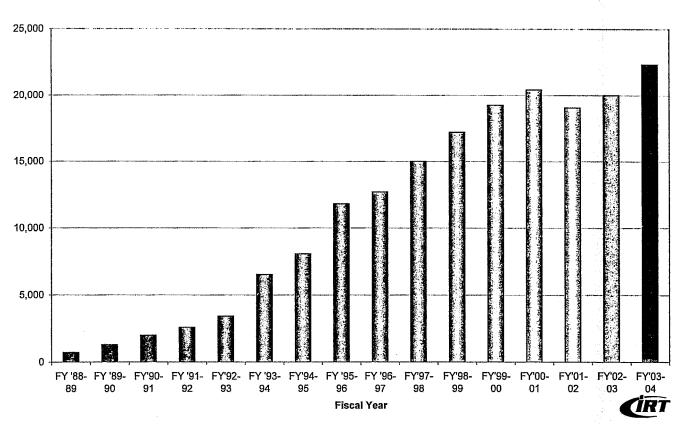
EBE





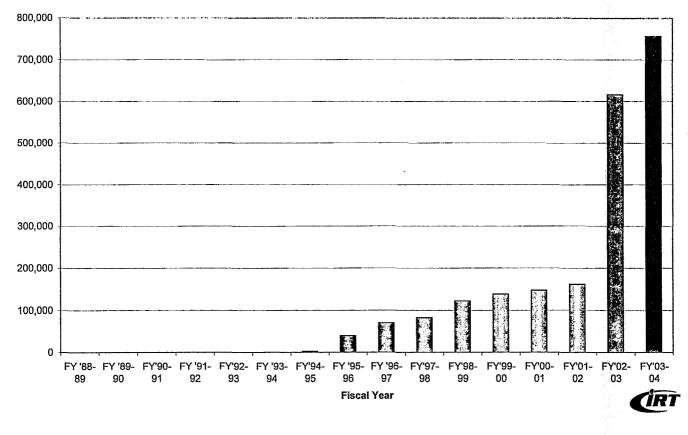
Spam Message Deleted/Day





Network Connections

WWW Hits/Day



28 E

8.0 CIRT's role in the LINK Project/Banner at UNM

UNM network hardware and software have been upgraded, homogenized and enhanced for infrastructure needs by Project LINK and the Banner implementation. A new UNIX development and production environment was implemented for LINK. Here's how the pieces fit together

The Banner application in a UNIX environment

The Banner applications for Finance, Financial Aid, and Human resources Payroll perform many business tasks in the higher education environment. The Finance implementation included six modules (e.g., Purchasing, Accounts Payable) and more may follow, such as the Budget module. The LINK Student project has more than 30 modules.

The goal is to not change the purchased application code in order to more easily maintain the system; this is sometimes referred to as a "vanilla implementation." Preferably, interventions and remediation are done by specifying "user options," not by rewriting the application code. Part of the reason is that all the Banner applications must work together.

Servers

The UNIX/Oracle training development, test, integration and production environments are new for Banner, and the dozen large Linux servers that support Banner are robust and fast enough to accommodate this very large system. More Windows servers support functions such as fax and reporting. (See illustration on page 12, Banner Production Environment)

The Network

University Business Magazine reports the network is no longer simply a wire-based delivery system for various passive computer applications; it has evolved into an active, often proactive, campus-wide information and communication system that touches and interacts with almost everybody on campus and elsewhere. Three important upgrades and changes, among several, were integral to Banner's implementation:

- Upgrades were made so campus buildings and offices using Banner are more secure, the network easier to troubleshoot, have more bandwidth, and process work faster. Buildings were converted from 10 megabits per second (Mbs) "shared" to 100 Mbs "switched" and re-sub-netted. There is no degradation of service with multiple users when the bandwidth is dedicated to a switched environment. Outside those buildings, zone hubs were connected at gigabit (Gb) speed for 1,000 times faster throughput. (Figure 2)
- 2. The concept of the Gigapop is to have a central location, 505 Marquette, in downtown Albuquerque, where large circuits can connect and be dispersed throughout New Mexico. This project was negotiated over the last eight months and continues to be implemented. It represents a collaborative effort between public entities and lays the groundwork for Lambda Rail and network transmissions where UNM is not the hub or bottleneck, but another stream of traffic. As such, it is the foundation of the research network in the state by facilitating the distribution of huge data sets such as those used in Distance Medicine and Distance Education. This upgrades the "commodity" Internet, which is used by Banner and the rest of us, from 45Mbs to 200 Mbs. The Gigapop takes CIRT and UNM out of a "bottleneck" position for much of the data on the Internet around the state, including branch campuses.

 Branch campuses are being upgraded from T1 or Frame Relay, eventually to T3 fiber. The upgrades will double or triple branch campus speed and bandwidth. Upgrades included replacing equipment at the branches and the CIRT routers to 10Gb. Branch traffic will soon also go through the Gigapop as well.

Databases/Storage

Data integrity is key to the success of every application. The Oracle database instances are used for different purposes in the application life cycle. Including training, development, test, integration, and production.

The database is growing at a rate of 1.5 terabytes every six months for Finance (a terabyte is equal to 1,048,576 megabytes of information). Data storage, itself, may be cheap, but providing vast amounts of storage is expensive. Attachments to already large transactions consume a lot of storage, and recovering data and business continuity in a complex environment is key to system integrity and reliability. Data is streamed to a simultaneous backup that allows recovery from any point of loss.

Reporting strategy

UNM committed to Brio for reporting Oracle data several years ago. Brio (like SCT), has been acquired by another company since UNM's purchase, and is now known as Hyperion. Hyperion required a conversion to run on Windows servers, as it was more efficient than when installed on the Linux system. Sungard/SCT changed the "data mart" to an Operational Data Store product. Pricing, support and some functionality was revised in the process. (Figure 3)

UNM worked closely with SCT and Hyperion to optimize benefits to the University. CIRT acquired a site-license for Hyperion 8, so there is no cost to departments to use it or to access data (this is not to be confused with the one percent PPSC monthly surcharge added to some accounts for Banner use). Fixed Asset reporting data are now included in the baseline product. Macintosh computers require the Virtual PC application to use Hyperion and UNM continues to pressure Hyperion to improve service for the Macintosh platform.

Reporting strategy will include the following:

- There will be fixed reports out of the ODS developed, using Hyperion for core offices and departments. Core offices and departments will also be able to develop custom reports and any ad-hoc reports they will need.
- Continuing Education is now offering training on Hyperion. The maturity and quantity of data available, and training, are supporting factors to this strategy.
- Departmental canned reports that came with Finance are not generally used because of the way UNM chose to implement Finance. Fifteen high priority reports have been developed for departments, including Payroll information; three additional reports are used only by core accounting offices.
- More reports are being developed.
- The strategy for developing reports for LINK Student/Academic and Financial Aid is being crafted now.

Application Add-ons

Application add-ons such as Xtender and Business-to-Business (B2B) make the application more powerful. B2B uses new architecture in the Banner application to interface with a third-party electronic purchasing catalog. This was a new function for SCT as well as UNM, and lots of "debugging" has been required to deliver the desired service with the desired quality. UNM is the first University, large or small, to adopt this functionality.

The Xtender environment on Windows servers interfaces with UNIX to scan attachments to Purchase Requisitions, for example, so that attachments can be stored with data transactions.

System Tuning

System tuning is done by end-to-end system monitoring of the environment. This is like having monitors to perform routine checkups and make recommendations for corrective action.

Concord uses "robots" to monitor the network, applications, servers, and user environment. These robots are software that automatically query the network, servers, applications, and even desktop computers, at specified intervals to measure performance. The robots can be set up to run whenever a portion of the environment is being tuned or run routinely for monitoring.

LINK Service Center

The LINK Service Center (LSC) at UNM implements industry "best practices" to connect the business side with the supporting infrastructure. What has been established for LINK is becoming the model for Enterprise Support Centers.

The support model is to have one service center staffed with business and technical expertise from the Controller, HSC Controller, CIRT and Project LINK, to monitor and track calls, and build a database of information to respond quickly to questions via assisted (phone and online chat sessions) and unassisted (FastInfo) support channels. Everyone is learning together! As people at UNM become more adept using Banner, the questions have become increasingly complicated.

Security

Security occurs at every level with the basic premise that you can't slow down the system and there can't be "holes" or "cracks" in the system so as to keep performance healthy. Banner and LINK security practices include:

- Firewalls on the network.
- Encryption of passwords and data.
- Log in and password for systems access.
- Profiles for authorization for functions within the application.
- Desktop security for users to reduce proliferation of viruses and worms.
- · Recovery from compromise or any hardware or software breakdown.

In summary, the LINK project/Banner implementation is the result of approximately 70 technical staff working for 18 months. Changes that were being made during implementation were frozen before testing started in April 2004. Courses and network maintenance and upgrades are ongoing, and additional storage will be added as needed. Purchasing began using Banner June 1, 2004 and the rest of the campus on July 1, 2004.

Some components are first-releases, and have needed attention to get up and running (e.g., B2B, Hyperion, XTender), and were perhaps not quite ready when delivered, not just in Beta-test, but Alpha-test mode. CIRT is meeting the huge challenge to keep Finance functioning.

All software vendors continually enhance their products via patches and upgrades, not only to the application (i.e., Banner) but also components, such as B2B, Linux, the Oracle database, and the network. UNM must stay current with these upgrades, which means that the system and anyone who uses it will see regular changes. CIRT is involving all stakeholders in the upgrade implementation process to ensure that changes are fully tested, and that everyone is aware of and trained on these new functions.

At the same time, improvements are also being implemented. Additional reports are continually being developed. Phase II, or post-implementation, tasks are also being implemented. The promises of Banner will gradually be fulfilled at UNM.

What's next?

- The University's first year has been a huge growth process. The business side and University
 management need to work together to appropriately support and grow the new systems and
 processes. The learning curve at UNM will be shorter than many universities that have two
 curves of implementation and then conversion.
- New functions (e.g., fax capabilities), modules (e.g., workflow, budget, self-service) and
 processes (e.g., calendar year end) will be implemented and experienced, some in this first year.
- As subsequent implementations (for example, the Student and HR/Payroll projects) come online, the integration of financial functions will move the Finance system through its own education process (student accounting, payroll, W-2s); the environment will continue to evolve for financial applications.
- As SCT continues to develop and make available new functions and services, UNM will consider all and implement some. FRS will eventually be removed from production and the IDMS OS/390 environment will eventually end.

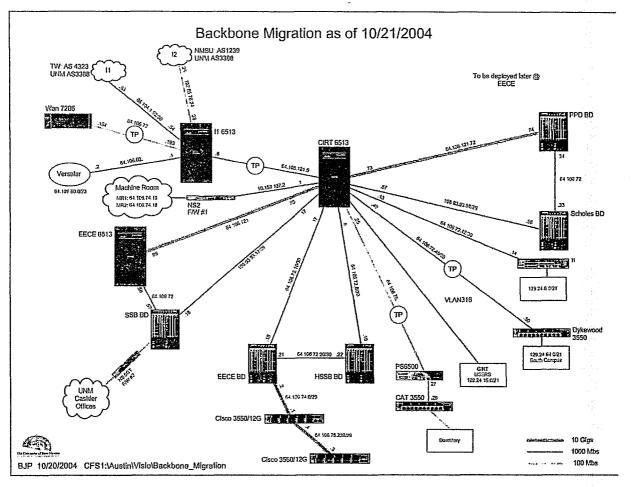
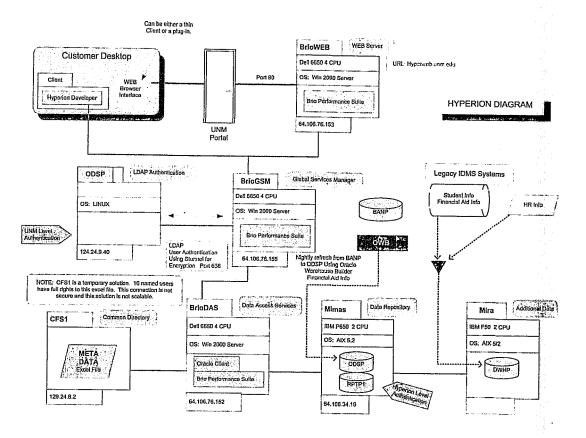


Figure 2: Network



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9.0 Organization & Management Development Project

Overview

The purpose of this project is to change CIRT's management and organization structure and work processes from an information technology (IT) services organization to an IT corporate partner working with UNM departments and State of New Mexico, consistent with the vision and mission of the University. This project will effectively change the way CIRT plans, executes, and manages IT operations and projects at UNM. From its inception in January, 2004, the thrust of the project has been to create an organization and management team that is customer-focused, quality-driven, and collaborative, resulting in improved services to the university.

More specifically, the project has been designed to address two critical needs of the organization:

First, develop CIRT's management team leadership skills and strengthen their working relationships to improve collaboration and cooperation among the work units of the organization; and

Second, redesign CIRT's management and organization structure and work processes and therefore improve their ability to effectively work with both UNM departments and NM State government on projects of joint interest.

Approach

Since the project's inception in January, 2004, CIRT's management team has worked with an external consultant to plan and execute this change process. The approach to planned change at CIRT has been based on three strategies:

First, collect data on the current status of CIRT operations and working relationships with the UNM campus, and feedback data to the management team for action. Data was collected through focused individual and group interviews with a cross section of the UNM campus from Jan-May, 2004, and included CIRT senior managers and staff; UNM administrators and IT program directors; HSC IT administrators; and UNMH IT administrators;

Second, work with the management team to plan and execute recommendations from the data analysis and feedback, to include improving the operation and structure of the management team itself. The management team participated in a retreat on May 22, 2004 to review survey data and recommendations, and develop an action plan for addressing problems and concerns. Subsequent team meetings have been held several times a month to work through these issues.

Third, work with CIRT managers and staff to develop a strategic plan for the organization to clarify its direction for the future. It is planned that this discussion will include representatives from UNM departments across the campus prior to final agreement on strategic direction. Although short-term structural changes have been made to accommodate immediate organizational and management needs, it is anticipated that strategic planning will continue into the next fiscal Year.

Survey Findings & Results

The survey findings and results of the project to date are reported below. The project results are based on qualitative data and self reporting from managers and staff on changes initiated during the last eleven months. It is planned that more rigorous and objective data will be collected in 2005 through surveys and work process evaluation. The following survey findings and results can be reported:

	Survey Findings	Summary Results
	The management team lacks organization and structure and formal rules and procedures for operations.	The management team developed and approved a Team Charter that sets out clear expectations and operational rules.
	The members of the management team do not collaborate effectively, resulting in operational problems, communication breakdowns and 'silo' organizations.	Management team members bring CIRT-wide and critical UNM IT issues and problems to team meetings for dissemination, discussion and decision making.
CIRT IT projects are not well planned, executed, and terminated, resulting in low s morale, staff confusion, and inefficient use resources.		CIRT managers and staff are developing a practical and user-friendly process to identify, plan, and execute projects that support the mission of the University.
	CIRT departments are not always responsive to customer needs and concerns, although selected UNM departments reported excellent responsiveness by CIRT (dependent on successful personal relationships between the parties).	Campus support for CIRT has improved as managers spend more time on the campus with administrators and their customers, although problems with Banner implementation have impacted CIRT's credibility.

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The Division of Continuing Education and Community Services Annual Report for FY 2003-04

Submitted by Rita Martinez-Purson, Ed.D. Dean of Continuing Education

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Report Overview

Fiscal year 2003-04 was a major year of transition and planned organizational development for the UNM Continuing Education Division. Because Extended University and the Vice Provost for Extended University transitioned out of the Continuing Education Division on July 1, 2003, the new Dean, Rita Martinez-Purson arrived on July 8, 2003 with a challenge to reshape the division. She immediately began collecting information through individual interviews of employees, and launched an all-hands strategic planning effort. The Executive Team was soon reconfigured from a small group of four, to a larger management team of nine. This group met weekly to work with the Dean in steering the organizational development efforts. The major goals for FY 2003-04 were:

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- 1. Improve quality in customer service
- 2. Develop effective internal systems and controls
- 3. Develop outstanding sales and community outreach efforts
- 4. Refine and offer cutting edge educational programs
- 5. Develop a superior UNM-CE workforce and energize the work environment
- 6. Provide safe, attractive state-of-the-art facilities and equipment

UNM-CE work teams developed objectives and action plans around each of these goals, by quarter. All major objectives were reached by June 2004. These included, but were not limited to:

- · Kick off quality customer service initiative and provide staff training
- Fund awards and recognition efforts
- Conduct monthly program management report meetings
- Launch larger staff development initiative
- Develop and staff the Community Outreach and Sales Office
- Develop and deliver safety and emergency guidelines
- Strengthen environmental safety
- Create and hire administrative support for managers
- Launch the creation of an Intranet to enhance staff communications
- Develop LLMS/Lumens software model for registration go live by May 2004
- Research and strengthen model for course development and delivery
- Develop IS trouble ticket system
- Develop a facilities master plan for the conference center
- Establish/enhance internal/external communication tools for sales/outreach
- Assess industry/agency training needs
- Improve signage and reception
- Redesign the CE organizational chart and staffing model. Retrain, re-staff according to this model and chart.
- Provide better tools and uniforms for conference center staff

- Strengthen computer lab equipment
- Launch a Celebration Committee and support/fund the Staff Appreciation Committee

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- Hold quarterly open forums
- Strengthen data collection and
- Streamline and improve financial outcomes for the Division

Although the Dean began the year with a projected budgeted deficit of \$585,000, she is pleased to report no losses during the Fiscal Year. This was accomplished through a streamlined staffing model, course-by-course budgeting toward Return on Investment, and an emphasis on program management accountability, and financial planning and tracking.

Business Office

In fiscal year 2003-2004 the overall revenue budget for the Division of Continuing Education and Community Services was \$10,882,694. This was a decrease of \$1,754,677 or 13.8% over the previous year. This decline was due to the fact that The Division of Continuing Education divested itself of the Extended University, academic credit operations, that then relocated back to the main campus. The new budget was divided among four major categories.

Category	Number of Accounts	Annual Budget	% of Total Budget
Non Credit	10	4,003,822	37%
Programs			
Community Service	5	731,330	7%
Programs			
Program Support	6	2,009,093	18%
Designated	3	4,138,449	38%
Programs			
Totals	24	10,882,694	100%

Extended University and For Credit Programs

At the start of FY04, The Division of Continuing Education and Extended University formally severed their relationship. The academic credit units broke away and relocated to the main campus. Dr. Jeronimo Dominguez relinquished the Deanship for Continuing Education and also relocated to the main campus as Vice-Provost of Extended University. This resulted in the loss of an appropriation of \$850,000 that was used to cover administrative overhead for both the Division of Continuing Education and Extended University.

Non-Credit Programs

The self-supporting accounts in the Division performed well this fiscal year given the concerns over the break-up of the Division. On the whole the programs generated a surplus of \$77,810 for the year. This surplus was mostly used to cover the \$70,000 deficit generated by the Mariachi Spectacular program in previous years.

State Support

The State of New Mexico continued its support of the Substance Abuse Program and the Spanish Resource Center. In addition, a grant of \$60,000 was awarded for New Mexico Kids database. The Career Works Program was also extended for another year and received a grant of \$4,020,449 to continue its work with TANF clients.

Staff Report

The Division Business Office continued progress on its new general ledger, which takes its transaction feed from the UNM FRS mainframe system. The new ledger software allows the division to customize report capabilities and allows for the online storage and retrieval of transaction data, as well as historical data.

All staff and reporting lines remained the same during FY2004 as the Associate Dean maintained department functions and continued to review the impact that automation would have on the division. It is anticipated that significant changes will occur in FY2005 as a result of anticipated retirements and the impact of automation on the business office occur, combined with the loss of programs. This is likely to result in a loss of workload for the Business Office. However it is anticipated that most of that slack will be taken up in the short run by Banner Finance and Student Implementation.

The central administration announced in FY2002 that it had purchased the SCT Banner Information Systems package for the entire university. It is anticipated that the change over will have significant future impact on the Business Office in terms of procurement and financial processes. The Division expects to have to change in a very significant way its processes as the package is implemented.

The Conference Center

The Conference Center had several major goals in FY2004. First among these were the safety audit and the implementation of improvements that would increase safety both in the Conference Center Building and the South Building. These included a safety audit by Vince Leonard, Chief Safety Director. Beth Horan worked to improve the safety of the buildings based on the results of the safety audit.

Another goal was to strengthen environmental safety. First a committee was formed during the year and its first initiative was to train the staff in effective use of fire extinguishers. The safety committee also addressed issues such as Improving Customer Flow through the buildings through better signage; Worked to improve exterior safety by reviewing the condition of the parking lot, exterior lights and fixing those items which posed a safety hazard.

This year another goal was accomplished, that of developing a Facility Master Plan for the remodel of the Conference Center. This involved Dean Martinez Purson, Associate Dean Miera, Facility Manager Horan and Marketing Officer Halpern. Working with the University Architect's Office several scenarios were laid out for a Conference Center remodel. Estimated costs were then developed with the estimate of \$500,000 for a basic remodel.

During the year another goal was to provide better tools and uniforms for the Conference Center staff. Tools were purchased for the set-up staff and lockers were installed so they are now accountable for maintaining their tools. In addition, new denim shirts were issued to the set up staff to improve the overall staff presentation to our customers.

Staff Changes

The only staff change in the Conference Center was the resignation of Danielle Gutierrez, set up person. Given the state of Conference Center finances during the year, this position was left vacant.

Facility Improvements

- Continued to replace the last of the old heating and cooling units that service the Lobby and Administration offices.
- Lighting fixtures were upgraded throughout the facility with improved lighting and reduced electrical usage.
- Purchase of additional AV equipment such as microphones, cables, and DVD players.
- Roof repairs
- A fresh coat of paint was given to all classrooms.

Future Improvements

• Install energy efficient fixtures in the Auditorium

- Install exterior signs to identify Conference Center and South Building.
- Glass enclosure for the west entrance of the facility to improve the heating and cooling retention.

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- Replace classroom tables and chairs in Rooms B,C,G,H & I.
- Replace Lobby furniture
- Painting as needed throughout the building

Information Systems Office

The Information Systems (IS) Office consists of Tim Johnson, Manager, Computing Services, Denny Valliant, Analyst Programmer I, and Sunghee Lee System Analyst II. This department provides network, computer hardware and software support, database development/support, web design and support to the Division of Continuing Education's staff and departments, as well as for other UNM Departments and the State of New Mexico's Children, Youth and Families Department. They also provide the desktop support for the Project LINK-STAC and Financial Aid teams.

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Overview

The contract with the State of New Mexico's Children, Youth and Families Department was renewed for \$60,000. Denny Valliant provided the bulk of the work and has continued to build and improve the web-based data collection system for the Office of Child Development.

The IS Office has also contracted with The Center for Development and Disability, The Institute of Public Law, KNME and the Independent Study program for databases and website development.

A major accomplishment for the IS Office was the successful implementation of the LLMS/Lumens online registration system. Continuing Education has been lacking online registration for several years, and the Lumens software has taken the Division to the World Wide Web. This software was purchased from Auguste Enterprises. The IS Office continues to work with them to fine-tune and improve the product.

A new endeavor for the IS Office this year was the creation of CARMEN. CARMEN (Catalog And Report Management Electronic Network) was developed by Denny Valliant and replaces the Division's MIS efforts. CARMEN works seamlessly with Lumens and provides the day-to-day functionality that is needed by the various departments.

The support for the Continuing Education computer labs has been moved from the IT Training program to the IS Office. This consolidation of computer support has resulted in a smoother operation as well as a cost savings for the Division. Sunghee Lee has been hired to support the labs.

The IS Office is also working on the implementation of the Banner system.

Future Goals

In addition to supporting the Division's growing computer support needs, the IS Office plans to continue pursuing contracts for database development.

The New Mexico Kids website (contracted for by CYFD) took on a new look this year with a new template that makes the site easier to navigate. Funding has been secured for an additional year to support this project. The IS Office is looking for additional funding to further enhance this project.

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Another major goal for the IS Office will be the implementation of a Microsoft Active Directory Network. This will simplify the management of the Division's servers and desktop computers.

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Registration Office

Registration saw significant changes during FY2004. First, the Division implemented the Life Long Management System for registration functions (LLMS/Lumens). This resulted in creating an online presence for registration for the Division. However, back office functions were incomplete and we lost ground in that area.

This implementation was a major change due to the fact that so many stakeholders were involved. For example, staff involved came from Registration, the Business Office, Information Systems, CIRT, Bursar's Office and Comcast Cable.

The Registration Office benefited from new equipment this year such a higher capacity fax machine, new small photocopier, a cable modem connection to speed up LLMS processing, and new laser jet printers for each registration work station.

Staff Changes

During the year an additional FTE was added to registration to assist with workload and assist with LLMS implementation. Ms. Janisha Garcia was hired into the position. In addition, Ms. Joanna Garcia was hired as a temp to assist with peak workload. FY2004 saw the permanent appointment of Rita Martinez as the Cashier for the Division.

Community Outreach Office

Overview

The Community Outreach Office of Continuing Education was established in January 2004. The main goal of the Community Outreach Office is to increase awareness of Continuing Education Services in the community by developing strong relationships with business leaders and training managers in the state.

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Action steps to meet this goal were:

- Representing Continuing Education at professional organizations, professional user groups, special educational events, and community groups to promote high quality training and workforce development.
- Developing partnerships with UNM units and businesses to offer high-quality training and consultation services to their employees.
- Promoting our courses, programs, and services to UNM, government, business and individual community in New Mexico to meet their training needs for improved employee work performance.
- Offering custom training and consultation services to UNM units, state and federal agencies, businesses, and to individuals to meet their specific training and organizational needs.

<u>Goals</u>

Besides the main goal listed above of increasing awareness of Continuing Education services in the community, other goals established for this new office were to:

- Develop a Community Outreach Office Plan
- Develop Community Outreach Office processes and procedures.
- Assess industry/agency training needs which will lead to an increase in the number of public and custom training courses and consultation services contracts.

Custom Training Offerings

One main component of the Community Outreach Office is the Custom Training and Consultation Services Offerings. This service allows Continuing Education to offer organizations, businesses, and individuals our non-credit courses and certificate programs and services in customized formats that allow businesses and individuals to have training at their location, at dates and times that are convenient to them, and with data or information that is unique to their organization.

To meet these unique needs of customers, the Custom Training and Consultation Services program designs and develops curriculum and certificate programs to meet the needs of our customers.

Custom Training Customers

During the 2003-2004 fiscal year, examples of custom training and consultation services customers were:

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- UNM units
 - o University Hospital
 - o Center for Developmental Disabilities
 - o Zimmerman Library
 - o CIRT
 - State Agencies
 - o New Mexico Office of the State Engineer
- Federal Agencies
 - o Sandia National Labs
 - o US Transportation Security Administration
- Businesses:
 - o Presbyterian Hospital
 - o Honeywell

Most Common Custom Training Course Offerings

Below are listed the most requested custom training services in fiscal year 2003-2004

- Leadership and Management courses and certificates
- Programming courses
- Oracle courses
- Business Applications courses including Word, Excel, PowerPoint, Access

Specialized Custom Training Offerings

Below are listed the unique courses and consultation services that were developed for customers during this fiscal year.

- English as a Second Language in one-on-one format and group courses
- UNM Hyperion curriculum developed for courses taught to CIRT and other UNM employees
- Training and Development consultation services including training analysis, course design, course development, and evaluation
- Web Site Design and Development Consultation Services

Location of Services

Custom training and consultation services took place in the following locations:

- Continuing Education labs and classrooms
- Customers' offices or place of business
- The Department of Transportation computer labs in Santa Fe for New Mexico State Agency employees

Custom Income Generated

Income from Custom Training and Consultation Service offerings in 2003-2004 was \$225,000. This was an increase of 252% over the income generated from custom training in fiscal year 2002-2003 which was \$64,142. In the previous fiscal year, before the Community Outreach Office was established, the Custom Training program was operated by a part-time staff person in the Business and Technology Program.

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Community Outreach Staff

Below are listed the staff that comprised the Community Outreach Office in this Fiscal Year. Please note that Beverly Larzelere joined our team in July 2004.

Manager and IT Program Specialist	Leah Kier	1.0 FTE
Outreach Consultant	Ed Rodriguez	.25 FTE
Outreach Consultant and Professional Development Program Specialist	Beverly Larzelere	.25 FTE
Administrative Assistant	Linda Conway	.5 FTE

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Marketing Department

The marketing department acts as a guide and leads the programs in building awareness, maximizing distribution, and increasing participation in product and service offerings. Services provided by CE Marketing include:

- Marketing planning and strategy
- Design and advertising
- Public relations
- Event and conference support
- Web and interactive marketing
- Internal communications

Marketing Department's Roles and Responsibilities

Marketing Officer - Kim Halpern

- Primary interaction with program managers to develop strategic product and service distribution plans
- Plan and maintain departmental budget
- Media and advertising planning
- Coordinate departmental project work
- Develop and maintain strategic partnerships

Senior Graphic Designer - Deborah Kastman

- Design and Production
- Print bid process

Web Designer - Sharon Steely

- Design and production
- Web planning and design
- Display and signage coordination

Marketing Representative - Christian Horstmann

- Project tracking
- Public Relations
- Event coordination
- Internal communication

Marketing For Continuing Education

The course catalog continues to be the primary marketing tool for the department. It is currently published three times a year and supports all programs offered, custom training options, and the conference center facility rentals. Marketing develops and maintains a comprehensive website that is becoming increasingly more important in the promotion of Continuing Education's products and services. The department uses TV, radio and outdoor advertising for general awareness campaigns. There are also print pieces, such as flyers and brochures, produced to support specific program offerings.

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The function of the marketing department is to:

- Be the resource for strategic marketing and planning
- Maintain high creative and design standards
- Maximize enrollment and participation in our programs
- Increase public awareness of our community services and product offerings
- Develop our interactive marketing promotions
- Support promotion of all programming, conference and services offered
- Facilitate communication with our internal partners

The Students

Our student body is varied, but the majority are adult learners looking for a non-credit environment, a compressed schedule, one-on-one instruction, and weekend and evening options. Some are re-careering, while others are starting a new hobby. We have a high rate of repeat students.

Current Student Demographics:

- 70% Female, 30% Male
- 60% between the ages of 35 and 55
- 20% have HS/GED, 30% associates or bachelors, 25% higher degree
- 44% earn \$20 50,000 annually, 29% over \$75,000
- 62% white, 20% Hispanic, 4% Native American
- 64% repeat student
- 27% managerial/administrative, 15% sales/tech/engineer, 10% healthcare professional, 10% teacher/educator
- 57% Paid for course themselves, 17% employer paid
- 56% heard about CE from catalog, 14% from a friend

Marketing Support for Division Strategic Initiatives

Intranet communications

During the Spring of 2004, the department begin planning to launch a new Intranet site, called Cecom that stands for the CE Community. It is to serve as the central information

and work portal for all CE employees. There will be a team of contributors who will be trained to upload content and will keep the site information current. The site will serve to keep information and communication as current as possible and accessible for all employees.

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Customer surveys

There are several survey instruments designed and implemented by Marketing to keep track of the effectiveness of its promotions.

- Customer satisfaction survey. Published annually through the Fall catalog.
- Student evaluation survey. Distributed in the classroom.
- Web survey. Distributed in the classroom.

Sales and Outreach tools

The marketing department has developed a series of tools for use by Sales and outreach team that includes:

- Presentation Folders
- Proposal Templates
- Presentation Templates
- Service brochure
- Event support materials

Signage and Reception

During the spring of 2004, the marketing team designed a system for upgrading the interior signage systems. They will work with the UNM Sign Shop to purchase, fabricate and install signage on the CE campus.

Professional Organizations and Outreach

The members of the Marketing Department are involved in various professional organizations within and outside of the UNM organization. We strive to represent the Division of Continuing Education and network with our affiliates to produce positive relationships. Some of these organizations include:

- UCEA
- LERN
- American Marketing Association
- NM Public Relations Society of America
- Communications Action Network (UNM)

Non-credit Programs: An Overview

The 2003/2004 fiscal year was one of transitions and reorganization in the non-credit programs. The new Dean of Continuing Education initiated many changes including a reorganization of staff. Staff that left the division for other positions or retirement, tended not to be replaced as the division evaluated it's situation with regard to staffing, financial needs, and program development.

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One goal identified early in the year was the need for additional administrative support for program development staff. To address this need, the administrative pool concept was defined and implemented. The Group Administrator supervises the administrative pool but all staff in the instructional area can use their assistance. This plan was implemented late in the year when a Group Administrator was hired and the administrative team formed. This has allowed more effective use of personnel. For example, coverage at the front desk was expanded to extend our hours of operation and serve students past 5 pm.

The Associate Dean of Non-credit programs, Eduardo Rodriguez, retired late in 2003. After a search, it was decided that the Associate Dean would not be replaced.

In the Spring semester, three of the non-credit programs were reorganized to merge the Professional Development, Computer Training, and the Alcohol and Substance Abuse Training program areas into one program called Business and Technology Training. These programs had different processes and procedures that required integration and revision. It also sparked assessments of staffing issues and how these programs would be best managed in the future.

Other changes late in the year in non-credit programs related to the preparation required to rollout the new registration system in the Summer 2004 semester. All non-credit continuing education programs were revised and renumbered in the Spring 2004 semester in preparation of the new system. This change also required considerable planning late in the year to develop new systems for such processes as room and computer lab scheduling, catalog development, and course management.

The reorganization resulted in the following changes related to non-credit programs in personnel duties and responsibilities. Note that not all these positions are considered part of non-credit programs, but all of them provide direct support.

Employee	Previous Assignment	New Assignment	Effective Date
Leah Kier	Computer Training	Sales and Outreach Office	Fall 2003
Martha Binford	Custom Training, Internet/Web and TDIT program coordination	Interim Senior Program Manager of the new Business and Technology Training program	Spring 2004

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Grace Collins	Alcohol and Drug Abuse Studies	Added supervision of the Medical Assistant program and Health related program development	Spring 2004	
Mariann Johnston	Computer Training	Group Administrator for Non-credit programs	Fall 2003	
Caroline Orcutt	Graphic program	Added supervision of the Internet/Web program and Hobby Series	Spring 2004	
Dora Delgado Raby	Personal Enrichment Program	Added supervision for the DWI Awareness program and the Spanish Resource Center.	Fall 2003	
Tim Johnson	IT Support, Business Office	Added supervision of all Computer Labs, formally managed by a Computer Training LAN administrator.	Spring 2004	

Some of these changes resulted from personnel leaving the division and not being replaced. Staff that left during this period were: Judi Hotsinpillar, Paul Terrazas, Bill Halverson, and Jennifer Cornish.

Business and Technology Program

Significant Developments

- Combining the Professional Development program, the Computer Training program, and the Alcohol and Drug Abuse programs into the Business and Technology program to maximize resources and streamline processes and procedures.
- Interim Senior Program Manager (Martha Binford) hired in Spring 2004
- New catalog development process initiated in the Spring 2004 to use the CARMEN database and a catalog editor (Bob Morrison). This new process was tested on the Fall 2004 catalog. There were many areas for improvement and streamlining this process.
- The "coordinator" job expectations were more clearly defined and shared with the staff. In the process, evaluation of the staffing needs indicated that a new position description might be appropriate.
- Upgrading our computer labs was identified as a priority early in the year. Upgrades were completed in Lab D (the PCs) and Lab A. This has been very successful in increasing the classes we can offer and allowing the computer programs to stay competitive.
- All of the computer training staff relocated their offices downstairs, consolidating resources and personnel to provide better coverage for the office and for customers.
- Martha Binford was appointed to the Workforce Connection of Central New Mexico (WCCNM) Board. Numerous meetings with the WCCNM Board and their contractor were held and relationships established to facilitate more responsive program development to workforce needs.
- Assessment of processes and procedures for revision began in the Spring 2004. In some cases, processes had to be developed immediately to cope with conflicting systems or non-functional procedures. In other cases, revisions were postponed as information was collected to better inform the decisions.
- One of the primary strategies initiated starting in the Spring 2004 was to increase revenues by reducing the number of offerings in selected areas, in the hopes of focusing the offerings and increasing the number of students per class. The first semester planned with this strategy was the Fall 2004 semester. Considerable redundancy in the program offerings was apparently diluting the enrollments in any one class.
- LERN best practices were explored and 25% new and updated programs per semester was identified as the goal for future program development. New techniques to determine the number of classes to offer will be implemented early next year.

Computer Training Courses and Enrollments 2003-2004

	Number of Courses Offered	Number Courses Canceled	Enrollments
Summer 2003	182	38 (21%)	885
Fall 2003	255	38 (15%)	1431
Spring 2004	284	60 (21%)	1464

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Professional Development Courses and Enrollments 2003-2004

	Number of Courses Offered	Number Courses Canceled	Enrollments
Summer 2003	37	6 (16%)	223
Fall 2003	164	68 (41%)	598
Spring 2004	173	67 (39%)	612

Summer 2003 New and Updated Courses and Certificates

Project Coordinator Certificate **HIPAA** Training Lower Prices for Business Applications C# .NET Programming Certificate PHP Programming Certificate MvSOL Developer Certificate Security+ Certificate Introduction to the Internet for Macintosh Color Theory Illustrator Tips and Tricks Introduction to Scanning Photoshop Techniques for Game Design Intermediate ImageReady Intermediate Video and Sound Editing Flash Tips and Tricks Dreamweaver Tips and Tricks **Beginning PHP** Introduction to Oracle 9i: SQL Oracle 9i: Program with PL/SQL Oracle 9i: Forms Developer Build Internet Applications Oracle 9i Reports Developer: Build Reports Construction Estimating with Bid2Win Security +

Fall 2003 New and Updated Courses and Certificates

Solving Problems in the Workplace 2-day workshop

Business Communications Performance Management Certificate Human Resources Management Non-profit Management Health Care Certifications - First Aid and CPR Diversity Works Project Management for Teams (updated) How to Burn CDs on Macintosh Advanced Topics in Acrobat InDesign for QuarkXPress and PageMaker Users Integrating the Adobe Design Collection Digital Darkroom with Photoshop Digital Darkroom with Photoshop Elements Game Design with Flash Integrating Macromedia Studio MX for Web Design Beginning Visual Basic .NET MySQL Development with PHP Oracle (Updated)

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Spring 2004 New and Updated Courses and Certificates

Business Series classes Macintosh Business Concentration Office Applications for Business Graphic Design for Business Web Design for Business Linux training (expanded) **CPrep Test Preparation** Macintosh Tips and Tricks Imaging your Macintosh Computers What's New in Office XP Intermediate Filemaker Pro Introduction to Microsoft Office for Macintosh Choosing Hardware and Software for Graphics Page Layout Tips and Tricks Multimedia Design and Techniques Cisco (Updated) Microsoft (Updated)

Future Plans

- Expand our collaborations with community organizations, professionals associations, business and industry in order to respond more effectively to community needs.
- Continue to refine our operations to become more effective.
- Define and budget for ongoing hardware and software needs.

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- Evaluate staffing needs for the newly created Business and Technology program and budget for these.
- Break even in Business and Technology accounts next year.

Personal Enrichment Program

Significant Developments

The Personal Enrichment Program in partnership with the Reading Development Institute offered reading comprehension and study skills classes to children starting at age 4 to adult this summer 2003 semester. The classes were all held at the Continuing Education Conference Center and received an overwhelming response. The marketing was handled through the Institute and every school age child in the Albuquerque Public School system received information directly through a mailing or through their school counselor. Enrollment for the program was 540 students.

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The Personal Enrichment Program continues to receive benefit from the University tuition remission program. Approximately 20% of the enrollments for the fiscal year were due to tuition remission. The Personal Enrichment Program advertises the tuition remission benefit to staff and faculty via a direct campus mailing and through the Continuing Education catalog.

Overall, the Personal Enrichment Program experienced a slight increase in enrollments for the fiscal year. Compared to the 10,198 students for the 2002/2003 fiscal year. The Personal Enrichment Program experienced a 9% increase in enrollments for fiscal year 2003-2004.

Enrollments	
3074	
3787	
4380	
11,241	

Personal Enrichment Enrollments for fiscal year 2003-2004:

The average cancellation rate remained the same at 16% from the previous fiscal year and the number of offerings increased by 9%.

Classes Offered Classes Canceled Semester Percentage 41 Summer 2003 219 18.81% Fall 2003 315 48 15.29% Spring 2004 338 47 13.91%

Offerings and Cancellation Rates for the fiscal year 2003-2004:

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Plans

The Personal Enrichment Program will continue to advertise the use of tuition remission to faculty and staff, with a concerted effort to advertise to UNM retirees, who have unlimited use of their tuition remission. The Program will work closely with the Marketing Department on the look of the Personal Enrichment section of the Continuing Education catalog, along with the look of the web-site and print advertising. Also, plans to work with marketing to increase awareness of the custom class opportunities available with the Personal Enrichment Program through the course catalog and individual marketing. The Program will continue its partnership with the Reading Development Institute to offer reading comprehension and skills to children in the Albuquerque area and add offerings of speed-reading and comprehension classes to undergraduate and graduate students of the University.

Elderhostel

The Elderhostel program at UNM Continuing Education, began September 2, 2003, transferring from The College of Santa Fe after being sponsored by that institution for 19 years. The program is managed by Mary Ann Fellows-Slattery. Between September and the end of the fiscal year, June 30 of 2004, approximately 90 programs were run, attended by nearly 2,500 Elderhostel participants. In March of 2004, Lisa Tannenbaum was hired as a half-time Administrative Assistant II to work with the Elderhostel program.

The national office of Elderhostel is based in Boston; this educational non-profit company has been in existence for almost 30 years, providing economical travel-learn programs for people over 55. These programs are marketed via catalogs produced at the national office (the mailing list reaches over 800,000 households three to five times yearly) and via their extensive website. The programs must comply with the following guidelines: all programs must offer 22 ½ hours of college-level, liberal arts instruction per six-night program; all housing, all meals, transportation and entry fees must be provided; coordinators must accompany hostelers during all aspects of the program; field trips must be provided as needed and instructional tour guides must accompany all field trips.

In this CE department, all programs provide information about the state of New Mexico. This is done through courses on New Mexico prehistory, history, culture, cuisine and wine of the area, anthropology, archeology, museum visits, site visits to national and state monuments, art galleries, Santa Fe Opera, and much more. It is estimated that, in addition to program tuition, Elderhostelers participating in UNM's Elderhostel programs spend more than \$3 million yearly for additional nights' housing, meals out on their own and purchases they make from vendors in the area. The gross income for the Elderhostel department was in excess of \$1,200,000 during the first ten months of operation.

Mary Ann Fellows-Slattery creates and writes all programs offered, hires instructors, coordinators, instructional tour guides, works with area hotels, bus companies and restaurants, museums, galleries, cooking schools, state and national parks and monuments and other vendors to schedule their facilities for each program week. Hostelers receive advance mailings with information about the weather of the area, how to get to the program site, a welcome letter from the Elderhostel office at UNM, reading lists and other information as needed. All hosteler registration information is provided from the national office via their web site. Mary Ann also provides to the national office catalog copy when needed, proposals for new programs, and manages budgetary aspects of the program.

The goals for the fiscal year of 2004-2005 will be to increase the numbers of programs run by UNM Elderhostel, create and manage Road Scholar programs (a new initiative from the national office), and to increase gross revenue to \$1,650,000.

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Career Works

The Career Works program was an agreement between UNM-Continuing Education and the State of New Mexico Human Services Department (HSD), to provide a program of employment assistance for needy families in Bernalillo County as part of the New Mexico Works Act. The program was operated largely off-site at a downtown location, providing job development, job placement, training and other support services to TANF clients and where applicable Food Stamp Program recepients. The HSD and UNM-CE worked together to provide greater employment opportunities for these clients, and other community partnerships were developed. These included: the NM Department for Children Youth and Families; the Department of Labor; the Department of Vocational Rehabilitation; Albuquerque TVI; TeamWorks; Bernalillo County Housing; City of Albuquerque; H&R Block and WESST Corp.

The Vision of Career Works is to create a healthy social and economic community by recognizing personal strengths and by providing opportunities for positive transition to economic independence. During the fiscal year, it served more than 5000 participants and transitioned 1900 clients to employment.

During the spring of 2004, the UNM-CE administration was informed that there would not be a full year contract awarded for the subsequent year, because HSD would be transitioning programs to the two-year colleges as part of the governor's statewide plan for streamlining the workforce development system. In the case of Career Works, we were told to begin negotiating with Albuquerque TVI to develop a partnership as we planned for this transition. In June of 2004, we were awarded a six-month contract (July 1, 2004-Dec. 31, 2004) and began discussions with Albuquerque TVI staff. As a postscript in December 2004 the contract was turned over to HSD, as TVI was not interested in taking over the contract.

Summary

Fiscal Year 2003-04 was guided by a sound plan for organizational development and engaged leadership at all levels. Because of the transitioning out of Extended University, the new state of the Division called for a reorganization of structure and efforts around a shared vision, mission and priorities. A streamlining of expenses and other expenditures was also needed.

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The staff focused well on the new directives needed for the reshaping of the division, and proved the power of teamwork in accomplishing its goals.