Annual Report of the University, 2005-2006, Volumes 1-7

University of New Mexico

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<th>Position &amp; Department</th>
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<tbody>
<tr>
<td>President</td>
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<td>Equal Opportunity, Office of</td>
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<tr>
<td>Government &amp; Community Relations</td>
<td>1</td>
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<tr>
<td>Provost/Vice President for Academic Affairs</td>
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<tr>
<td>Anderson Schools of Management</td>
<td>9</td>
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<tr>
<td>School of Public Administration</td>
<td>46</td>
</tr>
<tr>
<td>Architecture and Planning, School of</td>
<td></td>
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<tr>
<td>Art Museum</td>
<td>78</td>
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<tr>
<td>Arts and Sciences, College of</td>
<td>113</td>
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<tr>
<td>African American Studies</td>
<td></td>
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<tr>
<td>American Studies</td>
<td>169</td>
</tr>
<tr>
<td>Anthropology</td>
<td>187</td>
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<tr>
<td>Maxwell Museum</td>
<td>229</td>
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<tr>
<td>Journal of Anthropological Research</td>
<td></td>
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<tr>
<td>Biology</td>
<td>245</td>
</tr>
<tr>
<td>Center for Evolutionary &amp; Theoretical Immunology</td>
<td>421</td>
</tr>
<tr>
<td>Museum of Southwestern Biology</td>
<td>447</td>
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</tbody>
</table>

Continued in Volume II
Accomplishments

2006 Post-Legislative Session Update
The University of New Mexico

House Bill 2 - FY 07 General Fund (HB 2 shavings not reflected)
Main Campus
I&G - $160.1 million
SB 190 - $1.47 million
(shaved by $300,000)

Health Sciences Center
I&G - $47.4 million
SB 190 - $735.9
(shaved by $147,600)

✓ Compensation - 4.5 percent
✓ ERA employer contribution - 0.75 percent
✓ Tuition credit increase - 3.0 percent
✓ Building renewal and replacement - $20 million (distributed by the formula)
✓ School of Medicine I&G funding - $2 million
✓ Out of county indigent care funding - $1.25 million
✓ UNM Hospitals' equipment - $10 million
✓ UNM Cancer Research & Treatment Center equipment - $5.5 million
✓ LambdaRail (Dual Fiber Optic Network) - $2 million Capital Outlay

Capital Outlay UNM TOTAL - $63,680,200

Highlights
✓ Math & Sciences Learning Center - $7.0 million
✓ College of Education - $3.5 million
✓ HSC Education Building - $4.025 million
✓ Centennial Engineering Building - $4.45 million
✓ University Arena ("The Pit") - $8.0 million
✓ Indoor Practice Facility - $6.1 million
✓ UNM-Gallup Educational Technology Building - $2.445 million

SB 415 (HB 2, Junior)

UNM TOTAL - $2.051 million

Highlights
✓ BA/MD Combined Degree Program - $727,000
✓ Family Development Program - $410,000
✓ Southwest Indian Law Clinic - $80,000

CS HB 274/a (signed, Chapter 9)
County imposed tax for indigent care. This legislation would allow the Board of Commissioner of Bernalillo County to impose up to two 1/16\textsuperscript{th} cent increments of gross receipts tax for indigent care. The county would then pay its obligation of a 1/16\textsuperscript{th} cent intergovernmental transfer to the state alleviating UNMH of that payment—net to UNMH $10 million.

**Plans**

2006-2007

**BUDGET & LEGISLATIVE STRATEGY**

**OFFICE OF GOVERNMENT AND COMMUNITY RELATIONS**

**THE UNIVERSITY OF NEW MEXICO**

1. **VISION**

The Office of Government and Community Relations will be recognized by Legislators and Staff, constituent campuses and other organizations as:

- Knowledgeable about politics as well as legislative and budgetary processes;
- Informed about UNM and related policy issues;
- Responsive to requests for assistance by external and internal stakeholders; and,
- An effective advocacy operation.

2. **THEMES**

Research * Teaching * Public Service * Patient Care

3. **INTRODUCTION & BACKGROUND**

The Office of Government & Community Relations reports to the Executive Vice President for Administration and is responsible for facilitating, coordinating and maintaining all University interaction with the federal, state and local government, including the federal, state or local executive branches and executive agencies; the Congress; the State Legislature; Bernalillo County Commission; City of Albuquerque and City of Rio Rancho Councils; and any federal, state or local public or private entity whose primary responsibility is interacting with or influencing the federal, state or local government. In addition, the office works to develop and maintain a positive image for the University, and works to strengthen the lines of communication by serving as a liaison between the University, neighborhood organizations, the business community and the community at large.

4. **OBJECTIVES**

a) Amalgamate intergovernmental relations program;

b) Include constituent groups (i.e., regents, administration, students, staff, faculty, alumni and community);

c) Promote and gain support for UNM and UNM programs; and

d) Build relationships with elected and appointed officials.

**OVERALL STRATEGY**

a) Develop a unified and coordinated message and develop marketing materials to strengthen our message;
b) Engage legislative state legislative interim committees through presentations, sponsoring events, host meetings on campus and campus tours;
c) Connecting legislators, executive staffers, and congressional staffers to the campus. Finding areas of interest and fostering it; and
d) Communicate, collaborate and coordinate with partners to plan briefings, receptions, recognitions, forums, events and meetings.

**ROLE OF STATE CONTRACT LOBBYISTS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Responsibilities</th>
</tr>
</thead>
</table>
| Dick Minzner, Rodey, Dickason Law Firm | Lobby program funding and substantive legislation | • Substantive HSC related legislation  
• Tax expertise and legislation  
• Funding for BA/MD Dual degree program |
| Tom Rutherford, The Rutherford Thompson Group, LLC | Lobby program funding & capital | • Senate Capital  
• Events  
• County Commission  
• City Council (ABQ)  
• City Council (Rio Rancho)  
• Entertainment |
| Richard Romero, R.R. Consulting, LLC | Lobby program funding & capital | • Ethic Studies Programs  
• Native Living and Learning  
• Navajo Language  
• Student Centered Programs |
| Joe Thompson, The Rutherford Thompson Group, LLC | Lobby program funding & capital | • Capital funding  
• City Council  
• Athletics  
• Alumni  
• Digital Media  
• Entertainment |
<table>
<thead>
<tr>
<th><strong>ROLE OF FEDERAL CONTRACT LOBBYISTS</strong></th>
<th><strong>ROLE</strong></th>
<th><strong>RESPONSIBILITIES</strong></th>
</tr>
</thead>
</table>
| **Vince Versage,** The National Group, LLP | Lobbies for UNM Federal Initiatives in the US Capitol  
Serves as Team Leader & coordinates all Federal efforts for UNM | • To develop successful appropriations funding projects & legislative strategies  
• To coordinate all UNM Federal requests and publication of the UNM “Lobo Book”  
• To utilize his extensive relationships with the House & Senate Appropriations Committees & other key Members of Congress & their staff  
• To arrange opportunities for UNM administrators to testify at Capitol Hill hearings  
• To assist staff with appropriations requests & to draft legislative language as necessary |
| **George Ramonas,** The Advocacy Group, Inc.  
subcontractor to, The National Group, LLP | Lobbies for UNM Federal Initiatives in the US Capitol  
Works particularly with Senator Domenici’s Office  his staff | • To develop successful appropriations funding projects & legislative strategies  
• To coordinate all UNM Federal requests and publication of the UNM “Lobo Book”  
• To utilize his strong personal relationship with his former boss Senator Domenici & other key Members of Congress & their staff  
• To arrange opportunities for UNM administrators to testify at Capitol Hill hearings  
• To assist staff with appropriations requests & to draft legislative language as necessary |
| **Jeff Lawrence,** The National Group, LLP | Lobbies for UNM Federal Initiatives in the US Capitol  
Works primarily with NASA to expand UNM’s science & space related research initiatives | • To develop successful appropriations funding projects & legislative strategies  
• Cultivate agency relationships & relationships with the appropriations Subcommittee staff  
• To assist staff with appropriations requests & to draft legislative language as necessary |
Lisa Turner, The National Group, LLP

Lobbies for UNM Federal Initiatives in the US Capitol

Works closely with staff to guide UNM requests through the appropriations process

- To complete all New Mexico delegation & House & Senate Subcommittee appropriation request forms
- To draft all appropriation request letters for staff
- To schedule and coordinate all Capitol Hill meetings & events
- To coordinate and help with the implementation of the UNM Washington, D.C. internship program
- To provide additional information for congressional staff as requested

5. GENERAL RESPONSIBILITIES EXPECTED BY LOBBYST OF OGCGR:

- Feedback from Members of Congress, Administration, Executive, Legislators and staffers
  > Advice and recommendation of tactics on how to approach
- Feedback from those who have common interests and oppositions
- Feedback from other Lobbyists that represent opposing interests
- Give realistic expectation of what commitment members of congress and legislators have made to UNM
- Continue to learn UNM priorities
- Notice of events that can benefit or affect UNM

6. COLLEGE/SCHOOL STRATEGIC ACTION PLANS

<table>
<thead>
<tr>
<th>Federal</th>
<th>State</th>
<th>Local</th>
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</thead>
<tbody>
<tr>
<td>1. NM</td>
<td>1. Governor’s Office</td>
<td>1. City and County</td>
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<tr>
<td>Congressional</td>
<td>2. Cabinet Secretaries</td>
<td>Governments (e.g.</td>
</tr>
<tr>
<td>Delegation and Staffers</td>
<td>3. Legislature</td>
<td>Architecture and Planning)</td>
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<tr>
<td>2. Other State</td>
<td>4. Legislative Finance Committee</td>
<td>2. Community Involvement/Outreach</td>
</tr>
<tr>
<td>Delegation that</td>
<td>5. Department of Finance and Administration</td>
<td>a. Identify various other entities that each college collaborates and partners with throughout the State</td>
</tr>
<tr>
<td>have a strong common</td>
<td>6. Higher Education Department</td>
<td>3. Demonstrate each college’s fund raising for research and development.</td>
</tr>
<tr>
<td>interest with UNM</td>
<td></td>
<td>4. Show costs/benefits to funding the university capital, OPBUD, program expansion</td>
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# TIMELINES FOR ACTION

<table>
<thead>
<tr>
<th>MONTH</th>
<th>STATE</th>
<th>FEDERAL</th>
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<tbody>
<tr>
<td>2006</td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>Set Legislative Priorities</td>
<td>RFP for Federal Priorities for FY 08</td>
</tr>
<tr>
<td>August</td>
<td>Implement plan for priorities</td>
<td>Work FY07 federal priorities at agencies, prioritize and set FY08 federal priorities</td>
</tr>
<tr>
<td>September</td>
<td>Make asks &amp; get commitments</td>
<td></td>
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<tr>
<td>October</td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>Have all legislation and capital bills drafted and mated with sponsors</td>
<td></td>
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<tr>
<td>December</td>
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<tr>
<td>2007</td>
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<tr>
<td>January</td>
<td>Session</td>
<td>Develop FY08 Priority Books</td>
</tr>
<tr>
<td>February</td>
<td>Develop legislative Focus Areas</td>
<td>Deliver and brief delegation and staff about FY08 Priorities (EMT)</td>
</tr>
<tr>
<td>March</td>
<td>Request proposals for LFAs</td>
<td>Submit FY08 request letters to members of congress</td>
</tr>
<tr>
<td>April</td>
<td>Set legislative priorities</td>
<td>Work FY07 Priorities with agencies</td>
</tr>
<tr>
<td>May</td>
<td>Develop and implement plan</td>
<td></td>
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<tr>
<td>June</td>
<td>Make asks &amp; get commitments</td>
<td>RFP for FY09 Priorities</td>
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<tr>
<td>July</td>
<td></td>
<td>Work FY07 federal priorities at agencies, prioritize</td>
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<tr>
<td>August</td>
<td>Have all legislation and capital</td>
<td>Finalize FY09 federal priorities</td>
</tr>
<tr>
<td>September</td>
<td>drafted and mated with sponsors</td>
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<td>2008</td>
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<td>January</td>
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<tr>
<td>December</td>
<td>Have all legislation and capital</td>
<td>drafted and mated with sponsors</td>
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## 6. COORDINATION AND TRACKING OF PLAN ACTIVITIES

The Task Charts that OGCR is building identifies specific tasks, assignments of duties and timing of activities to implement the legislative and budget strategy. The Office of Government and Community Relations will orchestrate, track and coordinate the strategy and messages. The constituent groups will be asked to take the lead or supporting roles in the various activities and will be identified.
University leaders are to utilize the current political process to advance our efforts. We must be unremitting in pursuit of our goals as well as work towards improving the process. We are to be optimistic yet aware of the obstacles that have been designed to impede our efforts. We are to reach out for new alliances within the Executive, Legislature, Administration and Congress. We must always acknowledge our friends within those areas and be appreciative of their vigilance and support.

7. PROPOSED POLICIES

The Office of Government & Community Relations is in charge of advancing the University's interests at all levels of federal, state and local government. The following policy guidelines for working with University units will achieve a coordinated and effective institutional advancement program.

- To inform the Office of Government & Community Relations of all planned contacts and correspondence with elected officials and policy-making employees of federal, state and local government, including those who are alumni or friends of the University. Those items which pertain to sponsored research should be coordinated with the Vice President for Research.

- To consult the Office of Government & Community Relations on any verbal or written statements made on behalf of the University that concern federal, state or local policies, legislation or regulations.

- To advise the Office of Government & Community Relations on any activities, conferences, seminars, lectures or projects that involve the community and/or impact the University area.

- Faculty or staff members who contact federal, state or local policy-making employees as experts in a specific field, or who act on behalf of themselves or another organization, should include a disclaimer which clearly states that they are not acting on behalf of the University.

- The Byrd Amendment (Section 319 of P.L. 101-121) generally prohibits the use of Federal funds for lobbying members of Congress, their staffs, or employees of Federal agencies in connection with the awarding of specific contracts and grants. Researchers are advised to consult the Vice President for Research & Economic Development to plan lobbying contacts, particularly with Congress. The Office of Government & Community Relations and The Office of the Vice President for Research & Economic Development are the University's designated points-of-contact concerning federal lobbying.

- Any activity conducted with the expressed intention of influencing the passage or defeat of legislation, the approval or disapproval of any legislation, the adoption or rejection of any rule, legislation or policy, or the appropriation or allocation of state funds must be reported to the Office of Government & Community Relations. The Director of Government Relations should be advised when faculty, staff and/or students plan to lobby New Mexico State or local agencies/departments, the legislature and its staff, or the executive branch on behalf of the University.

- New Mexico State Lobbyists Regulation Act states, “Each lobbyist or lobbyist's employer who makes or incurs expenditures or political contributions for the benefit of or in opposition to a state legislator or candidate for the state legislature, a state public officer or candidate for state public office, a board or commission member or state
employee who is involved in an official action affecting the lobbyist's employer or in support of or in opposition to a ballot issue or pending legislation or official action shall file an expenditure report with the Secretary of State on a prescribed form or in an electronic format approved by the Secretary of State. The expenditure report shall include a sworn statement that sets forth:

The cumulative total of the expenditures made or incurred, separated into categories that identify the total separate amounts spent on:

- Meals and beverages
- Miscellaneous entertainment expenditures
- Gifts and
- Other expenditures
UNIVERSITY OF NEW MEXICO
Annual Report for Academic Year 2005-2006
July 1, 2005 – June 30, 2006

Submitted by:
Charles Crespy
Dean
The Anderson Schools of Management
The Anderson Schools of Management

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

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

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

In the past year, the School has initiated a number of new programs to serve our diverse constituents, including the Professional MBA program in Rio Rancho, Hispanic MBA Day (a recruitment event), the first International Indigenous Entrepreneurship Conference, improvement of undergraduate and graduate advising services, and initiation of the UNM-wide Technology Business Plan Competition.

Statement of Vision, Mission, and Goals

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

Vision

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

Mission

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

Goals

- Quality Education: Provide high-quality, value added management education programs at the undergraduate and graduate levels for students who come primarily from the diverse population of New Mexico.
• **Knowledge Advancement:** Advance the knowledge and practice of management through scholarly activities.

• **Economic and Professional Development:** Promote economic development in New Mexico and continue to provide professional development opportunities for our constituents.

• **Vibrant Intellectual Atmosphere:** Foster a vibrant climate of academic excellence that actively engages all elements of the Anderson community.

• **Careers for Graduates:** Enhance the career preparedness of students by expanding quality employment opportunities for Anderson graduates through strong ties with organizational recruiters.

• **Stakeholder Relationships:** Strengthen relationships with and support to internal and external constituents to enhance Anderson’s visibility and reputation.
DEPARTMENT OF ACCOUNTING

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

Part-time faculty:
Brandon Haines
Angela Ekofo
Charles Milazzo
Carol LaRotonda

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

September 7, 2005 the Department of Accounting held the Annual Accounting Career Fair at the Marriott. We had 18 accounting firms, companies and/or government entities, 10 of which participated at the sponsorship level, interested in recruiting ASM accounting students. We hosted a table for Beta Alpha Psi, Institute of Management Accountants, New Mexico Society of CPAs and the Association for Latino Professionals in Finance and Accounting.

Further we hosted a UNM Career Services table with internet connection to facilitate students' ability to register for job interviews and access the new UNM Career platform entitled eRecruiting. This was the first year of this process, and it was a huge learning curve for both recruiters and students. The career services representative answered hundreds of questions and helped students and recruiters understand the process as well as assist them in registration. Approximately 150 students met with recruiters throughout the evening.
Students from the introductory financial accounting class were encouraged to attend so they could be introduced to the opportunities available for accounting majors. Comments from students, faculty and recruiters verified that the evening was a success.

In the Spring of 2006, the Accounting Department and the New Mexico Society of CPAs hosted a symposium on attracting and retaining individuals to the CPA profession. This program was attended by over 50 CPAs and also representatives from New Mexico State University. Various ideas were developed at the program and several task forces were formed to advance the ideas generated in the give-and-take sessions. This is the first time that so many CPAs joined together in the state to address the "pipeline problem" facing the profession.

PROMOTIONS, SABBATICALS, SEPARATIONS, AWARDS
DEPARTMENT OF ACCOUNTING

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

Alistair Preston
served as Associate Dean from August 2005 – June 2006

Rich Brody
hired as an Associate Professor specializing in Assurance Services and Fraud Investigation
Accounting

Michele Chwastiak was on sabbatical

Joni Young was on sabbatical

Thomas Epperson and Dennis Sterosky were hired as Visiting Lecturers to teach classes for faculty who were on sabbatical

Tom Mouck retired

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
Michele Chwastiak
Publications:

Papers Reproduced in Books:
“Deconstructing the Principal-Agent Model: A View from the Bottom,” in Funnell, W. & Williams, R. (Eds.), Critical and Historical Studies in Accounting (Sydney: Pearson Education Australia, 2005)

Presented Papers:

Interdisciplinary Perspectives on Accounting, Cardiff, Wales (2006): “Accounting For War”


James R. Hamill
Publications


Invited Publications (not refereed)


Alistair M. Preston
Publications
Preston A.M. 2006. Enabling, enacting and maintaining action at a distance: An historical case study of the role of accounts in the reduction of the Navajo herds Accounting, Organizations and Society, Vol. 25, No. 4-5, pp. 559-578

Dennis F. Togo
Publications

Presentations


Craig G. White
Publications


Presentations

Joni J. Young
Publications


Presentations

Not Just Debits and Credits: Accounting, Rhetoric and Ethics presented as plenary address at 4th AHIC in Braga Portugal on September 8, 2005.

SERVICE ACTIVITIES
DEPARTMENT OF ACCOUNTING

Philip Bougen
Ad hoc Reviewer:
Accounting, Auditing and Accountability Journal
Accounting, Organizations and Society
Critical Perspectives in Accounting
European Accounting Review
Issues in Accounting Education Organization
Research in Accounting in Emerging Economies
Curriculum and Programs Committee, Anderson Schools of Management
Entrance and Credits Committee, Anderson Schools of Management
Faculty Advisor for Beta Gamma Sigma Honorary Society

Ann Brooks
Chair of Supervisory Committee for NM Educators Federal Credit Union
Became a member of the supervisory committee in October 2002. Assumed chair position in January 2003. Since assuming this position, I have been responsible for:
• Revised supervisory committee and Internal Audit charters and functions to better meet existing and emerging regulatory requirements
• Evaluate Internal Auditing staff
• Review Internal Control Questionnaires and Audit Work Programs
• Review Final Audit Reports
• Prepare requests for proposal for specialized audits
- Respond to member complaints
- Report Internal Audit results to Board of Directors

May 2004-Present: Member of national Committee on Students; Liaison to national Committee on Members for creation of virtual chapter environments

**ASM Committees/Teams/Projects/Activities:**

IT Task Team
C & P Committee
Lecturer Liaison to Administration
Scheduling Project
Facilities Committee
DL Technology Mentor to: David Harris, Santa Falcone, Alex Seazzu
ASM December 2005 Convocation
Faculty Meetings
Investment Center – Working with Dean Crespy in developing a plan for involvement of accounting students as internal audit staff

**ASM-Accounting Program Committees/Teams/Projects/Activities:**

Learning Outcomes Committee
Curriculum & Programs Committee
Distance Learning Technology Mentor to: Bob Tepper, Craig White, Alistair Preston

**Michele Chwastiak**

Editorial Board: *Accounting Forum*
Reviewer: *Accounting Forum, Critical Perspectives on Accounting, Accounting and the Public Interest*
Discussant, Moderator, Reviewer: Interdisciplinary Perspectives on Accounting Conference, American Accounting Association Annual and Regional Meetings, Critical Perspectives on Accounting Conference

**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.
Faculty Advisor for Association of Latino Professionals in Finance and Accounting

**James R. Hamill, Chair**

AICPA Council Member 2004-2005.
Department Chair – 2004 (presently serving)

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

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

Alistair M. Preston
Ad hoc reviewer for: 
*Critical Perspectives on Accounting*
*Advances in Public Interest Accounting*
*Accounting, Auditing & Accountability Journal*
*Abacus*
*European Accounting Review*
Served as Associate Dean during Fall 2005 and Spring 2006 semesters

Robert Tepper
Member-Colorado Society of CPAs and AICPA.
Coordinator and instructor for annual law clerk orientation program sponsored by the US District Court in Albuquerque, New Mexico
Assist law school career services in clerkship placement efforts every fall.
Member State Bar of New Mexico
Attended ASM Accounting Career Fair, thanked recruiters
Attended KPMG, Meyners & Co. and Grant Thornton open houses. Lunch with Accounting & Consulting Group and Grant Thornton.
Dennis F. Togo
Member of the Faculty Senate Curriculum Committee (FSCC), 2002 to present
Member of the Accounting Department’s Curriculum Committee, 2002 to present.
Recruiting Committee member, 1987 to present
Sandia Audit Intern Program Committee member, 1993 to present
Ad Hoc Reviewer for Accounting Education — An International Journal, Advances in
Accounting, Western Decision Sciences Institute Conference, Management Accounting and
Education sections for Southwest AAA.
Federated Schools of Accountancy Curriculum and Content Committee, 2000 to present.
Prepared a response for the FSA Board on the “Implications for Graduate Accounting Education
of the AAA’s Accounting Education: Charting the Course through a Perilous Future,” with Behn,
Campbell, Carnes, Heitger, Hollingsworth, Searfoss, and Stout.
IMA Campus Director for the University of New Mexico, 1993 to present
Stake Financial Auditor, Albuquerque West New Mexico Stake, The Church of
Jesus Christ of Latter-Day Saints, 2003 to present

Craig G. White
Accounting representative to Programs and Planning Committee 2004 – Current
Faculty Advisor Beta Alpha Psi – 2000 - Current
Faculty Advisor University of New Mexico Volunteer Income Tax Assistance Program 1999 -
Current
2004/2005 Ad hoc reviewer for Accounting and the Public Interest
2006 Ad hoc reviewer for Technovation
Board of Directors, Easter Seals New Mexico 1998 – Current
New Mexico State Society of CPAs Member/Market Committee Member 2002 – current
New Mexico State Society of CPAs – Nominating Committee member 2006
New Mexico State Society of CPAs Member/Market Committee Chair 2006

Joni J. Young
Member of editorial boards of:
Member of editorial boards of Accounting, Organizations and Society, (2005-present),
Accounting and the Public Interest (2002-present),
Accounting, Auditing and Accountability Journal (2002- present)
ASM Scholarship Committee (1999-present)
Accounting Organizations and Society(2005-present)
DEPARTMENT OF ORGANIZATIONAL STUDIES

Chair: Jacqueline N. Hood  Professor

Full-time Faculty:  Ackerman, John  Lecturer
Arthur, Michelle  Associate Professor
Champoux, Joseph  Professor
Cunliffe, Ann  Associate Professor
Del Campo, Robert  Assistant Professor
Logsdon, Jeanne  Professor
Muller, Helen  Professor
Parkman, Allen  Professor
Smith, Howard  Professor
Thomas, Doug  Assistant Professor
Van Buren, Harry  Assistant Professor
Young, John  Professor

Part-time Faculty:  Albright, David  Hoffman, Nick
Carrillo, Amanda  Hopkins-Loy, Alice
Cherino, Jr., Albert  Lambert, Todd
Clani, Michael  Mann, Nikki
Corzine, Jan  Porter, James
Drozdal, John  Poyourow, Robert
Dry, Eddie  Rigney, Rebecca
Espinosa, Judith  Romisher, John
Faber, Daniel  Ruvolo, Cinnamon
Garcia, Jose  Sandoval, Paul
Giamo, Sam  Waldman, Larry
Hickey, Howard  Wright, Gerald

SIGNIFICANT DEVELOPMENTS, SPONSORED ACTIVITIES

• Jaye Francis, Coordinator of The American Indian Business Association (AIBA), along with the members of AIBA had a very successful, active year which included the organization of the First Annual International Indigenous Business and Entrepreneurship Conference held at the Sandia Resort and Casino on June 19-22, 2006. The conference brought together international and domestic academics and indigenous entrepreneurs and policy-makers interested and/or involved in Indigenous business and entrepreneurship. The conference was a great success.

• Harry Van Buren serves as a board member of CANNICOR (a non-profit social research organization focusing on the finance sector). He also serves as Program staff to the Social Responsibility in Investments and the Economic Justice Loan Committees, Episcopal Church, New York, NY.

• Robert Del Campo serves on the University of New Mexico Special Admissions Committee and is also a member of the Steering Committee for the formation of Albuquerque/New Mexico Chapter of the National Society of Hispanic MBAs.

• Jeanne Logsdon serves on the following committees and task forces – University Provost Search Committee, University Conflict of Interest Task Force, and the Faculty Senate Representative to the Regents Finance and Facilities Committee.
• Ann Cunliffe serves on the UNM Senate Graduate Committee, the SGC Curriculum Subcommittee, and the Anderson Schools Dean’s Advisory Committee.
• Jacqueline Hood is President-Elect of the UNM Faculty Senate and serves on the UNM Faculty Senate Operations Committee. She also serves on the Provost’s Strategic Planning Committee and on the Provost’s Planning Council. She was named by the New Mexico Business Weekly to its annual list of Women of Influence in the State of New Mexico. According to the Business Weekly, “Over a 20-year career in organizational development, Hood has perfected the art of seeing into the heart of why businesses work—or don’t work—the way they do.”
• John Ackerman was elected as Board Chair of Integridad, a statewide ethics consortium (education, for profit business, not-for-profit organizations, and government) focused on creating, supporting, and sustaining ethical cultures and conduct within all organizations. ASM’s partnership with Integridad includes housing it in the Management Development Center at ASM, assisting in the training, and sharing revenues generated by the consortium that exceed operational costs. John also continues as ASM faculty representative for New Mexico Ethics in Business Award student evaluations in which undergraduate classes gain experience in real-life ethical situations by assessing the potential recipients’ qualifications for the Award.
• DOS hosted a reception in Fall 2005 to thank DOS faculty and adjunct faculty for their contributions.

**APPOINTMENTS, PROMOTIONS AND SEPARATIONS**

**DEPARTMENT OF ORGANIZATIONAL STUDIES**

• Karen Patterson was hired as a Visiting Assistant Professor of Strategic Management. Karen received her Ph.D. from Texas Tech University.
• Visiting Lecturers hired including extension/continuation of Dr. Paul Sandoval, Nikki Mann, and Rebecca Rigney all for 05-06.
• Allen Parkman, Professor, retired from the Anderson Faculty after many years of service.
• Howard Smith resigned to take on the position as Dean of the College of Business and Economics at Boise State University.
• John Young resigned as Professor of the Anderson Schools of Management after 18 years of service.

**INTELLECTUAL CONTRIBUTIONS**

**DEPARTMENT OF ORGANIZATIONAL STUDIES**

**John Ackerman**

**Presentations**

Women Connected, July 12, 2005 “Ethics and Your Employees; Who Are You Hiring?”

American Council of Engineering Companies, Aspiring Principles Program, October 18, 2005 “Leadership & Character Session, workshop speaker and facilitator.”


**Michelle Arthur**

**Publications**


**Paper Presentation**

Honors, Awards, Grants
Anderson Schools of Management recipient of the Library Recognition Award, February, 2006.

Joseph Champoux
Print Books/Monographs


Electronic Books

WebTutor™ for Organizational Behavior: Integrating Individuals, Groups and Organizations, 3e. Mason, Ohio: Thomson South-Western, 2006 (On-line student study guide).


Other Book/Electronic Book Contributions


Papers/Workshops Presented


Professional Development Workshop co-organizer and participant: “Moving Images: Cinema in the Classroom.” Academy of Management meeting, August 6, 2005, Honolulu, Hawaii.


Professional Development Workshop organizer and participant: “Film Scenes as Bases for Experiential Exercises.” Academy of Management meeting, August 7, 2005, Honolulu, Hawaii.

Chair and discussant, “Research in International and Cross-Cultural Issues.” Academy of Management meeting, August 10, 2005, Honolulu, Hawaii.


Ann Cunliffe
Books

Published Book Chapters

Non-refereed Publications


Conference Presentations
Chair, Managerial knowledge and skill development. Academy of Management Conference, Honolulu, Hawaii, 2005.


Invited Paper Presentations

Presentation to faculty and PhD students, “Studying identity: Theoretical challenges and interpretive practices,” Lancaster University, UK, January 2006

PhD seminar on research methods, Leeds University, UK, January 2006

Peer Reviewed Presentations


Editorial Positions
Associate Editor, Management Learning

Associate Editor, International Journal of Qualitative Research in Work and Organizations. (New journal).

Editorial Board, Organization Studies


Editorial Board, Organization Management Journal, Teaching and Learning Section. (Eastern Academy of Management)

Honors and Awards
April/May/June 2006: 5 articles on the ‘50 Most Frequently Read/Cited Articles List’: Journal of Management Education (13/50); Journal of Management Inquiry (18/50); Management Learning (38/50); Organization Studies (40/50); Administration and Society (10/50).


Awarded the MED Division’s Best Symposium for ‘Making CMS Relevant to Practice: Teaching from a Critical Perspective.’ Symposium organizer and presenter.

Robert DelCampo
Publications


Conference Presentations


Invited Presentations


**Jacqueline Hood**

Publications


Case Publication


Presentations


Invited Presentations


“Creating and Fostering the Learning Environment,” invited presentation for a panel at Sandia National Laboratories, Division 10000, July 2005.

Jeanne Logsdon

Books and Edited Volumes


Chapters in Edited Books


Articles in Refereed Journals


Refereed Conference Proceedings Papers


Other Refereed Academic Papers/Presentations


Other Academic Presentations
Logsdon, Jeanne M. 2006. "Contributions of Dr. Martin Luther King, Jr. to Management Scholarship and Practice." Organizer and speaker at jointly sponsored Professional Development Workshop, Academy of Management annual meeting, Atlanta, August.


Logsdon, Jeanne M. 2005. “Selecting the Right Text(s) and Other Course Materials.” Invited presentation at the AACSB International Teaching Business Ethics Conference, Boulder, CO, July.

Helen J. Muller
Book Chapters

**Douglas Thomas**

**Presentations**

Logsdon, Jeanne, Thomas, Douglas E., & Van Buren III. Comments on Corporate Social Responsibility in Large Mexican Firms. Accepted for presentation at Symposium, Corporate Citizenship in Latin America, 2006 International Association of Business and Society Conference, Merida, Mexico.

Van Buren III, Harry & Thomas, Douglas E. Social responsibility through information disclosure and consumer choice: The case of the media industry. Accepted for presentation at 2006 International Association of Business and Society Conference, Merida, Mexico.

Van Buren III, Harry, Logsdon, Jeanne & Thomas, Douglas E. The evolution of corporate social responsibility in Mexico. Accepted for presentation at 2006 International Association of Business and Society Conference, Merida, Mexico.

Thomas, Douglas E. & Eden, Lorraine, Hitt, Michael A. & Miller, Stewart R. Experience of emerging market firms: explaining developed market entry and survival. Accepted for presentation at the 2005 European International Business Academy conference (Oslo, Norway) and 2005 Copenhagen Conference on Strategic Management (Copenhagen, Denmark).


**Harry Van Buren**

**Refereed Publications**


**Other Publications**


**Paper Presentations and Proceedings**


**Invited Academic Lectures**


**Honors, Grants, and Awards**

Awarded $8,000 from the Anderson Schools of Management for “The social capital of Native American entrepreneurs: Why networks matter” (with Jacqueline Hood, University of New Mexico).

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

2005-2007 A.Y., $199,963 mentor-protégé grant for minority businesses from the U.S. Navy. Working with Control System Research (CSR) and Interstate Electronics Corp., a division of L-3 Communications.

Refereed Publications

Refereed Presentations
DEPARTMENT OF FINANCE,  
INTERNATIONAL AND TECHNOLOGY MANAGEMENT

Chair:  Suleiman Kassicieh (July-Jan)  Professor, Albert Franklin Black  Professorship  
Raul deGouvea (Feb-June)  Associate Professor

Full-time Faculty:  
Leslie Boni  Assistant Professor  
Jim Cormier  Lecturer  
Dante DiGregorio  Assistant Professor  
Andres Salazar  Professor, PNM Chair in Microsystems  
John Schatzberg  Professor, Sandia Federal Lectureship  
Gautam Vora  Professor, Sandia Federal Lectureship  
Steve Walsh  Assoc. Prof., Albert Franklin Black Prof of Entrepreneurship

Part-time Faculty:  
David Bruce  
Howard Hickey  
Douglas Manz  
George Sanzero  
Deborah Pierson  
Thomas Becker

SIGNIFICANT DEVELOPMENTS, SPONSORED ACTIVITIES
Summer semester 2005- The Anderson Schools of Management and members of the FIT Department at The University of New Mexico hosted 20 Executive MBA students from a private university in Sao Paulo, Brazil. The students, from the Fundação Armando Álvares Penteado University (FAAP) spent two weeks at The Anderson Schools as part of an international exchange study. They took classes in Organizational Behavior and Diversity, Electronic Commerce, Management of Services and Mergers and Acquisitions, taught by Anderson Schools’ faculty members Dante Di Gregorio, Jackie Hood, Sul Kassicieh and Steve Yourstone. The students were accompanied by 2 professors. Many research grants were generated by members of the faculty. They include:


S. Kassicieh, “Surrogate Entrepreneurship,” grant awarded by Kauffman Foundation for $30,000, November 2005

Dante Di Gregorio and Doug Thomas received a Title VI-B Business and International Education grant from the US Department of Education. The grant will provide approximately $220,000 over a two-year period to expand ASM’s international programs related to technology entrepreneurship and sustainable enterprise in Latin America.

International Small Business Journal Workshop Grant  $15,000
Workshop for the development of understanding on the hurdles faced by emergent technology based entrepreneurial enterprises.

McCune Grant  $50,000
Co-investigators Steve Walsh and Craig White working with the McCune foundation in an effort to generate a economic development impact by improving efforts with STC.
Sandia New Mexico Small Business Administrative Programs. Approximately $100,000 Kassicieh, S. PI's and Walsh, S. Co-PI, 2005.

2005 Internships Granted (Internships Paid directly to students)
Mesa Internship (1700) Year long internship $40,000/year
Sandia National Labs tech transfer 2 Interns (yearly) $40,000
Zyvex (2 Interns) $40,000

Andy Salazar received 5 contract awards totaling over $150K for the Center on Entrepreneurship and Innovation including 2 from the Kauffinan Foundation, NCIIA, SATOP and LANL.

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

Raul de Gouvea chaired a very successful IIBEC Conference in June of 2006. The International Indigenous Business and Entrepreneurship Conference and Expo brought together international and domestic academics and indigenous entrepreneurs and policy-makers and participants who were interested and/or involved in Indigenous business and entrepreneurship. IIBEC took place June 19 – June 22, 2006 at the Sandia Resort and Casino. The conference agenda included three days of academic workshop sessions, receptions, luncheons, a gala banquet, an Indigenous business expo, and cultural performances.

**SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE**

**DEPARTMENT OF FINANCE, INTERNATIONAL AND TECHNOLOGY MANAGEMENT**

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

**APPOINTMENTS, PROMOTIONS, SEPARATIONS**

**DEPARTMENT OF FINANCE, INTERNATIONAL AND TECHNOLOGY MANAGEMENT**

Two new finance faculty, Gitit GerGershgoren and Kyle Wells, were hired as Visiting Lecturers.

Faculty member Leslie Boni took a leave without pay for the Spring 2006 semester and Jana Hranaoiva decided to terminate her contract with ASM and did not return during this report period.

Initiated a Faculty search for 3 finance positions in Spring 2006.

Sul Kassicieh was awarded The Anderson School of Management Endowed Chair in Economic Development and was appointed Associate Dean for Research and Economic Development. He also served as the Interim FIT Department Chair during the Fall 2005 semester.

Raul de Gouvea was appointed FIT Department Chair during the Spring 2006 semester.
INTELLECTUAL CONTRIBUTIONS
DEPARTMENT OF FINANCE, INTERNATIONAL AND TECHNOLOGY MANAGEMENT

Leslie Boni
Publications


Raul De Gouvea
Publications


Program Presentations Referred

Dante DiGregorio
Publications


Sul Kassicieh
Publications

No.2, p.155-166.


**Andy Salazar**

Publications


**John Schatzberg**

Publications

“PEG Investing for Growth Stocks Revisited,” (with G. Vora), Presented at the 2005 Western Decision Sciences Meetings (Spring 2005), Vancouver BC. A previous draft was presented at the New Mexico CFA Society, NM (October 2004).

**Gautam Vora**

Publications


**Steve Walsh**

Publications

Books


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

**Book Chapters**

**Academic Journals**


**Service Activities**

**Department of Finance, International and Technology Management**
Dante DiGregorio
Executive Committee, UNM/NM Tech/NMSU Consortium PhD Program in Management of Technology
Advisory Board, Lobo Venture Lab, UNM Science & Technology Center, 2005 to present
Support role as academic partner to an unsuccessful $400,000 grant application for the US Department of Commerce, Market Development Cooperator Program (with the International Business Accelerator)
Chair (2006), Operations Committee, Latin American & Iberian Institute, UNM (allocates funding for special programs, library acquisitions, and fellowships)

Raul deGouvea
Chair of the IIBEC Conference
Trade mission – state of Amazonas – state of New Mexico
Advisor for International business students

Sul Kassicieh
Director of Management of Technology Program, 1994-present
Board member of MaNCEF, Micro and Nano-technology Commercialization Educational Foundation, 1999-present.
Board Member of the New Mexico Private Investors (Angel Network), 2002-present.
Andy Salazar
Member of Prince of Asturias Endowment Committee (2004-);
Member of ASM Curriculum and Programs Committee (2003-5);
Member of regional development organizations – NextGen (advisory board) and RDC (board member);
Adjunct staff member of NM State Dept of Economic Development – Operations Chair of Microsystems/Nanotechnology Partnership (MiNaTeP)
Member of UNM Faculty Intellectual Property Committee, representing ASM. 2002-present.
Member of Areas of Marked Distinction Committee. (office of the Provost) 2003-present.
Member of the Prince of Asturias Endowment Committee. (office of the UNM President); 2004-present
Co-Chair of “Microsystems cluster” committee of NextGen, a CRO agency based in ABQ. 2002- present.
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
Advisory Board Member of NextGen, a CRO agency, partly funded by DOE for economic development in Central New Mexico. 2004-present
Chair of the Microsystems Planning Committee; NM Dept of Economic Development Department, 2004 – present. (Preparation of Technology legislation)

John Schatzberg
Finance Student Advisor (Fall 2005 to present)
Coordinated ASM Department Chair Review (Summer 2005)
Received congratulatory letter from President Caldera relating to AACSB reaccreditation (Fall 2005)
ASM Curriculum Committee (Fall 2005 to present)
ASM Entrees and Credits Committee (December 2005 to present)
ASM Parish Library Committee (Fall 2005 to present)
Recruiting Committee for 3 Finance positions (Fall 2005)
Ad hoc referee for the Annals of Operations Research and Computational Statistics & Data Analysis
State of New Mexico Finance Articulation Committee – Fall 2005 to present
Volunteer - JDRF Fundraising walk: Fall 2003 to Fall 2005
Volunteer - JDRF Fundraising Golf Tournament: Summer 2005

Gautam Vora
Director, CFA Society of New Mexico 2004-todate.
Program committee of Financial Management Association 2005
President of the New Mexico chapter of the American Association of Individual Investors since 1998.
Conflict-of-Interests Committee, 2003 to date
Director, Glenwood Hills Casa Grande Neighborhood Association, 2000 – to date.

Steve Walsh
Mentored student Projects that directly support New Mexico Businesses for nearly for close to 100 firms from all parts of New Mexico (form 1998 through 2005)
Board of the MESA University at Sandia
Co-developer of the TVI grant for SWRE award from NASA, and NSF
Member of the organizing panel for the TCA experts serie
State of New Mexico Economic Development All-Star
MARKETING, INFORMATION, AND DECISION SCIENCES

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

**Full-time Faculty:**
- Gerald Albaum - Visiting Scholar
- Kenneth Baker - Associate Professor
- Thomas Becker - Lecturer
- John Benavidez - Lecturer
- Ranjit Bose - Professor
- Stephen Burd - Associate Professor
- Dwane Dean - Assistant Professor
- Nick Flor - Assistant Professor (tenured & promoted June06)
- David Harris - Lecturer
- Howard Kraye - Lecturer
- Catherine Roster - Assistant Professor
- Laurie Schatzberg - Associate Professor (50%)
- UNM Assistant Academic VP of MIS (50%)
- Alex Seazzu - Lecturer
- Linda Shul - Lecturer
- Doug Stewart - Assistant Professor
- Jack Su - Assistant Professor
- Steven Yourstone - Assistant Professor

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

**SIGNIFICANT DEVELOPMENTS, SPONSORED ACTIVITIES**

**DEPARTMENT OF MARKETING, INFORMATION, AND DECISION SCIENCES**

The mission of the Department of Marketing, Information, and Decision Sciences is to develop and inform business and management leaders through a balance of teaching and scholarship, and to contribute to economic development and the quality of life of our constituents.

The MIDS faculty members strive for a balance between teaching and research efforts in meeting the needs of employers and taxpayers for well-trained graduates capable of making an immediate organizational contribution, advancing academic theory and practice in our respective disciplines, and providing direct or indirect professional assistance to private and public organizations in the State of NM.

The MIDS Department will be instrumental in ASM’s general economic development efforts as well as more focused rural and local technological development initiatives. The MIDS department has been a leader in the implementation of the wireless classroom, WebCT instruction, immediate response systems for the classroom, and rigorous research in these areas of pedagogy.
The immediate focus of the MIDS Strategic Plan is to improve the quality of our educational offerings, meet main campus student demand, and increase research productivity without significant additional resources. The Operations Management and Marketing Concentrations are integrated into a dual major allowing for increased efficiency by sharing faculty and courses. MIS is in the process of restructuring the BBA and MBA concentrations to improve teaching productivity. The faculty in all three of these areas recognize the synergies between the areas and the potential to improve both research and teaching productivity. Marketing is the interface with the consumer of goods and services, operations management provides the delivery systems for goods and services, and MIS provides the enabling technologies to integrate and coordinate the flows of goods and services to the market.

In the coming academic year MIDS plans to increase faculty research productivity and teaching productivity. A Management 300 class will launch in WebCT format. All sections of Operations Management, at the BBA and MBA levels will move to online graded quizzes, problem sets, and exams. This will further both the ASM wireless initiative as well as allow faculty to spend more time in the research domain.

The following sections highlight accomplishments of MIDS faculty during the 2005-2006 academic year.

**INTELLECTUAL CONTRIBUTIONS**

**DEPARTMENT OF MARKETING, INFORMATION, AND DECISION SCIENCES**

**Albaum, Gerald**


**Baker, Kenneth**


**Bose, Ranjit**


**Bullers, William, Jr.**


**Burd, Stephen D.**


**Dean, Dwane**


**Flor, Nick**


“Schema Blending and Stable Structure in Online Social Systems.” 2005 *Proceedings of the IADIS International Conference on Web Based Communities.* (with Coulson, S. & Maglio, P.)


**Roster, Catherine**

“Online and Traditional Modes of Survey Data Collection: Response Rate and Data Quality Considerations,” in *Proceedings of the Fifth International Business and Economy Conference,* Honolulu, Hawaii, 2006, with Albaum, Gerald, Robert D. Rogers, George C. Hozier, Jr., and Kenneth G. Baker.

“Are There Central Tendency Errors in Simple Rating Scales?” *Proceedings of the Cross Cultural Research Conference 2005,* Cancun, Mexico, with Gerald Albaum, Robert Rogers, and Julie Yu.


**Schatzberg, Laurie**


**Stewart, Douglas**


**Su, Jack**

**Yourstone, Steven**

### Teaching

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

**Bullers, William**
- A leader in the implementation of the wireless classroom through teaching MIS classes on laptops.

**Burd, Stephen**
- Continued incorporation of web-based learning and teaching into regular classes
- Use of latest software development tools and network operating systems to support MGT 331 and 437
- Continued updated of technical material covered in MGT 337 and my textbook Systems Architecture

**Flor, Nick**
- A leader in the implementation of the wireless classroom through teaching programming classes on laptops.

**Kraye, Howard**
- A lead implementer of the wireless classroom at ASM. A co investigator for $10,000 research grant from McGraw Hill Irwin to scientifically study the use of “clickers” in the classroom.
- Use of several textbooks during the same semester to broaden his knowledge of POM, and therefore to benefit the students.
- Many student projects in the business community to evaluate and to develop improvement plans for the operations.

**Roster, Catherine**
- A leader in the implementation of the wireless classroom through teaching marketing research classes on laptops.

**Schatzberg, Laurie**
- Several Excel workshops for students to learn and improve Excel skills for use in the classroom and the workplace.

**Yourstone, Steven**
• A lead implementer in the use of wireless technologies in the classroom. These technologies include the use of wireless laptops and immediate response systems known as “clickers.”
• The principle investigator for a $10,000 research grant from McGraw Hill Irwin to study the use of “clickers” in the classroom.

SERVICE ACTIVITIES
DEPARTMENT OF MARKETING, INFORMATION AND DECISION SCIENCES

Baker, Kenneth
• Associate Dean through mid-August 2005, including preparation for AACSB reaffirmation in Fall 2005.
• Administrator for BBA Degree Completion Programs at UNM Gallup and UNM West.
• Administrative committee representative to every ASM committee as Associate Dean.

Benavidez, John
• Cadillac competition for promotion design award for MBAs.
• ASM curriculum and programs committee
• UNM SUB faculty representative
• UNM faculty senate teaching enhancement committee
• Faculty adviser to UNM American Marketing Association Student Chapter.

Bose, Ranjit
• Chair, ASM Policy and Planning Committee
• Dean’s Advisory Committee
• MIS area coordinator/ MIS Concentration Student Adviser (2005).

Burd, Stephen
• Secretary of the New Mexico Telehealth Alliance.
• Project Echo.
• Member, Four Corners Telehealth Consortium
• Member, NM Regional Health Information Organization Planning Group
• ASM C&P chair

Flor, Nick
• Member of UNM Faculty Senate Graduate Committee
• Chair, UNM SGC Curriculum Subcommittee
• Member of Curriculum Terminology Task Force
• Reviewer for Popejoy Dissertation Awards
• NNME Digital TV Task Force

Harris, David
• ASM IT Committee
• ASM Strategic Plan Committee
• Member of Dissertation Committee, Kristi Stewart, Department of English
• Work with CVI Laser to develop a project management education and training program.
• Rio Grande Water Quality Standards Working Group—technology and project management support.

Kraye, Howard
• ASM Ad-Hoc Facilities Committee
• ASM Student Advisory Center efficiency study
• Class scheduling analytical support for Associate Dean’s office
• UNM Athletic Department recruit host for football team members
• Consultant and guest speaker for Technology Ventures Corporation. Helping to prepare business plans for new businesses.
• Team leader for NM Quality Awards
• Volunteer Science Fair judge for state, regional, and local competitions.

Roster, Catherine
• Volunteer work for the PNM foundation.
• Judge for UNM Research and Creativity Symposium

Schatzberg, Laurie
• (Half-time appointment) Faculty Representative to UNM Project LINK and UNM Assistant Academic Vice President for Management Information Systems. Various subcommittees.
• Registration Chair & Treasurer, SIGMIS CPR Conference.
• Vice President, ACM SIGMIS.
• Board Member, Juvenile Diabetes Research Foundation, Desert Southwest. Forum moderator, trainer & contributor for JDRF/MedHelp Online Forum.
• Mediator, Albuquerque Metro Court.
• Consultant, Sandia National Laboratories
• UNM Faculty Senate Representative for ASM.
• UNM Faculty Senate Computer Use Committee.
• Chair of the Virtual Academic Advisory Committee for LINK.
• Advisory Committee Member, UNM Faculty Dispute Resolution Center.
• Advisory Committee Member, UNM Center for the Advancement of Scholarship of Teaching & Learning (CASTL).
• Mediator & Coach, UNM Faculty Dispute Resolution Center.
• Workshop Instructor, 2004 UNM Institute for Public Law program.

Seazzu, Alex
• UNM Wireless Committee
• UNM Security Committee
• UNM AMI (Advanced Media Initiative) Committee
• UNM AD Design Committee
• ASM coordinator for College Cyber Defenders Program (student internship program), Sandia National Laboratory
• Guest security speakers from SNL and FBI in security classes.

Stewart, Doug
• Member of ASM Facilities Task Force.

Su, Jack
• Adviser for the UNM Taiwanese Student Association

Weber, Mary Margaret
• MIDS Department Chair through July 31 & chair activities through September.
• Marketing & Operations Management Area Coordinator.
• Marketing Faculty Search Committee Chair.
• APICS Board of Directors.
• MGT522 marketing plan for Center for High Tech Materials NSF nanotechnology grant.
• ASM Hall of Fame, executive lecture series.
• Guest speakers in MGT720 (e.g., Eric Pilmore, Jim Constand).

Yourstone, Steven
• Chair of the ASM facilities and infrastructure committee
• Active member of the Faculty Senate Undergraduate Curriculum Committee
• Conference Session Chair, Decision Sciences Institute National Meeting, San Francisco, California. November 2005
• UNM Classroom Technology Committee
• Attendance at the Anderson Schools of Management Hall of Fame dinner. April 2005
• Attendance at the University of New Mexico Commencement Ceremonies May 2005, December 2005, and May 2006.
• Attendance at the Quality New Mexico annual awards conference.
• Attendance at American Indian Business Student Association 9th Annual Awards Banquet. April 2005
SCHOOL OF PUBLIC ADMINISTRATION

ANNUAL REPORT July 1, 2005 – June 30, 2006
Submitted by Linda Barril – Department Administrator

Director       Bruce J. Perlman – through December 2005
Interim Director   F. Lee Brown – March through June 2006
Full-time Faculty  Santa Falcone
                     Constantine Hadjilambrinos
                     Bruce Perlman – through December 2005
                     Zane Reeves
                     Mario Rivera
                     Roli Varma

Leave of Absence  Bruce Perlman – January 1 – June 30

Part-time Faculty  David Turner
                     Anna Lamberson
                     Gregory Gleason
                     Randall Van Vleck
                     Franklin Reinow
                     Clifford Rees
                     Alan Reed

SIGNIFICANT DEVELOPMENTS

- SPA Director, Bruce Perlman, accepted Chief Administrative Officer position with the City of Albuquerque
- Interim SPA Director named – F. Lee Brown
- Decision by Provost Dasenbrock to permanently maintain the School of Public Administration as an independent unit reporting administratively to the Office of the Provost
- New Administrative Assistant 2 hired in May
- Accreditation site visit conducted in March by the National Schools of Public Affairs and Administration (NASPAA)
- School of Public Administration received re-accreditation through 2011-2012
- Began offering the Accelerated Master of Public Administration (AMPA) option for students in January. Summer AMPA courses were also offered. (approval for AMPA had been made by the Office of the Provost the previous year)

SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE

- National Search for SPA Director
- Continued development of SPA goals, objectives, and organizational growth proposal consonant with decision of Office of the Provost on reporting arrangements.
 conductor review of existing concentrations and supporting curriculum to improve fit with resources as well as new organizational arrangements and goals.

- Continued examination of SPA goals and direction.

**APPOINTMENTS, PROMOTIONS, SEPERATIONS**

- Assistant Professor, Constantine Hadjilambrinos, submitted tenure paperwork and began the review process.
- Associate Professor, Roli Varma, has submitted paperwork for review for becoming a full professor.

**PUBLICATIONS, OUTSIDE PROFESSIONAL ACTIVITIES, OUTSIDE SPONSORED RESEARCH**

Dr. Santa Falcone

**INTELLECTUAL CONTRIBUTIONS**
Professor Santa Falcone, School of Public Administration

<table>
<thead>
<tr>
<th>Category</th>
<th>Publication</th>
<th>Specifics</th>
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<tbody>
<tr>
<td>Journals (with full length articles, vol, issue, pages, year)</td>
<td></td>
<td>(Print or electronic publication; peer or not reviewed; funded amount; conference details; etc.)</td>
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<tr>
<td></td>
<td>&quot;Leveraging defense research: societal impact of the transfer of polycrystalline diamond drill bit research&quot; S. Falcone, and D. Bjornstad Comparative Technology Transfer and Society. 3:3 December 267-300. - 2005</td>
<td>print, peer reviewed</td>
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<tr>
<td></td>
<td>&quot;Improving university library electronic services” S. Falcone and M. Rivera Performance Measurement and Metrics. 6:2 97-107 - 2005.</td>
<td>print, peer reviewed</td>
</tr>
<tr>
<td>Funded Research (Contracts and Grants - PI, Co-PI or consultant)</td>
<td>• “Religious Affiliation and Voter Behavior” Research Allocation Committee of the University of New Mexico grant, Falcone, S. - Principal Investigator. - 2004</td>
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</table>
| Conference, Workshops (Papers presented) | • Insufficient funds for conference travel were allocated by Dr. Perlman to me during his recent tenure as SPA Director from Fall 2004 to December 2005. Dr. Holder allocated funds in March 2006 for me to attend two workshops in 2006 for training, not to present papers.  
• “A Friend in a Truly High Place: Religious Affiliation and Voting Behavior” for Anderson Schools of Management Research Seminars at the University of New Mexico on March 10, 2004.  
• “Religious Affiliation and Voting Behavior” at Northeastern Political Science Association conference in Boston, MA on November 12, 2004. |

**Research and Publication Goals for Academic Year 06-07**

1. publish articles under review for publication:
   “Motivations and Characteristics of Donors over 50” S. Falcone and M. Gevorgyvan
   “Religious Affiliation and Voting Behavior” S. Falcone
   “Bilingual mediation”. S. Falcone and M. Williams
   “Shortening the nursing shortage” S. Falcone and R. Besante
   “Access to the information reservoir” S. Falcone and M. Rivera

2. complete and submit for publication work in progress

**Summary of Instructional Innovations:**

2005
- revised and expanded Nutritional and Public Policy Class
- brought in 12 professionals in areas specific to the each week’s topic to present to Public Budgeting class
- developed new course prep for 590 Nonprofit Management, brought in nonprofit professionals and added requirement to class to partner with a nonprofit and prepare and submit an actual request for funding to a funding agency/foundation for the nonprofit for funds they needed for a specific purpose

2006
- developed online course materials for Public Budgeting, added new feature using new software, Camtasia, to create videos as tutorials for Excel
- developed new course prep for 590 Program Evaluation
- invested significant time and effort to assist in the development of Water Resources capstone course for Summer 2006

**Teaching Goals for Academic Year 06-07**

- train and learn new WebCT software, VISTA
- further develop skills in creating tutorials
- develop fourth online class for SPA
- completely revise Public Finance and Public Budgeting online classes

**SERVICE**

Professor Santa Falcone, School of Public Administration

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Specifics (Length of service; type of appointment, etc.)</th>
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<tbody>
<tr>
<td>Campus Community Service <em>(Service on UNM committees, work groups, etc.)</em></td>
<td>2006</td>
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<tr>
<td></td>
<td>- Member UNM Curriculum Committee, Fall 2005 - present</td>
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<tr>
<td></td>
<td>- Chair SPA Curriculum Committee, April 2006</td>
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<tr>
<td></td>
<td>- Member UNM Curriculum Terms Task Force, Summer 2005 - present</td>
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<tr>
<td></td>
<td>- prepare materials for Dr. Holder for review of SPA curriculum</td>
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<td></td>
<td>- prepare materials for Dr. Brown for questions regarding number of faculty in SPA and credit hours for self study response</td>
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<td></td>
<td>- assisted in transporting NASPAA Site Visit team during their UNM visit</td>
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<tr>
<td>2005</td>
<td>- Attended training and meeting as faculty volunteer for LINK system implementation</td>
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<tr>
<td></td>
<td>- Trained UNM Faculty Mediator</td>
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<tr>
<td>2004 Assisted in first intercession analysis class</td>
<td>- Recruited and helped train (in WebCT and ITV) instructors to take classes during sabbatical</td>
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<tr>
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<td>- Met weekly with my professional paper students, fifteen completed</td>
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<tr>
<td>Public Sector Service <em>(Service for Government, not for profits and other related entities including consulting)</em></td>
<td>2006</td>
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<tr>
<td>• Met weekly with professional paper students, 16 in progress</td>
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<tr>
<td>• Met weekly with Public Finance students needing extra help</td>
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</table>

- Attended and supervised the videotaping of all SPA statistics classes
- Attended all SPA and ASM faculty meetings as required to obtain sabbatical.

2003
- Actively participated in all SPA Policy Committee and all SPA Curriculum Committee meetings
- Attended SPA faculty meetings and other meetings or functions about which I was informed.
- Served as SPA ex officio member on ASM P&P Committee
- Actively participated in development of ASM mission, goals
- Attended AACSB workshop in Santa Fe
- Prepared database of AACSB accredited schools to analyze peer and aspirant schools
- Attended marketing and finance research seminars
- Reviewed questions for SPA ICES and prepared revised ICES question list for SPA faculty to review
- Attended and supervised the videotaping of all SPA statistics classes
- Organized, attended and videotaped literature review training session for all SPA students with Parish librarians in CIRT pod on a Saturday in the Spring 2003 semester - 40 students attended
- Organized, purchased lunch for, attended and videotaped new student orientation, IRB training session in ASM classroom and literature review training session for all SPA students with Parish librarians in CIRT pod on a Saturday in the Fall 2003 semester - 52 students and staff attended
<table>
<thead>
<tr>
<th>Professional Community Service</th>
<th>2004</th>
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<tbody>
<tr>
<td>(Service for public administration/policy and other academic boards, societies, journals, associations, etc.)</td>
<td>2004</td>
</tr>
<tr>
<td>- NASPAA site visitor</td>
<td>Faculty Advisor UNM Student Organization: <em>Navigators.</em></td>
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<tr>
<td>- Initiated meetings with federal, state, and local procurement officials to explore development of official training in procurement to be provided by UNM.</td>
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<tr>
<th>Student Community Service</th>
<th>2006</th>
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<tr>
<td>(Service with student groups)</td>
<td>2006</td>
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<tr>
<td>- Faculty Advisor UNM Student Organization: <em>Navigators.</em></td>
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<td>- Faculty Advisor UNM Student Organization: <em>Justice for All.</em></td>
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<td>- Faculty Advisor UNM Student Organization: <em>Justice for All.</em></td>
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<tr>
<th>Social Community Service</th>
<th>2005</th>
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<tbody>
<tr>
<td>(Other service to local, state, national communities)</td>
<td>2005</td>
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<tr>
<td>- Gave public lectures on health promotion in community</td>
<td>Faculty Advisor UNM Student Organization: <em>Navigators.</em></td>
</tr>
<tr>
<td>- Served in Sound Department as an assistant sound technician for every service, in Tape Department for every service helped duplicate service audio tapes and log those tapes in a tape</td>
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</table>

- Conducting over the phone tutorials in Excel for approximately 10 students
- Twelve speakers from federal, state, and local government and a nonprofit organization have and will be presenting in the budgeting class.
- Met weekly with professional papers students, six in progress (some are formally registered in the class and others are in early stages).
- Met weekly with professional papers students, fifteen completed while on sabbatical, six in progress.
- Met weekly with professional papers students, six completed, twenty-four in progress.
## Service Goals for AY 06-07
1. serve as NASPAA site visitor
2. serve as UNM faculty mediator
3. request to serve as journal reviewer

### Dr. Constantine Hadjilambrinos

#### INTELLECTUAL CONTRIBUTIONS
Professor Constantine Hadjilambrinos, School of Public Administration

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<thead>
<tr>
<th>Category</th>
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<tbody>
<tr>
<td><strong>Journals</strong> (with full length articles, vol, issue, pages, year)</td>
<td>• Hadjilambrinos, C. “Restructuring the Electricity Industry in Britain and Norway” <em>IEEE Technology and Society Magazine</em>, Vol. 24, No. 4, Winter 2005, pp. 27-35</td>
<td>• <em>IEEE Technology and Society Magazine</em> is the quarterly journal of the Society on Social Implications of Technology (SSIT) of the Institute of Electrical and Electronics Engineers (IEEE). Articles are subjected to a blind peer review process.</td>
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<td></td>
<td>• Hadjilambrinos, C. (Forthcoming) “The High-Level Radioactive Waste Policy Dilemma: Prospects for a Realistic Management Policy” <em>Journal of Technology Studies</em>, Spring 2006</td>
<td>• The <em>Journal of Technology Studies</em> is the biannual journal of Epsilon Pi Tau, the International Honor Society for Professions in Technology. Articles are subjected to a blind peer review process.</td>
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<td></td>
<td>• Hadjilambrinos, C. and Rockwell, E. (Accepted, under revision) “Implementation of Public-Private Partnership Initiatives for Transportation Demand Management: Eight Case Studies from South Florida” <em>Transportation Journal</em>.</td>
<td>• The <em>Transportation Journal</em> is one of the top five international journals in the areas of transportation and logistics research. It reaches a wide audience of academics, practitioners, and policymakers in this field.</td>
</tr>
<tr>
<td></td>
<td>• Hadjilambrinos, C. (Under review) “From ECSC to European Union: A Historical-Institutional Analysis of Policymaking” <em>Journal of Policy History</em>.</td>
<td>• The <em>Journal of Policy History</em> is an interdisciplinary, peer-reviewed academic journal concerned with the application of historical perspectives to public policy studies. While seeking to inform social scientists and historians, the journal also seeks to inform policymakers through a historical approach to public policy.</td>
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<tr>
<td><strong>Invited</strong></td>
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- Read the Bible, books or did daily studies over the phone with 17 people (Jan-Oct).
Research and Publication Goals for Academic Year 06-07

I plan to continue my research in the areas of energy policy and environmental policy. I am working on three research papers: a paper on environmental studies in the context of public affairs education, a second paper on transportation demand management, and a paper presenting the results of a survey on prospective homeowner preferences for home energy efficiency features. I hope that all three will be completed and submitted to peer-reviewed journals within 2006-07. In addition, I am working with UNM colleagues from Political Science and Engineering who are participating in an on-going training and research effort in Kazakhstan to develop a policy component in the next phase of this program. I am also exploring the opportunities that New Mexico offers for research in the area of radioactive waste disposal (as the site of the only permanent high-level radioactive waste repository—the Waste Isolation Pilot Plant (WIPP)—and as the host of two important National Laboratories, both of which are involved in research on this issue). In this, I am working in collaboration with colleagues from UNM’s Institute for Public Policy.

Summary of Instructional Innovations:

My major new accomplishment in terms of instructional innovations in 2005-06 has been the re-development of Pub Ad 574 “Environmental Policy and Administration.” This is a course that had not been taught in several years and which, therefore, I had to develop and teach entirely anew.

Teaching Goals for Academic Year 06-07

The student evaluations of my teaching in the relatively short time I have been at UNM have been quite positive, especially considering the fact that four of the six courses for which ICES scores are available entailed new preparations for me, and also the fact that half of these courses were taught via ITV, a medium with which I had no experience prior to coming to UNM. My teaching goals for AY 06-07 are to continue teaching at this level. In Fall of 06 I will be, again, teaching two courses which I have never taught: Pub Ad 596 and Pub Ad 590—Natural Resources Policy and Administration. I hope that the Natural Resources course will become part of a (revived) Resources Policy/Administration concentration or certificate (I have an old brochure describing such a certificate that SPA used to offer).
### SERVICE
Professor Constantine Hadjilambrinos, School of Public Administration

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| **Campus Community Service** *(Service on UNM committees, work groups, etc.)*   | • Served 2005-2006, nominated for 2006-2007. The Faculty Senate Operations Committee is the executive committee of the senate. It prepares proposals, sets the agenda, oversee the work of all senate committees, etc.  
• Two terms: Fall 2004 through Spring 2006 and Fall 2006 through Spring 2008. |
| • Member of the Operations Committee of the Faculty Senate                      |                                                                          |
| • Faculty Senate representative for SPA                                          |                                                                          |
| **Public Sector Service** *(Service for Government, not for profits and other related entities including consulting)* | • Task force developed legislative proposals for promoting development of distributed solar energy systems in New Mexico. The first set of proposals for a rebate program were adopted by the 2006 NM legislative session.  
• Task force developed the legislative framework to promote concentrated solar power systems in New Mexico. The set of proposals was presented to the state legislature during the 2006 session. Also selected sites and design criteria for a 50 – 100 MW initial concentrated solar power project. |
| • Governor’s Task Force on Distributed Solar Power, New Mexico, August 2004-present. |                                                                          |
| **Professional Community Service** *(Service for public administration/policy and other academic boards, societies, journals, associations, etc.)* | • The National Association for Science, Technology and Society changed its name and its mission during my presidency, becoming the International Association for Science, Technology and Society. The Association mission is to bring together interdisciplinary thinkers from around the world who are concerned about the interrelationships among science, technology and society (STS), with a particular emphasis on the impact of science and technology on society. The Association organizes an annual conference. |
Service Goals for AY 06-07

For AY 05-06 I will continue the service activities I am already engaged in and add a new one: Chair of the SPA Admissions Committee. I also will continue serving on the Faculty Senate as the SPA representative, and possibly continue for a second term as a member of the Senate's Operations Committee. Another new service activity I would be willing to undertake is to help pursue grant opportunities for program development (such as for Muskie fellowships).

Dr. Bruce J. Perlman – None submitted – Dr. Perlman was appointed Chief Administrative Office for the City of Albuquerque in December 2005.

Dr. T. Zane Reeves

INTELLECTUAL CONTRIBUTIONS
Professor Zane Reeves, School of Public Administration

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<tr>
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<tbody>
<tr>
<td>Invited (Sponsored papers, talks, meetings, etc)</td>
<td>□ Presentation to NM Municipal League, annual conference in Roswell, NM, “Lessons from Human Resource Management,”</td>
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<td></td>
<td>□ Presentation to NM Municipal Clerks Conference, Santa Fe, 10/10/05, “Performance Evaluation Principles.”</td>
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Research and Publication Goals for Academic Year 06-07

I am conducting research and plan publication in two areas:

- **The Metaphorical Heart of conflict resolution.**
  The human heart historically has served as a “cognitive-linguistic metaphor” for feelings and emotions. The heart metaphor is found universally in religion, culture, philosophy, humanities and social sciences. It is distinct from the brain metaphor—a computer where logic and rationality is stored. The far more pervasive heart metaphor is a part of everyday speech, poetry, musical lyrics, and literature. Secondly, the metaphorical heart affects the ways humans perceive emotion and feeling as well as spirituality. As an argument may be perceived as war metaphor and life as a journey metaphor (Lakoff & Johnson, 1981; Kovecses, 2001), so the heart has evolved as a metaphor for organic emotions and feelings since the earliest human writings. “Conflict” is at “the heart” of every great story, plot, and opera. The “tragic figure” who cannot escape his/her emotions of the heart is an intriguing metaphor, but it suggests a predominance of heart over mind.

  This research specifically asks, **“How does the heart metaphor shape our view of conflict and dispute resolution?”** It begins with an overview of the pervasive nature of the heart metaphor in all forms of human expression and communication. The heart metaphor is then explored through the new brain research, which reveals that conflict is not perceived rationally or objectively, but rather through human emotions and needs. Thus, the emotions surrounding and defining conflict are described by participants as “from the heart” or “heartfelt.” Perceiving, thinking and acting upon conflict through the metaphorical heart emphasizes the predominance of emotion and feeling, which inevitably leads to increased conflict rather than alternative strategies for conflict resolution through peacemaking skills and dispute resolution techniques. The paper concludes with strategies for analyzing conflict by discarding the heart metaphor and replacing it with needs-based “emotional scanning.”

- **Emotion in Arbitration**
  This research questions the historical view that equates neutrality as a bedrock quality of neutrals who perform alternative dispute resolution. The foundation for the dispute resolution (ADR) industry rests in its neutrality. Disputants turn to particular mediators and arbitrators because of their impartiality. Numerous training programs and books are available to help ADR Practitioners hone their skills in staying unbiased. ADR professionals take pride in being called “neutrals.”
Emotion is usually thought of as something that arbitrators are prepared to control and suppress among witnesses, advocates, and themselves. To be “emotional” is to be unprofessional, irrational, and disruptive. However, recent brain research verifies that emotion is always present in communication among humans and may be seen on a continuum from “highly controlled” (i.e. Spock, Queen Elizabeth) to “highly expressive” (i.e. Robyn Williams, Bill Cosby, Captain Kirk), with most people fluctuating in between. Far from being totally “objective,” recent brain research corroborates that the brain is emotional and we think and act through our emotions.

Arbitration hearings may include the full range of emotions (fear, anger, sadness, joy, and arousal) as well as feelings of relief, resentment, envy, grief and love. Emotions and feelings as expressed by witnesses are even an underrated factor in determining weight in their credibility. Emotional manipulation is used by advocates to persuade, convince, and create doubt. Emotions expressed by arbitrators are seen as a cue to his or her leanings, proclivities, and thinking. Emotion is very much a part of every arbitration hearing and may be gleaned from the arbitrator’s final award.

**Summary of Instructional Innovations:**

**Personal statement of teaching philosophy and method**

- **Defining successful teaching:**

  I believe successful teaching occurs when a student accepts the principles taught in the classroom and applies them when making life choices with the result of believing that transforming change at work is both possible and desirable.

- **Teaching methods that I employ and why I use these approaches:**

  Every week prior to all my classes, students prepare written responses to questions designed to stimulate thinking. Student responses are submitted to me electronically via Webct. Questions are based on real case studies and thought-provoking scenarios that present conflicts and ethical dilemmas in the workplace. Each student is required to analyze the situation presented and support his or her choice of action as well as referencing: 1) assigned readings, 2) independent research and readings, 3) web sites, 4) and personal and professional experiences. Each answer receives an expeditious response from me via webct that always includes suggestions for improvement (this is all done electronically and no paper actually changes hands). This technology presents an opportunity for one-on-one feedback in confidence so that the student can share oftentimes personal and difficult workplace situations (this information is always confidential).

  During class, I make a presentation, either verbally or via power point to provoke discussion through the dialogue technique, wherein I ask a series of questions related to the issue under discussion. If the class is large I will break down the students into small groups and ask them to follow consensus-building techniques to reach an agreed upon-strategy or resolution. This way they learn to work constructively in teams. Afterward, we debrief the team decision-
making process with particular assessment of both positive and negative responses to team conflict resolution or dissention.

Finally, I assign an applied project for each team to complete, except in the core Human Resources course, that assesses whether course objectives are learned. It is critical that each issue presented to the teams focus on actual rather than fictitious situations. Issues for investigation during the last two years have the following challenges: 1) redesigning dispute resolution (DR) at the Air Force Academy (AFA) for sexual harassment, 2) a DR system at AFA for religious discrimination complaints, 3) formulating an approach to reconciliation of factions within the Episcopal Church who are split regarding ordination of gay clergy (final consensus presentations were made to various church representatives), 4) and a personal action plan for bringing about workplace transformation (see supporting materials).

My students are predominantly adult learners who learn from interaction with others as well as by responding to environmental stimuli rather than traditional classroom lectures. They learn primarily through individualized communication with me and the technology of web ct as well as through interaction with student consensus-building teams. Both approaches allow the student to explore principles, apply skills, and assume competencies that can be applied to their professional lives.

- **How these methods accomplish my course objectives:**

My objective is to demonstrate to students how they can learn beyond simply reading information and then either rejecting or accepting it based on their previous experiences. I want each student to learn how to assess descriptive knowledge through its applicability to conflict resolution and workplace transformation. Secondly, each student should develop skills for making constructive choices. Finally, I want them to believe that these skills should become unconscious abilities or habits of decision-making. My goal is to persuade them that they can change and transform the status quo by learning knowledge, developing skills, and applying these skills through continuing practice. They must be convinced that what they’ve heard described as the “real work world” can be changed through application of transformative principles.

In order to persuade students that they can transform the workplace and their own career goals, I strive for professional credibility. They have to be convinced that positive principles of transformation really work in the real world, that they are efficacious. I draw on my extensive experience in dispute resolution to persuade students to implement workplace change. I am a labor and employment arbitrator, mediator, and administrative fact finder who has conducted thousands of workplace hearings and investigations (see resume). Thus, I intersperse actual examples of organizational and interpersonal conflict along with options for resolution throughout our discussions. This allows students to envision consequences and outcomes in their own lives that are believable because they really happened in the “real world.” I give numerous examples of positive outcomes and “war stories” of how “bad things happen to good people” whenever respect, compassion and responsibility are ignored in workplace practice.
How I assess if students have understood and achieved what I intended after each class session, or after the course is completed:

In my two dispute resolution courses, I assess learning outcomes at the end of each class session and at the course’s conclusion by asking all students to respond to me individually (through webct) and collectively through small groups to these questions, “What do you intend to try to transform at work and how will things be different if you are successful?” I want each student to formulate a system for resolving disputes and share their plan with class members. If their plan involves personal or political strategies, we can discuss it via webct. In my workplace transformation seminar and collective bargaining courses, groups are given an actual arbitration or organizational dispute to resolve collectively.

How introspection about my teaching experience has affected my approach to teaching:

Introspection of my own spirituality has led me to deeply appreciate the following assertion: “People don’t care what you know, unless they think you care about them.” If students think that I don’t respect and care about them, they will not learn the principles we discuss. This underlying belief is translated specifically through the following actions with my students: 1) learn first names early and call upon the “quiet ones” to respond in class, 2) answer every webct and email within 24 hours (even though this semester I have 96 students in 3 courses), 3) always express appreciation and encourage improvement; never denigrate students nor their ideas, 4) encourage areas for improvement, 5) and state explicit expectations for the accomplishment of each grade level (see guidelines). By doing so, hopefully I demonstrate in practice three of my five core values—compassion, respect, and responsibility.

Two other guiding values also are central to my life and teaching—harmony and balance. I want students to reflect on their priorities and those of the organization where they work in order to determine whether they are congruent and, if not what they might do to correct this dissonance.

Assessment tools that I use to monitor or confirm students’ understanding, skill development, or intellectual growth:

Assessment of growth in understanding, skill building, and ethics is accomplished through individual communication between student and teacher. This is why webct interaction is so critical; it allows me to monitor the progress and growth of each individual student in dynamic ways. I no longer “grade papers” and return them to the students, assuming they understood what I have written. Webct allows us to communicate through dialogue and in private. Literally, I can track each student’s progress throughout the course as well as how they apply it to the final team project. If I encourage a student to search the literature or the web for opposing and collaborating perspectives when making a point, I can determine if, indeed it happens.
Webct also facilitates communication with the entire class and allows me to make adjustments when needed. “Teaching moments” are not limited to designated class times because at any time I can send out new or revised materials, articles or power point presentations, particularly if individual responses are confused or in need of additional clarification.

All syllabi and handouts are placed on library ereserves, which allows me to tailor readings to changing student needs or deficiencies that are discovered during a 15-week semester. By modifying ereserves as needed, I can respond to changing student needs during the semester.

This is not to assert that all students grow intellectually, develop new skills or acquire positive habits. I wish that were true. Expanding their comfort zone is difficult for many and often a threat to strongly held beliefs. My approach requires students to step out of customary modes of reading passively in search of answers. Instead, I ask them to become active and engaged by reflecting on and applying what the readings mean to them. There are students who complain of too much reading, not enough time, and that course requirements are too demanding. I have been asked upon occasion to scale down the course requirements to more “manageable” proportions. These few students are in a small minority and a vast majority express gratitude for the tools they gained and applied in changing the workplace.

**Teaching Goals for Academic Year 06-07**

- **Assessment I use to direct my own plans for improvement:**

  Student feedback is critical for my own improvement and intellectual growth. Perhaps in an undergraduate classroom where many students lack significant work experience, one could simply “coast” because of their lack of workplace knowledge (although I doubt it even there). My students are adults pursuing graduate degrees whose average age is approximately forty years; all have baccalaureate degrees, and most have decades of work experience. Most are returning to “school” after a period of absence from academic studies. For the most part, they seek to be emotionally stimulated and intellectually challenged. They are not disposed to accept a statement simply because it is said by a professor. I accept the emerging research that views the brain as emotion based and functions as continuously responding to its environment, rather than locked into formative patterns of development (I do believe that old dogs not only can, but want to learn new tricks).

  Thus, I must grow spiritually, emotionally and intellectually if I am to encourage passion and enthusiasm among adult students. I make time daily for my own growth in these areas and employ a myriad of examples, parables and case studies from many disciplines in order to provoke thoughtfulness in class. For example, three years ago I began assigning David Whyte’s *The Heart Aroused: Poetry and Preservation of the Soul in Corporate America* in my Workplace Transformation seminar and used his treatment of the Beowulf saga as an allegory for assessing various approaches to conflict resolution. In my Seminar in Conflict Resolution, I require students to respond to questions from Marshall Rosenberg’s *Nonviolent Communication: A Language of Life*, and the Dalai Lama’s *An Open Heart: Practicing
Compassion in Everyday Life. I assign these and other readings because it stretches my own imagination and I see similar results in my students.

**SERVICE**
Professor Zane Reeves, School of Public Administration

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Specifics (Length of service; type of appointment, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Campus Community Service</strong> (Service on UNM committees, work groups, etc.)</td>
<td>Core faculty member since 1995.</td>
</tr>
<tr>
<td>□ Member, Senate Graduate Committee.</td>
<td>Trainer in “Essentials of Management” course since 1989.</td>
</tr>
<tr>
<td>□ Leadership and Education in Neurological Disabilities Faculty, UNM Center for Developmental Disabilities.</td>
<td>Board member since 1996.</td>
</tr>
<tr>
<td>• Coordinated Julius Rezler Foundation exchange program in Dispute Resolution at UNM and Budapest, which resulted in: 1) exchange of faculty between UNM and Central European University in Budapest, 2) exchange between Hungarian and American Research Scholars.</td>
<td></td>
</tr>
<tr>
<td>• Adjunct Professor for Management Development Center at UNM, “Negotiation and Mediation.”.</td>
<td></td>
</tr>
<tr>
<td>• Member, Advisory Board for UNM Center for Faculty/Staff Dispute Resolution.</td>
<td></td>
</tr>
<tr>
<td>• Chair, Promotion Review Committee for Dr. Bruce Perlman.</td>
<td></td>
</tr>
<tr>
<td>• Chair, Promotion Review Committee for Dr. Roli Varma.</td>
<td></td>
</tr>
<tr>
<td>• Member, Promotion Review Committee for Dr. Santa Falcone.</td>
<td></td>
</tr>
<tr>
<td><strong>Public Sector Service</strong> (Service for Government, not for profits and other related entities including consulting)</td>
<td></td>
</tr>
<tr>
<td>• Submitted portfolio and was placed on the Advanced Arbitration Practitioner Roster for Association of Conflict Resolution.</td>
<td></td>
</tr>
<tr>
<td>• Participated as course designer and trainer in Navajo Department of Personnel Management’s Peacemaker/Mediation program.</td>
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<tr>
<td>Served on both labor and employment arbitration panels of the Federal Mediation and Conciliation Service &amp; American Arbitration Association</td>
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</tr>
</tbody>
</table>
(only faculty member at UNM serving as nationally certified arbitrator).

**Professional Community Service** *(Service for public administration/policy and other academic boards, societies, journals, associations, etc.)*

- Contracted consultant to four departments of Navajo Nation, Jicarilla Apache Nation, Ramah School Board, Sandia Pueblo, and Five Sandoval Pueblos.
- Personnel Hearing Officer, City of Albuquerque.

**Student Community Service** *(Service with student groups)*

- *Faculty Advisor, Public Administration Graduate Student Association.*
- *Chapter Advisor, Pi Alpha Alpha honorary society.*
- *Dissertation committee for Misti Wall, OLIT in College of Education.*
- *Dissertation Committee for Adolfo Garcia, Communication and Journalism.*
- *Pro-paper first reader for 7 students (Spring only).*

**Social Community Service** *(Other service to local, state, national communities)*

- Continued as board officer (treasurer) of Outcomes, Inc., a United Way Agency offering psychotherapy to low income families, employee assistance programs, Grandparents Raising Grandchildren, and Sandoval Senior Connection. (since 1992)
- Continued as board officer (president) of Casa Esperanza, a home for families undergoing cancer treatment in Albuquerque (since 1991)
- Continued as board member of Julius Rezler Foundation in Budapest, Hungary; attended board meeting in May (since 1997).
Service Goals for AY 06-07

I plan to continue serving on all present committee assignments and to help with SPA curricular, scheduling, and admissions work during this transitional year.

Dr. Mario A. Rivera

INTELLECTUAL CONTRIBUTIONS
Research and Publication 3-Year Summary Spring 2003 to April 2006
Professor: Mario A. Rivera, Regents’ Professor, School of Public Administration

<table>
<thead>
<tr>
<th>Category</th>
<th>Publication or Other Details (Full citation including length and URLs, etc.)</th>
<th>Other Details/Specifics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference Papers</td>
<td>“The New Information Management Standard—Interpretation and Responses,” Commission on Peer Review and Accreditation, Annual</td>
<td></td>
</tr>
</tbody>
</table>
Conference of the National Association of Schools of Public Affairs and Administration, Indianapolis, Indiana, October 14-16, 2004.

**Invited Addresses**
- Site Visit Team Trainer, Annual Conferences of the National Association of Schools of Public Affairs and Administration, Indianapolis, Indiana, October 14-16, 2004, and October 15-17, 2005, Washington, D.C.

**Technical Reports**

**Other (Online textbook)**

**Research and Publication Goals for Academic Year (AY) 2006-2007**

The principal publication goal for AY 05-06 is completion of the seventh edition of Public Administration: A Comparative Perspective, to be coauthored with Dr. Ferrel Heady and Bruce Perlman at the invitation of Public Administration and Policy Series Executive Editor Jack Rabin, pursuant to contract with Marcel Dekker (currently part of Taylor & Francis).

Among numerous research and publishing projects, I would highlight my editing of a symposium issue of the *International Journal of Public Administration* (on performance management across sectors as well as a symposium issue of the *International Journal of Economic Development*, on the Cuban transition, to be completed by the end of Fall Term 2006 and Spring Term 2005 respectively. The IJED manuscript is complete and publication-ready and should be published during AY 06-07.


**Summary of Instructional Innovations:** I have taught a range of public administration courses including institutional development and behavior, public administration and policy, comparative public administration, intergovernmental and state/local administrative problems, human resource management, and performance management and measurement, as well as taught in the
Anderson School of Management—Negotiation Strategies (Gallup campus, Spring 2003) and Cutting-edge Approaches to Corporate Performance Measurement (Executive Masters of Business Administration, Spring 2004)—and in Community and Regional Planning (Planning, Analysis, and Forecasting, Fall 2002. I also serve the Water Resources and College of Education graduate programs, as a member of the faculty roster (Water Resources) and as a member of several dissertation committees (College of Education). This wide curricular experience, coupled with my exposure to pedagogical trends in the public administration and public policy disciplines through service with NASPAA’s Commission on Peer Review and Accreditation and Executive Council, has informed and enriched my teaching. My active research agenda, which is interdisciplinary in nature, has served the same purpose. One consequence of my exposure to state government through the Legislative Finance Committee (LFC) from summer 2003 through spring 2005, as well as evaluation work for the U.S. Department of Labor Employment and Training Administration, has been a more explicit applied emphasis in my courses, in which I now make available to students through web postings a large volume of primary and secondary research material. All of my classes since summer of 2004 have had such material posted, at http://unm.edu/~marivera, and before that http://mgtclass.mgt.unm.edu. These postings prominently include numerous case studies, class readings, and online texts, in addition to the primary/practitioner documents just noted. All of my classes now extensively rely on case study analysis, with student presentations of case material. Both the applied and case emphases have been very well received by students. One student has used posted LFC primary research material as the basis of her pro paper, which won the Ferrel Heady prize in Spring 2005, and another two students are doing so at present.

Teaching Goals for AY 06-07: The course I have most often taught and which I have most developed is PA 521, Institutional Development and Behavior. The course explores the fields of organizational behavior and decision theory, as well as policy and change management in government. I was one of three principal external reviewers for one of the two course texts, J. Steven Ott, et al., Classic Readings in Organizational Behavior (3rd Edition, Thomson/Wadsworth, 2003), a widely-adopted textbook in organizational theory in both Business and Public Administration (for which I was one of three outside reviewers, as acknowledged in the book’s introduction; this allowed me to tailor the text to an extent to the PA 521 course. This is also my fourteenth year of teaching PA 535, Comparative Public Administration, a course which I have modified substantially to incorporate comparative policy analysis and comparative performance measures, changes which have been very well received by students, particularly practitioners. I have also taught PA 524, Intergovernmental Administrative Problems, and PA 500, Public Management and Policy, an introductory survey of public administration and of policy analysis.
I have made a sustained effort in all of these courses to use innovative pedagogical techniques, including structured group exercises, mixed use of videotape and PowerPoint, along with overhead transparencies, and visiting lectures. Courses with other faculties have strengthened this experience. In Fall 2002, I taught CRP 512, Planning Analysis and Forecasting, an advanced review of leading analytical and modeling methods in community-based planning and in the management of public agencies. It was a Community and Regional Planning course of special interest to joint degree (MPA-MCRP) students—this program is the largest of SPA’s dual degree offerings at present. I also taught in the Executive MBA Program, in Spring 04, as already noted.

Professional development efforts in the direction of the improvement of teaching have principally taken the form of observation of colleagues’ teaching and consultation with them, in addition to specialized readings and attendance at NASPAA and ASPA conference workshops concerned with curricular development and pedagogical technique. I have kept the connection between teaching and research a close one, incorporating selective publications and consulting studies in coursework. Beginning in Spring 2002, I incorporated use of WebCT as an adjunct to courses and to electronic mail communications, principally for the posting of required and recommended supplementary readings, addenda to the syllabus, information concerning student contacts and group assignments, and web links, a year later began extensive use of the mgt webpage provided by Anderson, and most recently of my own, CIRT-based webpage (unm.edu/~marivera) as already indicated. I plan to continue to incorporate information technology in, and in support of, classes.

One relatively undeveloped area in my now 24-year university teaching experience (fourteen of them at UNM) is team teaching. I would like to explore the possibility of team teaching courses with colleagues in the MPA program, and using such an experience to develop pedagogy.

**SERVICE**

School, University, and Professional Service 3-Year Summary Spring 2003 to April 28, 2006

Professor: Mario A. Rivera, Regents' Professor, School of Public Administration

<table>
<thead>
<tr>
<th>Service Category and Item</th>
<th>Details/Specifics (Length of service; type of appointment, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Campus Community</strong></td>
<td><strong>SERVICE:</strong> SPA and University</td>
</tr>
<tr>
<td><strong>Service (Service on UNM committees, work groups, etc.)</strong></td>
<td>(1) Chair, SPA Admissions Committee, 1994-2005; responsible for final admissions reviews and recommendations in concert with the Committee and the SPA Director.</td>
</tr>
<tr>
<td></td>
<td>(2) Active in SPA efforts concerning Latin American program development and recruitment, as well as international admissions and advising for Latin American students (1995-2005).</td>
</tr>
<tr>
<td></td>
<td>(3) Active in SPA/ASM committees on Policies, Procedures, and Curricular Planning; active in SPA/ASM student recruitment and orientation activities (2001-2004).</td>
</tr>
<tr>
<td></td>
<td>(4) Lead in activities related to maintaining NASPAA (National Association of Schools of Public Affairs and Administration) accreditation and securing reaccreditation, including principal authorship of the SPA Self-Study (October 2005) and in the SPA preparation for and response to the Site Visit and draft Site Visit Report.</td>
</tr>
<tr>
<td></td>
<td>(5) Faculty Senator (1994-2004); member, Faculty Senate Curriculum</td>
</tr>
<tr>
<td>Professional Community Service&lt;br&gt;(Service for public administration/policy and other academic boards, societies, journals, associations, etc.)</td>
<td>Appointee to the Executive Council (2005-2008) and the Committee on Peer Review and Accreditation (2002-2005) of the National Association of Schools of Public Affairs and Administration, Washington, D.C., and (since 1997) to the Steering Committee of its Inter-American Network for Public Administration Education. Member, NASPAA ad hoc ethics committee (2000-2003); site visitor and site visit team chair for NASPAA, 1994-2002, including service as Site Visit Team Chair, Atkinson School of Management, Willamette University, Salem, Oregon, in March 2002; Site Team member for California State University, Los Angeles, 2001-2002. Appointee to the Committee (1993-2000), Enrollment and Admissions Committee (1999-2002), Research Policy Committee (2000-2004); and the University Press Committee (2000-2004); active in Faculty Senate studies on compensation, student retention, 2002-2004. (6) <strong>Active member</strong>, Provost’s International Relations Task Force (Spring 2004 to the present). From 1994 to the present, member of the University of New Mexico Latin American Programs in Education (LAPE), Faculty Concilium for Latin American Studies, and Council on the Americas, including the initiatives known as the University of the Americas, the Hemispheric Major, and the Equatorial Guinea Inter-University Project begun in 1997. (7) <strong>Other</strong>: Member of three College of Education Ph.D. dissertation committees 2002-2003; member of promotion and tenure committees for Dr. Bruce Perlman (2004-05), Dr. Santa Falcone (2004-05), Dr. Karen King (2003-2004), and Dr. Roli Varma (2001-2002); guest lecturer, classes of Dr. Roli Varma (PA 597, December 2004), Karen King (PA 525, Spring 2003, Fall 2003, Spring 2004), and Alan Reed (various, ending Spring 2002).</td>
</tr>
</tbody>
</table>
NASPAA advisory undergraduate section committee, ending in 2002 (eight years of service).


| Student Community Service (Service with student groups) | Student mentor through the New Mexico Retail Association and the University of New Mexico (since 2001). Minority student mentor through the University’s Research Opportunity Program (since 1993-04). |

**Service Goals for AY 06-07**

In addition to continuing my substantial university and SPA service activities, I have continued my NASPAA service, following completion of my three-year COPRA term in June 2005, with my current three-year appointment with the governing NASPAA Executive Council, begun in October 2005 upon ratification by member vote at the fall 2005 NASPAA conference in Washington. I will also continue University and community service efforts and continue to be available to colleagues for collaborative teaching and research projects, as well as for guest lecturing for their classes, as I did most recently for Professor Roli Varma in her PA 596 class.

Having worked to revitalize the SPA Admissions Committee and for the creation of a new Curriculum Committee, I plan to invest significantly in these faculty governance efforts.

**Dr. Roli Varma**

**INTELLECTUAL CONTRIBUTIONS**

Professor Roli Varma, School of Public Administration

<table>
<thead>
<tr>
<th>Category</th>
<th>Publication</th>
<th>Specifics</th>
</tr>
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<tbody>
<tr>
<td>Books</td>
<td>• Harbingers of Global Change: India’s Techno-Immigrants in the United States Maryland: Lexington Books, 2006, pages 205.</td>
<td>• Reviewed by Prof. Sheila Slaughter of University of Georgia</td>
</tr>
<tr>
<td></td>
<td>• Managing Industrial Research Effectively Hyderabad, India: ICFAI University Press, forthcoming 2006, pages 202.</td>
<td>• Reviewed by Prof. Richard Worthington of Claremont College</td>
</tr>
<tr>
<td>Journals (with full)</td>
<td>• “Promoting Community Gardening to Low Income Urban Participants in the Women, Infants, and Children</td>
<td>• Print, peer review</td>
</tr>
<tr>
<td>length articles, vol, issue, pages, year</td>
<td>Program (WIC) in New Mexico” (w/ Shawn Flanigan) Community, Work &amp; Family, 9(1), 69–74, 2006.</td>
<td>Print, peer review</td>
</tr>
<tr>
<td>-</td>
<td>“Barely Managing: Attitudes of Information Technology Professionals on Management Technique” (w/ Bruce Perlman) Social Science Journal, 42(4), 583–594, 2005.</td>
<td>Print, peer review</td>
</tr>
<tr>
<td>-</td>
<td>“Indian Cyber Workers in US” (w/ late Everett Rogers) Economic and Political Weekly, 39(52), 5645–5652, 2004.</td>
<td>Print, peer review</td>
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<tr>
<td>-</td>
<td>Proceedings of the National Science Foundation’s ITWF &amp; ITR/EFWF Principal Investigator Conference, Albuquerque: University of New Mexico, 2003, pages 239.</td>
<td>Print, an editorial, 50 summaries of NSF funded proposals</td>
</tr>
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<td>-</td>
<td>“Matching Motivation to Recruitment and Retention of Women in Computer Science” (w/ Marcella LaFever) in Vanessa is an undergraduate student</td>
<td>Print, peer review</td>
</tr>
<tr>
<td>-</td>
<td>Marcella was a graduate</td>
<td>Print, peer review</td>
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</tr>
<tr>
<td><strong>Proceedings</strong> <em>(Published conference proceedings with full length of articles)</em></td>
<td>Electronic, peer review</td>
<td></td>
</tr>
<tr>
<td>&quot;Challenges to Diversity: A Case Study of Asian Indian Scientists and Engineers&quot; American Society for Engineering Education Annual Conference &amp; Exposition, 2006.</td>
<td>Electronic, peer review</td>
<td></td>
</tr>
<tr>
<td>&quot;Communication, Climate and Satisfaction in the Computer Science Classroom&quot; (w/ Marcella LaFever) Women in Engineering Programs &amp; Advocates Network National Conference, 2004.</td>
<td>Electronic, peer review</td>
<td></td>
</tr>
<tr>
<td><strong>Other Publications, Technical Reports, etc.</strong></td>
<td>Electronic</td>
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<tr>
<td><strong>Funded Research</strong></td>
<td>$10,247</td>
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<tr>
<td>&quot;The Tenure System in Engineering&quot; National Science Foundation, 3/1/06 to 8/30/06.</td>
<td></td>
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<tr>
<td>Conference, Workshops (Papers presented)</td>
<td>&quot;Perceptions and Experiences of Indian Professionals in the U.S. Workforce&quot; Western Social Science Association, Phoenix, April 19–22, 2006.</td>
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<tr>
<td></td>
<td>Took Vanessa, an undergraduate, to the conference</td>
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<tr>
<td></td>
<td>Nominated for the best paper</td>
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<tr>
<td></td>
<td>International</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Contracts and Grants – PI, Co-PI or consultant</th>
<th>&quot;The Tenure System in Engineering&quot; University of New Mexico, 2/1/06 to 9/30/06.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&quot;Cross-Ethnic Differences in Undergraduate Women's Preference for Information Technology&quot; (Co-PI Deepak Kapur) National Science Foundation, 1/9/03 to 8/31/05.</td>
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<tr>
<td></td>
<td>&quot;Out of Mix: Native Americans in Information Technology&quot; Alfred P. Sloan Foundation, 1/1/03 to 6/30/05.</td>
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<tr>
<td></td>
<td>&quot;New Immigrants: Science and Engineering in the United States&quot; National Science Foundation, 6/1/02 to 5/31/05.</td>
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<tr>
<td></td>
<td>&quot;Why So Few Women in Information Technology?: A Comparative Study&quot; (Co-Pis Bruce Perlman &amp; Deepak Kapur) National Science Foundation, 10/1/01 to 6/30/03.</td>
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<tr>
<td></td>
<td>&quot;Out of Mix: Native Americans in Information Technology&quot; National Science Foundation, 2/1/06 to 9/30/06.</td>
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<td>$3,280</td>
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<td>$350,392</td>
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<td>$40,000</td>
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<td></td>
<td>$85,766</td>
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<td></td>
<td>$108,426.</td>
</tr>
<tr>
<td>Event</td>
<td>Location</td>
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<td>----------------------------------------------------------------------</td>
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</tr>
<tr>
<td>“Communication Climate and Satisfaction in the Computer Science Classroom” (w/ Marcella LaFever)</td>
<td>Women in Engineering Programs &amp; Advocates Network, Albuquerque, June 6-9, 2004.</td>
</tr>
<tr>
<td>“Immigrants’ Adaptation”</td>
<td>Western Social Science Association, Salt Lake City, April 21-24, 2004.</td>
</tr>
<tr>
<td>“Mobility of Asian Indian Scientists/Engineers between the United States and India”</td>
<td>Society for Social Studies of Science, Atlanta, Oct. 15-18, 2003.</td>
</tr>
<tr>
<td>Invited (Sponsored papers, talks, meetings, etc)</td>
<td></td>
</tr>
<tr>
<td>“Cross-Ethnic Differences in Undergraduate Women’s Preference for Information Technology”</td>
<td>National Science Foundation's ITWF and ITR/EWF Principal Investigator Conference, Raleigh, April 2-4, 2006.</td>
</tr>
<tr>
<td>“Indian Diaspora”</td>
<td>Indian Institute of Technology, Delhi, India, Jan. 3, 2006.</td>
</tr>
<tr>
<td>Job Migration Task Force Meeting, Association for Computing Machinery</td>
<td>San Francisco, Mar. 4-5, 2005.</td>
</tr>
<tr>
<td>“Cross-Ethnic Differences in Undergraduate Women’s Preference for Information Technology”</td>
<td>NSF paid travel, lodging &amp; food</td>
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<td></td>
<td>NSF paid travel, lodging &amp; food</td>
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<tr>
<td></td>
<td>IIT-Delhi paid lodging &amp; food</td>
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<td>ACM paid travel, lodging &amp; food</td>
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<td>ACM paid travel, lodging &amp; food</td>
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<td>ACM paid travel, lodging &amp; food</td>
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<td></td>
<td>NSF paid travel, lodging &amp; food</td>
</tr>
</tbody>
</table>
**Preference for Information Technology**

- ACM paid travel, lodging & food
- IIT Kanpur paid lodging & food
- NSF paid travel, lodging & food

**Research and Publication Goals for Academic Year 06-07**

During my sabbatical, I am hoping to explore new areas of research, build international collaborations, and submit at least one grant proposal to the NSF. Also, I plan to involve more graduate students in my research projects.

**ProPapers**

**2006**
- Chad A Brinkman, finishing in summer
- Rebekah J. Green, finishing in summer
- Sulayman G. Konte, finishing in summer
- Adrian M. Lovato
- Deborah L. Lucero
- Jeannett Montes, finishing in summer
- April M. Rodriguez
- Melissa A. Schaum, finishing in summer
- Amy C. Stout
- JoAnn A. Woolrich, finished in spring

**2005:**
- Sara Briana Sandoval, *The Cost of Driving Drunk and Getting Caught.*
- Susan Maceachen, *Socioeconomic Elements in Retention of Alumni Seeking Employment: A Case Study of the University of New Mexico.*

**2004:**
- Robert A. Comer, *Evolution of Health Care: A Case Study of Indian Health Service.*
- Margaret B. Luke, *Adequacy or Equity: Academic Funding Inputs and Outcomes in the Albuquerque Public Schools.*
2003:

- Cindy L. Chavez, *Student Retention Strategies: A Case Study of University of New Mexico Valencia Campus*.
- Monica L. Thompson, *Researchers' Attitudes towards Financial Conflicts of Interest in Clinical Trials in an Academic Setting*.

**Summary of Instructional Innovations:**

In Research Methods (PUB AD 596): Wrote research grant proposals with research designs; attended panels relevant to the research methods in conferences; added 9 quizzes in the 596 class in Fall 2005 to make sure that students have done the readings and made students do actual field work (e.g. survey, interview, etc.) in addition to writing a research proposal. Took students to the library to show them how to do scholarly research.

**Teaching Goals for Academic Year 06-07**

- During my sabbatical, I will be at IIT-Delhi for a semester, which will give me an international perspective in teaching.
- I would like to have larger classes to interact with more SPA students. In Fall 2005, I achieved this goal in the core class, but not in the elective class. I would like to work on increasing enrollment in the elective class.
<table>
<thead>
<tr>
<th>Service Category</th>
<th>Specifics</th>
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<tbody>
<tr>
<td><strong>Campus Community Service</strong> <em>(Service on UNM committees, work groups, etc.)</em></td>
<td></td>
</tr>
<tr>
<td>• Academic Freedom and Tenure Committee.</td>
<td>• Elected member, 2004–2005</td>
</tr>
<tr>
<td>• Leading Edge Forum on Gender, Feminist Research Institute and Office of Vice Provost of Research.</td>
<td>• Invited member, 2005</td>
</tr>
<tr>
<td>• Graduate Reviews Sub-committee of the Senate Graduate Committee.</td>
<td>• Member, 2004–2005</td>
</tr>
<tr>
<td>• Implementation Sub-Committee of the Senate Graduate Committee.</td>
<td>• Chair, 2003–2004</td>
</tr>
<tr>
<td>• Senate Graduate Curriculum Committee.</td>
<td>• Chair, 2002–2003</td>
</tr>
<tr>
<td>• Senate Graduate Committee.</td>
<td>• Member, 2003–2004</td>
</tr>
<tr>
<td>• Leading Edge Science, Technology, Engineering &amp; Math Action Committee, Office of Research Services.</td>
<td>• Invited member, 2003</td>
</tr>
<tr>
<td><strong>Public Sector Service</strong> <em>(Service for Government, not for profits and other related entities including consulting)</em></td>
<td></td>
</tr>
<tr>
<td>Local chapter of Association of American University Professors.</td>
<td>• Treasurer, 2004–2005</td>
</tr>
<tr>
<td>Local chapter of Association of American University Professors.</td>
<td>• Secretary, 2003–2004</td>
</tr>
<tr>
<td><strong>Professional Community Service</strong> <em>(Service for public administration/policy and other academic boards, societies, journals, associations, etc.)</em></td>
<td></td>
</tr>
<tr>
<td>International Association of Science, Technology and Society</td>
<td>• Program chair for the annual conference, 2006</td>
</tr>
<tr>
<td>Society for Social Studies of Science Association for Computing Machinery</td>
<td>• Elected council member, 2005–2007</td>
</tr>
<tr>
<td>Taskforce on Job Migration.</td>
<td>• Invited member, 2004–2006</td>
</tr>
<tr>
<td>International Association of Science, Technology, and Society.</td>
<td>• Elected board member, 2004–2007</td>
</tr>
<tr>
<td>Bulletin of Science, Technology &amp; Society.</td>
<td>• Contributing editor, 2004</td>
</tr>
<tr>
<td>National Science Foundation.</td>
<td>• Panel reviewer, 2004</td>
</tr>
</tbody>
</table>
IEEE Technology and Society.
Communications of the ACM
Journal of Women and Minorities in Science and Engineering.
Women in Information Technology: Research on Underrepresentation.
Encyclopedia of Gender and Information Technology.
American Society for Engineering Education.
IEEE International Conference on Advanced Learning Technologies.
Science, Technology & Human Values
XXIX All India Sociological Conference, Udaipur, India.
"Disaster Recover Planning" Western Social Science Association Annual Conference, Phoenix.
"Presentations of Selected Projects" National Science Foundation's ITWF and ITR/EWF Principal Investigator Conference, Raleigh.
"Higher Education" National Science Foundation's ITWF and ITR/EWF Principal Investigator Conference, Philadelphia.
4S (Society for Social Studies of Science).
IASTS (International Association of Science, Technology and Society).
ASEE (American Society for Engineering Education).

| Student Community Service (Service with student groups) |  
|--------------------------------------------------------|---|
| • Financial support for graduate students               |  
| • Financial support for undergraduate students           |  
| • McNair/Research Opportunity Program Workshop.         |  
| • Undergraduate Research and Creativity Symposium       |  
| • Gender in Technology and Science                       |  
|                                                         |  
| • 2003—2006, $91,000+                                  |  
| • 2003—2006, $15,000                                   |  
| • Speaker: 2006, 2005, 2004                             |  
| • Judge, 2005                                           |  
| • Panelist, 2005                                        |  

- External reviewer: 1 paper in 2006, 3 papers in 2004
- External reviewer: 2 papers in 2005
- External reviewer: 1 paper in 2005
- External reviewer: 1 paper in 2004, 1 paper in 2003
- External reviewer: 1 paper in 2004
- External reviewer: 2 papers in 2005
- External reviewer: 2 papers in 2005
- External reviewer: 3 papers in 2004
- External reviewer: 1 paper in 2003
- Organizing Partner, 2003
- Moderator, 2006
- Moderator, 2006
- Moderator, 2005
- Moderator, 2004
- Member, since 1994
- Member, since 2003
- Member, since 2001
| Conference, American Studies.  
<table>
<thead>
<tr>
<th>Dept. of Communication &amp; Journalism.</th>
<th>Colloquium Speaker, 2003</th>
</tr>
</thead>
</table>

**Social Community Service (Other service to local, state, national communities)**

- India Association
- Local Chapter of Association of American University Professors
- Local Chapter of Association of American University Professors

| Member, since 2000  
| Treasurer, 2004—2005 |
| Secretary, 2002—2004 |

**Service Goals for AY 05-06**

Continue to work towards bringing visibility to the SPA and UNM nationally and internationally. Take an active role in rebuilding of the SPA.
1. Significant Developments

Like Albuquerque’s big interstate highways, I-25 and I-40, the road to success of the University of New Mexico Art Museum seems always to be under construction. Certainly this has been a constructive, busy year at the Museum. This year’s real construction was the installation of fire suppression systems in the Museum galleries and exhibitions preparation area. Virtual construction took place as new educational approaches were developed and put into practice, new types of exhibitions were devised, new major support was acquired, and the Museum began constructing its case for accreditation by the American Association of Museums.

Research, Exhibitions, and Programs. The Museum and its Jonson Gallery presented some eighteen exhibitions between them, comprising widely diverse work. Curated primarily by Print Photo Curator Michele Penhall and Assistant Curator Chris Jones, photography shows included striking photographs of the landscape marked by human enterprises (Altered Landscape), the earliest photographs of the world’s peoples (First Seen), Robert ParkeHarrison’s large, haunting photographs of despair and hope in a ravaged world (The Architect’s Brother), the always amazing works by Elliot Porter, and a survey of photography and new media at UNM (Looking Back at the Present).

Paintings exhibitions also figured prominently this year—works by Clinton Adams, eight great New Mexico painters (Painting—Alive and Well), and, at the Jonson, a landmark exhibition and catalog of work by Navajo artist Conrad House (A Life in Balance). Also Jonson Gallery presented work by students in the graduate studio program of the Department of Art and Art History (AAH), UNM, and Zapata Vive!, curated by an AAH graduate student under the direction of Jonson Curator Chip Ware. Museum staff members Bonnie Verardo, Lee Savary, Michele Penhall, and Linda Bahm worked intensively with three AAH graduate students to create an exhibition of the work of Frederick Sommer (Allegorical Constellations), a project that has served as a prototype for further projects with student curators, and informed a new museum studies course (below).

The exhibitions of the Museum and Jonson Gallery have been much used by university, high school, and elementary classes. Architecture—Defining Spaces/Defining Times, while an exhibition of interest to all ages, was specifically designed to fit into the elementary school curriculum and state-mandated benchmarks. Its success has prompted us to begin development of another exhibition which also directly supports the New Mexico public schools curriculum—Art and Science/Observation and Imagination which will be available fall 2006-spring 2007.

This year’s program of talks and educational activities, directed by Curator of Education and Programs Michael Certo, has been as varied as our exhibitions. Programs included overflow crowds to hear Robert and Shanna ParkeHarrison talk about their work and partnership, Joyce Szabo’s talk about the life and work of Conrad House, special programs for educators to discuss how they could better use the museum’s resources, and two workshops filled in advance about preservation matting and framing, led by conservation technician Kate Guscott.

An active program of museum visits, teacher training, collaboration with the Albuquerque Public Schools, and student gallery workbooks and web-based teaching materials was carried out by Training Consultant Sara Otto-Diniz, aided by several high school and university students. The program’s continuing thrust is challenging visitors, particularly students, to look more deeply at works, to learn to trust their own skills at “reading” art, particularly art not instantly accessible. Early evaluation of this initiative appears to show that, while this approach is more time-intensive and may reach fewer students than traditional large-group “tours,” the resulting learning and educational benefits are greater and more in-depth than that of the traditional “tours.”

Research activities included five exhibition catalogs, a leadership role in the University of New Mexico Museum Studies Program, and the introduction of a new Museum Studies course “Exhibitions from Conception to Reception,” taught by Linda Bahm, Michele Penhall, Lee Savary, and Bonnie Verardo.
The Museum's assets and permanent collections continue to grow. This year major estates, planned gifts, donations, and acquisitions totaled almost $4 million. The Paul Re Estate ($3 million) of cash and art was negotiated with artist Paul Re to come to the Jonson Gallery. A $100,000 gift annuity was negotiated by Pierre Berry. Other notable gifts came in support of the Conrad House exhibition and catalog, and the UNM Public Art Collection, as well as the Museum's permanent collection. Patrick Nagatani's photograph *Chetro Ketl, Chaco Canyon*, was purchased for the Museum by the Friends of Art; with this purchase, Nagatani will donate to the museum his complete series *Chromatherapy*. The collection has been heavily used by classes in the Print Study Room, as well as for exhibitions and loans to a number of institutions, including the Chinati Foundation, Marfa, Texas; the Pompidou, Paris; The Deutsche Guggenheim, the Peggy Guggenheim, the Museum of Fine Arts, Boston; Aperture Foundation, New York City; and the International Center of Photography, New York City.

A new dealer—John Shafer, Peyton Wright Gallery—was selected to represent the Jonson Gallery estate collection. This new contract was inaugurated with an exhibition of representative pieces from the estate collection, held at that Santa Fe gallery.

*Staff and Administration* began on the Accreditation Self-Study, the first step toward professional accreditation by the American Association of Museum. The process is estimated to take about twenty-four to thirty-six months.

The staff has been enhanced by the addition of Steven Hurley, Museum Assistant, and by the upgrade/reclassification by UNM Human Resources of three museum positions. Lee Savary, Exhibitions Curator, was reclassified as Exhibitions Manager, with additional responsibilities for plant operation, scheduling, and serving as acting director in the absence of the director. Bonnie Verardo, Collections Manager, was awarded an upgrade in job classification in recognition of her extensive responsibilities in relation to the Museum's very large and active collection. Chip Ware, Jonson Gallery Curator, was also given a position upgrade, recognizing his curatorial responsibilities and the Museum's need for two full curatorial positions.

Efforts continued to recruit a full-time paper conservator for the Stockman-funded paper conservation lab. One candidate was brought for an on-site interview; extensive phone interviews and reference checks were carried out on a second candidate. To date, the position remains unfilled. Interim activities include our traditional eight-week summer conservation internship, this year held by an extremely capable graduate conservation student Sara Bisi, under the direction of a former student of the program and now highly skilled private conservator, Tram Vo. Tram Vo also came to the Museum for two multi-week visits to consult and perform treatments on high priority items. Kate Guscott, Conservation Technician, has worked closely with Tram Vo, Collections Manager Bonnie Verardo, and Curator of Prints and Photographs Michele Penhall to continue preservation activities and the recording of conservation treatment reports.

Museum hours and attendance increased slightly this year, despite an estimated one-third cut in Popejoy Hall performances, the source of a sizeable part of our audience. This reduction in the number of these visitors, particularly in the key months of November through January, did affect holiday sales at the Museum Shop, an important component of the Shop's annual income. Manager Ursula Mines has diversified shop merchandise, particularly jewelry, to mitigate the effects of lessened Center for the Arts events traffic.

In all of the year's activities, Museum Administrative Assistant Kelvin Beliele, working with Jonson Gallery Administrative Assistant Shelley Simms, has provided invaluable steady and thoughtful support and maintained invaluable relationships with the many University departments essential to the operation of the Museum and its programs.
2. Plans and Recommendations

Several major objectives will shape Museum activities during fiscal 2006.

- Redefinition of the Museum's graphic identity: development of a logo, a new format for museum publications including the calendar and gallery brochures, and revision of the website.

- Continued search for a full-time photo/paper conservator. Implementation of contingency plans to maintain and grow the conservation program while a conservator is being sought.

- Successful completion of the American Association of Museums Accreditation Self-Study and selection of a visiting committee.

- Installation of new collections management database software and related hardware, to replace the current system which no longer has technical support and does not meet increasing, and increasingly complex, research and collections management requirements.

- Presentation of a plan for efficient and cost-effective use of the space to be vacated by the Fine Arts Library when it takes up its new home in the architecture building currently under construction. This plan will provide for museum needs for collections storage and exhibition for the next decade.

- Continued planning, development, and fund-raising for future exhibitions, particularly *Patrick Nagatani, A Road to Beauty: Friedl Dicker Brandeis and the Children of Terezin*, and *Pablo O'Higgins*; and for museum lighting and other gallery upgrades.
### 3. Staff Appointments

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Brooke Balliet, Office Assistant</td>
<td>November 16, 2005</td>
</tr>
<tr>
<td>Steven Hurley, Curatorial Assistant</td>
<td>November 9, 2005</td>
</tr>
</tbody>
</table>

### 4. A. Staff Separations

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brooke Balliet, Office Assistant</td>
<td>November 16, 2005-December 16, 2005</td>
</tr>
<tr>
<td>Tyler R. Anderson, Curatorial Assistant</td>
<td>January 8, 1999-September 2, 2005</td>
</tr>
<tr>
<td>Augustine Romero, Curatorial Assistant</td>
<td>August 30, 2004-September 2, 2005</td>
</tr>
<tr>
<td>Michael Schissel, Office Assistant</td>
<td>July 12, 2005-October 11, 2005</td>
</tr>
</tbody>
</table>

### 4. B. Name Changes

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ursula Mines to Ursula Stauber</td>
<td>July 30, 2005</td>
</tr>
</tbody>
</table>
## 5. Achievements/Products
### A. Exhibitions

<table>
<thead>
<tr>
<th>Gallery</th>
<th>Dates</th>
<th>Exhibition Title</th>
<th>Curators</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Art Museum</strong></td>
<td></td>
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<tr>
<td><strong>Upper Gallery</strong></td>
<td>2005</td>
<td><em>Looking Back at the Present: Photography and New Media at UNM</em></td>
<td>Curator: Michele Penhall</td>
</tr>
<tr>
<td></td>
<td>June 28-September 25</td>
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<tr>
<td></td>
<td>October 18-December 18</td>
<td><em>Robert ParkeHarrison: The Architect's Brother</em></td>
<td>Curator: Lee Savary</td>
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<tr>
<td></td>
<td>2006</td>
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<td></td>
<td>February 7-May 14</td>
<td><em>First Seen: Portraits of the World’s People from the Wilson Centre for Photography (1840-1880)</em></td>
<td>Curators: Lee Savary and Michele Penhall</td>
</tr>
<tr>
<td></td>
<td>May 30-September 10</td>
<td><em>Painting—Alive and Well!</em></td>
<td>Curators: Jon Abrams and Michele Penhall</td>
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<tr>
<td><strong>West Gallery</strong></td>
<td>2005</td>
<td></td>
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<tr>
<td></td>
<td>June 28-September 25</td>
<td><em>Looking Back at the Present: Photography and New Media at UNM</em></td>
<td>Curator: Michele Penhall</td>
</tr>
<tr>
<td></td>
<td>October 18-December 18</td>
<td><em>Robert ParkeHarrison: The Architect's Brother</em></td>
<td>Curator: Lee Savary</td>
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<tr>
<td></td>
<td>2006</td>
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<tr>
<td></td>
<td>February 7-May 14</td>
<td><em>First Seen: Portraits of the World’s People from the Wilson Centre for Photography (1840-1880)</em></td>
<td>Curators: Lee Savary and Michele Penhall</td>
</tr>
<tr>
<td></td>
<td>May 30-September 10</td>
<td><em>Painting—Alive and Well!</em></td>
<td>Curators: Jon Abrams and Michele Penhall</td>
</tr>
<tr>
<td><strong>Van Deren Coke Gallery</strong></td>
<td>2005</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>June 28-September 25</td>
<td><em>Eliot Porter’s Natural World</em></td>
<td>Curators: Michele Penhall and Christopher Jones</td>
</tr>
<tr>
<td></td>
<td>October 28-December 18</td>
<td><em>The Altered Landscape: Photography Since the Sixties</em></td>
<td>Curators: Michele Penhall and Christopher Jones</td>
</tr>
<tr>
<td></td>
<td>2006</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>May 30-September 10</td>
<td><em>Josef Albers Suites</em></td>
<td>Curator: Michele Penhall</td>
</tr>
<tr>
<td><strong>Studv Gallery</strong></td>
<td>2005</td>
<td></td>
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<tr>
<td></td>
<td>July 12-August 28</td>
<td><em>Imperial Vignettes: Portraits by Gustave Le Gray</em></td>
<td>Curator: Michele Penhall</td>
</tr>
</tbody>
</table>
September 6-November 20  
*Allegorical Constellations: Works by Frederick Sommer*  
Student Curators: Whitney Durell, Allison Bamert, Brenna Drury, working with Linda Bahm, Michele Penhall, Lee Savary, and Bonnie Verardo

2006  
January 17-April 9  
*Painting Matters: Cook, Facey, Feinberg, Jacob, Jesse, Wenger, Zhang*  
Curator: Michele Penhall

April 25-August 13  
*The Tibetan Gau: Portable Shrines from the Collection of Jacqueline Dunnington*  
Curators: Jacqueline Dunnington, Lee Savary, and Linda Bahm

**Lower Gallery**  
2005  
June 28-September 25  
*The Lure of the Sea*  
Curators: Christopher Jones and Michele Penhall

September 6-November 20  
*Architecture: Defining Spaces/Defining Times Part I*  
Curators: Sara Otto-Diniz and Michele Penhall

November 9-December 22  
*Architecture: Defining Spaces/Defining Times Part II*  
Curators: Sara Otto-Diniz and Michele Penhall

2006  
January 17-April 9  
*Painting Matters: Cook, Facey, Feinberg, Jacob, Jesse, Wenger, Zhang*  
Curator: Michele Penhall

April 25-August 13  
*Clinton Adams, Oil, Tempera & Acrylic*  
Curators: Bonnie Verardo, Lee Savary, and Linda Bahm

**Jonson Gallery**  
2005  
May 20-August 19  
*Critical Reflections: The 56th Annual Raymond Jonson Summer Exhibition*  
Curator: Chip Ware

May 20-August 19  
*Shadows and Portraits, Matthew Lutz, 2-part MFA Exhibition*  
Curator: Chip Ware

September 2-October 14  
*At First Sight: Incoming Studio Graduate Students, Department of Art and Art History*  
Curator: Chip Ware

September 2-December 22  
*Jonson's Gallery 1949-1950*  
Curator: Chip Ware

October 28-December 22  
*iZapata Vive! Constructions of a Cultural Hero*  
Curator: Theresa Avila, MA Thesis exhibition

2006  
January 20-March 10  
*A Life in Balance: The Art of Conrad House*  
Guest Curator: Joyce Szabo

January 20-April 21  
*Jonson by Decade: 1910-1919*  
Curator: Chip Ware
<table>
<thead>
<tr>
<th>Date Range</th>
<th>Exhibition Description</th>
<th>Curator</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 24-May 5</td>
<td>12th Annual Juried Graduate Exhibition</td>
<td>Chip Ware</td>
</tr>
<tr>
<td>April 28-May 29</td>
<td>The Far Horizon: The Frank Walker Memorial Exhibition</td>
<td>Tiska Blankenship</td>
</tr>
<tr>
<td>May 19-June 23</td>
<td>Lea Anderson: Rebirth of Life, MFA Exhibition</td>
<td>Chip Ware</td>
</tr>
<tr>
<td>May 19-June 23</td>
<td>Justin Lane: Playhouse Archives, MFA Exhibition</td>
<td>Chip Ware</td>
</tr>
</tbody>
</table>
B. Print Study Room

During fiscal year 2006, 936 individuals visited the UNM Art Museum Print Study Room. In its mission to engage a broad range of educational institutes, visitors, and scholars in the use of the UNM Art Museum’s open collection, the Print Study Room accommodated 60 visits from classes and groups, including studio art classes such as Drawing, Printmaking, Photography, and Painting, as well as Art History, English, and Native American Studies. Local institutions included the University of New Mexico, Albuquerque Technical and Vocational Institute, the Art Center Design College, Santa Fe Community College, Albuquerque Public Schools, and the Albuquerque Academy.

Visitors to the Print Study Room came from around the nation and around the globe, to utilize the Art Museum’s works on paper collection. The Print Study Room was one of the destinations of the 11th Annual Wood Engraver’s Network Gathering, and of a national meeting of Art Studio Teachers. Scholars from as far away as the Republic of Hungary used the Print Study Room as a research facility.
C. Programs, Receptions, and Other Special Events

Attendance at the UNM Art Museum increased from last year. There was a slight decrease in general walk-in attendance due to the reduction in the number of Popejoy productions. Although the total number of children who toured was lower, the number of individual tours increased (270 compared to 137) because the education staff focused on quality rather than quantity, reducing our "educator to student" ratios from an average of 1-24 to 1-10. There were also significant gains in University class tours, community organization tours, and Tuesday Talk and events attendance with increases of 66%, 99% and 33% respectively.

- Total attendance at the UNM Art Museum was 28,671, a slight increase (3%) from last year's total of 27,920.
- Total attendance at the Jonson Gallery was 2,778, an 11% increase from last year's 2,502.

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

UNM Art Museum Summary
The museum hosted 31 public programs and conducted 270 private and public school tours through our exhibitions. Due to the education grant and the addition of Sara Otto-Diniz and several education staff members, we were able to lower the group size of our tours and increase the quality of the experience without a large decrease in the total number of students. The decrease in walk-in general attendance reflects the percentage of decreased Popejoy Hall productions. There were substantial gains in UNM class tours as well as community tours this year, and a substantial increase in attendance at our Tuesday talks, opening receptions, and other events.

Some highlights of this year's programming were the Robert ParkeHarrison talk and reception, the First Seen opening reception, and the Painting: Alive and Well! opening, each with over 250 attendees. We had solid attendance at our other Tuesday Talks and several well-attended guest lectures and Gale Memorial lectures which were hosted in the museum. Overall, event attendance this fiscal year was 2,419, the highest figure since the 1998-99 fiscal year.

<table>
<thead>
<tr>
<th></th>
<th>FY 2004-2005</th>
<th>FY 2005-2006</th>
<th>% change from previous year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours open to the public:</td>
<td>1,813</td>
<td>1,960</td>
<td>+8%</td>
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<tr>
<td>Attendance:</td>
<td></td>
<td></td>
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<tr>
<td>General</td>
<td>22,765</td>
<td>22,038</td>
<td>-3%</td>
</tr>
<tr>
<td>Private and public school tours</td>
<td>2,956</td>
<td>2,104</td>
<td>-29%</td>
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<tr>
<td>University class tours</td>
<td>290</td>
<td>482</td>
<td>+66%</td>
</tr>
<tr>
<td>Community organization tours</td>
<td>88</td>
<td>175</td>
<td>+99%</td>
</tr>
<tr>
<td>Tuesday talks/events/opening receptions</td>
<td>1,821</td>
<td>2,419</td>
<td>+33%</td>
</tr>
<tr>
<td>TOTAL:</td>
<td>27,920</td>
<td>28,671</td>
<td>+3%</td>
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</table>

JULY 2005

<table>
<thead>
<tr>
<th>NUMBER ATTENDED</th>
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<tbody>
<tr>
<td>7 UNM class</td>
</tr>
<tr>
<td>11 Special UNM tour</td>
</tr>
<tr>
<td>12 UNM class</td>
</tr>
<tr>
<td>15 Opening Reception Looking Back at the Present</td>
</tr>
<tr>
<td>21 UNM classes (2)</td>
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AUGUST 2005

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<tbody>
<tr>
<td>4 Amy Biehl Charter School tour</td>
</tr>
<tr>
<td>24 Montezuma Elementary School School tour</td>
</tr>
<tr>
<td>30 UNM class tour</td>
</tr>
<tr>
<td>30 Tuesday Talk: Michele Penhall, Looking Back at the Present</td>
</tr>
<tr>
<td>Date</td>
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<tr>
<td>SEPTEMBER 2005</td>
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<td>OCTOBER 2005</td>
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<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>NOVEMBER 2005</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Bandelier Elementary School tours (2)</td>
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<tr>
<td>7</td>
<td>UNM class tour</td>
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<tr>
<td>8</td>
<td>Tuesday Talk: Artist's Forum</td>
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<tr>
<td>15</td>
<td>UNM class tour</td>
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<tr>
<td>15</td>
<td>Tuesday Talk: Jennifer Ahlfeldt</td>
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<tr>
<td>16</td>
<td>East Mountain Elementary School tour (2)</td>
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<td>Albuquerque High School tour</td>
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<td>16</td>
<td>Gale Memorial Lecture: Don Ritter</td>
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<tr>
<td>17</td>
<td>Mountain View Elementary School tours (4)</td>
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<tr>
<td>18</td>
<td>Los Padillas Elementary School tour</td>
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<tr>
<td>22</td>
<td>Tuesday Talk: Michele Penhall &amp; Chris Jones <em>Altered Landscape</em> walk through</td>
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<tr>
<td>30</td>
<td>Cleveland Middle School tour</td>
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<table>
<thead>
<tr>
<th>Date</th>
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<tr>
<td>DECEMBER 2005</td>
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<td>Sierra Vista Elementary School tour</td>
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<td>Onate Elementary School tours (2)</td>
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<td>Date</td>
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<tr>
<td>JANUARY 2006</td>
<td>Chamiza Elementary School tour</td>
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<td>Griegos Elementary School tours (2)</td>
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<td>13</td>
<td>Lowell Elementary School tours (4)</td>
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<td>Eubank Elementary School tour</td>
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<td>15</td>
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<td>21st Century Academy tours (2)</td>
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<tr>
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<tr>
<td>FEBRUARY 2006</td>
<td>Inez Elementary School tour</td>
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<td>FEBRUARY 2006</td>
<td>Bellhaven Elementary School tour</td>
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<td>1</td>
<td>UNM class tour</td>
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<tr>
<td>2</td>
<td>Arroyo del Oso Elementary School tour</td>
<td>29</td>
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<td>9</td>
<td>Opening Reception: First Seen ICP</td>
<td>65</td>
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<tr>
<td>10</td>
<td>Guest Lecture: Buzz Hartshorn ICP</td>
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<tr>
<td>13</td>
<td>UNM Print Study Room class</td>
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<td>14</td>
<td>Tuesday Talk: John Mulvany Painting Matters</td>
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<td>21</td>
<td>Tuesday Talk: Feroza Jussawalla First Seen ICP</td>
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<td>22</td>
<td>UNM Print Study Room class</td>
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<tr>
<td>24</td>
<td>McKinley Middle School tours (4)</td>
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<td>28</td>
<td>Community tour, Art in the Schools, Inc.</td>
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<td>28</td>
<td>Gale Memorial Lecture: William L. Pope</td>
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<td>28</td>
<td>Tuesday Talk: Kathleen Howe First Seen</td>
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<thead>
<tr>
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<th>Event Description</th>
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<td>28</td>
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<tr>
<td>7</td>
<td>Gale Memorial Lecture: Robin McClosky</td>
<td>14</td>
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<td>8</td>
<td>UNM class tour</td>
<td>15</td>
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<tr>
<td>8</td>
<td>Print Study Room class</td>
<td>8</td>
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<td>8</td>
<td>Longfellow Elementary School tours (2)</td>
<td>46</td>
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<tr>
<td>8</td>
<td>Museum Focus class- Sara Otto-Diniz</td>
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<td>9</td>
<td>Print Study Room class</td>
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<td>9</td>
<td>Academy High School advanced photo tour</td>
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<td>21</td>
<td>St. Pius X High School tour</td>
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<td>21</td>
<td>Tuesday Talk: Behind the Scenes, Museum Education</td>
<td>25</td>
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<td>22</td>
<td>Print Study Room classes (2)</td>
<td>17</td>
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<tr>
<td>28</td>
<td>UNM class tour</td>
<td>18</td>
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<tr>
<td>APRIL 2006</td>
<td>Tuesday Talk: Michael Edgerton, Composer's Symposium</td>
<td>37</td>
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<td>5</td>
<td>Print Study Room class</td>
<td>8</td>
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<tr>
<td>6</td>
<td>Print Study Room class</td>
<td>15</td>
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<td>6</td>
<td>Puesta del Sol Elementary School tours (3)</td>
<td>61</td>
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<td>7</td>
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<td>7</td>
<td>UNM class tours (2)</td>
<td>22</td>
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<tr>
<td>7</td>
<td>Jefferson Middle School tours (2)</td>
<td>48</td>
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<tr>
<td>11</td>
<td>Tuesday Talk: Behind the Scenes, Museum Education</td>
<td>35</td>
</tr>
<tr>
<td>18</td>
<td>Tuesday Talk: Land Arts Panel</td>
<td>43</td>
</tr>
<tr>
<td>Date</td>
<td>Event Description</td>
<td>Attendance</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------------------------------------</td>
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<tr>
<td>MAY 2006</td>
<td>Zia Elementary School tour</td>
<td>34</td>
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<tr>
<td></td>
<td>Monte Vista Elementary School tour</td>
<td>28</td>
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<tr>
<td></td>
<td>Special Reception: Babs Baker retirement, Art &amp; Art History</td>
<td>70</td>
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<td></td>
<td>Edgewood Elementary School tours (3)</td>
<td>60</td>
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<td></td>
<td>Opening Reception: Clinton Adams</td>
<td>63</td>
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<tr>
<td></td>
<td>Maryann Benford Elementary School tours (3)</td>
<td>68</td>
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<td>Print Study Room class</td>
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JUNE 2006

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<tr>
<th>Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td></td>
<td>Opening Reception: Painting-Alive and Well!</td>
<td>258</td>
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<tr>
<td></td>
<td>Friends of Art Brunch</td>
<td>40</td>
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<tr>
<td></td>
<td>UNM class</td>
<td>6</td>
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<tr>
<td></td>
<td>Teacher’s Institute (Community)</td>
<td>10</td>
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<tr>
<td></td>
<td>Teacher’s Institute (Community)</td>
<td>10</td>
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<tr>
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<tr>
<td></td>
<td>Teacher’s Institute (Community)</td>
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</table>

Programs and Education Event Summaries
University of New Mexico Art Museum

270 Private and public school tours
46 UNM class tours
11 Community organizations tours
31 Tuesday talks, museum events, and opening receptions

Jonson Gallery

<table>
<thead>
<tr>
<th></th>
<th>FY 2004-2005</th>
<th>FY 2005-2006</th>
<th>% change from Previous year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours open to the public:</td>
<td>1,297</td>
<td>980</td>
<td>-32%</td>
</tr>
<tr>
<td>Attendance:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>1,235</td>
<td>1,022</td>
<td>-21%</td>
</tr>
<tr>
<td>Private and public school tours</td>
<td>98</td>
<td>145</td>
<td>+48%</td>
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<tr>
<td>University class tours</td>
<td>189</td>
<td>362</td>
<td>+92%</td>
</tr>
<tr>
<td>Community organization tours</td>
<td>58</td>
<td>119</td>
<td>+105%</td>
</tr>
<tr>
<td>Gallery talks, events/opening receptions</td>
<td>970</td>
<td>1,130</td>
<td>+17%</td>
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<tr>
<td>TOTAL:</td>
<td>2,550</td>
<td>2,778</td>
<td>+9%</td>
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August 2005

<table>
<thead>
<tr>
<th>Date</th>
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<tr>
<td>18</td>
<td>High Tech High School tour</td>
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September 2005

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<th>Date</th>
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<tr>
<td>2</td>
<td>Opening Receptions: At First Sight &amp; Jonson's Gallery</td>
<td>163</td>
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<tr>
<td>6</td>
<td>UNM 2-D Design class</td>
<td>40</td>
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<tr>
<td>7</td>
<td>Tuesday talk: Incoming Panel</td>
<td>73</td>
</tr>
<tr>
<td>8</td>
<td>UNM Art Ed class tour</td>
<td>19</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
<td>Page</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------</td>
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<tr>
<td>October 2005</td>
<td>Tuesday talk: Ruth Meredith, FOA Prize in Art History</td>
<td>33</td>
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<tr>
<td></td>
<td>FOA Board meeting</td>
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<tr>
<td></td>
<td>Opening reception for ¡Zapata Vive!</td>
<td>90</td>
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<tr>
<td>November 2005</td>
<td>Discussion: Teresa Avila and Samuel Brunk</td>
<td>55</td>
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<tr>
<td></td>
<td>UNM Spanish 101 class</td>
<td>27</td>
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<td></td>
<td>James Joyce Symposium reception</td>
<td>11</td>
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<td></td>
<td>UNM Sculpture class</td>
<td>22</td>
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<tr>
<td></td>
<td>Theresa Avila MA defense</td>
<td>12</td>
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<tr>
<td></td>
<td>FOA Board meeting</td>
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<tr>
<td></td>
<td>Theresa Avila gallery walk for SOLAS</td>
<td>7</td>
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<td></td>
<td>Special reception for Paul Ré</td>
<td>30</td>
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<td></td>
<td>UNM art education class tour</td>
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<td>UNM art education class tour</td>
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<tr>
<td>February 2006</td>
<td>Women Artists of the Southwest class</td>
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<tr>
<td></td>
<td>Gallery talk: John Bridges <em>A Life in the Balance</em></td>
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<tr>
<td></td>
<td>UNM painting class tour</td>
<td>14</td>
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<tr>
<td></td>
<td>UNM drawing class</td>
<td>16</td>
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<tr>
<td></td>
<td>UNM Museum Studies class</td>
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<td></td>
<td>FOA Board meeting</td>
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<td></td>
<td>Color Pencil Society tour</td>
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<td></td>
<td>McKinley Middle School tour</td>
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<td>March 2006</td>
<td>Pueblo Cultural Center docents</td>
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<td></td>
<td>UNM English Department, Southwest Symposium</td>
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<td>UNM Painting class</td>
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<tr>
<td></td>
<td>Tuesday talk: Joyce Szabo <em>A Life in the Balance</em></td>
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<td></td>
<td>FOA Board meeting</td>
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<td></td>
<td>St. Michaels, Arizona, Elementary School class tour</td>
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<td></td>
<td>Opening Reception for Juried Grad Exhibition</td>
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<td>UNM Painting class tour</td>
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<td>April 2006</td>
<td>UNM Ceramics class tour</td>
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<td></td>
<td>UNM Painting class tour</td>
<td>10</td>
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<tr>
<td></td>
<td>Gallery talk: Tara Zalewsky, FOA Prize recipient</td>
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<tr>
<td></td>
<td>UNM Painting class tour</td>
<td>16</td>
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<tr>
<td></td>
<td>Gallery talk: Karl Hofmann, Florence Henri Prize recipient</td>
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<td></td>
<td>FOA Board meeting</td>
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<td></td>
<td>Gallery talk: Christine Chin, Ana Mendieta Prize recipient</td>
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<td>Event Details</td>
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<td>25</td>
<td>Tamarind class tour</td>
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<td>27</td>
<td>UNM Drawing class tour</td>
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<tr>
<td>25</td>
<td>UNM Drawing class tour</td>
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</tr>
<tr>
<td>28</td>
<td>Opening reception: <em>The Far Horizon: The Frank Walker Memorial Exhibition</em></td>
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**May 2006**

<table>
<thead>
<tr>
<th>Date</th>
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<tr>
<td>2</td>
<td>Tuesday Talk: Tiska Blankenship <em>The Far Horizon</em></td>
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<td>3</td>
<td>Rio Rancho High School class tour</td>
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<td>19</td>
<td>Justin Lane MFA defense</td>
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<td>19</td>
<td>Opening Reception: <em>Playhouse Archives &amp; Birth of a Life</em></td>
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<td>31</td>
<td>Lea Anderson MFA defense</td>
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**June 2006**

<table>
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<tr>
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<td>FOA Board meeting</td>
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</table>

**Programs and Education Event Summaries**

**Jonson Gallery**

- 4 Private and public school tours
- 21 UNM class tours
- 5 Community organizations tours
- 19 Tuesday talks, Museum events, and opening receptions
D. Publications

Art Museum

- *Painting-Alive & Well*: 4-fold gallery guide, 8 pages, 8 color reproductions of the artists' work
- *Allegorical Constellations: Works by Frederic Sommer*: 4-fold gallery guide, 8 pages, 4 color illustrations
- *The Tibetan Ga’u: Portable Shrines from the Collection of Jacqueline Dunnington*: 6 pages, 1 color illustration
- *Architecture: Defining Spaces/Defining Times*: 4-fold gallery guide, 8 pages, 4 black and white illustrations, 3 color illustrations

Jonson Gallery

- *A Life in Balance: The Art of Conrad House*: exhibition catalog, 68 pages, 1 black and white photograph of the artist, 36 color reproductions of the artist's work
- *12th Annual Graduate Student Exhibition*: exhibition catalog, 32 pages, 30 pages of color illustrations
E. Museum Shop

Banner reports yearly income as $22,230.76 while the store ledger reports it as $22,043.25. The difference can be attributed to purchases Joyce Szabo made for $171.99 on her $350.00 FOA credit in fiscal year 2004-2005 (the full $350.00 credit was paid in full by the Friends of Art in fiscal year 2005-2006) and a cash drawer overage of $15.52 for the full year.

| Banner Total | $ 22,230.76 |
| Joyce Szabo Purchases on FOA Credit | $ (171.99) |
| Total Cash Drawer Overage | $ (15.52) |

| Total Adjusted Banner | $ 22,043.25 |
| Store Ledger | $ (22,043.25) |
| Total Discrepancy | $ -0- |

Total costs for FY 05-06, $27,851.87, caused the store to have a deficit of $5,808.62. The two largest contributing factors to this deficit were student salaries and a reduction in sales. The shop relied on both work study employees and student employees to fill the hole left by a work study's abrupt departure in the early weeks of the Fall Semester and the hole left when the Shop Manager was out on Catastrophic Leave. Student salaries increased from $11,702.95 to $14,465.07 as a result.

Additionally, sales fell from $24,984.06 to $22,043.25. This left the Museum Shop with diminished revenue to support its costs. Other factors that contributed to this deficit were a purchase by the Art Museum for $700 charged to the Shop's account and an inventory adjustment of $1,871.33. The Shop's inventory was reduced by this amount so that the adjustment appears as another of the Museum Shop's costs. This inventory adjustment brings the current inventory, which has shrunk from last year, to $17,437.41. The fund balance at the end of the fiscal year was ($5,108.62).
F. Friends of Art

Activities:
Annual brunch and tour of Painting- Alive & Well! at the UNM Art Museum, June 3, 2006

Best Friends Award, 2006:
Allene and Walter Klewenho

Awards given:
Art History: Ruth Meredith "A Promiscuous Image: A Multidisciplinary Investigation in How We Make Meaning"
Art Studio: Tara Zalewsky "The Evolution of Tara Zalewsky's Creatures, Sculptures, and Paintings"

Board 2005-2006:
Becky Brown, President
Barbara Witemeyer, Vice President
Lerke Foster, Secretary
Joyce Szabo, Treasurer

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

Ex officio:
Linda Bahm
Michele Penhall
Chip Ware
Ursula Stauber
6. Outside Sponsored Research and Collections Development

Art Museum
Funding agent: Stockman Family Foundation Trust
Title: Art Restoration and Conservation
Dates: July 1, 2005-June 30, 2006
Amount: $95,000
Project Director: Linda Bahm

Funding agent: MGS Foundation
Title: Directed purchase: Agustín Portillo War
Date: December 22, 2005
Amount: $3000
Project Director: Linda Bahm

Funding agent: Christopher Mead
Title: Directed purchase: Thomas Barrow Detritus
Date: May 11, 2005
Amount: $500
Project Director: Linda Bahm

Funding agent: Mr. and Mrs. Michael Carroll
Title: Friends of Art donation
Date: December 22, 2005
Amount: $500
Project Director: Linda Bahm

Funding Agent: National Endowment for the Humanities
Title: 19th Century Bound Volumes Conservation Assessment
Dates: January 1, 2005-June 30, 2006
Amount: $16,640
Project Director: Linda Bahm
Jonson Gallery
Funding Agent: Various One-Time Donors
Title: Exhibits and brochures
Dates: July 1, 2005 - June 30, 2006
Amount: $205.90
Project Director: Chip Ware

Funding Agent: Donation box
Title: Exhibits and brochures
Dates: July 1, 2005 – June 30, 2006
Amount: $39
Project Director: Chip Ware

Funding Agent: Dan Noyes
Title: Exhibits and brochures
Dates: July 1, 2005 – June 30, 2006
Amount: $120
Project Director: Chip Ware

Funding Agent: Sara Ann Bowler-Hill
Title: Exhibits and brochures
Dates: July 1, 2005 – June 30, 2006
Amount: $75
Project Director: Chip Ware

Funding Agent: Barbara Cochrane Brindenball
Title: Exhibits and brochures
Dates: August 22, 2005
Amount: $100
Project Director: Chip Ware

Funding Agent: Walter P. Kleweno Jr.
Title: Exhibits and brochures
Dates: December 19, 2005
Amount: $250
Project Director: Chip Ware

Funding Agent: GAA
Title: 11th Annual Juried Graduate Student exhibition and catalog
Dates: March 24-May 5, 2006
Amount: In-kind
Project Director: Chip Ware

Funding Agent: Evelyn S. Walker
Title: Frank Walker Exhibition
Dates: April 12, 2006
Amount: $280
Project Director: Chip Ware

Funding Agent: Jan Alden Cummings
Title: Frank Walker Exhibition
Dates: April 12, 2006
Amount: $100
Project Director: Chip Ware
Funding Agent: Coleman Gallery Contemporary Art
Title: Frank Walker Exhibition
Dates: April 12, 2005
Amount: $100
Project Director: Chip Ware

Funding Agent: Art Department
Title: Work study support
Dates: August, 2005 – May, 2006
Amount: $1800
Project Director: Chip Ware

Funding Agent: Exxon Mobil Foundation
Title: Exhibits and Brochures
Dates: April 12, 2006
Amount: $750
Project Director: Chip Ware
7. Professional Activities

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

Lectures:
   Assisted Preparator Kate Guscott, Behind The Scenes: Free Museum Preservation workshop
     March 28, 2006

Teaching:
   Museum Studies 485/585: Seminar in Museum Methods, January 17, 2006-May 12, 2006

Professional meetings and classes attended:
   University Museums and Collections annual meeting, Uppsala, Sweden, September 25-October 1, 2005
   American Association of Museums annual meeting, Boston, Massachusetts, April 27-May 1, 2006

Kelvin Belieke
   Member, Modern Language Association
   Member, International Society for Travel Writing

Professional meetings and classes attended:
   EOD, Securing Private Data (Web Course) January 17, 2006
   EOD, Defusing Anger, March 28, 2006
   Banner Finance DP-EZ Workshop April 17, 2006

Teaching:
   English 150, The Study of Literature, August 23-December 16, 2005

Professional Activities:
   Conference paper: “Made Beautiful by Human Sympathy: Hamlin Garland’s Main-Travelled Roads,”
     American Literature Association Conference, San Francisco, California, May 26, 2006
   Twelve dissertation hours completed toward PhD degree

Publications:

Michael Certo
   Member, Board Member of Albuquerque Contemporary Art Center [AC²]
   Member, Albuquerque Arts Alliance

Professional activities:
   ACVB Conference on Tourism, February 2006
   Guest lecturer: Museum Studies 485/585: Seminar in Museum Methods, April 2006
   Artisan Selection Committee, Sawmill Artist’s Community Housing Project, 2005-2006
Kathryn A. Guscott
Member, American Institute for Conservation

Professional meetings and classes attended:
Annual American Institute for Conservation meeting, Providence, Rhode Island, June 15-20, 2006

Professional activities:
Behind The Scenes: Free Museum Preservation workshop, October 11, 2005
Behind The Scenes: Free Museum Preservation workshop, March 28, 2006

Steven Hurley

Professional meetings and classes attended:
Behind-the-Scenes tour, Albuquerque Biopark and Aquarium, May 12, 2006

Professional activities:
Consultant, design and installation of Lee Marmon photography exhibition, Indian Pueblo Cultural Center, November 19, 2005
Assisted Preparator Kate Guscott, Behind The Scenes: Free Museum Preservation workshop March 28, 2006
Consultant, design and installation of Charlie Carrillo retable exhibition, Indian Pueblo Cultural Center, April 1, 2006

Christopher Jones
Member, American Association of Museums

Professional activities:
Thesis hours completed toward Master of Arts in Art History

Sara Otto-Diniz
Member, Albuquerque Public School Fine Arts Advisory
Member, American Association of Museums
Member, National Art Education Association, and Museum Education Division
Member, New Mexico Alliance for Arts Education, vice-chair
Member, New Mexico Art Education Association
Member, City of Albuquerque, Tricentennial Visual Arts Committee
Member, New Mexico Foundation on Social Justice Advisory Board
Member, New Mexico Association of Museums

Professional meetings and classes attended:
National Art Education Association annual conference, Chicago, Illinois, March 2006
Museum Education Pre-Conference, Chicago, Illinois, March 2006
Teaching Institute for Museum Educators, Chicago, Illinois, July 2005
Learning in Museums: Interpretation: Vision, Implementation, Sustainability, St. Louis, Missouri, June 2006

Teaching:
Professional development in art education for teachers, Clovis, New Mexico, August 2005

Professional Activities:
Panel Presentation, NMAM, September 2005
Presentation, NMAEA, “The Experience of Art,” November 2005

Lectures:
Justine Andrew’s (UNM Art History) Ancient-Medieval Survey, on Architecture-Defining Spaces/Defining Times, October 2005
Anne Taylor’s (UNM School of Architecture and Planning) Architecture and Children Class on Qualitative Research, November 2005
Museum Studies, Seminar in Museum Methods: Exhibitions From Conception to Reception, Spring 2006
Beth Maloney’s Museum Education class, March 2006

Mentoring:
Elaine Ritchel, UNM Art History undergraduate
Emily Young, UNM Art Education graduate student
Rhea Zamora, South Valley Academy high school student project
Savina Dimitrova, La Cueva high school student internship.

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

Professional meetings and classes:
  - NMAM annual conference, Albuquerque, September 23, 2005
  - Principal Investigator workshop, September 14, 2005
  - American Association of Museums seminar, St. Louis, Missouri, June 16-17, 2006

Teaching:
  - Adjunct Associate Professor, Department of Art and Art History
  - Art History 552: Problems in Art History

Lectures:
  - Guest lecture on 19th century French architectural photography for Prof. Eleni Bastea’s Architecture 424/524 course, October 4, 2005
  - Guest lecture on William Hogarth for Prof. Carolyn Woodward’s English 455/555 course, February 21, 2006

Lee Savary
Member, New Mexico Association of Museums

Professional meetings and classes attended:
  - Committee Member, Albuquerque, 2008 International Sculpture Conference

Teaching:

Shelley Simms
Professional meetings and classes attended:
  - Art Education 461: Student Teaching in the Senior High School: August 2005-October 2005
  - Banner Finance, DPEZ Workshop, April 14, 2006

Professional activities:
  - Juror, UNM Staff as Artists exhibition

Ursula Mines Stauber
Member, Museum Store Association

Professional Meetings and Classes Attended:
  - Banner Finance, Higher Markets Refresher July 15, 2005
  - Banner Finance, Tracking Purchases Refresher August 22, 2005
  - EOD, Securing Private Data January 17, 2006

Bonnie K. Verardo
Member, American Association of Museums
Member, American Association of Museums, Registrar’s Committee
Member, Mountain Plains Museums Association
Member, Mountain Plains Museums Association, Registrar’s Committee
Member, New Mexico Association of Museums
Member, Advisory committee, De Anza Motel (Albuquerque) mural restoration project

Professional Activities:
  - Training Session: Collections Management procedures and policies for Harwood Museum of Art, Taos, work study employee, November 16, 2005
Professional meetings and classes attended:
  New Mexico Association of Museums, Albuquerque, New Mexico, September 21-23, 2005
  American Association of Museums Annual Conference, Boston, Massachusetts, April 27-May 1, 2006
  Photography with a Digital Camera, March 31-April 21, 2006 (12 hours), UNM Continuing Education

Teaching:
  Museum Studies 485/585: Seminar in Museum Methods, January 17, 2006-May 12, 2006

Community Service:
  Presenter: UNMH medical student training session for Ovarian Cancer Awareness, sponsored by the National Ovarian Cancer Coalition, local chapter, September 30, 2005, and November 11, 2005

Robert Ware
  Member, Friends of Art
  Member, Contemporary Art Society
  Member, Gallery Advisement Committee, Santa Fe Community College
  Member, Advisory Board of the Steffen Thomas Museum, Madison, GA

Professional meetings and classes attended:
  Several graduate committee meetings
  Successful Grantsmanship and Proposal Writing class, June 20-22, 2006

Professional Activities:
  Member of Curator II Search Committee, Harwood Museum, Taos, October-November, 2005
  Interviewed by Connie Gotsch for NM arts program on KSJE Farmington, March 6, 2006
  Portfolio reviewer for Review Santa Fe, May 12-13, 2006
Appendices

A. Personnel

Permanent Staff:

Tyler R. Anderson, Curatorial Assistant
Linda Bahm, Director
Kelvin Beliele, Administrative Assistant
Michael Certo, Curator of Education and Public Programs
Kathryn A. Guscott, Conservation Preparator
Steven Hurley, Curatorial Assistant
Christopher A. Jones, Asst. Curator
Michele Penhall, Print & Photo Curator
Augustine Romero, Curatorial Assistant
Ursula Mines Stauber, Museum Shop Manager
Lee Savary, Exhibitions Curator
Shelley Simms, Administrative Assistant, Jonson Gallery
Bonnie K. Verardo, Collection Manager
Robert "Chip" Ware, Jonson Gallery Curator

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

Brooke Baillet, Temporary, Education
Megan Barber, Workstudy, Jonson Gallery
Stephanie Brown, Workstudy, Museum Shop
Amy Carter, Workstudy, Jonson Gallery
Stephanie Chu, Workstudy, Museum Shop
Dan English, Workstudy, Museum Shop
Wei Pan, Workstudy, Museum Shop
William Gassaway, Workstudy, Museum Shop
Kaitlin Gonzalez, Workstudy, Education
Diana Katz, Workstudy, Museum Shop
Audra Kerwin, Workstudy, Jonson Gallery
Sandra Ludescher, Workstudy, Jonson Gallery
Sara Nezamabodi, Workstudy, Jonson Gallery
Sara Otto-Diniz, Temporary, Training Consultant
Katherine Ponomis, Temporary, Project Manager
Maria del Rocio Sanchez, Workstudy
Kyrsten Sanderson, Student Employee
Michael Schissel, Temporary, Education
Colin Shirek, Workstudy, Jonson Gallery
Sheri Sorensen-Clem, Volunteer
19th Century Cataloguing Project
Elena Suffling, Workstudy, Museum Shop
Marissa Valdez, Workstudy, Museum Shop
Emily Young, Project Assistant, Education

January 8, 1999-September 2, 2005
December 9, 1985
April 19, 1999
April 5, 1999
July 3, 1995
November 9, 2005
January 13, 2003
November 8, 2004
August 30, 2004-September 8, 2005
October 2, 2000
August 3, 1992
January 6, 2003
November 1, 1995
August 7, 2000
November 16, 2005-December 16, 2005
October 28, 2005- May 12, 2006
August 24, 2005-
August 22, 2005- June 30, 2006
September 1, 2005-May 12, 2006
January 7, 2003-August 26, 2005
January 7, 2003-May 12, 2006
February 22, 2006-
October 10, 2005-December 16, 2005
August 22, 2005-
January 10, 2003-December 2, 2006
June 13, 2005- May 12, 2006
October 28, 2005-February 10, 2006
November 1, 2003
December 6, 2004
January, 2005
October 3, 2003
July 12, 2005-October 11, 2005
August 22, 2005-October 28, 2005
February, 2006
May 17, 2005-
August 24, 2005-May 12, 2006
January 17, 2006
B. Committees

UNM Art Museum Advisory Committee, 2005-2006

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

Jonson Gallery Sub-Committee on Jonson Collections

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

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

Adjunct Curators: UNM Art Museum

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

Gifts
Listed by Donor
Artist, Title, Date, Medium

Julie Anand
Julie Anand
_Fountain Hills Country Club_, n.d.
Inkjet print

Jeff Beekman
Jeff Beekman
_Untitled_ (human head)
Earthenware with ink

Pierre E. Berry
Constantine Pougialis
_Untitled_, n.d.
Lithograph

Charles Pinel
_chartres vue de la Porte Guillaume_, n.d.
Etching

Leroy Burkett
_Ecce Homo_, 1950
Watercolor and ink on paper

Unknown
_Untitled (Nara pre WWII Japan)_ , n.d.
Gelatin silver print

Unknown
_Untitled (Nara pre WWII Japan)_ , n.d.
Gelatin silver print

Jacqueline Dunnington
Unknown
_Untitled_ (Tibetan style stupa)
Wood and enamel

David Craven
Raúl Quintanilla
_A pesar de Usted: It’s Still Ticking_, 1990
Mixed media on paper

Honorable Daumier
_Au Restaurant A 32 Sous_, n.d.
Lithograph

Unknown
_Arte Factoria, X puro rigio X: Una exposicion Organizada or ArtFacto_, 1998
Laser printed photocopy

Alicia Zamora
_Sisfo (Sisyphus): Una exposicion en saludo a los artistas centroamericanos que, no ganen la bienal_, 2002
Laser printed photocopy

Luis Morales Alonso
_Presenta Grupo Tafo_, 2002
Laser printed photocopy

César Pérez
_Rossi Lopes Huelva: Homenajo 50 años en el arte_, 2002
Offset lithograph

Ray A. Graham
Robert Adams
_Untitled_, n.d.
_Untitled_, n.d.
_Untitled_, n.d.
Gelatin silver prints

Herbert Lotz
_Herbert Lotz Richard and Charles_, 1994
Gelatin silver print

Charlotte M. Toulouse
Gene Lloyd
_Untitled_ (the slaying of Governor Bent in Taos), c.1970
Oil on canvas
_Old Mill_, c.1969
Pastel on paper

Jake Haverstick
_Taos Cottonwoods (on the road to Mable Dodge Lujan’s compound), c.1940_
Oil on canvas

Jack Cannon
_Battle of Brazito_, c.1970
Watercolor

George B Marks
_Siege of Alma_, c.1962
Oil on canvas

James Wayne Yazzi
_Yet-Ba-Chi Dance_, c.1962
Casein and oil on paper
J.H. Richards
**Untitled (road to Sandia Crest), c.1973**
Watercolor on paper

Winter in Taos, c.1960
Watercolor
**Untitled (House setting in Taos), c.1971**
Graphite and charcoal on paper

Joseph A. Imhof
**Flagalentes, c.1940-50**
Lithograph

Dr. John Ryder
Alfredo Rostgaard
**Cristo como guerrillero (Christ as Guerrilla), 1968**
Screenprint

Unknown (artist from El Salvador)
**Campesino crucificado (Crucified Peasant), 1981/82**
Offset lithograph

Taller de Gráficas Experimental
**No Intervención, n.d.**
Mujer Revolución, 1981
2	extsuperscript{nd} Festival de los Trabajadores, 1982
Offset lithographs

Antonio Reyes
**Sandino y Fonseca están alfabetizando, 1980**
Offset lithograph

Rafael Vargas
**La cinemateca de Nicaragua, 1982**
Offset lithograph

Carol Wells
**Ernesto Cardenal’s Poem “O Hour,“ 1981**
Offset lithograph

Joel Peter Witkin
**Face of a Woman, 2004**
Toned gelatin silver print
Gift of the artist

Christine Chin
**The Genetically Modified Foods Cookbook, 2005**
Artist book
Gift of the artist

Frank Walker
**Good Luck, 1999**
Oil on canvas
Gift of the Frank Walker Estate

**Purchases**

Michael Sonnichsen
**Reductio Ad...D, 2003**
Woodcut
Purchased with funds from the UNM Art Museum Friends of Art

Ian van Coller
**Natural History: Buffalo, 2004**
Digital Print
Memorials: Nelson, 2004
Ambrotype and mixed media
Purchased with funds from Carolyn and Richard Sweetland and UNM Art Museum

**Directed Purchases:**
Thomas Barrow
**Detritus, 2005**
Portfolio of twelve lithographs
Christopher Mead and Museum Purchase

Augustin Portillo
**America-War, 2004**
Oil on canvas
Purchased with funds from the MGS Foundation
D. Works Deaccessioned

E. Conservation Lab

Tram Vo, a conservator who has worked with the Art Museum for several years, was brought in for two two-week periods, December 5, 2005-December 16, 2005, and April 17-28, 2006. Ms. Vo and Kate Guscott, the Art Museum Preparator, surveyed seventy-seven collection objects and determined the necessary treatment. These twenty-seven objects, including works by John Marin, Aaron Siskind, Ansel Adams, Paul Strand, Gustave LeGray, and Francis Frith, were conserved. Conservation included removal of backings, consolidation, repair and re-mounting. Several paintings in need of minor repair were delivered to Luis Neri Zagal, an Albuquerque painting conservator.

F. Institutions to Which We Have Loaned Work

Art Museum
Peggy Guggenheim Collection, Venice
Venice, Italy
June 4 – September 18, 2005

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

Boise Art Museum
Boise, Idaho
June 30 – September 18, 2005

Museum of Fine Arts Boston
Boston, Massachusetts
August 21 – December 31, 2005

Figge Art Museum
Davenport, Iowa
September 17, 2005 – January 1, 2006

The Chinati Foundation
Marfa, Texas
October 8, 2005 – May 15, 2006

University of Virginia
Charlottesville, Virginia
January 14 – February 26, 2006

Tacoma Art Museum
Tacoma, Washington
January 29 – May 21, 2006

Museum of New Mexico
Museum of Fine Arts
Santa Fe, NM
February 3 – April 23, 2006

Centre Pompidou
Paris, France
March 8 – June 26, 2006

Cincinnati Art Museum
Cincinnati, Ohio
June 23 – August 18, 2006

Jonson Gallery
Albuquerque International Sunport
Albuquerque, NM
January 6, 2004 – December 16, 2005

St. George Art Museum
St. George, Utah 84770
March 2 – August 4, 2005
UNM Gallup Branch
Dr. Beth Miller, Executive Director

Significant Developments:
- Campus began discussing the Academic Quality Improvement Program (AQIP) as the tool for institutional effectiveness and accreditation
- Began Campus Master Plan process
- Banner implementation
- Enrollments fell by 2.9%
- Hired new Director of Business Operations
- Capital projects planning – Health Careers II and Northside expansion, Student Center, Technology Center/Classroom Building
- Established partnership with Giant Refineries, Conoco/Phillips, El Paso Natural Gas for contract training and academic program
- Developed contract training programs for Zuni and the Navajo Nation Workforce Development agencies
- Held initial conversations regarding training for Navajo Nation Local Empowerment Act
- Implementation of Achieving the Dream, TRiO, and Title III grants—all targeted at improving student retention—initial programs resulting in increased retention
- Developed policies for field trips, travel expenses, campus closing due to weather conditions, and developed emergency management plan
- Established Development Board and held first development event
- Finalized plans for new Health Careers II building and expansion of Northside Center
- Developed new programs in Natural Resource Conservation, Radiology Technologist, Maintenance and Industrial Technician
- Began researching concept of a “One Stop Center” in Student Services
- Received substantial support for legislative efforts
- Middle College High School met annual yearly progress
- Supported Student Senate projects such as Veterans Day observation
- Supported development of UNM-G drumming group
- Held meetings of the McKinley Area Education Consortium, addressing articulation and dual enrollment projects
- Developed plan for addressing deferred maintenance projects
- Served on Board of Rural Community College Alliance, Rehoboth McKinley Christian Health Care Services, and the Gallup McKinley County Chamber of Commerce/McKinley Development Foundation

Significant plans and recommendations:
- Fill Director of Student Services position
- Develop plan to improve enrollments
- Expand Development Board, plan capital campaign, and develop other giving opportunities
- Continue retention activities as part of AtD and Title III Programs
• Plan future capital projects, including Student Center and Technology Center/Classroom Building
• Complete campus strategic plan update, campus master plan, and infrastructure plan
• Continue to refine plan for grants oversight
• Continue to expand workforce training opportunities
• Strengthen ties with business community and include in program advisory committees
• Increase enrollments in CCTE program
• Continue successful growth of chartered Middle College High School
• Support initiatives of the Instructional Dean
• Deferred maintenance a continuing challenge
• Support budget/finance projects; develop staff training opportunities
• Identify next steps for development of the MAEC (McKinley Area Education Consortium)

UNM Gallup Branch
Community Affairs Division
Larry Sanderson, Director

Significant accomplishments during the year:
Development
• Increased endowed base from $194,991 to $534,991 – 174% increase.
• Formed local development board.
• UNM capital campaign proposal submitted (Ceremonial Project).

Workforce Training and Community Education
• Increased training hours from 19,702 to 24,845 – 26.1% increase.
• Established CDL training course.
• Developed Mechanical and Industrial training seminars.
• Proposed development of Mechanical and Industrial Tech AA degree program.
• Developed local chapter management training program for the Navajo Nation.

Public Relations and Communications
• Initiated film project for the Inter-Tribal Indian Ceremonial.
• Produced short film on Navajo weaving.
• Produced 4 campus/community newsletters.
• Produced and distributed 30+ press releases.
• Coordinated guests for 24 regular radio broadcasts, special radio broadcasts and TV.

Future Focus
• Development of comprehensive campus communications plan.
• Development of integrated marketing plan.
• Department re-organization and structuring to support operations.
• Expansion of non-credit training.
• Development of an expanded system of operating partnerships.
• Target grant opportunities and initiate new submissions.
• Increase development efforts.
COLLEGE OF ARTS AND SCIENCES

ANNUAL REPORT
2005/2006

By: Interim Dean Vera Norwood
I. Overview of the College of Arts and Sciences, 2005-2006
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III. Recent Major Developments in the College of Arts & Sciences
IV. Affirmative Action
V. Research and Scholarly Activities
VI. Teaching Activities
VII. Special Projects and Functions
   Advisement Center
   Traffic and Availability
   Other Initiatives
   Curriculum
   College of Arts & Sciences Graduate Committee
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   Enrollment Management Initiatives
   Education Outreach Activities, FY 2005-2006
   A&S Teachers' Institute
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   College Scholarships
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VIII. Department Reports

Tables

4. A&S Faculty Travel Disbursements – 2005-2006
5. A&S Disbursements of Special College Funds – 2005-2006
7. Standing Committees II: Undergraduate and Graduate Committees – 2005-2006
10. FTE Budgeted Faculty and TAs – 2005-2006

Appendix 1. New By-Laws of the College
I. OVERVIEW

The College’s administrative team in 2005-06 remained the same during the year with Rob Duncan returning from sabbatical and serving as Associate Dean for Research. Duncan resigned effective the summer 2006 in order to become Acting Director of the Institute for Advanced Studies with the LANL consortium. After a competitive, internal search, Professor Mike Dougher was named Associate Dean for Research beginning Fall 2006.

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

II. ADMINISTRATION

During 2005-2006, Senior Associate Dean Slaughter continued to assume responsibilities for various aspects of College administration related to faculty. These included organizing and advising the College tenure and promotion review committees (see Table 2), meeting with faculty coming up for reviews, consulting with department chairs on faculty progress through the ranks, and reviewing and making recommendations to the Dean on all tenure, promotion and mid-probationary reviews. She advised the Dean, and the Chairs and Directors on policies and practices related to annual reviews and post-tenure reviews of faculty. She also served as the College Hiring Officer, with oversight of search, recruitment and selection efforts associated with the appointment of new faculty in the College (see Table 3 for results of these activities). Additionally, she assisted the Department of Anthropology as Chair of the Search Committee for their new department Chair. She convened and served on the College Sabbatical Review
Committee, and oversaw the review and award of the Research Semester which provides Junior Faculty with a semester released from teaching Responsibilities.

Slaughter also allocated special funds for faculty travel (see Table 4) and the College Speaker’s and Conference Fund (see Table 5). She oversaw the Faculty Development Fund to support faculty research efforts, which is funded with $30,000 from the Office of the Vice President for Research and Economic Development, and $15,000 from the Dean. That program provided funding for conferences on subjects ranging from “International Particles and Nuclei,” to “Early Modern Philosophy,” to explorations of cross-cultural relations between Native Americans and African Americans, to the Peace and Justice Fair. Popular speaker’s series open to the public organized by the International Studies and Medieval Studies Institutes also received funding from the College.

She continued to be responsible for the interdisciplinary programs, discussing with the directors ways to expand interdisciplinary collaboration, and encouraging joint grant applications, and developing of shared hiring proposals. These efforts are in the spirit of many of the new initiatives recently announced as part of the University’s mission and goals. As a slightly different dimension of these same goals the College began discussions of ways in which we can encourage student travel abroad, and help to make international experience a regular and sustained part of faculty and student life.

In recent years the College has grappled with increased enrollments and pressures for more entry level courses while also increasing retention rates for incoming students. To meet these needs, in the past the College has relied heavily on large numbers of part time instructors, but hiring of semi-permanent, full time lecturers has become more and more common. This has proven to be a fairly effective way to meet student demand, improve the quality of teaching, and
provide a much more equitable and professional experience for the instructors. Ten new faculty were appointed as Lecturers in August 2005 making the total number of individuals at that rank, 43. During 2005-2006, Associate Dean Slaughter began conversations with various Department Chairs and faculty addressing needs and concerns of these new faculty. In addition, she served on a University wide committee created to look at conditions for part-time faculty with the goals of providing more job security, benefits, and improved working conditions. That effort is ongoing.

Associate Dean Robert Duncan returned from sabbatical and continued his duties as Associate Dean for Research. Refer to Section V.

Associate Dean Mark Ondrias continued in his position as Associate Dean for Curriculum and Instruction, directing the College’s student advisement efforts, handling curriculum changes, graduation requirements, and student complaints and academic disputes. He managed scheduling and budgeting for the Summer Session (see Table 6) and Evening and Weekend Degree programs.

Ondrias served as the College’s Office liaison to the Arts and Sciences Undergraduate and Graduate Committees (see Table 7), convening those two groups and facilitating their work.

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

The cadre of chairs in the College continued to change in 2005-2006, with the new chairs and the acting chairs in place at the beginning of the year. In addition, our many programs had six new directors. 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 staff from the Office of the Vice President for Research and Economic Development. We also held our annual day long Chairs’ & Directors’ Retreat, updating Chairs and Directors on topics such as fiscal matters, College and University policies, retention and graduation initiatives, instructional effectiveness, faculty development, proper use of the College web-site, Development goals, and much more.

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

Our instructional and general budget remains under some pressure, given the rise in freshmen enrollments 3794 in Fall 2001 to 4422 in Fall 2006) and overall enrollment continuing at record levels. The number of graduates continues to increase as well (see Tables 8 and 9 for degrees awarded, and Table 10 for instructional budget commitments). We received significant help in making more progress in 2005-06 with an increase of $1.1 million for faculty hires and $400,000 in graduate student assistance support to provide discussion sections in large lecture courses. With the rest of Academic Affairs, the College suffered a funding setback mid-year, when $485,173 in recurring funds was reallocated out of the College by central administration. We did, however, receive an allocation of $349,000 for our academic Success initiative, which enabled us to launch innovative projects in a number of departments to improve the success of students in core lower division courses.
Most significantly, during 2005-06 the College and School of Medicine finalized plans for a new combined BA/MD degree, won approval of the curriculum from the Faculty Senate and the state, and achieved the first year of funding. Much of the success of this effort was due to the extraordinary dedication and work of Professor Richard Santos (Economics) and Professor Gary Harrison (English). The first class will be admitted in Fall 2006. Details of the program are detailed below in the BA/MD’s separate Annual Program Report.

Sachiko Isobe continued as our Constituent Development Officer and Debbie Dobson continued as a Development Specialist. We plan to add another development staff person in 2006-07 in recognition of the growing success of the College in identifying and cultivating prospects. Elly Van Mil continued as our Communication Specialist, and is involved in preparing rants for student training, programs and facilities as well as other kinds of communication.

Building projects were a key development in the College during 2006-06. Through student bonds, we received $5 million to renovate the Communications and Journalism building into a state of the art facility.

The College received $7 million in funds to renovate Castetter Hall in order to provide new introductory Biology laboratories. And, we generated $5.6 million in new funds in support of the Biology department’s genomics wing expansion. This expansion will increase vital research lab spaces in a key research area for the department. This is a phased project for which we continue to seek additional funding at the state and federal level.

The student bond supported $16 million in new funds to construct a Science and Mathematics Learning Center - a state of the art facility that will house Biology, Chemistry and Earth and Planetary Sciences introductory course labs, “smart” classrooms for mathematics
instruction, and bring together a scattered mathematics faculty into one facility. The $16 million was matched with $7 million from the New Mexico Legislature during the 2006 Session.

Our draft case statement for the university's planned capital campaign was submitted to the Provost. The statement details a $35 million plan for improving education, research and public service across the College from entering students through our National Academy of Sciences faculty members. Our plan was approved in Fall of 2006 and our priority for 2006-07 will be to continue to develop a strong understanding of our potential donor base. The Development staff and the Interim Dean worked on this during the year and will continue with this endeavor during the coming year.

IV. AFFIRMATIVE ACTION

The College continued its efforts to increase the cultural and gender diversity among its faculty during the 2005-2006 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 2005-2006 added fifty new faculty (including sixteen full-time lecturers). Of those appointed, eighteen are female, nine are Hispanic, three are Native American, and two are African American. These are impressive numbers and we are pleased to have been so successful in expanding the gender and cultural diversity of College faculty.

During AY 2005-2006, the College continued its efforts to ensure equity within the faculty salary structure for members of underrepresented groups and to provide support to those faculty for the purpose of career development at the individual level. In the year ahead we will
continue existing programs for faculty development, and consider new initiatives, particularly those designed to support recently tenured faculty as they move toward promotion to Full Professor. In order to obtain a more accurate view of general College equity in such things as rank and salary, the College funded a major research project on these matters during Spring and Summer 2005, which was carried out by three female faculty in the Department of Economics. We expect to have the results of this study for inclusion in next year’s annual report.

V. RESEARCH AND SCHOLARLY ACTIVITIES

The total level of sponsored research, contracts, and grants at UNM increased rapidly from $164.3M in FY96 to $298.6M in FY06. The College of Arts and Sciences was by far the top performer on UNM’s Main Campus in FY06 with 430 awards received and $41,052,962, and second only to the HSC in both research proposals and research expenditures. In FY06 the College of Arts and Sciences generated 20% of all the research proposals submitted from UNM, and we responsible for 22% of all Facilities and Administrative (F&A) costs derived from sponsored research throughout UNM.

This growth in research is advantageous for two reasons: First, it permits our faculty to become more active through their leadership roles in their disciplines and their professional societies, which advances UNM’s reputation as a major ‘Research Extensive’ University within the United States. Secondly, this increased role generates a true influx of money to New Mexico that would otherwise not be available to UNM or the State. The $298.6M from our sponsored research, contracts, and grants activities provide a measure of the extent to which others within the United States and throughout the world are willing to invest in New Mexico’s scholarly and service activities. While most of the external sponsored research funding within the College of
Arts and Sciences is received in the ‘Natural Sciences’ (Biology, Physics and Astronomy, Chemistry, Earth and Planetary Sciences) and Mathematics, the College has received far more than the national norms of funding for our efforts in Psychology and the Social Sciences.

College of Arts and Sciences joined with the School of Engineering, the School of Medicine, the College of Pharmacy, and the Office of the Vice President of Research and Economic Development (VPR/ED) to fund a call for proposals entitled “Cross-Campus Collaborations in the Life Sciences”. This program provided nine grants of $25,000 each over a one-year period to seed new collaborative research activities that involved at least one investigator from UNM’s main campus and at least one investigator from the Health Sciences Center. The proposed principal investigator could be from either Health Sciences or from the main campus. Over fifty proposals were received in response to this solicitation, and they were judged on the basis of both scientific merit and the probability that initial funding would lead to more major externally-funded research awards. Proposals were solicited in research that spanned all aspects of the life sciences. This included bioscience and biotechnology proposals, and proposed studies of the economic, ethical, and societal issues within the life sciences. Proposals that utilized UNM’s high-performance computing capabilities were specifically encouraged. This internally-funded UNM program was coordinated by Dr. Denise Wallen, Special Assistant to the VPR/ED, and the Associate Dean for Research from each unit sponsoring this call formed the review committee that determined the successful proposals.

Of the nine proposals that were awarded in this first year, investigators within the College of Arts and Sciences were directly involved in five of these proposals, and this was more than any other unit on the main campus. This success was due primarily to the size and intellectual diversity of the College of Arts and Sciences. A formal outcomes assessment from this call has
not been conducted, but the call was generally considered a success in that it encouraged visionary research between investigators across the UNM Campus.

The **Joint Science and Technology Laboratory** effort was continued into its third year at UNM, lead this year by the Associate Dean for Research within the College of Arts and Sciences. This program was funded through a Memorandum of Understanding between the University of California and UNM, with the intention of expanding joint research between UNM and Los Alamos National Laboratory (LANL). A total of $500,000 was awarded to fund six successful proposals, and two of these successful projects were lead by principal investigators within the College of Arts and Sciences. The review committee within this effort included the Associate Dean for Research from Arts and Sciences, Engineering, Medicine, and Pharmacy, the Senior Associate Vice President for Research and Economic Development, and the leaders of five technical divisions within LANL. Projects that were funded in the first two years of the JSTL effort were not eligible for additional funding in this third year, since the nature of these grant awards was to provide initial funding to efforts that were expected to grow into longer-term, mature collaborative efforts capable of attracting outside sponsored research funding.

UNM joined with NMSU and NMT to form the **New Mexico Consortium** (NMC, a part 501c3 non-profit corporation) under a Joint Powers Agreement, and the NMC teamed exclusively with Los Alamos National Security (LANS), a new company that was formed by the University of California and Bechtel Corporation to bid on the management contract to operate LANL. This bid prevailed, and LANS became the managing entity of LANL beginning on October 1, 2006. Under the Teaming Agreement with LANS the New Mexico Consortium formed the Institute for Advanced Studies (IAS) at LANL. The IAS has become the most recent of five academically-lead institutes at LANL, and the other four institutes are lead by University
of California campuses. Professor Robert Duncan of the Department of Physics and Astronomy within the College of Arts and Sciences was selected as the founding director of the IAS. LANL has provided the IAS with $2M in funds and extensive in-kind services during its first year of operations. The IAS supports efforts to propose major new collaborative research programs and new educational opportunities between the NMC universities and LANL. Recently the IAS has teamed with LANL’s Biosciences Division to prepare a major $125M proposal to form and operate a National Bioenergy Research Center for the Department of Energy, and this proposal involves many faculty members from throughout the NMC within its scientific leadership, including Professor Debra Dunaway-Mariano of the Department of Chemistry within the College of Arts and Sciences at UNM. Please see www.nmcias.org for more information on the IAS.

In order to continue to expand and leverage this impressive research growth, the Associate Dean for Research works closely with the Grants and Communication Specialist.

During FY 2005-2006, the Grants Specialist of the College of Arts & Sciences worked with each of the Associate Deans and the Dean in achieving important goals for the College. To follow up about results of previous year’s submissions, we learned about funding awards with a total of $9.56M for the following programs, in which the Grants Specialist prepared proposals:

- NIH PREP--Brozik, $2.2M, awarded September 2005
- HHMI--Brown, et al., $1M, awarded November 2005
- NSF GK-12--Collins & Crossey, $1.7M, awarded December 2005
- NSF Nanoscience IGERT--Huffaker et al., $2.96M awarded February 2006
- NIH MARC--Dasenbrock/Nelson, $1.7M awarded April 2006

Among the projects the Grants Specialist assisted A&S Faculty and Staff are:

- Final proposal and forms were completed for the Nanoscience and Materials Science (NSMS) M.S. and Ph.D. degree program. We obtained approvals through several levels of authority (department, college/school, Faculty Senate and Provost) by the end of the
academic year, obtaining full Faculty Senate approval in September and the Regents in October.

- Assisted with submitting 3 Department of State proposals for Wood--Web Access for Democratic Initiatives (Jordan, Egypt, West Bank: $725K; Syria: $1M; Iran: $1M)–March 30;
- NSF Course, Curriculum and Laboratory Improvement (CCLI) Phase I grant--Ondreas et al., $150K, May 10;
- Research and Evaluation on Education in Science and Engineering (Reese)--Lichtenstein et al., $980K, May 15;
- Edited IGERT for Optics and Photonics--Rudolph, March 15;
- NIH Animal Facilities Improvement Program proposal for Biology--Loker, $700K, June 1;
- NEH Medicine in New Mexico from a Humanities Perspective--Slaughter & Santos, $30K, June 21;
- Robert Wood Johnson Health Policy Center--UNM Santos & Wiese, $18M, July 30;
- Assisted four faculty members with NSF Research Experiences for Undergraduates (REU) supplements; and
- Assisted in fundraising (identifying funding sources) for numerous A&S faculty and dean’s programs--Humanities Institute (Slaughter), Sustainability research and education (Milne), BEMP (Crawford/Isobe), Nepal Study Center (Bohara); and also provided information or helped write portions of the submissions for the Bond Funding Request, Title V, and the A&S Capital Campaign Introduction (Isobe).

The Grants Specialist also assisted with encouraging faculty in the Humanities to seek extramural funding by visiting with Philosophy Department faculty in September, by assisting with planning and implementing a Humanities Workshop on November 11, 2005, and holding a workshop on the NSF Human and Social Dynamics program on December 15, 2005, after which a revised interdisciplinary proposal was submitted (Carol Cassell).
We also learned about the following proposals that were not successful, and it is likely that we will resubmit proposals for those designated with a double asterisk (**):

- History Channel History Department - Laguna “Save Our History” project ($10K, 6/1)**;
- D. H. Lawrence NEH planning grant for an Interpretive Museum ($28K)
- Two D. H. Lawrence NM Historic Preservation Division grants (1) to assess the buildings ($7.5K)** and (2) to assess the grounds and prospects for water ($7.5K)**
- Beckman Scholars proposal ($115.8K, 9/28),
- McCune Foundation ($35K, 11/16),
- State Funding Priorities proposal for a UNM Humanities Institute ($295.7K, April 2006), and
- T-90 campus limited competition (Yeo, February).

Among the other programs for which we are planning to submit proposals during the next year are the NSF Ethics Education in STEM, Federal Priorities—D.H. Lawrence Ranch, Informal Science Education, NSF Undergraduate Research and Mentoring in the Biological Sciences, NSF Research in Disabilities Education, NSF Interdisciplinary Human Evolutionary Science Center, NSF STEP (Science, Technology, Engineering and Mathematics Talent Expansion Program), NIH T-32, etc.

In keeping with our goal to expand our current sponsored research opportunities and leverage our excellent research position to improve our primary mission in student education, our PROFOUND Office (Program for Research Opportunities for Undergraduates), under the coordination of Theresa Lopez, continued with yet another strong year for the program.

The PROFOUND Program also promotes student research at UNM through the coordination of a monthly student research feature in *Campus News*. 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 credit or pay. As a group, students who are employed on campus typically have much better retention rates and
grade point averages than the general student cohort, making this an excellent program for improved student performance. Furthermore, most sponsors of federally funded research specifically want to be sure that they leverage improvement in educational opportunities, especially for minority and other under-represented groups in the sciences. The College of Arts and Sciences continues to produce new opportunities to expand the level of undergraduate research at UNM.

The 3rd Annual UNM Celebration of Undergraduate Research Symposium was held Wednesday, April 12, 2006, in the Student Union Building Ballrooms B & C. John Scholenberger, a UNM Alumnus, was our keynote speaker of the day. Solenberger, retired in 2004 from DuPont Company as development planning manager in high performance plastics, used his own career in research and development work to urge students to take up the research and development challenges of their own time. Recent UNM undergraduates Nick Mennacucci and Susan Buscher spoke on their experiences at UNM as undergraduate researchers.

Eighty-four students representing twenty-five undergraduate degree programs and fifty-seven faculty mentors presented posters. Judging of the posters was done by thirty-four volunteer faculty judges from the Main campus and the Health Sciences Center. Posters were judged on content, creative display, and/or oral presentation. Four best-in-category prize winners were awarded $200 prizes and 1st place certificates. The top symposium winner was awarded $500 dollars. With support from College of Arts & Sciences and School of Engineering fifteen-$150 research stipends were awarded.

Last year's winner in the biological sciences category, speech and hearing sciences student Gwyn Sprouls, was one of the 75 students from across the United States selected by the National Council on Undergraduate Research to travel with her mentors, professors Amy Neel
and Phyllis Palmer, to present her research to Congress in the annual “Posters on the Hill” program in Washington, D.C. Travel costs were covered by the PROFOUND program to provide our nominated student national exposure.

Now a graduate student at UNM, Sprouls says that it was the PROFOUND program that started her journey thought this “chain of opportunities.” This fall Gwyn was awarded one of four (nationwide) $4000 masters’ scholarships by the ASHA Foundation. She notes, “A lot of the credit for this goes to the PROFOUND program.”

Another of our third year initiatives was Undergraduate Research Stipends. Seed money to start this initiative came from the money released from salary picked up by the PREP program ($7,500). We were able to offer stipends from $500-1000 per full time undergraduate student to fund research projects that are not funded through any other source i.e. other program, grant, or work-study to foster research in areas that have historically had very little funding. Students were allowed to apply for these stipends on line through the PROFOUND website in early May 2006. They were asked to submit a mini research proposal and budget. A faculty mentor’s letter of endorsement for the project and commitment to oversee the research of the student is part of the application process. Money can be used to cover research expenses, travel, printing costs for posters, conference fees, and copying costs of material. Awards were based on the quality of the proposed project and the educational benefit to the student.

PROFOUND also participated in the UNM Day at the Legislature helping students and the University:

- showcase the work as undergraduate researchers at UNM
- Have legislators meet with students and get first hand understanding of the importance and quality of research available to students
• Photo opportunity for legislators with the students to be sent to county papers in districts
• Ability to build this into a statewide program involving all New Mexico Universities to participate in one day event

VI. TEACHING ACTIVITIES

Summary data on the various aspects of the College's teaching efforts are presented in Tables 6, 8, 9, and 10. While the total number of degrees awarded decreased, the student credit hour (SCH) generation of the college increased at both the undergraduate and graduate levels. The decade long increase in SCH for the College is especially significant in view of the continued decline in faculty numbers over that period. This trend necessarily means that an ever increasing fraction of the College’s teaching load is being borne by part time instructors and graduate students. The total budget for part time instruction increased again this year to over $3.0M.

The College’s teaching capabilities were bolstered by the Interdepartmental Teaching Assistant Program funded by the Provost’s Office. This program allows graduate students from one A&S department to be TAs in another department. During the 2005-06 year a total of 21 TA lines were funded (11 in English, 6 in Spanish, 1 in Math and 0.5 in FLL) by this program. This expanded the number of SCH available in lower division English and Math courses by over 12,000.

Arts and Sciences also played an active role in promoting the use of new pedagogies in the classroom. The College helped fund day long symposia and workshops concerning the use of technology in large courses and the establishment of a “Writing Across the Curriculum” program. Funding was also provided for an expansion of the Supplemental Instruction (SI)
program administered by CAPS. New SI sections were created for Physics, Chemistry and Political Science courses. The number of on-line courses was also substantially increased. Forty courses from five departments were offered in 2005-06. The English department was particularly active in this regard, offering a substantial portion of its Technical and Creative Writing courses (219 and 220) as on-line sections. The College actively encouraged the creation of on-line offerings by providing additional funding for coordination, technical resources and instructor compensations for on-line programs.

VII. SPECIAL PROJECTS AND FUNCTIONS

Advisement Center

Under the supervision of Mark Ondrias as Associate Dean of Curriculum and Instruction, the College Advisement Center oversaw the student undergraduate population. The Center admits undergraduate students to the College of Arts and Sciences once they have been accepted into the department of their major. The Center's seven advisors monitor the academic progress of over 5000 students. They are responsible for monitoring the academic progress, success, and shortcomings of all A&S students, certifying their graduation, updating their intended course of study, and, 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 approximately 1100 Arts and Sciences baccalaureate graduates every year. The number of Arts and Sciences students enrolled during 2005-2006
consists of the following: Summer 2005 – 1821, Fall 2005 – 4984, and Spring 2006 – 5266. The total number of visits to the Advisement Center during 2005-2006 was 9110, which does not include out of office advisement sessions or electronic communications. The Center attributes the slight decrease in one-on-one traffic from last year to the availability of seminars and the flexibility to contact your advisor electronically. The center has plans to expand these kinds of opportunities for student interaction in the next year.

Changes/Initiatives: The first objective of the new director was to examine many aspects of advisement, including the mission of the center and how the functionality supports this mission. The revision of the mission statement is as follows:

**Our mission is to assist and guide our students in their pursuit of an Arts & Sciences Degree. We are here to collaborate with the diverse community of students in a dynamic learning environment, developing tools and strategies to navigate their academic careers with confidence and efficiency, while also providing them with a way to translate those skills into lifelong practices.**

The Director, Stephanie Hands, continued her evaluation of policy and procedures for the College. Students no longer have paper files at the center. Instead the student is given an advisement portfolio as well as training on how to read the degree audit provided by the registrar. Giving the students responsibility and an active part in their navigation is the first step in engaging them in the advisement process.

With the implementation of Banner and E-progress, the Center and the departments have continued to refine the communication across the college. Both staff and faculty departmental advisors have gone through much training for the new system and collaborate with their peers for best practices. They have been very proactive in addressing new policies/procedures necessary for the college to serve the students needs. Many departments have already started using E-
progress as the primary tool for determining degree completion. This will become mandatory in the next academic calendar year.

The Advisors have responded positively to their new authority with student requests such as overloads, probation status, withdrawing from classes and minor requests for degree completion. This along with the Professional Development Initiative (PDI) was put in place to enhance the professional aspect of the advisors career. The first phase of the PDI was implemented by holding brown bag sessions for advisors in A&S and University College. Several advisors fulfilled the next requirement of the PDI by accomplishing some professionally related goal. This has been added to the performance review and will be evaluated by the Coordinator.

**Traffic/Availability:** The Center continues to operate on an appointment-based system Monday through Thursday with walk-in days on Friday to accommodate the students need to seek assistance on “deadline days”. The Center has had a favorable response to the adjustment to thirty minutes appointments. Group seminar advisement sessions for transferring into Arts and Sciences as well as applying to graduate from the College continue to serve students when appointments are full. These seminars are offered several times a week throughout the semester but have been limited due to the lack of space to conduct them on a regular basis. Currently the director is looking for ways to rectify this and secure a seminar space for advisement. The center has encouraged students to see if a matter can be taken care of through email or a phone call instead of waiting for an appointment. This is encouraged in the new telephone tree to avoid delays. The email of A&S has seen an increase of usage and though taking up time from advisors paperwork day, definitely has contributed the management of traffic in this small unit.
There were a total of 700 emails that were answered through the “artsci” account; this does not include emails that were sent directly to our advisors’ email accounts.

**Collaborations:** The Center has strengthened its relationships with other departments and student centers around campus for the betterment of student advisement. The Biology, Chemistry, and Psychology departments collaborated with college advisors for a 2-day Advise-a-thon where over 50 students were given one stop shopping for necessary paperwork and advisement. Several Freshman Academic Choice classes were given presentations or group advisement by the Director or her staff during class time. A&S Advisors have also volunteered advisement support to the College Enrichment Program as well as UNM Summer Bridge. Through the work of the Provost’s Committee on Advising, Arts and Sciences will have two “Pre-major” advisors that are housed at University College starting in July of 2006. The College will pay for .25 of their salary and in return they will serve the college’s prospective students that need assistance in the transfer process. They will also represent the College at many on-sites and college fairs, allowing the Center to offer more availability to the current students during those times. A&S looks forward to increased enrollment in the college with a higher percentage of sophomores. Assessment of this initiative will be done at the beginning of the 2007-2008 academic calendar year.

**Curriculum**

*College of Arts and Sciences Graduate Committee*

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

The A&S Graduate Committee was reconstituted in the fall of 2005 according to the new by-laws of the College (see Table 7). The responsibilities of this committee are to represent graduate program interests to the Dean of Arts & Sciences and the Office of Graduate Studies.
and to report developments to the College faculty through the departmental graduate advisors. This includes consideration of actions related to curriculum change, instructional programs, academic advisement for graduate students, and changes in administrative or academic regulations which affect graduate programs.

The Committee met each semester to consider topics relevant to the Graduate Programs of individual departments and the College’s working relationship with the Office of Graduate Studies. The implementation of the new BANNER student system and the reorganization of the operations of the Office of Graduate Studies provided opportunities to upgrade the procedures for graduate admissions and the processing of TA contract. Ad-hoc committees were formed to address these issues. These committees were instrumental in establishing new avenues of communication with OGS. A new web-based protocol for processing TA/GA contracts was developed by the Arts and Sciences staff (Stirling Coke and Barbara Busch). These protocols were subsequently adopted by OGS for the processing of TA/GA contracts for all Colleges.

**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.

Each of the 20 academic departments in the College designates one faculty representative (voting faculty as defined in the Faculty Handbook) to the College of Arts and Sciences Undergraduate Committee (see Table 7). The Committee also includes representatives from interdisciplinary degree-granting programs and staff academic advisors within the College.
Visitors to the meetings are welcome, and may be called upon to speak to the group as necessary. The Subcommittee on Curriculum (consisting of four members of the A&S Faculty and chaired by Assoc. Dean Ondrias) reviews requests from departments both within and outside the College for curricular and/or program requirement changes that may impact one or more Arts and Sciences departments. The Undergraduate Committee and Curriculum Subcommittee were active participants in the initial implementation of the student BANNER system. Members of the Committee met with representatives of the BANNER implementation team on several occasions. The College Advising Office served as a focal point of addressing difficulties that were encountered with student registration and transfer equivalencies. While there were (as expected) numerous problems encountered in the BANNER implementation, the productive communication between the College office and the departments served to smooth out what could have been a very rocky road.

**Enrollment Management Initiatives**

In order to address ever increasing enrollment pressures in specific high demand courses, the College initiated an aggressive program of enrollment management. In consultation with the Associate Provost of Academic Affairs and the University Rapid Response team, the College added over 10 sections of high demand courses in both Fall 05 and Spring 06. These courses were predominately lower division core courses and allowed over 700 students to enroll in classes from which they would have otherwise been excluded. In addition, the College enthusiastically participated in the creation of intercessions for both the Fall and Spring semesters. The fall intersession was particularly successful. The College offered eight courses from six departments.
College Grant and Scholarship Initiatives

The Albuquerque Teacher's Institute

During the spring 2006 semester, the director of the ATI (Doug Earick) left UNM for personal reasons. His departure left a large hole in the ATI operations and prompted its reorganization. Two faculty co-directors were appointer, Prof. Wanda Martin (English) and Prof. Matt Nyman (Natural Science) and the administrative support for the Institute was transferred to the College Office. Dr. Martin is now responsible for the Humanities and Social Science activities of the Institute, while Dr. Nyman is in charge of the programs related to the Natural Sciences. The Institute continued to function at a high level during the past year, conducting the Taos Writer’s Institute, offering a variety of seminars and workshops for K-12 teachers and actively pursuing funded collaborations/projects with Sandia National Laboratories and other national funding agencies.

College Scholarships

In 2005-06, the College of Arts and Sciences continued to expand and update its web-enabled descriptions of our scholarship program, including the six awards and how students could apply for them. The application period was from January 1 to April 1, 2005, and over 100 applications were received with 61 complete portfolios, which were reviewed by the College Scholarship Committee (Deborah Evans, Maya Elrick, Diane Marshall, Susan Romano and Charlie Steen). 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.
This year marked the beginning of the Robert Noyce Scholarship program in the College. This initiative is funded by the National Science Foundation and is intended for students who are currently pursuing an undergraduate degree in science or math and wish to change their careers in order to become secondary teachers. A total of six scholarships were awarded this past year. The College also provided funds for an undergraduate course in the teaching of ecological science as part of the Noyce program.

The scholarship award recipients for 2005-06 are as follows:

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Recipients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charles E. Brown and Katherine M. Brown Scholarship</td>
<td>Jana Pochop</td>
</tr>
<tr>
<td>Marjorie Yepsen and Carleen F. Farnam Endowed Scholarship</td>
<td>Leslie McMurtry</td>
</tr>
<tr>
<td>Ralph W. Douglass Memorial Scholarship</td>
<td>Amaris Feland Ketchem</td>
</tr>
<tr>
<td>F.P. Clements Endowed Scholarship</td>
<td>Marisa Y. Thompson</td>
</tr>
<tr>
<td>George A. Kaseman Memorial Scholarship</td>
<td>Elaina Sandoval</td>
</tr>
<tr>
<td>Frank O. and Sadie Lane Scholarship</td>
<td>Jemima Melendez</td>
</tr>
<tr>
<td></td>
<td>Carrie Wright</td>
</tr>
<tr>
<td>Robert Noyce Scholarship</td>
<td>Robert Cougar Burke</td>
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<tr>
<td></td>
<td>Holly Heiser</td>
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<td></td>
<td>M. Jennifer Markus</td>
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<tr>
<td></td>
<td>Thansewi Martinez</td>
</tr>
<tr>
<td></td>
<td>Michael Mendoza</td>
</tr>
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<td></td>
<td>Holly Rodecap</td>
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</tbody>
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Dean’s List – College of Arts and Sciences Honor Roll

The criteria for inclusion on the Dean’s List are a semester GPA of 3.75 or higher while being enrolled for 12 or more credit hours with letter grades, and a cumulative GPA for UNM coursework of at least 3.25. Over 1100 students achieved this honor with 315 receiving this distinction in both the Fall 2005 and Spring 2006 semesters. Students who met the criteria for inclusion on the Dean’s List received a notation on their transcript and an email of appreciation.
and congratulations signed by Associate Dean Ondrias. The College also displays a list of awardees on the A&S homepage.

**Summer Session**

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

**VIII. Development Efforts**

In FY 2005-2006, the College of Arts & Sciences raised $2,338,949 in private funds from individuals, corporations and foundations, exceeding its goal of $2,027,000. Development initiated gifts rose 20%.

Sachiko Isobe, Development Officer, and Debbie Dobson, Development Associate, continued an intense schedule of meeting and qualifying individual major gift prospects. Through this process, three new potential million dollar prospects have begun to be cultivated. One was invited to be the keynote speaker for the research symposium and subsequent Dean’s Circle ($1,000 + donors) dinner. His speeches were well received and as a result of this cultivation, he sent his first contribution ever to the College’s Endowment for the Future.

The College of Arts and Sciences Dean’s Office, as a spousal retention hire, brought Dana Bell to the development office for 15 hours/week to take over the writing of *Inside Arts and Sciences*, the College’s newsletter, and the processing of acknowledgement letters from the
Dean. The newsletter was revised to include a greater alumni focus and the feedback we received from alumni was positive. The spring newsletter brought in a record number of contributions.

New endowments included:

- Conlon-Demas Undergraduate Research Fund in History
- James Demas Undergraduate Educational Equipment Fund in Chemistry
- William P. and Heather W. Weber Fund for Excellence in Science/Math Teaching

A non-endowed award in American Studies, the McNary Memorial Graduate Student Award, was also established; and a valuable collection of artifacts valued at $26,650 was donated to the Maxwell Museum.

Preparation for the capital campaign continued, and the development office helped to draft the College’s Campaign Case Statement outlining approximately $36.6 million in projects. The case statement relied heavily on the work done by the Campaign Steering Committee, a faculty committee chaired by Senior Associate Dean Jane Slaughter and the proposals submitted by the College’s departments, programs, and museums.
TABLE 1

COLLEGE OF ARTS AND SCIENCES


<table>
<thead>
<tr>
<th>Department</th>
<th>Chair</th>
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<tbody>
<tr>
<td>American Studies</td>
<td>Gabriel Melendez</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Garth Bawden</td>
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<tr>
<td>Biology</td>
<td>Sam Loker</td>
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<td>Chemistry</td>
<td>Tom Niemczyk</td>
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<tr>
<td>Communication &amp; Journalism</td>
<td>John Oetzel</td>
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<tr>
<td>Earth &amp; Planetary Sciences</td>
<td>Les McFadden</td>
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<tr>
<td>Economics</td>
<td>Philip Ganderton</td>
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<td>English</td>
<td>David Jones</td>
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<td>Foreign Languages &amp; Literatures</td>
<td>Natasha Kolchevska</td>
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<td>Geography</td>
<td>Stan Morain</td>
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<td>History</td>
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<td>Linguistics</td>
<td>Sherman Wilcox</td>
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<td>Mathematics &amp; Statistics</td>
<td>Alejandro Aceves</td>
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<td>Philosophy</td>
<td>John Taber</td>
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<tr>
<td>Physics &amp; astronomy</td>
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<td>Philip Gonzales</td>
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<tr>
<td>Spanish &amp; Portuguese</td>
<td>Kimberly Lopez, Interim</td>
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<tr>
<td>Speech &amp; Hearing Sciences</td>
<td>Janet Patterson</td>
</tr>
<tr>
<td>Program</td>
<td>Director(s)</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>African-American Studies</td>
<td>Finnie Coleman</td>
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<td>American Indian Research Institute</td>
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</tr>
<tr>
<td>Center for Advanced Studies</td>
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<tr>
<td>Consortium of the Americas</td>
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<tr>
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<td>Stan Morain</td>
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<tr>
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<td>Anita Obermeier</td>
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<tr>
<td>Institute of Medieval Studies</td>
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<td>Bruce Huckell</td>
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<td>Peace Studies</td>
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<td>Women Studies</td>
<td>Karen Foss (Acting / Fall)</td>
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<td>Gail Houston</td>
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TABLE 2

COLLEGE OF ARTS AND SCIENCES

STANDING COMMITTEES I

TENURE AND PROMOTION COMMITTEES

College of Arts and Sciences Senior Promotion Committee 2005-06

Professor Carlton Caves, Physics (Chair)
Professor Karen Foss, Women Studies/Communication & Journalism
Professor Barry Gaines, English
Professor Linda Hall, History
Professor Natasha Kolchevska, Foreign Languages & Literature
Professor Jen Lorenz, Mathematics & Statistics
Professor Christina Sauer, Economics
Professor Zack Sharp, Earth & Planetary
Professor Sherman Wilcox, Linguistics

College of Arts and Sciences Junior Promotion and Tenure Committee 2005-06

Professor Steve Cabaniss (Chair), Chemistry
Professor Yemane Asmerom, Earth and Planetary
Associate Professor James Boone, Anthropology
Associate Professor Trish Henning, Physics
Associate Professor Margo Milleret, Spanish and Portuguese
Associate Professor Tim Moy, History
Associate Professor Janet Patterson, Speech and Hearing
Professor Mark Peceny, Political Science
Associate Professor Iain Thomson, Philosophy
TABLE 3

COLLEGE OF ARTS AND SCIENCES

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

2005-2006 Review Candidates

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<tbody>
<tr>
<td>Rebecca Schreiber</td>
<td>American Studies</td>
<td>Mid-Probationary</td>
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<tr>
<td>Debra Komar</td>
<td>Anthropology</td>
<td>Mid-Probationary</td>
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<tr>
<td>Cristina Takacs-Vesbach</td>
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<td>Mid-Probationary</td>
</tr>
<tr>
<td>Wei Wang</td>
<td>Chemistry</td>
<td>Mid-Probationary</td>
</tr>
<tr>
<td>Illia Rodriguez</td>
<td>Communication &amp; Journalism</td>
<td>Mid-Probationary</td>
</tr>
<tr>
<td>Jennifer Thacher</td>
<td>Economics</td>
<td>Mid-Probationary</td>
</tr>
<tr>
<td>Joseph McAlhany</td>
<td>Foreign Languages/Literature</td>
<td>Mid-Probationary</td>
</tr>
<tr>
<td>Martin Klebes</td>
<td>Foreign Languages/Literature</td>
<td>Mid-Probationary</td>
</tr>
<tr>
<td>Brent Kalar</td>
<td>Philosophy</td>
<td>Mid-Probationary</td>
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<tr>
<td>Benjamin Goldfrank</td>
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<td>Steven P. Verney</td>
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<td>Mid-Probationary</td>
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<td>Spanish &amp; Portuguese</td>
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<td>Eleuterio Santiago-Diaz</td>
<td>Spanish &amp; Portuguese</td>
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<td>Beverly Singer</td>
<td>Anthropology</td>
<td>Tenure &amp; Promotion</td>
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<td>William T. Pockman</td>
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<td>Blair Wolf</td>
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<td>Tenure &amp; Promotion</td>
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<td>Tenure &amp; Promotion</td>
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<td>Stephen Bishop</td>
<td>Foreign Languages/Literature</td>
<td>Tenure &amp; Promotion</td>
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<td>Samuel Truett</td>
<td>History</td>
<td>Tenure &amp; Promotion</td>
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<td>Barbara Shaffer</td>
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<td>Tenure &amp; Promotion</td>
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<td>Laura Salter Kubalko</td>
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<td>Tenure &amp; Promotion</td>
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<td>Sylvia Rodriguez</td>
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<td>Lonna Atkeson</td>
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<td>William Stanley</td>
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TABLE 3 (continued)

COLLEGE OF ARTS AND SCIENCES

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

Resignations/Retirements (effective AY 2005-06)

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<th>Department</th>
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<td>Amrhein, Paul</td>
<td>Psychology</td>
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<td>Anthropology</td>
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<td>Froehlich, Jeffrey</td>
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<td>Gluck, John</td>
<td>Anthropology</td>
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<tr>
<td>Huestis, Stephen</td>
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<tr>
<td>Leonard, Robert</td>
<td>Earth and Planetary Sciences</td>
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<tr>
<td>Liedtke, Raymond</td>
<td>Sociology</td>
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<tr>
<td>Marquez, Antonio</td>
<td>English</td>
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<td>Molles, Manuel</td>
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<td>Price, Marcus</td>
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<td>Steele, Paul</td>
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<td>Stewart, Joseph</td>
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<tr>
<td>Warburton, Timothy</td>
<td>Mathematics</td>
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### TABLE 4

**COLLEGE OF ARTS AND SCIENCES**

**A&S FACULTY TRAVEL DISBURSEMENTS - 2005-2006**

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<th>Department</th>
<th>General Allocations</th>
<th>Special Allocations</th>
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<tr>
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<td>Biology</td>
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<td>Chemistry</td>
<td>$10,650</td>
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<tr>
<td>Communication &amp; Journalism</td>
<td>$8,520</td>
<td>$981</td>
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<tr>
<td>Earth and Planetary Sciences</td>
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<tr>
<td>Economics</td>
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<td>English</td>
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<td>History</td>
<td>$12,780</td>
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<tr>
<td>Religious Studies</td>
<td>$2,000</td>
<td>$0</td>
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<tr>
<td>Sociology</td>
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<tr>
<td>Spanish &amp; Portuguese</td>
<td>$7,455</td>
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<tr>
<td>Speech and Hearing</td>
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<td>Women Studies</td>
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Totals:                                | $205,647             | $21,284             |
## TABLE 5

COLLEGE OF ARTS AND SCIENCES

A&S DISBURSEMENTS OF SPECIAL COLLEGE FUNDS-2005-2006

<table>
<thead>
<tr>
<th>Department</th>
<th>Special Allocations (a)</th>
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<tbody>
<tr>
<td>African-American Studies</td>
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<td>Communication &amp; Journalism</td>
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<td>English</td>
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<td>Feminist Research</td>
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<td>Foreign Languages</td>
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<td>Geography</td>
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<td>History</td>
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<td>Sociology</td>
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<td>Spanish &amp; Portuguese</td>
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<td>Women Studies</td>
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$26,967
(a) Includes speakers' honoraria, support for conferences, publications

### TABLE 6

**COLLEGE OF ARTS AND SCIENCES**

**SUMMER SESSION ALLOCATION DATA – 2005-2006**

<table>
<thead>
<tr>
<th>Department</th>
<th>Final 2005 Figures</th>
<th>Allocation</th>
<th>Percentage</th>
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<tr>
<td>African-American Studies</td>
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<td>$12,000</td>
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<td>$62,409</td>
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<td>$84,187</td>
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<td>Communication &amp; Journalism</td>
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<td>$50,694</td>
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<td>$25,285</td>
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<tr>
<td>Total:</td>
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# TABLE 7

## COLLEGE OF ARTS AND SCIENCES

### STANDING COMMITTEES II

#### GRADUATE AND UNDERGRADUATE COMMITTEES—2005-2006

#### A & S Graduate Committee

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Member</th>
</tr>
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<tbody>
<tr>
<td>American Studies</td>
<td>Amanda Cobb</td>
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<tr>
<td>Anthropology</td>
<td>Sylvia Rodriguez</td>
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<tr>
<td>Biology</td>
<td>Eric Loker (Chair)</td>
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<td>Robert Miller</td>
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<td>Chemistry</td>
<td>Richard Kemp (Chair)</td>
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<td>Tom Niemczyk</td>
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<td>Paul Bentley</td>
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<td>Richard Watt</td>
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<td></td>
<td>Hua Guo</td>
</tr>
<tr>
<td>Communication &amp; Journalism</td>
<td>Richard Schaefer (Master's)</td>
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<tr>
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<td>Glenda Balas (PhD)</td>
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<tr>
<td>Earth &amp; Planetary Sciences</td>
<td>Grant Meyer, (Co-chair)</td>
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<td></td>
<td>Jane Selverstone, (Co-chair)</td>
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<td></td>
<td>Carl Agee</td>
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<td>Peter Fawcett</td>
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<td>Karl Karlstrom</td>
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<td>Tobias Fischer</td>
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<td>Rhian Jones</td>
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<tr>
<td>Economics</td>
<td>Janie Chermak</td>
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<td>Jennifer Thacher</td>
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<td></td>
<td>Alok Bohara</td>
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<tr>
<td>Foreign Language &amp; Literatures</td>
<td>Walter Putnam (Grad Dir)</td>
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<td>Warren Smith</td>
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<td>Joseph McAlhany</td>
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<td>Melissa Axelrod (Chair)</td>
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<td>Phyllis Wilcox</td>
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<td>Math/Statistics</td>
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<td>Philosophy</td>
<td>John Taber</td>
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Physics & Astronomy  

Wolfgang Rudolph

TABLE 7 (continued)

A & S Graduate Committee

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<th>Member</th>
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<tbody>
<tr>
<td>Political Science</td>
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<tr>
<td>Psychology</td>
<td>Christine Sierra</td>
</tr>
<tr>
<td>Sociology</td>
<td>Steve Gangestad</td>
</tr>
<tr>
<td>Spanish/Portuguese</td>
<td>John Roberts (Chair)</td>
</tr>
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A & S Undergraduate Committee – 2005-06

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## TABLE 8

**COLLEGE OF ARTS AND SCIENCES**

**DEGREES AWARD – 2005-2006**

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<td>Number of Awards</td>
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Source: Deggrant database

Office of Institutional Research
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Data Source: College of Arts and Sciences Instructional Budget, 2005-06
### TABLE 11

**COLLEGE OF ARTS AND SCIENCES**

**NEW RESEARCH AND TRAINING GRANTS, 2005-2006**
(tenure track and research faculty)

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Preamble

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

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

I. The Office of the Dean

1. Authority

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

2. College By-Laws and the Faculty Handbook

a. The College By-Laws amplify and complement the UNM Faculty Handbook. None of the By-Laws shall be interpreted as revising or contradicting the provisions of the Handbook.
b. The appointment, term of office, functions, and periodic review of the Dean are described in the *Handbook*, Sections A51 (Article III) and C35. The duties of the Dean in connection with faculty reviews and the appointment and review of departmental chairpersons are specified in the *Handbook*, Sections B4.3.2, B4.9.4-7, B5.6, and C40.

3. **Other Duties**

In addition to the duties prescribed by the *Faculty Handbook* (see article I.2 above), the Dean shall have the following responsibilities:

a. To provide educational leadership and set high standards for the College’s instructional and research programs;

b. To promote the academic quality and welfare of the College’s faculty, through the authorization of new faculty positions, the diversification of the faculty, oversight of faculty development and review, and recommendations to the Provost concerning faculty reappointment, promotion and tenure, and special honors;

c. To represent the College in its relations with the central administration, other colleges and units within the University, the student body, and public, and to advocate for the resources necessary to fulfill the College’s mission;

d. To exercise control over the internal budget of the College, allocating and reallocating faculty and staff lines, graduate assistantships, and other resources;

e. To review and assess the quality of the College’s departmentalized and non-departmentalized units, their effectiveness in clarifying, developing, and achieving their missions, and their participation in the College’s mission; and to use these assessments as the bases for budget decisions and decisions affecting the units’ instructional programs;

f. To promote and maintain shared governance within the College concerning policies and resources, by consulting regularly with the departmental executive officers and the Faculty of the College, either directly or through their representative bodies;

g. To select, assign responsibilities to, and evaluate the Associate Deans;

h. To determine and oversee collegiate administrative structure and activities, including the associate deanships and the necessary nonacademic staff;

i. To oversee and promote external fundraising and the acquisition of grants and contracts in support of the College’s instructional and research programs; and

j. To facilitate conflict resolution by addressing conflicts as they arise and working to resolve them expeditiously according to established policies and procedures.

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

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

II. Associate Deans

The College Professional staff at present includes three Associate Deans:

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

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

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

Normally one of the 3 Associate Deans will also carry the title of Senior Associate Dean with responsibilities for serving as Acting Dean in the Dean’s absence.
The Senior Associate Dean and the Associate Dean for Faculty must have the rank of Professor; the other Associate Deans may come from the ranks of tenured Associate Professors or Professors. The Associate Deans do not participate in promotion and tenure decisions or votes at the departmental level. The Associate Dean for Faculty reads and makes recommendations to the Dean on all promotion and tenure decisions in the College. At the Dean's discretion, normally in cases with divided votes, the other Associate Deans may be asked to make recommendations to the Dean as well, except that an Associate Dean holding the rank of Associate Professor shall not participate in reviews of candidates for promotion to full professor.

When a vacancy occurs the Dean circulates an open call for nominations and applications among the tenured faculty of the College. The Dean, other Associate Deans, College Development Officer, and College Administrator constitute the search and hiring committee.

III. The Faculty and the Faculty Assembly

1. The Faculty

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

2. The Voting Faculty

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

3. The Faculty Assembly

a. Membership. The Faculty Assembly comprises all members of the College faculty, as defined in article II.1 above. All faculty of the College may attend and comment in the Faculty Assembly, but only voting members, as defined in article II.2 above, may participate in formal votes. A quorum for the purposes of voting requires the attendance of at least 20% of the voting faculty.
b. Meetings. In keeping with section A51, article III.3c, of the Faculty Handbook, the Dean of the College of Arts and Sciences is the presiding officer of the Faculty Assembly. The College faculty delegates to the Dean, the authority to determine the number and timing of Assembly meetings. However, a special meeting may be called in writing by at least ten members of the voting faculty. In that case, the Dean will convene a meeting within three weeks of receiving the call. Except in the case of emergency meetings, the agenda shall be circulated at least five days in advance of the meeting.

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

IV. Committees

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

1. Standing Committees

a. Chairs Council

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

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

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

b. Senior Promotion Committee

Function. The Senior Promotion Committee (SPC) reviews the dossiers of faculty advanced by their departments for consideration for promotion from Associate to full Professor, and reports its recommendations regarding each candidate to the Dean. These recommendations are reviewed by the Dean in formulating his/her decision on the case, and are forwarded to higher administrative levels together with the Dean's decision. Following the policy for more complete post-tenure reviews defined in section B4.9.7 of the Faculty Handbook, the Dean will seek a recommendation from the Senior Promotion Committee on cases where serious deficiencies appear to persist in a faculty member's performance after a reasonable period of time for improvement. Should the Dean conclude that the case warrants informing the Provost, the dossier submitted to the Provost will include the recommendations of the Senior Promotion Committee. Prior to sending his/her recommendations on tenure and promotion or post-tenure review to the Provost, the Dean will inform the Committee Chair about the decisions.

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

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

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

c. Junior Promotion and Tenure Committee

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

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

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

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

d. **Sabbatical Leave Committee**

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

e. **Undergraduate Committee**

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

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

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

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

f. Graduate Committee

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

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

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

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

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

2. Ad Hoc Committees

The Dean has the authority to constitute and appoint ad hoc committees as needed. The following are the current (2004-05) ad hoc committees. This list will be amended yearly to reflect any changes in the committees or their structure.

a. Gunter Starkey Teaching Awards Committee

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

b. Regents’ Professor and Regents’ Lecturer Committee

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

c. *Distinguished Professor Nominations*

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

d. *Educational Properties Committee*

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

V. **Procedure for Electing Faculty Senators**

*Representation.* The *Faculty Handbook*, section A51, article 1.6a, states that “There shall be one senator for each thirty full-time faculty members or major fraction thereof from each school [and] college...elected by the members of that faculty.” Currently, each of the 13 A&S Faculty Senators represents 27 A&S faculty. A&S members of the Faculty Senate are determined by proportional representation based on departments or small groups of departments, as follows:
Physics and Astronomy: 1 Senator
History: 1 Senator
Anthropology: 1 Senator
Foreign Languages and Spanish & Portuguese: 1 Senator
Linguistics, Speech/Hearing, and American Studies: 1 Senator
Economics and Philosophy: 1 Senator
English and Communication & Journalism: 2 Senators
Biology and Earth & Planetary Sciences: 2 Senators
Mathematics & Statistics and Chemistry: 1 Senator
Sociology, Political Science: 1 Senator
Psychology and Geography: 1 Senator

Because it is possible that the number of faculty members within departments may change across time, and that adjustments in Senate representation may be needed in the future to maintain proper proportional representation, the Associate Dean for Faculty will monitor numbers of faculty in each department or departmental group once every two years to determine if any changes are needed in the composition of departmental groups or in allocation of Senators to the above groups.

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

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

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

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

1. Approval

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

2. Amendment

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

In those areas which the College By-Laws entrust to the discretion of the Dean, the By-Laws may, without a faculty vote, be revised to reflect changes in the College administrative structure. Such areas include the creation or dissolution of Ad Hoc Committees and the redefinition of the titles, qualifications, and duties of the Associate Deans and other administrators. Such changes should, however, be made only after consultation with the Chairs Council.
The faculty in American Studies continues to operate as a committee-of-the-whole in setting policy and implementing the program of study for undergraduate and graduate students. During the 2005-2006 year Professor A. Gabriel Meléndez served as Chair of the department, Amanda Cobb served as Graduate Director and Alex Lubin served as Undergraduate Director.

I. Significant Developments

The Department continued to foster three major areas of work in the 2005-2006 academic year. These areas were 1) development of its Lecture Series 2) completion of faculty reviews as required by the faculty handbook and 3) implementation of College-led initiatives as described in the planning documents “Success,” “Excellence” and “Distinction.” Overall, American Studies continues to move to a position of increasing strength and distinction in marked areas of its graduate program. American Studies continues to heed the comments of external reviewers in 2003 that “with greater commitment and support, American Studies at the University of New Mexico is within striking distance of emerging in the top ten programs on a national level within the next five to ten years” (External Review Report, 5) As in recent years, we are confident that if subjected to NRC rankings, American Studies would rank quite high among American Studies graduate programs in the nation. We are pleased that our distinctive achievements (faculty-student diversity, location in Hispanic-serving UNM, the balance between our undergraduate and graduate programs) have been strengthened by recent developments in our department. In our estimation, American Studies excels at fostering interdisciplinary research and at building
student and intellectual diversity in its programs. We believe that our graduate programs enjoy distinction at the University of New Mexico.

1. Faculty Appointments

In 2005-2006 American Studies did not engage in any new faculty searches. Rather, the Department focused its energies on accommodating and absorbing the teaching, research and service contributions of the four appointments made in the prior year.

2. Faculty Mid-Career Reviews

In 2005-2006 American Studies conducted a mid-probationary review of Assistant Professor Rebecca Schreiber. As is the case in a small department like American Studies, a great deal of time, energy and resources went into the review process.

II. Faculty Contributions

Assistant Professor Alyosha Goldstein

Professor Alyosha Goldstein was given a probationary appointment leading to tenure in American Studies in the fall of 2005. From 2002 to 2004 he was a lecturer in our department. He was hired to the core faculty as an American Studies generalist with sub-specialty teaching and research interests in cultural studies, post-colonial theory and social movements.

In his first year in the department, Professor Goldstein taught AM ST 285 “American Life and Thought” in the fall and spring semesters. AM ST 285 is a core course required of our undergraduate majors and minors. He also offered AM ST 310/510 “Policing, Prisons, and American Culture,” a course he developed as a lecturer the year prior. In the spring of 2005 he taught a graduate seminar AMST 518 “Postcolonial Theory and American Studies.” Professor Goldstein is building advisement and mentoring rapport among our graduate students. He has been asked to serve on MA and PhD committees.

Professor Goldstein’s dissertation, completed at New York University in 2005, was awarded the Ralph Henry Gabriel Dissertation Prize at the American Studies Association annual meeting in Washington, D.C. in November 2005. In the spring of 2006, he received the Graduate School of Arts and Science Dean’s Outstanding Dissertation Award at NYU.

Also in the fall he completed the essay “The ‘Attributes of Political Sovereignty’: The Cold War, Colonialism, and Community Education in Puerto Rico,” this material is slated for inclusion in an edited collection to be published by Duke University Press. He submitted a second article entitled “Transposing the Internal Colony: Liberal Universality and the Locations of ‘Underdevelopment’” to the journal Comparative Studies in Society and History. He received notice to revise and resubmit and is currently working on revising this essay for resubmission. Professor Goldstein reports that he has been invited to submit his book manuscript, “Worlds
Within: Democracy, Poverty, and the Politics of Belonging” to Harvard University Press and Duke University Press for publication. Professor Goldstein made three scholarly presentations this past year, presenting at the American Studies Association annual meeting in Washington, D.C. in November 2005 and the American Historical Association in Philadelphia in January 2006. In January, by invitation, he presented “Involuntary Citizenship and the Colonial Difference” at the Hebrew Union College in Los Angeles. On our campus he made a presentation on the topic of the interdisciplinary genealogies of “culture” in American Studies at the What is Culture? forum, organized by the Program in Comparative Literature and Cultural Studies.

Along with Alex Lubin, he received an international studies grant from the Associate Provost’s Office to carry out “Rethinking the Territories of Settler Colonialism,” a summer institute slated to take place at UNM in the summer of 2007.

In 2005-2006, Professor Goldstein was the point-person for the American Studies Department’s Lecture Series. He coordinated and publicized talks by American Studies scholars Mauren Reed and Andrea Smith. He worked with Jennifer Denetdale (UNM History Department) IfAIR, the Kiva Club and FRI to co-sponsor Professor Smith’s visit as a part Nazhoni Days. In response to a request from the American Studies Graduate Student Association, he presented a workshop on writing conference papers and panel proposals. This past year, Professor Goldstein served as a member of the Rocky Mountain American Studies Association conference committee, where he helped develop the conference theme and organize the conference meeting at UNM.

Professor Goldstein’s record of scholarship appears to be tracking quite well at this stage. Along with his contributions to department service and to graduate student advisement, Professor Goldstein adds strength to the faculty in our department.

Assistant Professor Jake Kosek

Professor Kosek holds a PhD in Geography from U.C. Berkeley. He was hired in the spring of 2004 as an Assistant Professor to teach in our Environment, Science and Technology field of study. His appointment was deferred to the fall of 2005 to allow him to complete a Ciriacy-Wantrup Post-Doctoral Fellowship in Natural Resource Studies at U.C. Berkeley over the 2004-2005 academic year. Professor Kosek came to American Studies as a promising scholar with research interests in nature and environmental and social policies.

In the fall, Professor Kosek taught AM ST 186, “Introduction to Southwest Studies,” a large-format introductory course for majors and minors in our Southwest Studies undergraduate concentration. This course was bundled with the LLC program in University College to enhance the learning experience of the freshmen. He also taught AM ST 525 “Seminar in Environmental Politics: Nature, Culture and Difference.” In the spring of 2006 he offered a large-format version of AM ST 182, “Introduction to Environment, Science and Technology” and AM ST 323/523 “Environmental Justice.” There is an enthusiastic and pulsing energy, verve in Professor Kosek’s classes that appeals to most observers. The enrollments in his fall and spring courses have been acceptable. He has established good rapport with the graduate students and has been enlisted to served on MA and PhD committees-on-study. He has volunteered to take on the direction of the dissertation of one of our international students, and he lent his expertise to the last stage of completion of “ ‘Soft Ball’: Marketing the Myth and Managing the Reality in Major League Baseball,” a dissertation by Robert F. Lewis, II completed in the spring of 2006. As required of
core faculty in American Studies he is advisor for a subset of students in this and next year's cohort of graduate students.

Professor Kosek reports an active research agenda with his primary work being the revision of his dissertation for publication as a book. He has submitted, *Understories: The Political Life of Forests in Northern New Mexico* to Duke University Press, and he assures the department that it will be out at the end of 2006. Aside from this, he has contributed key word definitions of race, racism, racialization, the environmental movement, environmental justice and environmental racism to the Human Geography Dictionary, a popular comprehensive dictionary of social science terminology forthcoming in 2007. In addition, he notes two items pending publication: "The first, "Intimate Geographies: Bedroom Barrios to Atomic Suburbs," has been accepted by *Antipode: the Journal of Radical Geography*; the second, "Repoliticizing Environmental Justice: Nature, Science and the Politics of Ambiguity" has yet to be submitted to the *American Anthropologist*. This year, Professor Kosek was asked to give talks to the "Spaces of Struggle: Power and the Transformation of Nature," held at the University of California at Santa Cruz Humanities Research Institute in September, 2005, the "White Food: Race and the Politics of Purity" in October, and the Marxist Working Group on "Nature, Culture, Political Economy," in March 2006. He attended three professional conferences: the American Studies Association (Washington, D.C) and the Association of American Anthropologists (Washington, D.C) in November of 2005, and the Association of American Geographers (Chicago) in March 2006.

Assistant Professor Rebecca Schreiber

Professor Rebecca Schreiber is an American Studies generalist with sub-specialties in Popular Culture and Cultural Studies, two important teaching areas in our department. She also maintains a research interest in American trans-nationalism and border studies; her work in these areas is assisting our efforts to define critical regionalism, a curricular approach in our Southwest Studies concentration. Professor Schreiber offered two courses this year: AM ST 500 (Proseminar) and 510 "Visual Culture." In the spring of 2006, Professor Schreiber was on a research leave that exempted her from classroom teaching.

Professor Schreiber’s scholarly activity this year involved completing revisions to the last three chapters of her book monograph, *The Cold War Culture of Political Exile: U.S. Artists and Writers in Mexico, 1940-1965*. This work is under advance contract with the University of Minnesota Press. In February 2006, Professor Schreiber received a RAC grant to support research for her book during her semester on research leave. Earlier in the fall of 2005, Professor Schreiber was notified that her "Dislocations and Cold War Cultures, Exile, Transnationalism and the Politics of Reform," was accepted in a volume to be published by Duke University Press 2006. As an extension of her research and writing, she presented "Circuits of Freedom: African American Artists in Postwar Mexico, at the national meeting of the American Studies Association held in Washington, D.C, in November 2005. In the spring of 2006, the Office of the Provost notified the department of a positive mid-probationary review for Professor Schreiber and of approval of a second three-year contract to continue on the probationary ladder toward a tenure decision.
Assistant Professor Alex Lubin

Professor Alex Lubin continues to teach in the area of Race, Class and Ethnicity in American Studies. He is currently in his forth year in American Studies having successfully gone through a mid-probationary review last year. Professor Lubin is to be commended for his contributions to his department. He continues to be active and engaged in the major categories of work defined by his appointment.

This year, Professor Lubin offered two new classes: a graduate seminar called “Black Internationalism” and an undergraduate class called, “Introduction to American Studies.” These courses represent some new directions for Professor Lubin, moving him into the area of African American international politics and thought and toward the work of revising our undergraduate curriculum. Professor Lubin is also contributing to the department’s undergraduate curriculum having taught AM ST 485 “Senior Seminar in American Culture.” His solid record in teaching made him the department’s obvious choice for two campus-wide teaching nominations this spring: the CASTL and Starkey faculty teaching awards. Professor Lubin’s rapport with graduate students is progressing as expected. This year he directed two MA theses, was a member of five continuing PhD dissertation committees and was director of two PhD dissertations.

Professor Lubin’s book, Romance and Rights: The Politics of Interracial Intimacy, 1945-1954, was published in January 2005. Professor Lubin reports that the book was reviewed favorably in the Journal of American History. In addition, he continues to work on two new research projects. Revising the Blueprint: Ann Petry and the Literary Left, an edited anthology under contract with the University of Mississippi Press is slated for submission in the fall of 2006. He is also working on a book-length manuscript that explores African American political and intellectual thought regarding the Middle East from the mid-nineteenth century to the present. He has already presented aspects of this new research at the Center for Black Studies at the University of California, Santa Barbara as the first speaker in the spring lecture series sponsored by the Center for New Racial Studies. This year, he published two book reviews that appeared in important journals in the field of American Studies and labor studies. Professor Lubin has had good success seeking additional funding for his research. This past year, along with a colleague in American Studies, he received an international studies grant from the Associate Provost’s Office to carry out “Rethinking the Territories of Settler Colonialism,” a summer institute slated to take place at UNM in the summer of 2007.

Professor Lubin continues to be productive in service to the department. Throughout the year, he has participated in varied aspects of the personnel faculty governance as required by the dynamics of a small department like American Studies. This year he had a major hand in making revisions to the department’s undergraduate curriculum. He was primarily responsible for maintaining the department’s website this past year. He also assisted with the final submission of a service-learning Community Partnerships Grant to the American Studies Association to continue a second year of student internships in our department. He also served as President of the Rocky Mountain American Studies Association and brought together a regional-wide conference held at UNM in March. Professor Lubin continues to serve on university-wide committees and sits on the boards of Study Abroad, Peace Studies and the Feminist Research Institute. He also lends his expertise to communities outside the academy by working with such entities as Ecumenical Voices for Democracy, Albuquerque Universalist Unitarian Fellowship and Veterans for Peace.

Professor Lubin has maintained an upward course in his teaching, research and service.
while in American Studies. In consideration of the strength of Professor Lubin's achievements, American Studies has decided to put him up for early tenure in the 2006-2007 academic year.

Associate Professor Amanda Cobb

Professor Cobb was tenured in American Studies in May 2004. Her main teaching assignment continues to be in our Race, Class and Ethnicity field of study. She is a noted and respected scholar in the area of Native American Cultural Production. In the fall Professor Cobb offered a new split 300/500-level course on "Sovereignty, Nationhood and Nationalism." In the spring she taught Am St 600 "Research Methods," a keystone course in our graduate program. Professor Cobb had a course release as Graduate Director in the department and a course release as Editor of American Indian Quarterly. She directed a dissertation completed by Gary Fox Betts who graduated in December 2005. She is directing the work of two other PhD committees, is doctoral comprehensive exam chair for a third student in the department, and is directing a master's thesis.

Professor Cobb has had an active year as a scholar. In the summer of 2005, she was named editor of the American Indian Quarterly, a publication of note that now resides at UNM largely due to Professor Cobb's efforts. Over the summer and fall of 2005, she had three articles published in AIQ each on the significance of the opening of the National Museum of the American Indian in Washington, D.C. She also has several more scholarly works in submission. These forthcoming works range from encyclopedia entries to a planned co-authored book on the National Museum of the American Indian. She maintains an active speaking calendar. Last summer she led a two-week institute at the Newberry Library in Chicago focusing on American Indian boarding schools, and in November, she was invited to be the keynote speaker for the New Directions in Indian Research Conference at the University of North Carolina.

Professor Cobb continues to add to her record of service in American Studies. This year she served as graduate director for the department and did a first-rate job in this capacity. She was also the faculty advisor of record for the American Studies Graduate Student Association. Professor Cobb devotes much time and energy to the Institute for American Indian Research (IfAIR), a center that she founded, organized and directs.

Professor Cobb is making positive contributions to her department and to UNM in each of the major categories of activity that are encompassed in a faculty appointment. Her contributions and participation in American Studies are positive.

Professor Laura Gómez

Professor Gómez holds a PhD in Sociology and JD degree from Stanford University. She came to UNM in the fall of 2005 from the University of California at Los Angeles where she held a joint appointment in Sociology and the Law School. She holds a .25 FTE senior-rank appointment and teaches one course per year in American Studies in the area of Race and the Law. The remainder of her appointment is in the School of Law.

This past year, Professor Gómez developed a new course, AM ST 350 "Race and the Law in American History and Contemporary Society," which was taught along with AM ST 550, a graduate companion course. The course enrolled 30 undergraduates and five graduate students. The course was cross-listed with History, Political Science and Sociology and was well received by students in each of these programs. She will offer this course again in Fall 2006, and
anticipates a higher enrollment. Professor Gómez mentored several American Studies MA and PhD graduate students. This year she served as a member of two dissertation committees.

Professor Gómez’s scholarly work has been robust. This past year she completed the following work leading to publication:


In addition to these achievements, she continues work on a book manuscript she has tentatively titled “Manifest Destinies: Law and Race in the 19th Century Southwest.” That work is under advance contract with New York University Press.

In her first year in our department, Professor Gómez participated in the non-personnel faculty governance in the American Studies Department, and she served on one mid-probationary review case in the department. As part of her duties, she is contributing to the department’s evaluation of an upcoming tenure case in American Studies.

Professor Gómez made a number of positive contributions to American Studies and to UNM as the first joint-hire between the School of Law and College of Arts and Sciences. She has a strong record in the major evaluation categories that encompass a faculty appointment.

**Professor Vera Norwood**

Since April 2005 Professor Vera Norwood has served as Interim Dean of the College of Arts and Sciences. Despite her taxing schedule, Professor Norwood continues to advise and direct a limited number of graduate students in American Studies.

**Professor Jane Young**

Professor Young completed her second year of a renegotiated contract with UNM that reduced her time in the department to 0.0667 FTE. By contract, Professor Young taught one course per semester and provided service commensurate with her two-thirds appointment. Professor Young’s teaching and research in 2005-2006 remained centered on gender studies, ethnographic research methods and American folklore and folk life. In the 2005-2006 year she continued to chair 9 dissertation committees. Also, by contract, this year represented Professor Young’s year prior to taking early retirement. It is thus appropriate to survey the cumulative record of her contributions to American Studies here.

Professor Young came to American Studies at UNM in 1987 as an Associate Professor having come to the department after being in the Department of Anthropology and the Center for the Study of Folklore and Ethnomusicology at the University of Texas at Austin. She took her PhD from the University of Pennsylvania, an institution with a renowned Anthropology department specializing in folklore and folklife studies. Professor Young completed her
dissertation in 1982 under the direction of Professor Henry Glassie. Her study was titled, "Images of Power, Images of Beauty: Contemporary Zuni Perceptions of Rock Art."

In American Studies at UNM, Professor Young's research and teaching interests have been equally divided between folklore/folklife and Southwest Studies. After coming to UNM her education continued. Her work on Zuni ethnopoetics, verbal art and astronomical systems placed her in the role of becoming a student once again as she learned from the Pueblo people she encountered. To prepare herself to do fieldwork Professor Young learned the Zuni language, eventually becoming adept enough in Zuni verbal and visual communication to translate Zuni verbal arts as found in anthropological texts collected at the turn of the century. Another facet of Professor Young's work in American Studies has been her interest in connections between folklore and gender studies. Taking cues from her research at Zuni and her discovery there of the relatively egalitarian nature of gender roles, she incorporated this knowledge into her later examinations of how gender works cross-culturally and how gender thus becomes an important variable in social action. Her vast experience in fieldwork and ethnography has accompanied her more recent research interest: her study of an emerging community of potters in Mata Ortiz, Chihuahua, Mexico. Professor Young’s personal passion for folk traditions took her to Deming, New Mexico where she spent time researching the “Great American Duck Race,” a festival some twenty-five or more years old and one which Deming residents speak of as giving rise to a new sense of a community and to a way of creating a name for themselves, by, in the words of duck race participants, participating in a “celebration of the ridiculous.”

In the twenty years that Professor Young taught in American Studies she served several terms as undergraduate advisor and as graduate director. She has also served on numerous graduate admissions and faculty search committees. Throughout this time her most abiding work has been her focus on graduate education. Professor Young directed some 30-plus dissertations in American Studies and co-chaired five more in other departments. She directed 20-plus MA theses and served as a committee member on over a dozen more. She has received numerous awards, which included being UNM Regents Lecturer from 1995-1998. In all, Professor Young has supplied American Studies at UNM with those greatest of values: kindness, intellectual openness and a genuine care and compassion for her students. She has been a fine colleague and her retirement signals a major loss in American Studies.

Professor Gabriel Meléndez

Professor Meléndez’s teaching areas remain in Culture Studies, Race, Class and Ethnicity and Southwest Studies. Professor Meléndez advises several American Studies graduate students and is directing five dissertation committees. This year he graduated two students who completed dissertations and all requirements for the PhD in time for spring and summer graduation. In the fall of 2005, he co-taught American Studies 500 (the Proseminar) and in the spring he offered his long-established graduate seminar on Cultural Autobiography (AM ST 508). Both teaching experiences have sharpened his advisement and teaching role at the heart of the American Studies graduate curriculum.

In the spring of 2006 he presented papers at The Society for Multi-Ethnic Studies: Europe and the Americas at the University of Navarra in Pamplona, Spain and was invited to lecture on Mexican American Women's Autobiography at the University of Las Palmas on the Canary Islands. In the summer of 2006 he was one of three scholars invited to participate in Lasting Impressions: The Private Presses of New Mexico, an educational project sponsored by the Office
of the State Historian. Meléndez put together "Ancestor Words" a program presented at the Mesilla Cultural Center in La Mesilla, New Mexico and later at the National Hispanic Cultural Center of New Mexico in Albuquerque.

While attending full-time to the administration of the department, Meléndez maintains a high level of scholarly activity and publishing. In the summer of 2005 he completed work on his book monograph titled, "Chicano Film Dramas in New Mexico: Encounters On and Off the Screen." The book project is a full-length study of key moments where New Mexico and New Mexicans have been represented in film and photography. As now planned, the book will include an accompanying DVD that contains video segments (visual examples) of a number of the films and documentaries referenced. Thus, the book promises to also be an example of innovation in the method of conducting scholarship on film and visual culture. The ancillary materials in DVD format will let readers see for themselves historical footage that is not in wide distribution and is hard to locate. In 2005-2006 Professor Meléndez, with Professor Antonia Castañeda of the University of Texas at San Antonio, co-edited volume VI of The Recovering the U.S. Hispanic Literary Heritage book series. The volume is due out from Arte Público Press at the University of Houston in the fall of 2006.

In his capacity as Chair of American Studies, Professor Meléndez has worked to implement the programmatic initiatives outlined in the department's "Success," "Excellence," and "Distinction" planning documents. Under his direction, American Studies submitted and was successful in receiving a second year renewal of a "Community Partnership" grant from the American Studies Association. The grant will support the second year of a service-learning program that provides for graduate and undergraduate stipends to American Studies students who intern with the New Mexico Office of the State Historian.

Professor Gerald Vizenor

Professor Vizenor is Emeritus Professor of American Studies from the University of California at Berkeley. He was hired in the fall of 2005 and holds a .50 FTE senior-rank appointment in American Studies at UNM. Professor Vizenor figures among an elite cadre of the best-known and most widely published scholars in Native American literature.

Professor Vizenor taught two courses this past academic year, a 300/500-level course titled "The Atomic Bomb: Los Alamos to Hiroshima" and a graduate seminar on "Human Rights and Genocide". Both courses were well received by undergraduate and graduate students. This year he served on one dissertation committee in English and on two other graduate committees in American Studies. This year Professor Vizenor reached out to faculty colleagues in the English Department, offering to teach graduate courses that would benefit English and American Studies students.

of Pennsylvania, Museum of Archaeology and Anthropology, 2005 and "George Morrison: Anishinaabe Expressionism at Red Rock," an inaugural exhibition catalogue essay, National Museum of American Indian Art, Smithsonian Institution, 2005. Professor Vizenor's work was recognized with important and meritorious awards this past year. He was awarded the Distinguished Achievement Award from the Western Literature Association in 2005 and the Distinguished Minnesotan Award from Bemidji State University in May 2005. Professor Vizenor is series editor for the American Indian Literature and Critical Studies (University of Oklahoma Press) where he has more than fifty books published in the past fifteen years as editor. He has initiated a new series at the University of Nebraska Press with co-editor, Diana Glancy, called "Native Storiers: A Series of American Narratives". He also serves on the editorial board for the North American Indian Prose Award and the American Indian Lives, an autobiography series at University of Nebraska Press.

Professor Vizenor has been active in policy-making in American Studies involving decisions made by the department as a committee-of-the-whole. Recently, Professor Vizenor offered his name in nomination to serve as the A & S faculty senator representing American Studies, Linguistics and Speech and Hearing Sciences.

III. Department Administrator Contributions

Sandy Rodrigue completed her first full year as Department Administrator in 2005-2006. During that time she oversaw the electronic approval of the undergraduate curriculum revisions. She also coordinated the department’s implementation of the Banner Student/Academic modules. This included reviewing the course catalog course descriptions to ensure they met the standards that complied with the constrictions set by the Banner program. She remained an important liaison between American Studies and other offices across campus including the Arts and Sciences Dean’s Office and the Office of Graduate Studies.

IV. Strength of the Faculty

While FTE in August of 2005 totaled a mere 7.25 FTE, the new hires of the year prior and the advent of faculty returning from research leaves made for the robust presence of core faculty in American Studies over the 2005-2006 year. While we were happy to have new hires, it is still the case that in 2005-2006 American Studies FTE remained below the 8.0 FTE it had in 2001-2002. Beyond the FTE considerations, these particular appointments have been of some considerable strategic importance to the Department in its bid to become a leader in
interdisciplinary graduate education. This past year, the activity of an enhanced faculty began to be felt by colleagues and students in far-ranging interdisciplinary areas on the UNM campus like ethnic studies, environmental/nature studies, Southwest studies and critical legal studies. As a group, the faculty in American Studies has worked this past year to push forward several cross-disciplinary initiatives to garner greater distinction for the department at the national level. Our newest faculty hires (Goldstein, Gómez, Kosek and Vizenor) increased and, in some instances, created whole new interdisciplinary connections to the Social Sciences, the Natural Sciences and the UNM School of Law. Professor Goldstein cross-listed some of his courses with Sociology, Professor Gómez has initiated the work of building linkages for A&S undergraduates to explore a professional degree in Law and Professor Kosek holds a nominal appointment with the Department of Anthropology.

V. Strength of the Curriculum

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

<table>
<thead>
<tr>
<th></th>
<th>Fall, 2005</th>
<th>Spring, 2006</th>
<th>Summer, 2006</th>
<th>Totals</th>
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<tr>
<td>Undergraduate courses offered:</td>
<td>38</td>
<td>36</td>
<td>9</td>
<td>83</td>
</tr>
<tr>
<td>Graduate courses offered</td>
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</tr>
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<td>Individual Problems Students¹</td>
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<td>40</td>
<td>14</td>
<td>93</td>
</tr>
<tr>
<td>Student Credit Hours:</td>
<td>2287</td>
<td>1969</td>
<td>519</td>
<td>4766</td>
</tr>
</tbody>
</table>

In the spring of 2005, the Office of the Registrar reported that American Studies had 46 officially declared undergraduate majors. The number of graduate students in the program stood at 63. Ten students completed requirements for the PhD in 2005-2006. The names of these students and titles of their dissertations follow: Gary Fox Betts, “Making a Run for the

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

The Department continues to enhance the visibility of its regular course offerings through cross-listing and other intra-department scheduling arrangements with other academic units on campus. In the 2005-2006 academic year American Studies maintained cooperative course scheduling arrangements with African-American Studies, Chicano Studies, English, Political Science, Women Studies and University College.
In an era of declining numbers of students seeking graduate admission, American Studies continues to attract a sizable pool of qualified applicants for the MA and PhD degrees. This year the department received 44 applications from students seeking admission to our graduate degree program. American Studies offered admission to 18 students. Twelve new students accepted our offer, and one deferral from last year confirmed her acceptance. One student continued on from MA to PhD candidacy. A total of 13 graduate students will enter the program in the fall of 2006.

VI. Future Plans

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

American Studies continues the work of implementing a number of mid-range initiatives meant to enhance its undergraduate program over the course of the next three years. The overarching goal of our reforms would be to stimulate moderate to vigorous growth in the undergraduate major by increasing the number of majors by just over a third, going from the present number of 46 to 70 and by increasing the number of minors by half, from 30 to 60. We are not interested in growth for growth’s sake but would like to establish a pace and rate of growth that bolsters our program while approximating the experience that undergraduate students receive at smaller liberal arts colleges as they course through the major. While we believe that some increase in numbers is a good thing, we also think that we will be most successful in transferring the “liberal arts effect” to our own undergraduate interdisciplinary studies majors and minors by maintaining an emphasis on quality over quantity. Thus, we are most interested in building a community of learners, rather than simply adding numbers to our lists of majors and minors. Our goal is more specifically to transform our major and, to quite
frankly, set it apart from others by having it offer students the excitement of building knowledge through the process of dynamic and vigorous group dialogue and exchange.

Building a Community of Undergraduate Learners through Interdisciplinary Studies

We believe that implementing the following ideas will produce the transformation we seek in our undergraduate major and speak to our vision of undergraduate education: a) develop learning through a service learning and civic engagement component, b) strengthen American Studies undergraduate honors, c) encourage a semester away and International/Transnational Study, d) revise the undergraduate curriculum, e) partner with Freshmen Living and Learning Communities, and f) publicize our undergraduate major.

In the 2005-2006 year American Studies proposed and received approval to restructure its undergraduate major and its undergraduate concentration in Southwest Studies. Beginning with the 2006-2007 academic year, the required number of credit hours for an undergraduate major in American Studies will be 36, reduced from 48. A minor will also be required where one was not before. This will serve to standardize the degree with other majors in the College. Newly approved courses were added to the undergraduate degree to build a stronger sense of community within the department. These courses are AMST 180 “Introduction to American Studies” and AMST 385 “Theory and Methods of American Studies.” New requirements in the Southwest Studies concentration include a 36 hour major/24 hour minor and AMST 180, AMST 385, and AMST 486 “Senior Seminar in the Southwest” as required courses.

The department has strengthened its service learning work through the Community Partnership Grant received from the American Studies Association. The funds received from the grant are being used to support both undergraduate and graduate students working as interns with the Office of the State Historian. American Studies has continued to partner with FLLC by
combining core American Studies courses with FLLC offerings. American Studies graduate students are also involved in teaching the additional LLC seminars. Finally, the department has more effectively publicized its undergraduate major and concentration by utilizing an updated web design, flyers created by Laura Hall, the coordinator of the Southwest Studies concentration, and an increased presence of the undergraduate director in lower division courses and campus events.

**Partnership with Sustainability Studies Program**

Beginning in Fall 2006, the Sustainability Studies program will be coordinated by Dr. Fiona Sinclair (PhD, American Studies, 2005) and Dr. Bruce Milne (Biology). The program will utilize Dr. Sinclair’s research in biodiesel and sustainable energy sources in newly developed courses. Dr. Sinclair will also teach AMST 182 “Introduction to Environment, Science and Technology,” which will become a core course for the Sustainability Studies minor in spring 2007.

**Planning and Design of Graduate Curriculum**

American Studies anticipates that some adjustment to the Graduate curriculum is needed as a consequence of the hires referenced in section IV above. These changes will be discussed and planned at a department retreat that is scheduled to take place in the fall of 2006.

**American Studies 30th Anniversary as a Department**

2005 marks American Studies 30th anniversary of the granting of formal approval from the General Faculty for American Studies to take its place as a department in the College of Arts and Sciences. In 2005-2006, we finalized plans for several events that included sponsoring commemorative speakers, essays, lectures, awards, programs, seminars and fund raising events. Celebrations included former American Studies Professor Charles Biebel giving the
Commencement address in May coupled with Jane Young’s retirement reception in March. The annual newsletter was utilized to kick off a fundraising campaign for the department’s newly created awards and the long-standing lecture series. Aside from matters of ceremony, our 30th anniversary year represents an important milestone for the department that we have leveraged in the work of creating greater visibility and recognition for the department.

Hosting the National Meeting of the American Studies Association in 2008

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

Graduate Student Recruitment and Support

The work of student recruitment and support continued throughout 2005-2006. No graduate program can expect to attract high caliber graduate students if it has not done the hard work that leads to high quality graduate training, a dynamic curriculum and intellectual vigor in
the form of academic exchange with the best qualified and competitive faculty. Distinction of this sort must be ahead of recruiting students to the department. Still, no department can reasonably be asked to rise to distinction in graduate training without securing the kind of financial resources that will allow the department to compete with its comparable institutions. In our 2003 review we took time to check our graduate financial aid packages to graduate students against those of peer institutions. At that time we declared that we wished to measure ourselves against the University of Minnesota’s graduate program in American Studies: “Long-considered a top-tier AS program, we include Minnesota, as something of a “quality mark” the department would like to reach in the next five to seven years” (Self-Study, 7). It is clear that in the complex matter of establishing distinction a good portion of our attention must be focused on increasing graduate student support. We are committed to visiting our assignment of financial aid dollars and working with the College and with OGS to find creative ways to bundle financial offers so that they are both attractive and competitive inducements for students to come to our program. These cost-neutral initiatives will only go a short way to improving this situation. Substantial improvement, we believe, is through the allocation of new GA and TA lines to our department. This past year American Studies continued to participate in the TA-export program in Arts and Sciences and currently has 3 graduate TAs teaching in English. It also has piloted several new large-format sections of its introductory courses. These courses, taught by core faculty and American Studies Teaching Assistants are a part of A & S “Initiatives for Success.” This year we have monitored these sections, drawing on empirical cost-analysis data to measure them against our standard way of delivering the introductory sections.
VII. American Studies Lecture Series

The American Studies Lecture Series hosted three distinguished visitors in 2005-2006. They were Dr. Maureen Reed, Dr. Andrea Smith, and Dr. Penny Von Eschen.

VIII. Appointments, Departures, Leaves, etc.

Assistant Professor Jake Kosek returned to the department having completed a Ciriacy-Wantrup Post-Doctoral Fellowship in Natural Resource Studies at U.C. Berkeley over the 2004-2005 academic year.

Assistant Professor Alyosha Goldstein assumed a probationary appointment leading to tenure in the fall of 2005.

Professor Laura Gómez assumed a senior-rank joint-appointment between the UNM School of Law and American Studies (.25 FTE) in the fall of 2005.

Professor Gerald Vizenor assumed a senior-rank appointment (.50 FTE) in American Studies in the fall of 2005.

Professor M. Jane Young completed her final year of a renegotiated contract leading to early retirement. She retired from the faculty in the spring of 2006.

Assistant Professor Rebecca Schreiber was on Junior Faculty Research leave in the spring semester, 2006.

Fiona Sinclair, PhD, held an Arts & Sciences Post-Doctoral Fellowship. Her duties in 2005-2006 were split between American Studies and Sustainability Studies.

Research Assistant Professor Joanne McCloskey held an adjunct research appointment in American Studies while conducting research with IfAIR on the nutritional status of Navajo women and children.

Respectfully submitted,

A. Gabriel Meléndez, Chair
DEPARTMENT OF ANTHROPOLOGY

College of Arts and Sciences
University of New Mexico

ANNUAL REPORT

JULY 1, 2005-JUNE 30, 2006

Garth Bawden, Interim Chair

Prepared by:
Jennifer George
Department Administrator
Significant Developments during the Academic Year, 2005-2006

DEPARTMENT ACTIVITY BY SUBFIELD

Subfields

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

Advisory Council

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

[Fall 2005] Bawden (Chair & Arch), Field (Asst. Chair & Ethno) Wills (Arch), Hill (Bio), Weigle (Ethno), Lancaster (HEE)
[Spring 2006] Bawden (Chair & Arch), Field (Asst. Chair & Ethno), Wills (Arch), Hurtado (Bio), Weigle (ethno), Lancaster (HEE)

Archaeology

UNM Southwestern Archaeology Field School  The annual UNM Southwestern Archaeology field school took place May 30-July 7, and was directed by Dr. Bruce Huckell. The six weeks were devoted to excavations at a small Folsom (ca. 10,900-10,200 BP) campsite and to surface survey of a large parcel of land to the west. Both localities were in the vicinity of Double Eagle II Airport on the Llano de Albuquerque (also known as the West Mesa). The students learned basic excavation, mapping, recording, and survey skills and had the opportunity to visit other sites. Excavations showed that the Folsom site was occupied for a very short period (a few days, perhaps) after a successful bison kill. A complete Clovis point (ca. 11,500-11,000 BP), only the second known from Bernalillo County, was discovered during the survey.

Chaco Canyon Field Project  Professors Wills and Crown directed ongoing archaeological field studies at Pueblo Bonito in Chaco Canyon, New Mexico, sponsored by the National Science Foundation and the National Geographic Society. Pueblo
Bonito, or "pretty village" in Spanish, is the largest and most famous ruin in Chaco Canyon. Its Navajo name, tse biyaa ani'ahi, means "leaning rock gap" and refers to a sheet of rock that separated from the cliff wall behind it. This interdisciplinary program involves scientists at UNM, New Mexico Tech, Los Alamos National Laboratory, Sandia National Laboratory and Northern Arizona University. So far, more than 45 students representing six universities have participated in the field research.

**El Miron Cave Excavation** Dr. Lawrence G. Straus, Distinguished Professor of Anthropology, completed his 11th year of excavation at El Miron Cave in the Cantabrian Mountains of Northern Spain with a grant from the National Geographic Society. Four UNM graduate students accompanied him on the project, which is co-directed by a Spanish colleague, Professor Manuel Gonzalez Morales of the Universidad de Cantabria in Santander, as well as other student participants from several Spanish and Portuguese universities. The team excavated at levels dating to the early Magdalenian period, about 16-17,000 radiocarbon years old. Two of the UNM grad students who participated again this summer are doing Ph.D. dissertations on the Magdalenian of El Miron currently: Beth Stone on bone needles and fiber technology and Yuichi Nakazawa on fire hearth-centered human activities. Nakazawa found a spectacular perforated slate pendant with the engraved image of a horse head this summer. A third UNM Ph.D. dissertation is currently underway by John Rissetto, a long-time participant, who is studying stone tool raw material procurement patterns in the Magdalenian, with an aim of elucidating human mobility and territorialism late in the Last Ice Age. The site was visited by a number of important prehistorians and paleontologists during the course of this summer's dig.

**Research** Archaeology graduate students are actively engaged in field studies around the world, from Portugal to Peru. All archaeology faculty were active in national and international meetings last year.

**Biological Anthropology**

**Interdisciplinary Symposium** Under the auspices of the Maxwell Museum and Departments of Anthropology and Biology, Keith Hunley and Heather Edgar began organizing a symposium on reconciling concepts of human variation within anthropology. The symposium will be held at the University of New Mexico in May 2007 and will host 10 world-renown scholars. The proceedings of the symposium will be published in an edited volume.

**Molecular DNA Study** In late 2005, the molecular anthropology laboratory began collecting primary genetic data for several projects. One project examines the relationship between human genes and languages and the implications of the relationship for human evolution. Another project involves collaboration with the Department of Epidemiology on the North Campus. This project examines genetic structure among New Mexicans of Hispanic ancestry and explores the medical implications of this structure.

**Ancestors Museum Exhibit** Drs. Edgar and Pearson began work towards updating the Maxwell Museum of Anthropology's "Ancestors" exhibit on human evolution. A source
for funding the planning of this exhibition was identified, the Informal Science Education program of the National Science Foundation. They also conducted a survey of student's reactions to the current exhibit content, indicating that there deeply imbedded "naive notions" that inhibit new learning about human evolution. An application to NSF will be made during the 2006/2007 academic year.

**Ethnology and Linguistics**

*University of New Mexico Expressive Culture Lecture Series*  Coordinated by Professor Steven Feld in conjunction with the Departments of Music, Native American Studies, and the Arts of the Americas Institute took place in the Fall semester of 2005. Speakers and topics included Professor Fred Myers (Anthropology, NYU) speaking about his book, "Painting Culture: The Making of An Aboriginal High Art" and Professor David Samuels (Anthropology, UMass-Amherst) speaking about his book, "Putting a Song on Top of It: Expression and Identity on the San Carlos Apache Reservation."

*Snead-Wertheim Endowed Lectureship*  The Snead-Wertheim Endowed Lectureship in Anthropology and History is awarded annually to a full-time, tenure-track faculty member alternately in the two departments. Annually since 1989, anthropology and history have collaborated in naming one of their faculty to the Snead-Wertheim Lectureship. The lectureship recognizes and supports significant scholarly activity by a faculty person in these two disciplines. The recipient receives a cash award and delivers a public lecture on his/her research during the spring semester. Melissa Bokovoy, University of New Mexico associate professor of history and Regents' Lecturer, presented the annual Snead-Wertheim Endowed Lecture, on Tuesday, April 20 at 2:30 p.m. in the History Department Commons Room in Mesa Vista Hall on the UNM campus. Bokovoy's lecture topic was “The Politics of Commemoration: Memory and Mourning in Serbia and Croatia, 1918-1941.”

**Human Evolutionary Ecology**

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

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

Doctoral Degrees granted:
- Meredith Mahony-Muller Conflict & Control: Intimate Partner Violence and Reproductive Control
- Tanya M. Mueller The Effects of Socio-Ecological Variables on the Timetable of Reproductive Maturation in Captive Female Baboons (Papio hamadryas anubis)
- Abe Ruttenberg Coordination of foraging and vigilance between the sexes in free-ranging Rufous-naped Tamarin monkeys (Saguinus geoffroyi)
- Jeff Winking Fathering among the Tsimane of Bolivia: A test of the proposed goals of paternal care.
- Jack Baker The Evolutionary Ecology of Thrifty Metabolism: Early-Life Signals of Environmental Instability and Later Body

Post-Doctoral Appointments:
- Robert Walker, Assistant Research Professor, University of Colorado at Denver (2006-date)

Grants and Fellowships:
- Elizabeth Eadie Honorable Mention, NSF Graduate Research Fellowship Award
- Paul Hooper Program in Interdisciplinary Biological and Biomedical Science, Graduate Fellowship, UNM
- Paul James LAII Dissertation Fellowship, UNM, 2005-2006 renewal

DEPARTMENT ACTIVITY

Committees

Graduate Committee The committee chair is the Graduate Director and is appointed by the Department Chair for a two-year term; three other committee members are elected annually by remaining subfields. The committee meets monthly or as needed. Oversees all graduate matters, including curriculum, scheduling, allocation of GA/TA/RA-ships, outcomes assessment, and nominations for various graduate scholarships and awards. The committee is charged with reviewing Departmental nominations for various graduate scholarships and awards, and travel allocations.

[2005-06] Rodriguez (Chair & Ethno) Pearson (Bio), Crown (Arch), Kaplan (HEE), Erika Gerety (staff)

Undergraduate Committee The committee chair is the Undergraduate Director and is appointed by Department Chair for a two-year term; three other committee members are elected annually by remaining subfields. The committee meets at least once monthly and oversees all undergraduate matters, including curriculum, scheduling, 101, student evaluations of their training, and advising. The Undergraduate committee is considering
developing exit interviews for graduates and those who leave the program so we can further improve our services.

[2005-06] Ramenofsky (Chair & Arch), Hunley (Bio) Lancaster (HEE) Field (Ethno), Nieto (staff)

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

[2005-06] Powell (Chair & Bio), Boone (Arch), Dinwoodie(Ethno), George (Staff), Capling (Staff)

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

**Clark Field Archive Policy Committee** Oversees the Clark Field Archive and Library, which is jointly curated by the Maxwell Museum Association and the Department. Members: Straus (Chair), Huckell, George, Alan Shalette, Lead Workstudy for Clark Field.

**Post Tenure Faculty Evaluation Committee** The committee is elected each year by the faculty to evaluate submitted materials on the basis of post-tenure policies and procedure agreed to in 2002. The committee is comprised of three senior faculty members. This year the committee included Dr. Jane Lancaster (Chair), Dr. Steve Feld, and Dr. Lawrence Straus. The committee advised the Chair of rankings. Each faculty member received a 3% increase to cover increased benefits, with the remaining 1.5% being allocated on the basis of merit. This continues our efforts to lessen the disparity between long-time faculty whose ERA retirement depends on their five highest salary years and newer faculty whose retirement plans depend on salary earned from the beginning of their UNM career.

**Convocation**

The 8th Annual Departmental Convocation took place on Saturday, May 13, 2006 in Anthropology Lecture Hall 163 at 1:00 pm. Convocation was hosted by Dr. Garth Bawden, Chair. Our special guest speaker was Dr. Dave Stuart, Professor of the Department of Anthropology and Former Associate Provost. Dr. Ann Ramenofsky presented the Bachelor of Arts and Bachelor of Science degrees, while Dr. Sylvia
Rodriguez presented the Master of Arts, Master of Science and Doctor of Philosophy degrees. She also presented the departmental awards. We held a reception for graduates and their guests in the Maxwell Museum of Anthropology following the convocation. Additional information regarding degrees and departmental awards can be found under the Graduates and Student Fellowships and Awards sections in this report.

Fundraising

Graduate Student Support Fund The Graduate Student Support Fund was established during our 75th Jubilee in 2003. The Anthropology Graduate Student Support fund is set up to create fellowships for graduate students. We continue to receive contributions to the fund.

Anthropology Centennial Fund The goal of the Anthropology Centennial Fund is to raise sufficient funds to support the Anthropology Newsletter and annual fundraising events centered on alumni contact and awareness. Contributions to this fund come from donations to the department. We continue to publish and distribute our Departmental Newsletter to alumni, graduates, and their families.

Clark Field Archive

The Clark Field Archive & Library (CFAL) is jointly operated by the UNM Department of Anthropology, the Maxwell Museum, and the Maxwell Museum Association (MMA). CFAL collections encompass about 12,000 books and monographs, and over 110 journal titles. It also houses a complete collection of Ph.D. dissertations and selected master’s theses from the Anthropology Department, a map collection, and an extensive collection of reprints. All these materials deal with anthropological subjects and serve the entire UNM anthropology community, including the Maxwell Museum and its Association, the Anthropology Department, and the Office of Contract Archaeology.

Almost all of CFAL’s materials have been donated, with the exception of several dozen journal subscriptions supported by the Anthropology Department and MMA. About half the CFAL's collections are unique on the UNM campus, and perhaps in the state. CFAL collections are cataloged on Libros, UNM’s computerized system. The catalog may be accessed at almost any computer on campus and via the Internet. Last year we received a large donation from the estate of Dr. Frank Hibben, some of which was donated to the UNM Libraries. The remaining books were incorporated into the Clark Field collection or set aside for sale at the MMA annual book fair. The MMA's annual Albuquerque Antiquarian Book Fair is an important source of funding for the Clark Field Archive, and is the oldest and largest such event in the state. The book fair is usually scheduled during the first full weekend in April.

Ortiz Center for Intercultural Studies

During 2005-06, the Alfonso Ortiz Center for Intercultural Studies sponsored a number of activities that brought together scholars, students, and community experts around events that emphasized cultural heritage and preservation. During Fall Semester 2005, the
Ortiz Center participated in a series of programs celebrating 35 years of Navajo Language instruction at UNM. Events featured Navajo storytelling, the art of weaving and the meaning of Navajo rugs, and the use of the Navajo language by Code Talkers in winning World War II.

On November 3, Beverly Singer organized a symposium to commemorate the installation of a statue of Po'pay, leader of the 1680 Pueblo Revolt, in Statuary Hall at the nation's Capitol. Speakers from San Juan Pueblo, the Sculptor, historians, and students discussed the history and significance of Po'pay's leadership.

In April 8, the exhibit El Rio opened at the Maxwell Museum. This bioregional exhibit highlights traditional cultures and their relationship with the environment along the Rio Grande from New Mexico to Texas and Chihuahua. The Ortiz Center supported demonstrations by community experts represented in the exhibit, including wool weaving, drum-making, and folk music at public events on April 8 and June 24.

The Center is continuing to fund raise to complete the NEH Challenge grant that will provide the Center with an endowment for programs, a public policy fellow, interns, and honoraria for public speakers.
Professor Garth Bawden served as Interim Chair for this academic year with Associate Professor Les Field as Assistant Chair. The outside search for new permanent chair was completed in spring of 2006. The successful candidate is Professor Michael Graves, currently chairman of the Anthropology Department at the University of Hawaii, Manoa. Dr. Graves will assume the position of chairman of this department in January 2007.

Given the temporary nature of the senior administrative position, the 2005-6 year was necessarily one of transition with the selection of a new chair and planning associated with this important step taking precedence over other ongoing initiatives. Consequently, the efforts of the office staff were largely directed to consolidating infrastructure so as to position the department for more rapid and effective development after the new head arrives in January 2007. To this end, the chief administrator and the chair placed highest priority on structural and physical improvements within the department. Several staff positions/roles were realigned and/or changed in order to better address the needs of faculty and students. Financial management was reviewed with the department accountant playing a most important and productive role by instituting new procedures and controls over expenditure and budget control. Financial improvement was so successful that the recent pattern of annual deficits was reversed. This allowed major physical improvements including long-needed maintenance, major upgrades of furnishings, purchase of technical equipment (especially student computers) and general aesthetic improvement.

In addition to improvement in administrative infrastructure, academic management structure was similarly reviewed. In the area of curriculum the department office staff established a more formal structure for communication between staff and faculty advisors and the subfields in order to facilitate course coverage, catalogue compilation and more effective collaboration. Also, the Assistant Chairman headed a review of the roles and expectations of the various categories of affiliated faculty (Research Faculty, Part-Time Instructors, and Adjunct Faculty). This process resulted in some changes in departmental procedures aimed at clarifying both the responsibilities of these important faculty affiliates and identifying the benefits that they could expect from their affiliation. Finally the Chairman’s Advisory Council (comprising the Assistant Chair and the conveners of the four subfields) was re-established as a regularly functioning agency of the department with better defined responsibilities that now include the role of the previous ineffective space committee.

In the meantime, planning either commenced or was continued for such important initiatives as development of a Masters degree in Public Anthropology, assessment of the possibilities for greater integration between the subfields, and preparation for the upcoming National Research Council and External program reviews. This has laid the
foundations laid for more aggressive movement next year when a more permanent administrative structure is in place.

The UNM Department of Anthropology continues to grow and contribute to the field through research, publication, teaching, and service. We are committed to developing the field of Anthropology internationally through the dissemination of information. Our faculty comprise some of the most talented and prolific anthropologists in the world. This resource will be expanded next year with the addition of two new hires. In addition, our graduate students are at the forefront of the next generation of anthropologists. We are working very productively with our colleagues in our sister department, the Maxwell Museum of Anthropology, both as partner in our jointly operated Ortiz Center for Intercultural Studies and in other areas of education and public programs, and with other UNM departments and community organizations to accomplish our goal of bringing a better understanding of the many facets of Anthropology to the world.
APPOINTMENTS AND SEPARATIONS

Appointments to Faculty

Adjunct:
Thomas Bogenschild, Gary Gossen, Ariane Pinson

Appointments to Staff

None

Separations of Faculty

Keith Basso (Retired)
Robert Santley (Deceased)

Adjunct:
Chris Bohem, Douglas Charles, Diane Crumley, Heather Edgar, Patrick Hogan, Bruce Huckell, William Hudspeth, Rosalind Hunder-Anderson, Jonathan Kaplan, Grace Kissling, Maria Massucci, Garnett McMillan, Chris Musello, Melissa Powell, Michael Robertson, Christine VanPool, Anne Weaver, Dave Weaver, Greg Zaro

Separations of Staff

None
Bawden, Garth


Crown, Patricia L.


Dinwoodie, David


Feld, Steven


Feld S. Durolac Cadillac/Rust in Peace. Digital photographic collage 15x15; Foundation

Feld S. Performance: Meditation for Bell and Oud. Soundscape composition, Deep Listening Place, SITE Santa Fe, NM.

Feld S. Featured Concert Artist: Earth To Earth Concert. Electronic Music Foundation, Frederick Lowe Theatre, New York City, NY.

Field, Les W.


Hill, Kim


Huckell, Bruce B.

Huckell B. “The First 10,000 Years in the Southwest.” Southwest Archaeology in the Twentieth Century. Edited by Linda S. Cordell and Don D. Fowler, 142-156. University of Utah Press, Salt Lake City.

New Mexico Geological Society 56th Field Conference, New Mexico Geological Society.

Hunley, Keith L.


Komar, Debra A.

Forensic Anthropology: Theories and Methods, D. Komar and J. Buikstra, Oxford University Press.


Lamphere, Louise

Lamphere L. “Providers and Patients Respond to Medicaid Managed Care: Ethnographic Insights from New Mexico,” Co-Editor: Nancy Nelson, in Medical Anthropology Quarterly. Special Issue, 19, (1).

Lamphere L. “Providers and Staff Respond to Medicaid Managed Care: The Unintended Consequences of Reform in New Mexico.” Medical Anthropology Quarterly. 19 (1): 3-25.


Lancaster, Jane B.

Editor, Human Nature, an interdisciplinary journal published quarterly by Transaction Publications, Piscataway, NJ.


Nagengast, Carole


Oakdale, Suzanne R.


Pearson, Osbjorn M.

Pearson O., M. Millones. “Rasgos esqueleticos de adaptacion al clima y a la actividad entre los habitantes aborigenes de Tierra del Fuego (Skeletal traces of adaptation to climate and activity among the aboriginal inhabitants of Tierra del Fuego),” Magellania. 33: 37-50.


Powell, Joseph E.


Ramenofsky, Ann F.

**Rodriguez, Sylvia**


**Singer, Beverly R.**

Singer B. Producer/director: *The Unveiling of Po'Pay Statue at San Juan Pueblo,* produced for the Po'Pay Commemoration Symposium at the University of New Mexico, November 3, 2005

Singer B. Subject: Living Portraits of New Mexico Artists & Writers: Lonnie Vigil, Potter, Roxanne Swentzell, Sculptor, and Beverly Singer, Filmmaker/Writer. Educational Outreach Project of New Mexico, CultureNet: *Living Portraits of New Mexico Artists & Writers.*


**Straus, Lawrence G.**

Editor-in-Chief (and Book Review Editor for Archaeology), *Journal of Anthropological Research.*


Watkins, Joe E.


Watkins J. “*We are always They and They always are We.*” *Native American Voices on Identity, Art, and Culture: Objects of Everlasting Esteem.* Edited by Lucy Fowler Williams, Robert Preucel, and William S. Wierzbowski. University Museum Publications.


Weigle, Marta

Editorial Board member, *Journal of the Southwest.*


Wills, W.H.


Faculty grants:

National Science Foundation, “Land Use and Sustainability on a Mediterranean Landscape,” PI: James Boone, fund 237W0, 05/01/04 – 05/31/07, $116,280.

National Science Foundation, “Supplement for Land Use and Sustainability on a Mediterranean Landscape,” PI: James Boone, fund 237W1, 05/01/04 – 05/31/07, $7,953.

UNM, Research Allocation Grant, “The Time of Bells,” Dr. Steven Feld, $3,530.


UNM, Cross-Campus Collaboration in Life Sciences, “Population Stratification in New Mexican Hispanics and Implications for Medical and Anthropological Genetic Research,” Dr. Keith Hunley, $23,300.

UC Santa Barbara, “Grandparenting and the Evolution of Post-Reproductive Lifespans,” PI: Hillard Kaplan, fund 246R0, UCSB primary, UNM sub award, 08/01/04 – 07/31/09, $209,103.

University of Pennsylvania, “Alternative Field Methods of Collecting Biomarkers: Research with the Tsimane of Bolivia,” PI: Hillard Kaplan, fund 270C0, 01/01/05 – 12/31/05, $49,500.

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


McCune Charitable Foundation, “Indigenous Film Fest Series,” PI: Beverly Singer, 04/23/04 – 12/31/05, $8,000.
National Science Foundation, “Tardiglacial Human Adaptations in the Cantabrian Cordillera, Spain,” PI: Lawrence Straus, fund 20090, 09/01/98 – 08/31/05, $100,284.

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

National Geographic Society, “Last Glacial Maximum to Late Glacial Human Adaptations in the Cantabrian Cordillera, Spain” PI: Lawrence Straus, fund 270J0, 01/09/06 – 06/16/07, $20,020.

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

National Science Foundation, “REU: Archaeological Investigations at Chaco Canyon, New Mexico,” PI: Wirt Wills, fund 256V1, 06/01/05 – 11/30/07, $3,750.

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

National Geographic, “Archaeological Investigations at Chaco Canyon, New Mexico: Continued Study of National Geographic Society Trenches,” PI: Wirt Wills, fund 272Y0, 06/01/06 – 12/30/07, $28,000.

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

Student grants:

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

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

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

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

National Science Foundation, “The Role of Standardization in Specialization of Ceramic Production at San Marcos Pueblo, New Mexico,” PI: Patricia Crown and student Kari Schleher, fund 253Q0, 05/01/05 – 04/30/07, $11,800.
National Science Foundation, "Genetic Adaptation to Disease: Tuberculosis Susceptibility in Native South Americans," PI: Magdalena Hurtado and student Alicia Wilbur, fund 236B0, 01/15/04 – 12/31/05, $6,030.

National Science Foundation, "Investigating Cultural Citizenship Among Second Generation Mexican Immigrant Youth," PI: Louise Lamphere and student Christina Getrich, fund 277N0, 06/15/06 – 05/31/07, $11,690.

Leakey Foundation, "Electroencephalography and Cognition Across the Lifespan Among the Ache," PI: Jane Lancaster and student John D. Wagner, fund 25110, 01/12/05 – 05/30/06, $11,438.

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

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

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


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

National Science Foundation, "Early Contact Period Interaction in the Western Spanish Borderlands," PI: Ann Ramenofsky and student Jennifer Boyd, fund 257W0, 08/01/05 – 07/31/07, $11,980.

Wenner-Gren Foundation, "Learning Lineages as Reflected in Ceramic Production in Early Historic Northwest New Mexico," PI: Ann Ramenofsky and student Jon Van Hoose, fund 236D0, 02/01/04 – 02/28/06, $24,860.

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

Summer/Fall 05
Robin Admire (BS), Shannon Allison (BA), Ingrid Arcos-Gamboa (BS), Timothy Beauchene (BS), Daniel Campbell (BS), Crystal Clark (BS), Taylor Clark (BS), Deidre Devault (BA), Paul J. Feist (BA), Kristin Garcia (BS), Hazel Garganera (BS), Benjamin Guevara (BA), Sarah Hartshorn (BA), Abigail E. Kagan (BA), Miya Ebony King (BS), Jared Koller (BA), Collette Maes (BA), Daniele Cherry Miesem (BS), Leah Murray (BA), Lily Pino (BA), Serina Shepard (BA), Ashley Smith (BS), Lena Stavely (BA), Dominic Villanueva (BS)

Spring 06
Carrie Anderson (BA), Mona Angel (BA), Freddie Bitsoie (BA), Melanie Brooks (BA), Sarah E. Brown (BA), Ryan Bruckner (BA), Eric Sediker Carlsen (BS), Anna Cummings (BA), Cynthia A. DeLaRoza (BA), Maria Del Rio (BA), Sara Dombroski (BS), John M. Draper (BA), Felicia Maria Garcia (BA), Jennifer D. Garlick (BA), Diane M. Greene (BS), David M. Hayes (BS), Amanda Humphrey (BA), Alvin Kaskalla (BA), Jess G. Lacy (BA), Valerie Larkin (BA), Wynnell Lebsack (BS), Adam D. Leroy (BA), Holly A. Lindsay (BA), Adam E. Lujan (BS), Daniel Roland May (BA), Rowan K. McGehee (BA), David Joseph McGrath (BA), Annie Montoya (BA), Julie Murray (BA), Sarah E. Myers (BS), James Ohler (BA), Carrie M. Owens (BS), Fawn E. Pazuchanics (BS), Nathaniel Price (BA), Jessie Reiss (BA), Emily R. Richardson (BS), Christopher Roberson (BA), Nina M. Sedillos (BA), Matthew Spurgeon (BS), Eric J. Strassner (BA), Amy J. Trujillo (BS), Stephanie Waldo (BA), Bethany M. Whiting (BA), Sierra Wilcox-Hindmarch (BS)

Bachelor of Arts and Bachelor of Science with Honors

Summer/Fall 05
Ilse Biel (BA), Ethnology
Honors Paper: Singing a New Afrikaans” (Les Field, Mentor)

Katy Lente (BA), Ethnology
Honors Paper: “Isleta Pueblo Tiwa in Cultural Context” (David Dinwoodie, Mentor)

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

Spring 06
Kristina Bair (BA), Ethnology
Honors Paper: “Patterns in Pakistani Rugs” (Les Field and Kathryn Klein, Mentors)

Rachel Ford (BA), Archaeology
Honors Paper: “Migration of the Saxons to the British Isles during the Early Anglo-Saxon Period” (James Boone, Mentor)

Vincent J. Lee (BA), Ethnology
Honors Paper: “Navajo Entry into the Southwest” (Les Field, Mentor)

Matthew C. Rosett (BA), Biological Anthropology
Honors Paper: “Establishing Scene Protocols for Buried, Burned and Surface Deposited Bodies” (Debra Komar, Mentor)

Maria H. Russell (BA), Ethnology

Rachel Sampson (BS), Biological Anthropology

Alexandra N. Wilson (BS), Biological Anthropology
Honors Paper: “The Evolution of Body Modification” (Magdalena Hurtado, Mentor)

Rosalinda Zamora (BS), Archaeology
Honors Paper: “Carved Bones of Copan” (Ann Ramenofsky, Mentor)

**Master of Arts and Master of Science**

**Summer/Fall 05**
Teresa Ann Alexander (MS), Barbara Bindie (MS), Brian Cribben (MS), Christopher R. Grivas (MS), Emira Ibrahimpasic (MA), Jason Radak (MS), Kristen Snopkowski (MS), Elisabeth Stone (MA)

**Spring 06**
Sandra Almand (MA), Matthew King Dawson (MS), Elizabeth Eadie (MS), Angela Evans (MS), Sean Gantt (MA), Alaina Goff (MS), Kristin Henderson (MA), Edward Jolie (MS), Po-Yun Ju (MS), Sarah King (MA), Christopher Millington (MA), Jonathan Stieglitz (MS), Amanda Veile (MS), Megan Anne Workman (MS), A. Nicole Wade (MA)

**Doctor of Philosophy**

**Summer/Fall 05**
Briggs Buchanan
Dissertation: “Cultural Transmission and Stone Tools: A Study of Early Paleoindian Technology in North America” (Lawrence Straus and Bruce Huckell, Co-Chairs)

Tanya Mueller
Dissertation: “The Effects of Socio-Ecological Variables on the Timetable of Reproductive Maturation in Captive Female Baboons (Papio Hanadryas Anubis)” (Jane Lancaster and Hillard Kaplan, Co-Chairs)

Abe Ruttenburg
Dissertation: “The Coordination of Foraging and Vigilance Tasks Among Fufous-naped Tamearins (Saguinus geoffroyi)” (Jane Lancaster and Hillard Kaplan, Co-Chairs)

Jeffrey Winking
Dissertation: “Fathering among the Tsimane of Bolivia: A Test of Evolutionary Models of Paternal Care” (Hillard Kaplan, Chair)

Spring 06
Jack Baker
Dissertation: “The Evolutionary Ecology of Thrifty Metabolism: Early-Life Signals of Environmental Instability and Later Body” (Magdalenda Hurtado, Chair)

Jada Benn
Dissertation: “African Ancestry and Admixture Estimates throughout the Commonwealth Caribbean” (Keith Hunley and Ann Stone, Co-Chairs)

Jocelyn DeHaas
Dissertation: “Negotiating Harmony: Women, Family and Work in Taiwan” (Louise Lamphere, Chair)

Angelle Khachadoorian
Dissertation: “Boarding School, Family and Opportunity: Student Discourses as Adaptive Strategies at the Southwestern Indian Polytechnic Institute” (Louise Lamphere, Chair)

Thomas Kies
Dissertation: “Labor Process, Ethnoaesthetics, and the Political Economy of Guitar Artisans in Paracho, Michoacan” (Carole Nagengast, Chair)

Trevor Kludt
Dissertation: “Batch Processing and Bulk Acquisition of Agave in the Desert Southwest” (James Boone, Chair)

Ruth Lambert
Dissertation: “Investigation of Small Structures in the Citadel District of Wupatki National Monument” (Patricia Crown, Chair)

Charles David Vaughan
Dissertation: “Taking the Measure of New Mexico’s Colonial Miners, Mining and Metallurgy” (Ann Ramenofsky, Chair)
Frieda D. Butler Award
The Frieda D. Butler Award is given annually by the department of Anthropology to honor the memory of Mrs. Butler, who established an endowment in 1975, when her grandson, Dr. Richard A. Barrett, was a member of the department faculty. In 1981 Butler’s daughter Margaret A. Barrett requested that a portion of the fund’s income be used for “a small award to a promising graduate student in anthropology.” The Butler Award of $400-$450 is given to an outstanding master’s student who has not yet taken the doctoral specials examination. The recipient delivers a public lecture during the Fall semester.

Recipient in 2005-2006: Edward Jolie
Lecture: “Basketry Technology and Cultural Identity: A Perspective from the Great Basin”

Ruth E. Kennedy Award
The Ruth E. Kennedy Award is given annually by the Maxwell Museum of Anthropology to honor the memory of Ruth E. Kennedy, wife of Edwin L. Kennedy, a major donor to the museum. Initiated in 1981, the award recognizes Mrs. Kennedy’s abiding interest in public education. The Kennedy Award of $100 is given to an outstanding doctoral candidate chosen by the department faculty. The recipient delivers a public lecture during the Spring semester.

Recipient in 2005-2006: John Rissetto
Lecture: “From Source to Site: Identifying Late Pleistocene Hunter-Gatherer Cultural Networks Through Patterns of Lithic Procurement in Northern Spain”

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

Recipient in 2005-2006: Emira Ibrahimpasic

Undergraduate Student Awards, 2005-2006

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

Recipient in 2005-2006: Jennifer Seacrest

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

Recipient in 2005-2006: Meaghan Trowbridge

Graduate Student Awards, 2005-2006

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

Recipient in 2005-2006: Gwen Adickes & Connie Constanz

New Mexico Folklore Scholar in Anthropology Award  
The New Mexico Folklore Scholar in Anthropology Award is given annually by the Department of Anthropology to a graduate student involved in investigative research and writing in the area of New Mexico Folklore. The New Mexico Folklore Society, founded by UNM faculty members in 1931, established the New Mexico Folklore Archive Fund in 1970. In 1986 it was renamed the New Mexico Folklore Scholars Endowment in order to make annual awards for a New Mexico Folklore Scholar in Anthropology and a New Mexico Folklore Scholar in English. The recipient of this year's award of $1,000 delivers a public lecture during the Spring semester.  

Recipient in 2005-2006: Mariann Skahan

Lecture: "You Can’t Teach Kids from a Book: Seasonal Culture Camps at the Jicarilla Apache Nation"

The Frank Hibben Trust  
Frank Hibben first came to New Mexico in the mid-1930s on an expedition to collect small mammals and birds for the Cleveland Museum of Natural History. A 1933 Princeton University archaeology graduate, Hibben was so fascinated by the Native
American cliff dwellings that he decided to attend graduate school at the University of New Mexico and make New Mexico his home. Dr. Hibben received a master's degree in zoology with field studies of the mountain lion from the University of New Mexico in 1936. He continued his education at Harvard, receiving his Ph.D. in archaeology in just one year, and then returned to New Mexico to begin his teaching career at UNM. In 2002, construction was completed on the Hibben Center for Archaeological Research. The Center is the home of the Hibben Trust, a $10 million endowment which furnishes annual grants to students working in the field of archaeological research.

2005-2006 Hibben Scholarships
- 1st year students: Joseph Aguilar & Christina Sinkovec
- 2nd year students: Edward Jolie & Sarah King

2005-2006 Hibben Senior Awards
- Judith Van der Elst & Connie Constan

2005-2006 Hibben Junior Awards
- 1st year students: Erin Hudson & Natalie Heberling
- 2nd year students: Chris Millington & Kaila Cogdill

2005-2006 Hibben Senior Dissertation Award
- Jennifer Boyd & Kari Schlerher

2005-2006 Hibben Senior Research Award
- Susan Ruth
DEPARTMENT OF ANTHROPOLOGY
JULY 1, 2005-JUNE 30, 2006
PROFESSIONAL ACTIVITIES

Feld, Steven
Research trips to Europe, Africa, and Japan, with support from the International Community Foundation and a UNM RAC grant, to continue work on The Time of Bells, a CD series.


Invited lectures at the Fowler Museum of Anthropology, UCLA; University of Bergen, Norway; University of Copenhagen, Denmark; University of Parma-Cremona, Italy; University of Joensuu, Finland; University of Oslo, Norway,

Special invited lectures: the Alan Dundes Memorial Lecture at University of California, Berkeley; the Ethel V. Curry Distinguished Lecture in Musicology, University of Michigan; The Distinguished Lecture, Department of Anthropology, University of Denver; Keynote Lecture, Conference on Anthropology of Sound, University of St. Andrews, Scotland.

Concert presentation of Documentary sound Art, Electronic Music Foundation, An Ear to the Earth Festival, NYC.

Field, Les
Research trip to San Juan de Oriente Nicaragua, associated with the opening of an Exhibit about San Juanense pottery at the International Museum of Ceramics in Denmark. May/June 2006.


Gorbet, Larry
Annual review committee (Deb Komar)

Linguistics Dept. M.A. Examination Committee (chair)

**Hill, Kim**
Implementation of a community-based conservation management program in Ache communities

Funded research project on cognitive ability among the Ache of eastern Paraguay

**Hurtado, Magdalena**
Implementation of health care worker program in Ache communities of eastern Paraguay

Implementation of a community-based conservation management program in Ache communities (with Kim Hill)

Funded research project on tuberculosis susceptibility, fluctuating asymmetry and host and M. tuberculosis genetics among the Ache of eastern Paraguay (with Bonnie Young and Anne Stone)

Funded research project on cognitive ability among the Ache of eastern Paraguay (Kim Hill)

**Komar, Debra**
Member of Scientific advisory team sent to the Darfur region of the Sudan to evaluate the reported genocide occurring in the area and to formulate a plan for a possible international medicolegal (forensic) response.

**Lamphere, Louise**
Chair, Advisory Committee, Alfonso Ortiz Center

Chair, Labor Relations Committee, American Anthropological Association

Vice President UNM Chapter of American Association of University Professor Chair, American Anthropological Association, Labor Relations Committee Chair Advisory Board, Ortiz Center for Intercultural Studies


**Lancaster, Jane**
Editor of *Human Nature: An Interdisciplinary, Biosocial Perspective*. Generally, out of four issues in a year, we publish two special issues and two general issues. This past year the special issues were *Kin Investment* and *Evolution of Religion*. This effort has paid off in terms of our ISI Journal Citation Reports that measures the impact of journals on the
intellectual fields that they serve. This past year Human Nature ranked 14th out of 51 Anthropological journals and 15th out of 27 Social Science/Biomedical journals.

Convener for Human Evolutionary Ecology

Member of the Advisory Council

HEE representative to the Undergraduate Committee in the fall

Representative to the Graduate Committee in the spring

Member of the Anthropology Salary Committee

Faculty Sponsor of a graduate-student initiated project to provide regular enrichment to the primates and large carnivores at the Albuquerque Zoo

Member of the Publications Committee of the Human Behavior and Evolution Society

Member of the New Investigator Award Committee for papers submitted at the annual HBES meeting

At-Large Board Member for the newly formed AAA Section, the Evolutionary Anthropology Society

President of the Albuquerque Chapter of the National Alliance on Mental Illness. This year we mounted an intensive effort to publicize the need for a Kendra’s Law at the State legislative session. This effort included the organization of press releases and Op-Ed publications as well as an invited speaker and lunch for 200 people. We just successfully lobbied for a Kendra’s Law Ordinance in Albuquerque which will go into effect in 2006-2007.

Video interview for Coast Learning Systems Course in Introductory Anthropology, Section on “Legacies of Human Evolutionary History”.

Kaplan, Hillard
Invited as plenary speaker for the annual Human Behavior and Evolution meeting in Philadelphia, PA, June 2006

Invited to participate in a panel of experts to advise the National Institute on Aging in developing new research initiatives in the burgeoning new field of Biodemography. I have written my recommendations, which will eventually be published, along with those of other panel members, in a special issue of a demography journal.

On-going service on the NSF cultural anthropology panel
Kaplan, H. and Hooper, P. The conditions favoring individualistic, egalitarian, and leadered economies. Workshop on "The Economics and Archaeology of the Neolithic Transition to Agriculture and the Implications for Inequality," Simon Fraser University, British Columbia, February 24-25, 2006.


Oakdale, Suzanne


Powell, Joe

Society for American Archaeology paper presentation in the social archaeology section. October 27, 2005

Member board of trustees (2005-2006), New Mexico Museum of Natural History and Science.

Rodriguez, Sylvia
"The Hydraulic Horizon as Transdisciplinary Borderland," comments for panel on Transdisciplinary Borderlands: Relationships among Archaeology, History and Ethnology, Annual meeting of the American Society for Ethnohistory, Santa Fe, November 19, 2005.


Graduate Advisor, and Ethnology Representative on the Graduate Committee

Search Committee for Department Chair

Code 3 Review Committee for Joe Watkins

Executive Council, UNM Center for the Southwest

Tenure Review Committee for Troy Lovata in Honors Program
Manuscript review for *Pacific Historical Review*, May 2006

**Singer, Beverly**

Co-host and organizer of Po'pay Commemoration Symposium, November 3, 2005: The Symposium was a major event co-sponsored with the Alfonso Ortiz Center for Intercultural Studies and the Native American Studies Department that brought the founders of the Po'Pay Statue Project to campus for a dialogue about the Pueblo leader Po'Pay and the aftermath of the Pueblo Revolt of 1680; over 200 were in attendance.

I produced a 10-minute video documentary "Po'Pay Statue Unveiling at Ohkay Owingeh" November 2005. I believe this was among my strongest community-based contributions to UNM as a public university concerned with recognizing a contemporary event within the context of ancestral Pueblo and New World history.

Keynote Address, "What is Indigeneity?" Race and Diversity Conference, University of Vermont, Burlington, VT, March 2006

Invited Presentation, "NDN (Indian) Places, Culture and Desire" at the Northwest Museum of Arts & Culture, Spokane, WA, April 2006

Invited Lecturer for the College of Education Globalization, Diversity, and Education Series, "Who We Are (a film) at the National Museum of the American Indian," Western Washington State University, Pullman, WA, April 2006

"Indigenous Research Perspectives in Mental Health impacting Native Americans," Kern County of California Mental Health Public Symposium on Race and Diversity Issues, Bakersfield, CA, May 2006

Invited Instructor for the Summer 2006 Institute of American Indian Arts Film and TV Workshop sponsored by ABC Television and Disney Studios, Santa Fe, NM, June/July 2006

Special Summer Field School, "Legacies of New Mexico," multi-media field-based program team taught with Professors Enrique Lamadrid and Miguel Gandert, July 2006

**Straus, Lawrence**

Named "Distinguished Professor" by the University of New Mexico College of Arts and Sciences

Continued to serve as Editor-in-Chief of the Journal of Anthropological Research

Continued to serve as Book Review Editor for Archeology & Paleoanthropology of JAR

Continued to serve as a member of the Editorial Boards of 6 European archeology journals
Continued to co-direct excavations in El Miron Cave (Cantabria, Spain) in summers of 2005 & 2006, with the involvement of several UNM graduate students and funded by UNM and the National Geographic Society; currently excavating early Magdalenian levels, about 16-17,000 radiocarbon years old.

Continued to serve as Member of the U.S. National Committee for the International Union for Quaternary Research (INQUA), appointed by the National Academy of Sciences.

Continued to serve as Vice President of the INQUA Commission on Paleoecology & Human Evolution.

Continued to serve as U.S. Member of the Commission on the Upper Paleolithic of Europe of the International Union of Prehistoric & Protohistoric Sciences (UISPP).

Gave numerous public talks in Spain and U.S. and papers at the Annual Meetings of the Society for American Archaeology and Paleoanthropology Society.

Named an Associate Member of the Instituto Internacional de Investigaciones Prehistoricas at the Universidad de Cantabria (Santander, Spain).

Chaired the Anthropology Department Faculty Evaluation ("Salary") Committee, the Clark Field Archive & Library Policy Committee.

Continued to serve as Library Liaison for Anthropology & Member of the Board of Archeologists.

Member of the ad hoc committee to hire a Mesoamerican Visiting Assistant Professor of Archeology.

Served as reviewer for numerous other journals and funding agencies.

**Watkins, Joe**


“How to Give a Professional Presentation: The ‘Dos’ and ‘Don’ts’ Acted Out Live and In Person”. Presentation to the Anthropology Graduate Students Association (with Carol Ellick). April 2006.

“Between Hither and Thither: Trade Relations between the Pueblos and the Plains over Time” Public presentation, Friends of Tijeras Pueblo. Tijeras Canyon Ranger District, Tijeras, NM. April 2006.

“Who We are and from whence We came: Archaeological and American Indian Perspectives on Populating the New World”. Presentation to the Mensa Society, Albuquerque. February, 2006.


Completed service as Member, Board of Directors, Society for American Archaeology
Anthropology Mid-day Series
Dr. Marta Weigle, "The Strange and Different in NM: Engineering Enchantment"
March 29, 2006 1 pm, Hibben 105

Dr. Deborah Huntley, "Glazeware Pottery Production and Community Interaction in the 4th Century Zuni Region"
April 5, 2006 1 pm, Hibben 105

Dr. Sylvia Rodriguez, "Acequia Ethnography"
April 19, 2006 1 pm, Hibben 105

Journal of Anthropological Research Distinguished Lecture Series
Dr. Fraser D. Neiman, "The World of Thomas Jefferson & Sally Hemings at Monticello: Archaeological Perspectives on a Slave Society"
Thursday, November 3 at 7:30 p.m.
UNM Anthropology Lecture Hall (Rm.163)

Specialized Seminar on:
Dr. Fraser D. Neiman, "Commodities as costly signals: the case of tobacco pipes in 17th century Jamestown, VA"
Friday, November 4 at 12 noon
Anthropology Room 178

Dr. Pauline Wiessner, "From Spears to M16s: Changing Means and Meanings of War in a Papua New Guinea Society."
Thursday, February 2, 2006 at 7:30 pm
UNM Anthropology Lecture Hall (Room 163)

Ruth E. Kennedy Memorial Lecture
John Rissetto "From Source to Site: Identifying Late Pleistocene Hunter-Gatherer Cultural Networks Through Patterns of Lithic Procurement in Northern Spain"
Thursday, April 27

New Mexico Folklore Scholars Lecture
Marian Skahan, "You Can’t Teach Kids from a Book: Seasonal Culture Camps at the Jicarilla Apache Nation"
Friday, May 5
Transaction Publishers had taken several initiatives to bolster the circulation of the journal. One is a major mailing to prospective subscribers and a full publisher’s display at the HBES and AAA meetings this past year. The other is to offer print, electronic or electronic/print options to both Individual and Institutional subscribers. Discounted subscription rates are now officially offered to The Human Behavior and Evolution Society, The Evolutionary Anthropology Society of the AAA, The International Society of Human Ethnology, and Evolution and Society of the ASA. Hopefully, these arrangements will increase our individual subscriber base. Our current circulation (including paid and complementary copies) is up 37% to 309, with 186 being Institutional subscriptions.

*Human Nature* has once again scored highly in the Journal Citation Reports Social Science Edition for the year. This time we rank 14th out of 51 Anthropology journals and 15th out of 27 in the Social Sciences, Biomedical category. Our Impact Factor is 0.974 and our Immediacy Index is 0.222. These high ratings may account for our continued increase in institutional subscriptions at a time when other journals are experiencing library cancellations.


Dr. Jane Lancaster serves as Editor of the journal, and Drs Osborn, Boone, and Kaplan in Anthropology and Drs. Gangestad and Miller in Psychology serve as Consulting Editors for *Human Nature*.
In calendar year 2005, JAR received and reviewed 42 manuscripts. Each manuscript, besides being read by the editor, is normally reviewed by three to five specialists. 27 manuscripts were received from January 1 - June 30, 2006 and twelve more to date. We have noted a steady increase in submissions from foreign authors. This fact requires additional effort by the Editor, Copy Editor, and Compositor, but helps bring JAR (and UNM) increased positive international exposure.

JAR has maintained its subscription base. Subscribers are from all 50 states, Washington D.C., Puerto Rico and Guam, plus 55 foreign countries on five continents. Free subscriptions are provided to UNM Anthropology Faculty, JAR Editorial Board, Administrators and Libraries, as well as to indexing agents both in the U.S. and abroad.

Volume 61, 2005 contained 588 printed pages: 16 articles, and 97 book reviews and review essays, plus editorials and obituaries.

Volume 62, nos. 1, 2 and 3 have been published for 2006 and no. 4 is in production at this time. Articles for Volume 63, no. 1 are being selected.

JAR On-Line was initiated with Volume 62, 2006. This is an electronic version hosted by the University of Michigan, Scholarly Publishing Office. Sixty-three subscribers from 10 foreign countries and 22 states took this initial offer. The electronic version was offered to institutions only in conjunction with hard copy subscription at an additional fee of $25.00. Subscription gave access to Volume 61 and 62 on-line. In 2007, we will offer on-line access to three years of JAR to encourage additional subscribers.


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

Dr. Fraser Neiman (Director of Archaeology, Monticello)
*Lost World of Thomas Jefferson and Sally Hemings at Monticello*

JAR Distinguished Lectures for 2006 are:
Dr. Pauline Wiessner (University of Utah)
From Spears to M-16s: Testing the Imbalance of Power Hypothesis among the Enga.
JAR Volume 62, no.2, 2006

Dr. William C. McGrew (Leverhulme Centre for Human Evolutionary Studies, Cambridge University)

New Wine in New Bottles: Prospects and Pitfalls of Cultural Primatology.
November 9, 2006

Dr. Wiessner’s lecture was extremely well attended, as were her scheduled and additional seminars, the latter of which she screened a tape on warfare and politics in Papua New Guinea.

Editorial Board

The Board experienced the sad loss of Robert Santley, who died in March 2006. Two new members, Steven Feld and David Stuart, were added.

Philip K. Bock, Steven Feld, Louise Lamphere, Carole Nagengast, and David Stuart together with L. Straus now make up the Board.

Associate Editors

In an effort to increase manuscript submissions and spread the reviews to a larger field, four new associate editors were added in 2006. Their names are highlighted.

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

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

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

Copy Editor
M. June-el Piper.

Employees
Ann Braswell
Andrea Cooper

Business Manager/Book Review Copy Editor
Student Book Review Coordinator
JSTOR

JAR, with permission from the University, has entered into an economically advantageous contract with JSTOR for electronic storage and delivery to JSTOR subscribing libraries. There will be a three-year moving embargo wall. All issues from Volume 1, 1945 (starting as Southwestern Journal of Anthropology) are currently being scanned. We hope this project will be accomplished by Fall of 2007.

The University of New Mexico Press represented JAR at the meetings of the Society of American Archaeology, the American Anthropological Association and the Society of Applied Anthropology. Dr. Straus represented JAR at the Paleoanthropology Society in Puerto Rico, in Spain in Summer, and at the UISPP Congress in Lisbon, Portugal in Fall 2006. Advertisements were run in the December 2005 issues of both Current Anthropology and American Anthropologist. This year we are planning to run an ad in the December 2006 issue of American Antiquity.

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

Subscription Rates for paper will remain the same for 2007 ($50.00). For those institutions wishing to subscribe for the on-line journal, an additional fee of $25.00 is charged. Due to increases in the U.S. postal rates, JAR has increased postage fees to overseas subscribers to $8.00. JAR’s policy is to continue to deliver a high quality, peer-reviewed publication in all areas of anthropology in a way which is efficient, economical, and accessible to institutions and individual scholars worldwide.
MAXWELL MUSEUM OF ANTHROPOLOGY

ANNUAL REPORT
[July 1, 2005-June 30, 2006]

Bruce B. Huckell
Interim Director
A. GENERAL
The year 2005-2006 has been a very active one for the Maxwell Museum of
Anthropology and marks the beginning of a significant time of transition. Dr. Garth
Bawden, Director for two decades, announced his retirement from that position in April
of 2005. On August 1, Dr. Bruce Huckell, Senior Research Coordinator, began a two­
year appointment as Interim Director. The principal goals for the year were to complete
the process of reaccreditation by the American Association of Museums (AAM) that was
begun in early 2005; to continue development and implementation of the museum’s
strategic plan created in 2004-2005; to continue development of the Alfonso Ortiz Center
for Intercultural Studies and Maxwell Center for Anthropological Research; and to
resolve lingering matters associated with the home and estate materials of the late Dr.
Frank Hibben. This plan was complicated by an unanticipated audit of Maxwell cash­
handling policies and procedures by the Internal Audit Department in September.
However, significant progress was made on all the principal goals and the audit was
resolved by the end of 2005 to the satisfaction of all concerned.

B. REACCREDITATION
The AAM reaccreditation process had been initiated with the preparation and submittal of
a lengthy self-study document in January of 2005. A two-person Accreditation Visiting
Committee was designated by the AAM in November, 2005; it consisted of Dr. Geoffrey
Conrad (Director, William Hammond Mathers Museum, Indiana University) and Dr. C.
Kurt Dewhurst (Director, Michigan State University Museum). The committee visited
the Maxwell Museum on January 30-31, 2006, and had the opportunity to tour the
museum and its facilities, meet with museum staff members, Anthropology Department
administration, and the Dean of the College of Arts and Sciences, and to collect data for a
report to the AAM that evaluated the operation of the museum. Unfortunately, Huckell
was called away unexpectedly and thus unable to host the visiting committee, but
Bawden was able to ensure that the visit went according to the plan of appointments and
activities that had been prepared in advance of the committee’s arrival. Dr. Conrad
subsequently interviewed Huckell by telephone. Conrad and Dewhurst then compiled
their report and submitted it to the AAM Reaccreditation Program. The museum
received a request from AAM for more data on ways in which the strategic plan was
being implemented, and that information was provided to them in April. The AAM
Accreditation Commission met on July 25-28, and on August 15 the Maxwell Museum
was notified that it had been granted reaccreditation. The next reaccreditation review will
begin in 2014.

It is significant to note that reaccreditation was granted with no conditions or
requirements for additional documentation or reporting, as had been the case in 1997.
The Visiting Committee report recognized the successes of the museum in meeting its
mission and correcting matters identified in 1997 as needing attention, and for adhering
to the high standards established for conduct by AAM. Further compliments were
extended to the museum staff for its professionalism and for the collaborative
development of a strong strategic plan that pointed the way for continued development of
the museum mission. The creation of the Maxwell Center for Anthropological Research
and the Alfonso Ortiz Center for Intercultural Studies was also applauded. Concerns
were expressed by the Visiting Committee regarding the limited space and lack of adequate environmental controls for the Ethnological collections, and also for apparent issues of leadership and stability of the Maxwell Museum Association. They further noted that the museum and UNM higher administration were in a time of transition in leadership and expressed hope that permanent appointments could be made soon.

C. INTERNAL AUDIT
The surprise audit of museum cash handling policies and procedures was conducted in September, 2005, and an initial draft report was sent to the museum in mid-November. It identified concerns over internal controls on cash management, training of employees who handled cash, the amount of funds kept on hand for change, improper cash register controls, security of store inventory before placement in the store, a need for a formal rental contract for museum facilities for receptions and the like, inappropriate issuance of parking permits, and informing employees of updates on UNM business policy and procedure. Bruce Huckell and Peggy Esquivel-Childers met with UNM auditors Debra Yoshimura, Yvonne Cox, and Melissa O'Neil on November 17 to discuss the findings, and submitted a written report to them on December 12. The museum report agreed with the specific concerns raised by the audit and provided proposed remedies to bring the museum policy and procedures into compliance with those of the university. A final report was issued by the Internal Audit Department on January 10, 2006, that presented both the original findings and the museum's planned remedies. It was forwarded to the Regents, and was received by them in April. We were pleased that Regent Chalmers singled out our report response for praise in terms of its timeliness and thoroughness. Subsequent contact with the Internal Audit Department over the spring and summer of this year has assured them that the museum has satisfactorily implemented the new policies and procedures.

D. ALFONSO ORTIZ CENTER FOR INTERCULTURAL STUDIES
The Ortiz Center, a Maxwell Museum-Department of Anthropology collaborative venture, continues to be a focus of concern, primarily because of the lingering need to raise sufficient funds to meet the NEH Challenge Grant match. Relatively slight successes in this realm were seen in 2005-2006, and an extension of the time available to meet the match was sought and granted from NEH. For the 2006-2007 year both the museum and the College of Arts and Sciences are aggressively pursuing fund-raising, with a target of at least $152,727.00. Senior Development Officer Sachiko Isobe has been and continues to be an invaluable force behind this drive, and we are grateful for her support.

In addition to the continuing fund-raising, the Ortiz Center has been extremely active and productive over the past year. Perhaps the most outstanding project to reach fruition was the opening of the Haaku Museum, which was developed as a collaborative project between Acoma Pueblo and the Ortiz Center. Kathryn Klein—whose status was changed from Interim Director to Director of the Ortiz Center—devoted considerable time and expertise to the project. This beautiful museum opened in May, 2006, and has received high praise. Numerous other projects were carried out with Ortiz Center sponsorship, including a one-day conference celebrating the dedication of the Popay statue in the
nation’s capitol, sponsorship of museum exhibits and associated events such as El Rio, VSA Special Arts, and Africa. Several new projects are in the planning stages, and the level of activity of the Ortiz Center continues to be outstanding.

E. MAXWELL CENTER FOR ANTHROPOLOGICAL RESEARCH
The Maxwell Center for Anthropological Research (MCAR) continued to acquire more research affiliates, and currently lists 20 members. Among the newest are Drs. Joan Mathien and Mostafa Fayek who together successfully sought and were awarded an NSF grant to pursue research into the sources of Southwestern turquoise, particularly those represented as ornaments in Chaco Canyon. Dr. Mathien, recently retired from the National Park Service Chaco Archives here at UNM, is continuing to follow her interests in the patterns of prehistoric trade and interaction that can be traced through the study of turquoise. Dr. Fayek is a geochemist based at the University of Manitoba in Winnipeg, Manitoba. Their grant is the first independently gained award to be managed through MCAR, and we are delighted to have them as research affiliates.

Dr. Hayward Franklin, an expert in Southwestern ceramic analysis, also joined MCAR and began a long-term project to investigate the ceramics recovered from the site of Pottery Mound in the Rio Puerco Valley. This is the first comprehensive study of materials recovered from work conducted by Frank Hibben in the 1950s through 1980s, and it promises to be a significant contribution to knowledge about the late prehistoric Ancestral Pueblo occupation of the Rio Puerco Valley. Two efforts by Maxwell Museum staff members are also part of the renewed interest in this site. Dr. David Phillips, Curator of Archaeology, has embarked on an effort to publish descriptive reports on each of the UNM Archaeological Field School seasons at Pottery Mound; these will be made available in digital form. He has also initiated an effort to map the entire site, which is UNM property, in order to document current conditions and to monitor changes brought about by erosion. Dr. Heather Edgar, Curator of Human Osteology, recovered portions of two human burials that were exposed by erosion at Pottery Mound. This excavation was preceded by a consultation meeting with representatives of Isleta Pueblo tribal government, which resulted in a long-term agreement that the Maxwell Museum will recover and rebury on-site all human remains that may come to light with continued erosion. This partnership reflects a commitment by the museum to work with tribes on the sensitive matter of proper treatment of human burials on UNM-owned lands.

Finally, Bruce Huckell initiated a collaborative project in May, 2005, with Dr. Vance T. Holliday of the University of Arizona to test Mockingbird Gap, a very large Clovis site located southeast of Socorro. The goal is to learn whether significant deposits of Clovis archaeological materials remain to be excavated, and whether the deep floodplain deposits of the adjacent Chupadera Wash hold a record of the environment as it existed before, during, and after Clovis occupation some 13,000 years ago.

F. OFFICE OF CONTRACT ARCHAEOLOGY
This year was a particularly successful one for the Office of Contract Archaeology (OCA). A record of increasing fiscal responsibility and awards of new contracts that has been evident over the past few years was augmented by the award of a 4 million dollar
contract for the investigation of several sites along the MAPL pipeline. The size of this project necessitated the hiring of several new employees, most temporary, to conduct the research. Many of these new employees were UNM students, whose hiring is a long-standing priority with OCA.

G. FRANK HIBBEN LEGACY
The generous donation by Frank Hibben of his residence and all of its contents to the University of New Mexico Foundation, for the benefit of the Maxwell Museum, represents a tremendous opportunity for the museum. That process has played out in small increments over the past several years, but in July 2005, the Hibben house on East Campus Drive was vacated. Numerous pieces of furniture, objects of ethnological significance, his personal library, and other materials came to the museum; many more that were not deemed necessary to add to the collections were left at the house. In October an estate sale raised over $18,000, over $12,000 of which came to the museum in accordance with the terms of the donation. The UNM Foundation, which has overseen the residence since Hibben’s passing in 2002, was prepared to initiate the sale of the house, but Vice President of Research and Development Terry Yates requested that he have the opportunity to lease the house from the Foundation. This was in part predicated on the desire to incorporate several of the trophy heads in the house into the Museum of Southwest Biology; questions regarding legal matters of ownership of imported and endangered species represented by some of the trophies necessitated that they remain in the house until those questions could be resolved. In addition, there was a desire to use the house as a research center, long a provision of the original gift but one that was obviated for the Maxwell Museum by the construction of the Hibben Center for Archaeological Research building. Considerable delay occurred in reaching agreement for the terms of the lease and in putting the lease into effect. However, in May 2006 the Hibben house was officially leased to the OVPRD for one year.

As has occurred for the past two years, more objects from the Hibben house were added to the collections of the Maxwell Museum in 2005-2006. In October 2005, several pieces of furniture and art were returned to Peggy McKinley because they had been promised in inheritance by Hibben’s first wife, Eleanor. The remaining pieces deemed not useful for the museum will be sold in a second auction. Hibben’s extensive personal library contained numerous books and journals of anthropological significance and value, as well as an extensive collection of classic literary works, hunting/fishing books, wildlife books, and fiction of a variety of kinds. In accordance with the terms of the gift, each was assessed and a decision made as to its value to the museum and the university. Anthropological materials were first offered to the Clark Field Archive and Library (CFAL) and then to the Zimmerman Library. Alan Shalette, long-time volunteer Librarian of the CFAL, worked with David Phillips, Curator of Archaeology, in the process of sorting and assessment of needs. He also is in the process of researching the values of books that will not be retained but ultimately disposed of through sale. As a result, missing issues of journals and important books have been added to the CFAL. The devastating fire suffered by the Zimmerman Library in April altered this process significantly because the fire destroyed or damaged numerous anthropological journals. We are currently holding significant runs of journals in the Hibben collection that may be
needed as replacements; to those have been added short runs of duplicate journals held by CFAL.

H. IMPLEMENTATION OF THE STRATEGIC PLAN

Steady progress in implementing the strategic plan adopted in 2005 was made, although significant goals remain to be met. The most significant successes of the year were in the realm of public education and enrichment. Most notable was the reinvigoration of the public programs in the capable hands of Mary Beth Hernans, Public Programs Coordinator who was hired in 2005. She has been able to re-establish one long-time evening lecture program (People of the Southwest) and initiate a second one focused on topics of biological anthropology; talks in both series have been well attended. A second new employee, Amy Grochowsky, was hired as Curator of Education in late 2005. She has revitalized the education programs of the museum, and has been particularly effective in developing strong working relationships with other staff in the Interpretation Division of the museum. She has been an excellent leader for the docent program, active in providing them not only with training but also opportunities for their own education such as field trips. Both Amy and Mary Beth have been supportive colleagues working with their peers to create an active, smoothly functioning public face for the museum.

Under Ian Wagoner’s leadership, the Exhibits Department has been very active in ensuring that the museum’s temporary galleries contain an excellent series of changing shows. The exhibit calendar is now full for the next two years and major exhibits have been scheduled for two years beyond that, into 2009. Maintaining a high level of visibility and frequently changing exhibits is an important goal of the strategic plan. Particularly successful major shows in 2005-2006 have included Africa, The Holocausts of Rwanda and the Sudan (guest curator Lucian Niemeyer) and El Rio, a Smithsonian Institution traveling exhibit brought to the Maxwell Museum by Enrique Lamadrid. Multiple informative and enjoyable public events associated with both major exhibits have been well attended.

One cause for concern is a period of lessened activity and changes in leadership for the board of the Maxwell Museum Association (MMA). The unanticipated resignations of the MMA President and Treasurer at the end of 2005 have thrown the board into some disarray, and although both vacated positions have been filled the board is still struggling to make long-range plans for events. Their financial assets have dwindled as well, further compromising their ability to provide support to museum programs and events. Attention has been paid to the development of membership recruitment strategies and the identification of new candidates for the board, and significant progress has been made on those fronts in recent months. Because of the important role identified and agreed upon for the MMA in the strategic plan with respect to providing resources in support museum exhibition, education, and public programs, it is hoped that their current difficulties will be short-lived.

In closing, even though 2005-2006 was a transitional year for the Maxwell Museum of Anthropology, it was one marked by continued success and achievement that contribute to its sustained drive to meet its mission and to implement its plan for the future. In
2007, the museum will celebrate its 75th anniversary, and preparations are already underway for a year-long series of events to mark the occasion. We look forward to the new year with excitement and anticipation.

I. INSTRUCTION AND SPONSORED RESEARCH

Instruction
1. Anthropology 482L/582L. Geoarchaeology (Huckell)

2. Anthropology 597. Independent Study – Problem Solving (Huckell)

3. Anthropology 698. Independent Study – Advanced Research (Huckell)

4. Anthropology 699. Dissertation Hours (Huckell)

5. Anthropology 475/575. Southwestern Archaeological field school (Huckell)

5. Anthropology 455/450. Osteology/ Odontology Practicum(Edgar)

Sponsored Research and Education
Archaeology (General and Maxwell Center For Anthropological Research)
1. Petrographic analysis of potsherds from Pottery Mound. Maxwell Museum Hibben Research Endowment: $2,000 (Franklin)

Archaeology (Office of Contract Archaeology)
New contracts awarded: 21
Total value of new contract awards: $2,495,991.00
IDC value of new contract awards: $833,616.00
Actual IDC accrual in FY 2004: $296,707.00

Discussion and Outlook:
During FY 2005, OCA did new business with a total of 11 clients. Encumbered contract value and associated IDC value reflects a significant upturn from the previous fiscal year. OCA reacquired its open-end services contract with the U.S. Army Corps of Engineers, Albuquerque District; which has contributed significantly to OCA’s contract base through the past five years. Our contracts with Enterprise Products Operating LLC are now underway, with budgets totaling over $2.1 M for excavation and analysis at 41 sites. Finally, a services contract was established with the NMDOT to fund planning and excavation fieldwork anticipated to begin the FY 07 with anticipated budgets in excess of $2 M.

Student Support
OCA employed 11 students with financial support totaling $41,326.00 during FY 2006. 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.
Publications, Papers, and Presentations Connected with Sponsored Research
OCA senior staff authored 13 OCA/UNM professional publications; engaged in educational and public outreach activities such as public lectures, and presented papers at professional conferences. In addition to dissemination of 80 copies of reports mandated by contract terms, OCA distributed 133 copies of reports through sales and complimentary copies during FY 2006.

Other Sponsored Programs
1. Education Division APS K-12 Classroom Teaching Program. MMA: $10,000

2. Public Programs Division. MMA: $3,000

J. EDUCATIONAL PROGRAMS/DEPARTMENT UPDATES
Exhibits
1. I Can See By Your Outfit: Wearing Apparel & Native Heritage. July 15, 2005


7. A Peripatetic Investigation of Riparian Place. April 28, 2006

Public Education
1. Over 400 classes in the Albuquerque Public School System. (128 requests for traveling trunks, 41 requests for tours)

2. Archaeology Fair in collaboration with the Park Service

3. Children’s summer Day Camp in Maxwell Galleries

4. Teacher’s Open House at the Natural History Museum

5. UNM Day at the Roundhouse Booth

Public Programs
1. Ethnic Lunches (10).

2. People of the Southwest Lecture Series (3).
3. *Ancestors* Lecture Series (2)


4. Indian Bread Baking Demonstration (14).

5. Gallery talks/Readings/Booksignings (3).

6. Exhibit Openings (5)

7. Celebrate the Maxwell (Volunteer Recognition)

8. The Frieda Butler Lecture

9. The Kennedy Lecture

**Archaeology**

1. We instituted a new report series, The Maxwell Museum Technical Series, distributed primarily via the World Wide Web

2. We made substantial progress on reorganizing the Tijeras Pueblo collections and field notes, in order to update storage conditions and make those collections more accessible for research. This long-term project should be done by the end of the year. We also made good progress on reorganizing the Gallina Culture collections and notes, some of which date to the 1930s.

3. Work continued on the Pottery Mound collections, including a volunteer-based analysis of sherds from the 1979 testing program. A rescue and reburial program was instituted for exposed burials, and work on a master site grid began.

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

5. Preparations began for the major construction planned for the Hibben Center from September 2006 through March 2007.

**Database**

1. Completed Oracle Internet Forms for collections database

2. Completed final migration of current Access collections data

3. Converted OCA data from past projects for migration directly into collections database

4. Converted Economides patient files to Access database
5. Corrected/Updated over 10,000 archaeology records

**Ethnology**

1. Completion of relocation of Pottery into Hibben Center (a project conducted jointly with Archaeology Curator)

2. Completion of upgrading of B-3 (old pottery room) removal of old wooden storage units, new paint on floor ceiling and walls to seal exposed concrete and installation of new shelving.

3. Completion of relocation of artifacts in B-16 (3-dimensional multimedia objects) into B-3

4. Relocation of artifacts in B-18 (3-dimensional multimedia objects) into B-3, near completion

5. Newly relocated objects in B-03 are reorganized by culture for better access

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

7. New Acquisitions: 2 Casa Grades pots, donor, Tom Thompson, Alaskan artifacts: 3 ink drawings, 1 pair fur mittens, fur hood, 1 doll, 2 animal figures, donor, Warren Austin, 3 Maya bowls, 3 headwraps, 4 South American pots, 3 stone hatchets, 2 American manioc pounding sticks, donor Robert Hozapfel, 54 (out of a total of 132 reported last year—given in three installments) Baskets from Rural mid- and north eastern United States, including Oneida, Seminole, Coushatta, Mohawk, Choctaw and others, donor Denneb Teliki, 2 North American plateau (?) bags, donor Jack Campbell, 12 Mexican masks, donor Ron Davidson, 1 poncho, 1 pair mano and matate, 1 gourd pot, donor, Karl Scherwin, 8 Oaxacan textiles, donor Rose Giotto, 144 various ethnological objects from Africa, South America, Mexico, and Asia, donor Hibben Estate, 32 Historic Pueblo pots, Maurice Bloom Jr.

**Ortiz Center**

1. *35th Anniversary of Navajo Language Instruction at the University of New Mexico* Co-sponsored with the Department of Linguistics, a four part series of public events including an opening reception, presentations by Sunny Dooley a Navajo Storyteller, the Crownpoint Navajo Weavers who presented a public discussion of textiles in the Maxwell Museum collection, as well as an evening with Navajo Code Talkers

2. *Po’pay Commemoration Symposium* In celebration of the dedication of a sculpture of Po’pay as gift from San Juan Pueblo installed in the Statuary Hall of the Capitol Building in Washington DC, Native American scholars met to discuss the history and significance of Po’pay, the leader of the 1680 Pueblo Revolt. Alfonso Ortiz recognized Po’pay’s legacy as central to Native American scholarship and identity. November 2005

4. *Haak’u – A Plan to Prepare: The Sky City Cultural Center and Museum Initiative* A collaborative project with the pueblo of Acoma to support the development of permanent exhibitions for the new facility. on-going

5. *Cotton Girls* Co-curated and coordinated with Acoma’s Haak’u Museum Curator and the conservation staff of the National Museum of American Indian the development and installation of an exhibition of rare Acoma textiles for the opening of the Sky City Cultural Center May 2006


7. *Hands on Humanity Program* an on-going program that will present a series of events and family activities associated with exhibitions at the Maxwell. Developed with Maxwell Interpretation Committee. (Starting with the El Rio exhibition above.)

8. *El Rio Roundtable* a discussion by visiting scholars and UNM faculty members to address environmental and cultural issues pertaining to *acequias* in New Mexico and Northern Mexico. September 2006.

**Human Osteology**

1. 6 Body donations were received and processed this year.
2. 9 OMI cases
3. Collections
   a. 250 individuals in contemporary documented collection.
   b. 133 individuals in OMI documented collection
   c. 200 individuals in OMI doe collection
   d. 50 individuals in documented doe collection

This year, Lab staff proceeded with the organization and collections documentation necessary prior to a repatriation of human skeletal materials to Jemez Pueblo. During the academic year, 163 skeletons were completely processed and prepared for repatriation. Approximately 70 skeletons remain to be analyzed. Additionally, human remains from three archaeological sites were de-accessioned and turned over to the Forest Service in preparation for repatriation.

**Photo Archives**

The entire Hibben slide collection (numbering in the thousands of slides) is now housed in archival material.
2. Dr. Roberto Ibarra’s collections of archaeological and ethnographic slides from Latin America have been digitized by grad student, Kaila Cogdill.

3. Digitization of the Pottery Mound slides and field drawings is complete. The digitization process generated over 157 gigabytes of images. Hibben scholar, Chris Millington, worked on this project for two years.

4. The complete collections of photographs, negatives, film, and document archives of John Collier, Jr. have been received from Malcolm Collier.

5. Purchased an explosion/fireproof freezer for nitrate negatives with capital equipment funds from Arts & Sciences.

K. PERSONNEL APPOINTMENTS AND SEPARATIONS

Appointments
Mary Beth Hermans 9/05
Connie Goodwin 3/06
Amy Grochowski 4/06

Separations
Garth Bawden 8/05
Ruby Bustos 3/06
Dionelia Gutierrez 7/05
Steven Sciscenti 10/05

L. PERSONNEL PROFESSIONAL ACTIVITIES AND PUBLICATIONS

Publications by the Office of Contract Archeology

2. Gerow, Peggy A.. 2006. Cultural Resources Inventory of the Vaughn Pipe Storage Yard, Guadalupe County, New Mexico. Addendum 2 to The MAPL Western Expansion Project, Cultural Resources Inventory of Six Loop Segments and Ten Pump Stations between Huerfano and Hobbs, New Mexico. Office of Contract Archeology, University of New Mexico, Albuquerque.


**Publications and Professional Activities by the Maxwell Museum**

H. Edgar (Curator of Human Osteology)

2. Edgar HJH, Sciulli PW. 2006. Comparative human and deer (*Odocoileus virginianus*)
taphonomy at the Richards Site, Ohio. International Journal of Osteoarchaeology 16:124-
137.

the Gullah: Tests of hypotheses regarding developmental stability in deciduous vs.
permanent and male vs. female teeth. American Journal of Physical Anthropology
129:427-434.

4. Edgar HJH. 2006. A test of dental morphological traits used in forensic identification

5. Lease LR, Edgar HJH. 2006. Comparing correlations of metric and morphological
data from deciduous and permanent dentitions in a European American sample. Human
Biology Association Meeting Supplement.

6. McGuinn RJ, Edgar HJH, Lease LR. 2006. Is there a correlation between deciduous
and permanent dental metrics in a sample of female Americans of Hispanic descent?
Human Biology Association Meeting Supplement.

7. “Excavations in historic cemeteries” Presented as part of the Albuquerque
Tricentennial Celebration, 2006.

8. “Every historic cemetery is different” Presented to the New Mexico Geneological

International Symposium on Dental Morphology, y odz Poland, 2005.

10. American Association of Physical Anthropologists:
    Ethics Committee, 2004-present
    Career Development Committee, 1998-2004
    Panel participant 2004
    Dental Anthropology Association:
    Secretary/Treasurer 2003-2005

P. Esquibel (Unit Administrator)
1. Participated in the Museum Cooperative Council Meetings

2. Attended Department Administrator Meetings

3. Member of the Maxwell Museum Association Board

4. Attended NMAM conference

A. Grochowski (Curator of Education)
1. Attended Muva Meetings

2. Governor’s Conference on Volunteerism, presenter - panel discussion on Volunteerism in the Arts and Culture

3. Making Effective Presentations, Pt 1 & 2

4. Attended Minda Boren workshop on family learning in museums at the NMMNH

M. Hermans (Public Programs Coordinator)
1. Grant writing workshop by the Grantsmanship Center

2. UNM Continuing Education:
   - Introduction to Computer Graphics
   - Introduction to Layout
   - Introduction to Illustrator
   - Intermediate In-Design
   - Introduction to Access

B. Huckell (Interim Director)


3. Submitted book chapter manuscript — *Paleoindians: Plains and Southwest, An Interpretive Summary of the Paleoindian Occupation of the Plains and Southwest* — to the Smithsonian Institution for publication in the Handbook of North American Indians, Vol. 3 (co-authored with W. James Judge)

4. Assumed duties of Interim Director of the museum on 8/1/05

5. Concluded archaeological and geological test investigations at the Mockingbird Gap Clovis site.

6. Helped organize and oversee AAM reaccreditation

7. Participated in MMA and Ortiz Center boards

8. Assisted in the preparation of response to internal audit of museum cash handling policies and procedures
9. Secured a donation of 20th century Pueblo pottery vessels from J.R. Bloom

10. Member of the Anthropology Department newsletter committee

K. Klein. (Ethnology)
1. Attended NMAM conference

D. Larson (Data Manager)
1. Javascript Programming (online)

2. Oracle 10g 2 Day DBA

D. Phillips (Curator of Archaeology)
1. The first report in the Maxwell's new technical series, on emergency excavations in Albuquerque's North Valley.


3. A chapter in the annual volume put out by the Archaeological Society of New Mexico, on agriculture at Pottery Mound.


5. At the end of 2005 I rotated off as vice-president and legislative chair of the New Mexico Archeological Council, and began work on reviving the Council's annual fall meetings.
ANNUAL REPORT
of the
DEPARTMENT of BIOLOGY

FY 2005–06
Annual Report
by:

Eric S. Loker, Chair
Department of Biology
The University of New Mexico
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I. Fifteenth Annual Research Day Program, April 2006 (in dept. copy only)
J. Departmental Graduation Program, May 2006 (in dept. copy only)
This is the third annual report prepared by Dr. Eric (Sam) Loker, who succeeded Dr. Kathryn Vogel as chairman in mid-July, 2003. Two Associate Chairs were appointed to assist Dr. Loker in administering the Biology Department, starting in the Fall, 2005 semester: Dr. Steve A. Stricker, whose major responsibilities are oversight of building-related matters and advising operations, and Dr. Richard M. Cripps, whose major responsibility is the scheduling and staffing of our classes. Provided below are several summaries that highlight the activities of the Department of Biology over the 2005–2006 academic year.

STUDENTS

Undergraduate Program

Overall Demand on Biology Courses: Our latest numbers suggest that the overall demand for Biology courses and programs has never been higher (see Tables 1–3). For the first time, the number of declared Biology majors has exceeded 1,300, reflecting an amazing ~10% increase from one year ago. To my knowledge, for the first time, we have generated more than 24,000 credit hours, nearly a 4% increase from the previous year. This reflects, in part, the number of career-options basic training Biology offers our students: dentistry, medicine, veterinary school, biotech industry, conservation biology, and graduate training in biology, to name a few. We continue to take measures to improve the educational product we offer UNM students, and we hope this partially explains the increased demand.

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

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<tbody>
<tr>
<td>Undergraduate:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A&amp;S</td>
<td>809</td>
<td>812</td>
<td>816</td>
<td>796</td>
<td>816</td>
<td>841</td>
<td>821</td>
<td>865</td>
</tr>
<tr>
<td>University College</td>
<td>214</td>
<td>211</td>
<td>254</td>
<td>223</td>
<td>262</td>
<td>262</td>
<td>423</td>
<td>346</td>
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<tr>
<td>Second Major</td>
<td>20</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>23</td>
<td>18</td>
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<tr>
<td>Graduate:</td>
<td>118</td>
<td>118</td>
<td>98</td>
<td>95</td>
<td>100</td>
<td>97</td>
<td>101</td>
<td>97</td>
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<tr>
<td>Total:</td>
<td>1,161</td>
<td>1,141</td>
<td>1,168</td>
<td>1,114</td>
<td>1,178</td>
<td>1,200</td>
<td>1,368</td>
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</table>
Implementation of the New Majors Core Curriculum: As shown in Tables 4A and 4B, the implementation of the new core curriculum (Biology 201, 202, 203 and 204) and the phasing out of the old core (Biology 121, 122, 219 and 221) was essentially completed by the end of the Spring, 2006 semester. Biology 203 was completely phased in during the Fall 2005 semester. Biology 204 was first offered during the Fall semester and was fully phased in during the Spring, 2006 semester.

Implementation of the new core was not without its problems. In the spirit of upgrading our introductory offerings, both the department and the college made substantial financial commitments to improve course-related equipment, such as microscopes. A plan to implement course fees in these and all other Biology courses will go into effect in Spring, 2007. Also greatly improving our ability to offer outstanding introductory courses will be the provision of new teaching lab facilities in the renovated basement of Castetter Hall, starting in Fall 2007. Particularly in Biol. 204, we continue to develop and test new laboratory exercises that emphasize experiential learning.

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

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<tr>
<td>121 &amp; 122</td>
<td>1,382</td>
<td>1,105</td>
<td>1,236</td>
<td>1,627</td>
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<td>—</td>
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<tr>
<td>219 &amp; 221</td>
<td>860</td>
<td>854</td>
<td>704</td>
<td>667</td>
<td>212</td>
<td>—</td>
</tr>
<tr>
<td>201</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>210</td>
<td>494</td>
<td>635</td>
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</table>
Table 4B: Number of Students Registered in Core Courses, Fall 2004–Spring 2006

<table>
<thead>
<tr>
<th>COURSE</th>
<th>FALL 2004</th>
<th>SPRING 2005</th>
<th>FALL 2005</th>
<th>SPRING 2006</th>
<th>TOTAL</th>
</tr>
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<tbody>
<tr>
<td>201</td>
<td>219</td>
<td>238</td>
<td>266</td>
<td>320</td>
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<tr>
<td>202</td>
<td>37</td>
<td>118</td>
<td>193</td>
<td>196</td>
<td>544</td>
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<td>203</td>
<td>—</td>
<td>25</td>
<td>73</td>
<td>96</td>
<td>194</td>
</tr>
<tr>
<td>204</td>
<td>—</td>
<td>—</td>
<td>29</td>
<td>91</td>
<td>120</td>
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</table>

Non-Majors Service Courses: The demand arising from our introductory non-majors courses has increased again dramatically (Table 4C), with Biology 110 recording nearly a 10% increase in enrollment and Biology 123 showing nearly a 30% increase in demand. We anticipate some leveling off in the demand for Biology 123 and the associated lab course 124L because Pharmacy has apparently decided to change their introductory biology requirements from 123–124L to Biology 201–202, part of our major’s core curriculum. Thus, an increase in demand for the latter courses can be expected.

Over the years, staffing these courses was a major problem, both in terms of keeping up with demand and in providing qualified, experienced instructors. Thanks to excellent cooperation from the College of Arts and Sciences, this problem, at least for the time being, has been dealt with over the years by the hiring of a stable, competent cadre of Biology Lecturers who provide excellent continuity in covering these courses. By virtue of being hired as Lecturers instead of as Part-time Instructors, these teachers have gained experience in these courses and profited from their experience. Also, because the Lecturers are not given overwhelming teaching loads (the standard load is two courses per semester), they do not burn out and can continue to improve. The importance to the Biology Department of our Lecturers in absorbing this demand in a professional and effective manner can not be overstated: without their dedication and competence, several important academic programs at UNM would be imperiled.

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

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<tbody>
<tr>
<td>110</td>
<td>341</td>
<td>522</td>
<td>489</td>
<td>527</td>
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<tr>
<td>123</td>
<td>137</td>
<td>174</td>
<td>269</td>
<td>555</td>
<td>791</td>
<td>1,028</td>
</tr>
</tbody>
</table>

Key Staffing and Facilities Changes for Undergraduate Education: To assist Cara-Lea Council-Garcia in coordinating all of our introductory labs, Ms. Andrina Ortiz, Lecture Demonstrator Coordinator, has been hired. Provision of this permanent-line position will do a great deal to ensure that our introductory lab courses remain on an upward trajectory. As described in more detail below, planning is actively underway for provision of new teaching labs in the renovated basement of the new wing of Castetter Hall.
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. This tradition continues. In 2005–06, 19 students took Biol. 400, Senior Honors Thesis and another 70 students took Biol. 499, Undergraduate Problems. Additionally, another 26 undergraduates worked in individual faculty members' research laboratories as unpaid volunteers. Seven high school students undertook research projects in our labs as well. Were our research labs bigger, even more students could be accommodated on such projects. Some professors, myself included, are becoming unwilling to take on any more undergraduate projects simply because there is no bench space left in the labs, and we receive complaints from resident graduate students and post-docs that the labs are way too crowded!

Biology's Annual Research Day continues to be a cornerstone of our program in undergraduate and graduate research. Our 15th Annual Research Day was held on April 7, 2006. Our keynote speaker was Dr. Deborah Nickerson, Professor of Genome Sciences, School of Medicine, University of Washington, Seattle, who spoke on the topic of "SNPing in the Human Genome: New Insights into Biology and Medicine." Research Day featured 11 oral presentations and what appears to be a record for posters—48.

Degrees: Another annual highlight is our Graduation Commencement Ceremony, held on May 13, 2006. Our commencement address was given by State Senator Dede Feldman. At the ceremony, 21 students received their Bachelor of Arts diploma, and 125 students received their Bachelor of Science diploma.

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

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<tr>
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<tr>
<td>B.S.</td>
<td>201</td>
<td>209</td>
<td>207</td>
<td>186</td>
<td>213</td>
<td>132</td>
</tr>
<tr>
<td>B.A.</td>
<td>23</td>
<td>27</td>
<td>29</td>
<td>26</td>
<td>37</td>
<td>21</td>
</tr>
<tr>
<td>M.S.</td>
<td>6</td>
<td>7</td>
<td>9</td>
<td>6</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>6</td>
<td>13</td>
<td>16</td>
<td>14</td>
<td>11</td>
<td>14</td>
</tr>
</tbody>
</table>

† A&S 2001–02 data: B.S. 128, B.A. 19

Graduate Program

Our graduate program continues to be strong and our graduate students perform at a remarkably high level (a summary of their accumulated accomplishments and honors can be found in Appendix H). There were 109 graduate students enrolled in our program as of the start of the Fall 2005 semester, up four from last year's figure of 105. During the last year (Summer '05, Fall '05 and Spring '06), we awarded 7 M.S. and 14 Ph.D. degrees (Table 5; Appendix C).

In 2005–06, we received 61 new applications for admission into our program (as compared to 78 the preceding year). Of the 61 applications received, admission was offered to 26, and of these, 18 accepted. Our acceptance rate of 69% (18 of 26) remains very strong, higher than most years.
The number of graduate students entering our program was 21 in Fall 2001, 24 in Fall 2002, 18 in Fall 2003, 28 in Fall 2004, and 18 in Fall 2005. Thus, there is no real declining trend in the number of graduate students in our program, though we need to remain mindful of the declining number of applications. Although we continue to attract blue-chip students and to compete successfully with prestigious universities in recruiting such students, we need to increase our recruitment efforts. To do so, we have revised our application process to make on-line application easier, and we are in the process of preparing a graduate brochure to send to our colleagues around the country, which is a targeted effort found through the experience of other graduate-oriented programs to increase the number of applications.

We continue to be mindful of the stipends we award students ($14,634.87 for master’s students, $15,866.77 for Ph.D. students). For the time being, especially when considering the cost of living in Albuquerque and the health and other benefits UNM provides, these stipends are considered by our students to be competitive.

The change of leadership at the Office of Graduate Studies during 2005–06 has been a very positive and needed change. We are hopeful this change will result in more efficient processing of our applications and more efficient delivery of payments of our graduate students.

FACULTY

Composition: At the start of the Fall 2005 semester, we had seven Lecturers and 35 tenure-track faculty members on campus, with Dr. Larry L. Barton on sabbatical leave. At the start of the Spring semester, Dr. Marcy Litvak, arriving from The University of Texas–Austin with interests in ecosystem physiology and ecology, joined the tenure-track Biology faculty as an assistant professor. Thus, at the start of the Spring 2006 semester, we had 36 tenure-track faculty on campus, with Dr. Randy Thornhill on sabbatical. We had two retirements during the year, Dr. James R. Gosz, before the school year began, and Dr. Kate G. Vogel, at the end of the Spring 2006 semester. Currently, Dr. Terry L. Yates, a Biology faculty member, serves full-time as UNM’s Vice Provost for Research and Economic Development. Another retired faculty member, Dr. Donald W. Duszynski, continues to serve in a 0.25 FTE capacity as the Director of the Museum of Southwestern Biology.

During the 2005–06 academic year, the department made the decision to hire two assistant professors, both of whom will also serve as curators in the Museum of Southwestern Biology. Both Dr. Chris Witt, an avian biologist, and Dr. Kelly Miller, an arthropod biologist, will begin in January, 2007. During the course of the Spring semester, the department also made the decision to hire Dr. Felisa Smith at the associate professor level; officially, she will begin her appointment in Fall 2006. Dr. Luis E. Cadavid resigned his assistant professorship, effective at the end of the Spring semester, and Dr. Andreas Wagner decided to take a leave of absence for the 2006–07 academic year; he will be at the University of Zurich in Switzerland. All of these considerations make it difficult to provide a simple tally, but by the start of the Fall 2006 semester, our tenure-track FTE was 35. This figure does not include Drs. Duszynski, Vogel, Cadavid, Witt or Miller, but does include Drs. Smith and Wagner. By the start of the Spring 2007 semester, with the addition of Drs. Witt and Miller, the tenure-track faculty is expected to number 37.
During the Fall semester, tenure and promotion packages were created for Drs. Blair O. Wolf and William T. Pockman; subsequently, both were promoted to associate professor and awarded tenure. Additionally, promotion packages were assembled for Drs. Mary Anne Nelson and Timothy K. Lowrey, both of whom successfully passed this review and were promoted to the rank of Professor. Finally, a mid-probationary review was undertaken for Dr. Cristina D. Takacs-Vesbach, who also was successful in passing this review.

Sabbatical requests were submitted for the Fall 2006 semester by Drs. Blair O. Wolf and William T. Pockman.


Twenty-eight of our tenure-track faculty members (76%) reported publications in 2005. Between the years 2003 and 2005, of 26 articles originating from the State of New Mexico that were published in the two preeminent scientific journals of our time, Science and Nature, 12 (46%) of them originated from UNM's Biology Department, far more than any other unit in the state, including LANL and the School of Medicine.

Dr. James H. Brown was among 72 new members elected to the National Academy of Sciences (NAS) in May 2005; election to this Academy is one of the highest honors that can be accorded a U.S. scientist or engineer. Jim also was appointed an Honoraria member of the American Society of Mammalogists in July 2006. Jim's work has been featured in several prominent venues, including in the books In the Beat of a Heart, by John Whitfield and The Ancestor's Tale: A Pilgrimage to the Dawn of Evolution by Richard Dawkins.

Dr. Margaret Werner-Washburne was elected by her peers to the rank of AAAS Fellow in November 2005. The American Association for the Advancement of Science is the world's largest general scientific society. Maggie also was presented the Distinguished Scientist Award at the national meeting of the Society for the Advancement of Chicanos/Latinos and Native Americans in the Sciences (SACNAS). This award is given each year at the national meeting to recognize members who have dedicated themselves to science, education, and mentoring. Additionally, Maggie was given the honor of delivering the E.E. Just Lecture at the American Society of Cell Biology's 45th Annual Meeting in San Francisco in December 2005.

Dr. Donald W. Duszynski was selected as the 2006 Distinguished Alumnus of the Department of Biology, Colorado State University.

Dr. Terry L. Yates became a member of the Board on Life Sciences, National Research Council, National Academy of Sciences.
Dr. Bruce T. Milne was honored in March 2006 by the U.S. Regional Association of the International Association of Landscape Ecology with the Distinguished Landscape Ecologist Award at their annual meeting in San Diego, CA.

Dr. Ulfar Bergthorsson was awarded The Stebbins Medal by the International Association for Plant Taxonomy for an outstanding publication in phylogenetic plant systematics and/or plant evolution in the previous year (Bergthorsson, Richardson, Young, Goertzen and Palmer. 2004. Massive horizontal transfer of mitochondrial genes from diverse land plant donors to the basal angiosperm Amborellina. Proceeding of the National Academy of Sciences USA 101:17747-52).

Dr. Eric L. Charnov is one of the most cited of all behavioral ecologists, as noted by G.A. Parker, FRS, who conducted a study and professional opinion survey (published in December 2005) of what publications/persons have most influenced behavioral ecology over the last 40 years. Depending upon the ranking method used (i.e., most influential person, individual papers, or cumulative votes for all influential papers), Ric ranked fifth to eighth.

Dr. William T. Pockman was honored with the UNM's A&S 2005-06 Gunter Starkey Award for Teaching Excellence from the College of Arts and Sciences in December.

Dr. Robert D. Miller received UNM’s A&S 2004–05 Gunter Starkey Teaching Award for Teaching Excellence. Dr. Miller also has served as a Regents’ lecturer from 2003–06.

Dr. J. Scott Altenbach was honored by the New Mexico Chapter of the Wildlife Society as the “Wildlife Professional of 2005” for his conservation work done over the last 15 years with the Bats and Abandoned Mines Program.

Dr. Eric S. Loker was selected as a participant at the World Health Organization's Expert's Working Group on Schistosomiasis in November 2005. Dr. Loker has served as a Regents' professor from 2003–06.

Sponsored Research: In fiscal year 2005-06, 102 new research grants were obtained by the Biology Department, with a total value of $14,296,847. Thus, 2005-06 was an exceptionally good year for grants for us, up almost $2M from last year. The total grant portfolio held by the Biology Department exceeds $55 million.

Some of the exciting new awards funded are a $1M grant awarded to Dr. James H. Brown entitled “Program in Interdisciplinary Biological and Biomedical Science” (PIBBS), funded by the Howard Hughes Medical Institute. Thanks to the stewardship of Dr. Scott L. Collins, the “Sevilleta LTER: Long Term Ecological Research in a Biome Transition Project” had its funding renewed for another five years by the National Science Foundation (NSF). Dr. Collins also was funded by the NSF for a GK–12 program entitled “EMERGE: Ecohydrology in the Middle Rio Grande Environment.”

Dr. Richard M. Cripps was the recipient of a major grant award this past year: “Genetic Regulation of Cell Fate in the Drosophila Heart—HL080545”; NIH/NHLBI; $1,325,000 (includes IDC), April 1, 2005–March 31, 2010, −$265,000/year (includes IDC).

Dr. Clifford N. Dahm was appointed the project leader for the “New Mexico Nanotechnology, Education, and Water” (NM NEW) for the hydrology component: New Mexico EPSCoR proposal to the NSF; $6,750,000, May 1, 2005–April 30, 2008. Cliff directs the ET measurement portion at
UNM, which receives $464,677 from NSF and $408,795 of cost-share from the State of New Mexico and UNM. He also serves as one of the three overall directors of the “Water” portion of this statewide project.

Dr. Diane L. Marshall was the principal investigator for a project entitled “Improved Mentoring, Professional-development, and Recruitment of Secondary Science and Math Instructors in New Mexico,” awarded by the National Science Foundation ($500,000, January 1, 2005–December 31, 2008).

Dr. Eric S. Loker’s project entitled “The Biology of Trematode–Snail Associations” was funded again by the NIH, for years 19–24 of continuous funding.

Dr. William Michener’s NSF SEEK grant entitled “Enabling the Knowledge Web for Biodiversity and Ecological Informatics” continues in force from previous years. Also continuing is an NSF grant funding the “Network Office of the U.S. Long Term Ecological Research Network,” directed by Dr. Robert B. Waide.

Last, but not least, two important NIH-funded programs funding the needs of our minority students—the UNM Initiative for Minority Student Development (IMSD) (directed by Dr. Margaret Werner-Washburne) and the Undergraduate Biomedical Research Training Grant at UNM, namely the MARC program (formerly directed by Dr. Kathryn G. Vogel and presently directed by Dr. Mary Anne Nelson)—were funded again during the past year.

The Biology Department is fortunate to have so many successful research and training programs in our midst. This is a tribute to the hard work and creative efforts of our faculty, with essential support roles being played by the Biology staff and with good support from the College of Arts and Sciences and the Office of the Vice President for Research and Economic Development.

Launching a New Sustainability Program: The UNM Sustainability Studies Program (SSP) was launched in 2006 with leadership provided by Biology professor Dr. Bruce T. Milne and with the generous support of the NM Legislature, where Rep. Mimi Stewart sponsored two bills. The support enabled the SSP to hire Dr. Fiona Sinclair as a post-doctoral associate director, Barbara Widhalm as the Program Coordinator, and Nate Campbell as a student employee. Articles about the program appeared in the local papers and a feature about the Dr. Milne appeared in New Mexico Business Weekly. The program has been offering a set of pilot courses as Biol. 402–502. Dr. Sinclair also teaches AM ST 182, Introduction to Environment, Science and Technology, which drew more than 40 students into the SSP. Bruce and Barbara attended a course workshop, presented by the registrar, to prepare Forms B and C that will establish new core courses and electives for an undergraduate minor degree in Sustainability Studies. In the spring, Dean Vera Norwood helped the SSP conduct a faculty retreat led by Dr. Peggy Barlett of Emory University. At the retreat, the 20 invited faculty from six colleges agreed upon the program’s curricular priorities and recognized the potential for sustainability activities on campus. In separate activity, Dr. Milne served on the board of the New Mexico’s chapter of the U.S. Green Building Council, and serves on the Governor’s Climate Change Advisory Group, which has proposed a set of actions to reduce greenhouse gas emissions in the state. Bruce recently received approval for a symposium to be held in April 2007 at the International Association for Landscape Ecology; the symposium’s field-research agenda will anticipate needs for sustainable practices in landscapes across the U.S.
In January 2005, Dr. Donald W. Duszynski was appointed the new MSB Director, but he did not officially assume duties until July 1. In addition to hiring two new curators (discussed above), other important activities for 2005-06 (detailed in a separate report filed by MSB) include the provision of proper storage facilities for flammable liquids, which was inadvertently deleted from the original CERIA building plans, and the implementation of several other building improvements. Funds were secured to hire the first Group Administrator for the MSB, Ms. Catherine Osborn. For the record, initially, the salary for this position is to be shared 50%-50% between the MSB (by using one of the seven GA positions usually assigned to it) and the College of A&S.

With involvement of the Biology Department, the MSB separated its seven division budgets from the Biology M&S allotment and received separate sub-account accounting codes for each. This change will allow each division to track carefully and in a timely manner its individual budget so that the MSB can become more fiscally responsible by not overspending, as in past years.

STAFF MATTERS

Currently, the staff in the Biology Department is comprised of 93 members, of which 28 are paid in part or full by I&G funds (see the list below and in Appendix E). On a regular basis, the staff performs minor miracles to keep the department functioning as efficiently as possible. One of the most significant staff events of the past year was the retirement of Ms. Vivian Kent, Biology Graduate Program Coordinator for the past 15 years. Vivian has been replaced by Ms. Cindy Mortensen, still ably assisted by Carol-Ann Griffin. Our accounting staff in particular has undergone some changes, with the departure of Tommy Sue Nielsen (Admin. Asst. II) and the hiring of James Sandoval (Acct. II), Annie Ozaksut (Accounting Tech.) and Jasmin Arzarte (Admin. Asst. II). To assist in the maintenance of our laboratory animals, UNM has hired Dr. Kevin O’Hair as the main campus veterinarian to replace Dr. Dan Theele.

The following is a list of other categories of individuals using the facilities of the Biology Department in 2005-06:

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
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<tbody>
<tr>
<td>Staff</td>
<td>93</td>
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<td>Post-Docs</td>
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<td>Research Faculty</td>
<td>24</td>
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<tr>
<td>Visiting Faculty</td>
<td>3</td>
</tr>
<tr>
<td>Visiting middle school or high school teachers</td>
<td>5</td>
</tr>
<tr>
<td>Staff Separations</td>
<td>24</td>
</tr>
<tr>
<td>Visiting Scientific Staff</td>
<td>6</td>
</tr>
<tr>
<td>Faculty Separations</td>
<td>10</td>
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</tbody>
</table>
BUILDING PROJECTS

The issue of providing better space for the many activities of the Biology Department remains a central concern that has occupied much of the time of the departmental administration. For example, as noted above, not only are our research facilities antiquated, but they are overcrowded, making it difficult, if not impossible, to further expand our programs. We are at capacity. This limits everything we do, including accepting more students, undergraduate and graduate alike, into our research labs to undertake projects.

Happily, thanks to the hard efforts of the Biology faculty and a constructive partnership with Interim A&S Dean Vera Norwood, Provost Reed Dassenbrock and UNM's higher administration, some significant and tangible progress can be reported. This follows up on last year's successes in moving the Museum of Southwestern Biology and other important Biology programs (LTER and LTER Network Office) to the CERIA building, the creation of new microbiology teaching labs in the basement of Castetter Hall, and the renovation of part of the second floor of Castetter for the activities of the NIH-funded CETI program.

During the spring and summer of 2005, Biology played an instrumental role in working to gain approval for the ~$135M student-funded capital bond issue. Happily, this has now been approved, and will help Biology in three important ways:

1. Included in the bond issue are funds totaling $7M for the renovation of much of the basement of the new wing of Castetter Hall as a teaching complex (see overview of near-final plan in Appendix G). This new complex will include three new teaching labs for our introductory majors courses, two new upper-level teaching laboratories, three new lecture rooms, an advising complex, and a student commons area that is to encompass much of the Biology courtyard. To assist in the relocation of researchers displaced from the basement, included as part of the basement renovation project is a plan to renovate rooms 137 and 139 as a research complex for three faculty members. Asbestos abatement in the renovation area has now been completed, the project is at the 100% design phase, and it is expected to go to bid before the end of October. Construction should begin in November/December, with an August 2007 proposed completion date.

2. Also included in the student-funded bond issue is a sum of $5.6M to construct the Phase I portion of the expansion of Castetter Hall, which will support research activities associated with the general area of genomics biology. This facility will be situated in the space between Castetter Hall and Marron Hall. Currently, Phase I is envisioned as 15,000 SF distributed over two floors that will mostly house NIH-funded investigators working one way or another with genomic projects. It is anticipated that active design of Phase I will commence in October. Additionally, funds for Phase II of the Castetter expansion, totaling $5.8M, have been placed on UNM's list for main campus capital projects for the 2006-07 state legislative session, second only to funds for the Native American Center. Phase II funds are needed to complete the build-out of labs in Phase I, to fund the construction of a greenhouse on the roof of the Phase I portion of the building, to demolish the existing greenhouse, and then to construct in that area an additional 10,000 SF on two floors to accommodate the Sustainability Program of Dr. Bruce Milne and the HHMI-funded PIBBS program of Dr. Jim
Brown, among other possibilities. During the past legislative session, a request of $4M was placed on UNM’s main campus capital projects requests, but this project failed to be recommended to the governor by the Department of Higher Education. We are hoping for a better outcome this year! We also are hoping to pursue federal sources of support, most notably from the NIH’s National Center for Research Resources Facilities Improvement Program to further embellish our addition plans.

3. The final segment of the student-funded bond issue involving the Biology Department is a $16M Math/Science Learning Center. This building, location as yet undecided, will include at least three new teaching laboratories to support the heavy enrollments we experience in our non-majors Biology courses. This building also is intended to encourage multidisciplinary interactions with other departments such as Mathematics. The sum of $16M has been augmented by $8M obtained from a successful request to the 2005–06 legislative session, bringing to $24M the total funds for this project. Construction for this project likely will begin in 2007.

In preparation for the impending basement renovation, during the past year all occupants of the new wing basement were relocated, with most of the moves occurring in Fall 2005. This was a fairly massive undertaking involving 46 people, five research labs, and three animal rooms. John Cox, the Biology building manager, deserves an enormous amount of credit for getting all of these moves made. Just some of the major changes associated with this reallocation of space were changing the use of room 19 from a lecture room to become part of an animal facility, and changing the use of room 139 from a lecture room to become part of an eventual research lab complex that will include room 137. Room 163B has been pressed into temporary service as a lab room. We note here that all of these space changes have put an enormous amount of extra pressure on the Biology Department, and, again, largely thanks to the efforts of John Cox, the response of the department has been very constructive and positive.

Another important building with respect to Biology’s future is the Sevilleta Research and Education Center at the Sevilleta National Wildlife Refuge. After a formal dedication at the SNWR attended by Senator Pete Domenici on 6 July, construction of the facility has commenced. This facility will serve research and teaching functions for diverse UNM units including Biology, Earth and Planetary Sciences, Computer Science, and the Health Sciences Center. The completed facility will comprise approximately 20,000 square feet and will contain four state-of-the-art research laboratories for work in animal and plant physiology, molecular biology, infectious diseases, distributed environmental sensors and soil chemistry. The facility also will have teaching laboratories, a kitchen, a large conference room (with a capacity for 80–100 people), and space for plant and animal voucher collections, in addition to support rooms and equipment (growth chambers, autoclaves, high-purity water, etc.). The facility will provide support for, and permit expansion of, numerous existing UNM research projects, including the Long-term Ecological Research (LTER) Program, Hanta Virus research, atmospheric studies, and studies of plant and animal diversity. It also will provide a foundation for new research initiatives, and it will permit the development of new educational programs in biology and earth science. Construction is being funded largely by $6,545,413 in awards to UNM from the U.S. Fish and Wildlife Service and is occurring in two phases. Phase I, which includes the research wing of the building, is near completion; Phase II, which includes the teaching and conference wing, is scheduled to begin this fall (2006).
Equipment and Infrastructure Upgrades: Another important step to improve our infrastructure was taken this past year—the submission of a $700K proposal to NIH’s National Center for Research Resources to upgrade the animal care facilities currently located in the basement of the old wing of Castetter Hall. If funded, this proposal would be the first of three phases to completely renovate this facility. Room 1 (the old MSB Herbarium) was fitted with new lighting, airlines, and additional electrical capacity in the ongoing conversion of this space into an “aquatics facility,” part of the animal care facility devoted to maintenance of aquatic animals. Also, to improve security in our animal facility, security doors were placed at both the east and west ends of the animal facility corridor in the basement of the old wing of Castetter.

SUMMARY COMMENTS FROM 2005–2006

2005–2006 was a year of transitions for the Biology Department, but one in which, by all measures, the department continued to thrive and grow: our enrollments and the number of biology majors are at all-time highs; progress is being made in solving decades-old space problems by provision of refurbished or net new space; our grant funding has never been better; and the visibility and productivity of a number of our faculty is increasingly recognized on both national and international stages.

There has been considerable turnover in the faculty: stalwarts like Kate Vogel and Jim Gosz have retired, and others have resigned or are on leave. It is exciting that several new faculty have come on board: Ulfar Bergthorsson and Charlie Cunningham have joined the faculty with assistance provided by the CETI program; Marcy Litvak and Felisa Smith have joined the faculty, increasing the representation of women among the tenure-track faculty. Additionally, the department made a deliberate decision to provide a full complement of museum curators by hiring Drs. Kelly Miller and Chris Witt. All in all, the size of the tenure-track faculty has remained stable, hovering around 37. Retirements will continue to erode the number of tenure-track faculty, but this creates an opportunity for bringing in new scholars with new points of view. There is, however, an inevitable hiring delay of a year or usually longer, when we are without the benefit of a replacement. Not surprisingly, in the past year, other universities have attempted to recruit our faculty. Because this activity is expected to continue, it is important for UNM to do all it can to remain competitive, particularly in the arena of faculty salaries. A concern exists, particularly in a period of declining federal funding, that pre-tenure faculty in particular will be enticed away from UNM by job offers that include new start-up funding packages. We must remain competitive, fight off offers like this when they occur, while at the same time ensure that we are not jeopardizing our high standards for tenure and promotion.

Although it could be argued that the size of the Biology faculty has changed little over the years, with the number always around 37, there is one important additional factor to consider, which is that the number of our lecturers has increased, with seven full-time lecturers in place during most of the 2005–06 school year. As noted above, this group of lecturers deserve an enormous amount of credit in a number of contexts. First of all, they are in the front line of meeting an all-time record demand on our programs. Without permanent lecturers in place, the prospects of staffing what at times seems like an insatiable demand for our introductory courses would be unbearable. The stability offered by these lines also has the much desired effect of increasing the quality of our introductory courses. Furthermore, the lecturers provide an important buffer to the tenure-track faculty, enabling the latter group to concentrate, for the most part, on the teaching of upper-division courses, graduate education, and the
development of strong research programs. In the opinion of this chair, this is the way a modern biology department in a Research Level I university should operate. Happily, the overall level of success of the tenure-track and research biology faculty in securing grant funds to support our many research programs has, on a dollar basis, never been higher, even though we are in the midst of what is likely to be a long, slow overall downturn in federal funding at the national level, imperiling continued growth in grant funding. Part of the means to counter this trend is to do what we can to improve our outreach to private donors, and over the past year, we have made a concerted effort to do so, both in the form of an improved newsletter (found on our departmental web site: http://biology.unm.edu/2005newsletter.pdf) and by hosting a fund-raising event in the form of our annual Christmas Party.

To sustain the momentum of the Biology Department, new facilities are urgently needed and it is encouraging that very tangible steps are being taken by Biology, with the cooperation and involvement of the College of Arts and Sciences and UNM's higher administration, to obtain better facilities. As detailed above, we are well on the way towards undertaking a $7M overhaul of the basement of Castetter hall to provide new spaces for teaching and advisement. The initial $5.6M step has already been taken to fund Phase I of the Castetter addition, and funds are actively being sought for Phase II of this project. Finally, a total of $24M is in hand, or soon will be, to provide a Science Math Learning Center on the main campus to house non-majors introductory biology courses. Remaining space concerns are to find a permanent home for the very popular Anatomy and Physiology courses taught by Jim Swan, currently in the Pharmacy School on North Campus. Also of a long-range concern for Biology is the impact of UNM West. It is unclear to what extent Biology will be asked to duplicate its courses and programs on the new Rio Rancho campus, and ultimately what effect this will have on the Main Campus and its request for building funds and, most particularly, on our research enterprise. We are very concerned that without careful planning, UNM could end up as two community colleges instead of one, highly-focused and committed Research Level I university of which the state can be justifiably proud.

Eric S. Loker
Regents' Professor and Chairman
October 17, 2006
APPENDICES

FY 2005–06

ANNUAL REPORT

DEPARTMENT OF BIOLOGY
APPENDIX A

FACULTY LIST
UNM BIOLOGY FACULTY, 2005–06

LECTURERS
Couch, Lee
Council-Garcia, Cara Lea
Frankis, Robert
Fridrick, Christina
Hofkin, Bruce
Howe, Kelly
Swan, James

TENURE-TRACK FACULTY
Altenbach, J. Scott
Barton, Larry L.
Bergthorsson, Ulfar
Brown, James H.
Cadavid, Luis F.
Charnov, Eric L.
Collins, Scott L.
Cook, Joseph A.
Cripps, Richard M.
Cunningham, Charles
Dahm, Clifford N.
Duszynski, Donald W.
Hanson, David T.
Kodric-Brown, Astrid
Loker, Eric S.
Lowrey, Timothy K.
Marshall, Diane L.
Miller, Robert D.
Milne, Bruce T.
Narvig, Donald O.
Nelson, Mary Anne
Pockman, William T.
Poe, Steve
Sinsabaugh, Robert L.
Snell, Howard L.
Stricker, Stephen A.
Thornhill, Randy
Toolson, Eric C.
Turner, Thomas F.
Takacs-Vesbach, Cristina D.
Vogel, Kathryn G.
Wagner, Andreas
Werner-Washburne, M.
Waide, Robert
Wolf, Blair O.
Yates, Terry L.
### Departmental Committees – 2005/2006

**Chairman**  
Eric (Sam) Loker

**Associate Chairs**  
Rich Cripps  
Steve Stricker

**Director, Museum of SW Biology**  
Don Duszynski

**Arthropod**  
*Biologist/Curator*  
Search  
Tom Turner, Chair  
Astrid Kodric-Brown  
Rich Cripps  
Tim Lowrey  
Steve Stricker  
Mike Medrano, BGSA

**Avian**  
*Biologist/Curator*  
Search  
Joe Cook, Chair  
Tina Vesbach  
Steve Poe  
Howard Snell  
Blair Wolf  
Jason Thomas, BGSA

**Lecturer II/III Search Committee**  
Bob Frankis, Chair  
Kelly Howe  
Rich Cripps  
Lee Couch  
Mary Harner, BGSA

### Graduate Student Selection

- Mary Anne Nelson, Chair  
- Charlie Cunningham  
- Dave Hanson  
- Bruce Milne  
- Vivian Kent  
- TBA, BGSA

### Honors Program

- Maria Ruby

### Promotion and Tenure

- Kate Vogel, Chair  
- Don Natvig  
- Diane Marshall  
- Bob Sinsabaugh

### Undergraduate Policy Committee

- Will Pockman, Chair  
- Kelly Howe  
- Maria Ruby  
- Scott Altenbach  
- Jim Swan  
- Angela English, BGSA

### Undergraduate Curriculum Implementation

- Diane Marshall, Chair  
- Blair Wolf  
- Cara Lea Council-Garcia

### Graduate Policy

- Andreas Wagner, Chair  
- Scott Collins  
- Ric Charnov  
- Astrid Kodric-Brown  
- Tom Kennedy, BGSA

### Space/Buildings

- Steve Stricker, Chair  
- John Cox  
- Cara Lea Council-Garcia  
- George Rosenberg  
- Roy Ricci  
- Vivian Kent  
- Zuly Parra, BGSA

### Marron Space

- Steve Stricker, Chair  
- John Cox  
- Marcy Gallo, BGSA

### Seminars

- David Hanson (Fall)  
- Luis Cadavid (Spring)

### Graduate Advisors

- Ric Charnov  
- Randy Thornhill

### Computers

- Eric Toolson, Co-Chr  
- Nancy Davis, Co-Chr  
- Anne Rice  
- George Rosenberg  
- Alison Boyer, BGSA

### Website Redesign

- Anne Rice, Co-Chr  
- Steve Stricker, Co-Chr  
- Eric Toolson  
- Nancy Davis  
- Alison Boyer, BGSA

### Greenhouses

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

9/21/05
Research Day
Lee Couch, Co-Chr
Marcy Litvak, Co-Chr
Sara Brant
Michelle Baker
Kelly Howe
Daisy Rosero
Mike Bobb, BGSA
Jason Thomas, BGSA

Graduation
Christina Fridrick, Co-Chr
Bruce Hofkin, Co-Chr
Steve Poe
Bob Frankis
Jim Swan

Biology Graduate
Student Association
Melanie Barnes, Dolly
Crawford, Co-Pres
Rob Miller, Faculty sponsor

Museum SW Biology
Exec Committee
Don Duszyński, Chair
Curators, and Manuel
Mollies, Mike Bogen, Terry Yates, Rich
Cripps or Steve
Stricker

Scholarships
Larry Barton, Chair
Kate Vogel
Leah Larkin
Diana Northup

Undergraduate
Academic Advising
Maria Ruby, Advising Coordinator
Diane Marshall

Eric Toolson
Cara-Lea Council-Garcia
Bob Sinsabaugh
Pre-Vet Advising
Bruce Hofkin

Department Publicity
Tim Lowrey, Leah Larkin

Field Programs and Vehicles
Scott Collins
Joe Cook

Mol. Biology Facility
Richard Cripps

Microscopy Facility
Steve Stricker

Library Liaison
Diana Northup

LTER Director
Scott Collins

LTER Network Office Director
Bob Waide

Sevilleta Field Station Director
Don Natvig

IMSD Director
Maggie Werner-Washburne

IGERT Director
Cliff Dahm

CETI Director
Eric (Sam) Loker

BGSA Computer Pod
TBA, BGSA

Animal Care and Use
Blair Wolf
Bill Gannon

New Grad Student Orientation
Ulfar B.
Steven Poe

Glass Case Displays
Christina Fridrick

Biological Society of New Mexico/UNM Foundation
Don Duszyński, Chair
Bob Dickerman
Terry Yates

Salary Committee
Bruce Milne
Jim Brown
Mary Anne Nelson

Univ. & College Committees

AGEP Representative
Luis Cadavid

A&S Senior Promotion
TBD by A&S

A&S Tenure and Promotion
TBD by A&S

9/21/05
A&S Undergrad Representative
Scott Altenbach

Center for Research in Ecological Science and Technology
Bob Waide

Consortium for the Americas
Andreas Wagner (Fall)
Bob Waide (Spring)

Faculty Senate
Howard Snell

RAC Committee
Bob Waide

UNM Biosafety Committee
Coen Adema

UNM Radiation Control Committee
Ulfar Bergthorsson

University Scholarship and Awards Committee
Howard Snell

UNM Sustainability Program, Director
Bruce Milne

A&S Committee to Hire Environmental Biologist
Jim Brown
Cliff Dahm
Maggie Werner-Washburne

Habitat Restoration Subcommittee
Larry Barton

9/21/05
2005–06 DEPARTMENT OF BIOLOGY GRADUATE DEGREES AWARDED BY SEMESTER

FALL 2005

M.S.
Dunsdon, Nirvana C.B., M.S. II (E.S. Loker)

Koontz, Terri, “The Effects of Herbivores on Seed Banks in a Grassland and Shrubland” (D.L. Marshall)

Smythe, Toni Lynn, M.S. II (S.A. Stricker)

Trafton, Alea N., “Water Relations of Native and Non-native Tree Species along the Middle Rio Grande, NM” (W.T. Pockman)

SPRING 2006

M.S.
Sturova, Martina, “Microbial Responses to Long-term Deposition in a Semi-Arid Grassland” (R.L. Sinsabaugh)

Ph.D.
Racz, Gabor R., “The Effect of Forest Fragmentation on the Distribution of Zoonotic Diseases with Special Reference to the Hantavirus.” (T.L. Yates)

Tech, Cynthia Lee, “Evolution of Reproductive Isolation Between the Pupfishes, Cyprinodon elegans and C. variegatus.” (A. Kodric-Brown)

SUMMER 2006

M.S.
Bobb, Michael David, “Spatial Patterns of Bacterial Diversity in Cold Desert Riparian Zones.” (C.D. Takacs-Vesbach)

Peters, Maureen Bea, “Genetic Variation of MHC Class II Genes in the Endangered Gila Trout, Oncorhynchus gilae gilae.” (T.F. Turner)

Ph.D.
Baker, Phillip Wayne, “Transcriptional Regulation of Adult Myogenesis in Drosophila melanogaster.” (R.M. Cripps)

Bragg, Jason Grant, “The Ecological Consequences of Genomic and Proteomic Elemental Composition.” (J.H. Brown)
Bustamante, Joslyn Melanie, “Thermophilic Fungi of the Sevilleta National Wildlife Refuge.” (D.O. Natvig)


Follstad Shah, Jennifer Jo, “Effects of Flood Regime and Plant Competition on Soil Nitrogen Resources along the Middle Rio Grande: Implications for Restoration.” (C.N. Dahm)

Goheen, Jacob Robert, “From Local Processes to Emergent Patterns in Ecological Communities: Insights from Two Continents.” (J.H. Brown)

Harner, Mary Jeane, “Belowground Dynamics in Rio Grande Cottonwood Forests.” (M.C. Molles, Jr.)

McDonnell, Dianne Elaine, “Scaling Evapotranspiration in Canopies along the Middle Rio Grande Corridor in Central New Mexico.” (C.N. Dahm)


Schwanz, Lisa Ellen, “Reproductive Investment When Conditions Vary.” (A. Kodric-Brown)

Thibault, Katherine Mary, “Temporal Dynamics of the Structure and Composition of a Desert Rodent Community.” (J.H. Brown)

Valdez, Ernest Wayne, “Geographic Variation in Morphology, Diet, and Ectoparasites of Myotis occultus.” (J.S. Altenbach)
APPENDIX D

GRADUATE STUDENTS
& FACULTY ADVISORS
<table>
<thead>
<tr>
<th>STUDENT</th>
<th>ADVISOR</th>
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<td>Abrahamson, N.</td>
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APPENDIX E

STAFF LISTS
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
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<tbody>
<tr>
<td>Atencio</td>
<td>Lupe Group Administrator</td>
</tr>
<tr>
<td>Avritt</td>
<td>Joy Research Tech/Life Sciences</td>
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<tr>
<td>Baca Denton</td>
<td>Michele Sr. Research Tech/Life Sciences</td>
</tr>
<tr>
<td>Brandenburg</td>
<td>William Sr. Research Tech/Life Sciences</td>
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<tr>
<td>Brantley</td>
<td>Sandra Sr Museum Collection Manager</td>
</tr>
<tr>
<td>Briscoe</td>
<td>Andrea Fiscal Service Tech</td>
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<tr>
<td>Browder</td>
<td>Amanda Kennedy Sr. Research Tech/Life Sciences</td>
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<tr>
<td>Brown</td>
<td>Renee Systems Analyst 2</td>
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<tr>
<td>Chauvin</td>
<td>Yvonne Sr. Research Tech/Life Sciences</td>
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<tr>
<td>Costa</td>
<td>Duane Analyst/Programmer 2</td>
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<tr>
<td>Craig</td>
<td>John B. Manager, Facilities Services</td>
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<tr>
<td>Craig</td>
<td>John, Jr. Analyst/Programmer 1</td>
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<tr>
<td>Davis</td>
<td>Nancy L. System Administrator</td>
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<td>Dewitt</td>
<td>John Facilities Services Manager</td>
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<td>Downey</td>
<td>Laura Sr. Research Engineer 3</td>
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<td>Dunnun</td>
<td>Jonathan Sr. Collection Manager/Natural Sci Mus</td>
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<td>Elliott</td>
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<td>Elwell</td>
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<td>Friggens</td>
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<td>Garcia</td>
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UNM DEPT. OF BIOLOGY STAFF SEPARATIONS—FY 2005-06

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<tr>
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UNM DEPT. OF BIOLOGY HIRED STAFF—FY 2005-06

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UNM DEPT. OF BIOLOGY HIRED FACULTY—FY 2005-06

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UNM DEPT. OF BIOLOGY FACULTY SEPARATIONS—FY 2005-06

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The Molecular Biology Facility (MBF) at the UNM Department of Biology provides three principal areas of support. First, it is a common equipment facility for faculty and students who routinely use the tools of molecular biology in their research. Second, it is a support facility for faculty and students who do not have laboratory space of their own suitable for conducting research that utilizes molecular biology techniques. Third, the MBF provides support for several classes with teaching equipment, student training, and outreach to non-UNM organizations. All three roles are equally important and interdependent. Faculty and students from other A&S Departments, including Anthropology, Earth & Planetary Sciences, and Chemistry, and from the Schools of Medicine and Engineering, also utilize the MBF for both research and training. Based on the data contained in this report, the MBF is arguably among the most heavily utilized support units within the Biology Department.

The MBF's role in education and training in the Department and the community continued this fiscal year. Four courses taught within Biology (Bioi. 425, 444, 446, 478) used the facility. The most critical role in training which the MBF plays, however, remains direct, hands-on research experience for graduate students and undergraduates working on independent projects with faculty mentors.

**Highlights for the 2005-2006 fiscal year include:**

1. Based on data from the Office of Research Services, there were 46 grants active this fiscal year that utilized or depended upon the MBF. These grants amounted to more than $18,000,000 in total awards.

2. Based on a search of the SciSearch database maintained at the Los Alamos National Laboratory, there were 32 MBF-related peer-reviewed manuscripts published or “in press” in fiscal year 2005-2006.
USERS:

Faculty (28): Barton, Bergthorsson, Brown, Buikstra (Anthropology), Cadavid, Cook, Cripps, Cunningham, Hanson, Hunley (Anthropology), Kodric-Brown, Loker, Lowrey, Marshall, Miller, Natvig, Nelson, Pockman, Poe, Sinsabaugh, Stone (Anthropology), Stricker, Tackas-Vesbach, Thronhill, Turner, Vogel, Werner-Washburne, Yates.

Adjunct or Part-time Faculty (8): Coen Adema, Michelle Baker, Jeff Nekola, Jerry Dragoo, Bruce Hofkin, Leah Larkin, Diana Northup, Si-Ming Zhang

Postdoctoral Fellows (12) Ben Hanelt, Andrew Hope, Anton Bryantsev, Michelle Steinauer, Sara Brant, Bill Dvorachek, Junhuan Xu, Ayesha Burdett, Megan Osbourne, Chris Allen, Don Benn, Yong Zeng


Anthropology Graduate Students (5): Amy Farnbach, Meghan Rogahn, Yan Kilimintidis, Alicia Wilber, Hsuiman Lin

Undergraduates (31) Teresa Madrid, Sandra Brumburgh, Nicole Woodards, Elisa LaBeau, LeAnn Lovato, Medina Nourestdani, Lena Moffett, Ben Ediger, Krista Ortega, Damian Trujillo, Jennifer Brower, Alicia Arguelles, Cheryl Sensibaugh, Michele Denton, Phong Nguyen, Kathryn Moore, Susan Monzon, Alicia Hosdon, Pat Blair, Erin Sandrick, April Lopez, Jon Trujillo, Ricardo Galdomez, Andrea Anderson, Kristine Rubio, Monica Moya, Kylea Odenbach, Gina Ryan, Justine Hall, Olan Jackson-Weaver, Christine Cooper

Visiting Scientists Using the Facility (9) Robin Simons (UNM Chemical Engineering) Dr. Lopez’s Lab Paul Arbetan (Natural Heritage New Mexico) Rodrigo Vega (National Autonomous University of Mexico (UNAM)) working with Dr. Cook Esteban Rossi (Universidad Javeriana) working with Dr. Cadavid and Dr. Miller Carol Linder and Lisa Bentson (New Mexico Highlands University) George Hamaou (Ohio Westland University) working with Dr. Northup Steve Kaestner (Jefferson Middle School) working with Dr. Northup Jose Herrera (Truman State University) working with Dr. Sinsbaugh and Dr. Natvig Sharon Neal (University of Delaware) working with Dr. Werner-Washburne
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MOLECULAR BIOLOGY FACILITY AT THE UNM DEPARTMENT OF BIOLOGY

STAFF

Director: Richard Cripps

Research Scientist/Manager: George H. Rosenberg

Research Scientist/COBRE Project: Jennifer Hathaway

Teaching Assistants:
Sandra Melman (Fall 2005), Anthony Aragon (Spring 2006) and Ryan Schwarz (Summer 2006)

MAJOR EQUIPMENT ACQUISITIONS

Two ABI 3130XL DNA Sequencer upgrades
Eppendorf 5810R refrigerated tabletop centrifuge
Monarch Multiprocessor Workstation Computer
Woods Upright Freezer
Two Eppendorf Electronic Multichannel Pipettors
Xerox Phaser 6350 Printer
Sony Thermal Printer
USimS:

Faculty (28): Barton, Bergthorsson, Brown, Buikstra (Anthropology), Cadavid, Cook, Cripps, Cunningham, Hanson, Hunley (Anthropology), Kodric-Brown, Loker, Lowrey, Marshall, Miller, Natvig, Nelson, Pockman, Poe, Sinsabaugh, Stone (Anthropology), Stricker, Tackas-Vesbach, Thronhill, Turner, Vogel, Werner-Washburne, Yates.

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Biology Graduate Students (43):

Anthropology Graduate Students (5):
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Esteban Rossi (Universidad Javeriana) working with Dr. Cadavid and Dr. Miller
Carol Linder and Lisa Bentzson (New Mexico Highlands University)
George Hamaou (Ohio Westland University) working with Dr. Northup
Steve Kaestner (Jefferson Middle School) working with Dr. Northup
Jose Herrera (Truman State University) working with Dr. Sinsabaugh and Dr. Natvig
Sharon Neal (University of Delaware) working with Dr. Werner-Washburne
Research Staff (14)
Bonnie Lun, Kelly Fitzpatrick, Linda Hodes Villama, Matt Fain, Jill Hendren, Jennifer Ellwell, Jennifer Ikle, Tyanna Lovato, Ankita Nanavaty, Barbara Stout, Elizabeth Hatton, George Rosenberg, Jennifer Marshall, April Wright, Chris Laubur, Tamara Max, Angelina Rodriguez

INSTRUCTION AND TRAINING
Formal Courses which used the MBF

Biol 425, Molecular Genetics
Biol 444, Genomics & Genomic Analysis
Biol 446/546, Molecular Methods
Biol 478, Plant Physiology

Other Undergraduate Training Programs

1. IMSD
2. MARC
SPONSORED PROJECTS USING THE MBF

Principal Investigator(s): Adema, C  
Sponsor: U of Wyoming  
Amount: $3,000  
Title: University of Wyoming-NPS Research Station Parasite Infection status of Potamopyrgus antipodarum  
Project Period: 5/1/05-4/30/06

Principal Investigator(s): Adema, C  
Sponsor: DHHS  
Amount: $1,031,032  
Title: Anti-Pathogen Responses in Biomphalaria Glabrata  
Project Period: 4/1/03-3/31/07

Principal Investigator(s): Allen, C  
Sponsor: NIGMS  
Amount: $48,296  
Title: Defining Emergence from Stationary Phase in Yeast-Year 2  
Project Period: 6/28/04-6/30/06

Principal Investigator(s): Cadavid, L  
Sponsor: NSF  
Amount: $508,809  
Title: Molecular and Functional Characterization of an Ancient Histocompatibility System.  
Project Period: 8/1/03-7/31/06

Principal Investigator(s): Cook, J  
Sponsor: NSF  
Amount: $334,976  
Title: Beringian Coevolution Project II  
Project Period: 8/1/04-12/31/06

Principal Investigator(s): Cook, J  
Sponsor: NSF  
Amount: $15,000  
Title: REU Beringian Coevolution Project II  
Project Period: 8/1/04-12/31/06

Principal Investigator(s): Cook, J  
Sponsor: US Fish/Wildlife  
Amount: $84,500  
Title: Molecular Perspectives on Tongass  
Project Period: 7/29/03-9/30/07
Principal Investigator(s): Cook, J  
Sponsor: Forest Service  
Amount: $49,983  
Title: Mammal Inventory of the Tongass National Forest  
Project Period: 7/19/05-7/31/10

Principal Investigator(s): Cripps, R  
Sponsor: NIGMS  
Amount: $1,064,000  
Title: GENETIC REGULATION OF MUSCLE FIBER DIVERSITY  
Project Period: 5/1/01-4/30/06

Principal Investigator(s): Cripps, R  
Sponsor: DHHS  
Amount: $51,756  
Title: Genetic Regulation Of Muscle Fiber Diversity  
Project Period: 5/1/01-4/30/06

Principal Investigator(s): Cripps, R  
Sponsor: MDA  
Amount: $237,687  
Title: Transcriptional Control of Muscle Remodeling in Drosophila  
Project Period: 7/1/03-6/30/06

Principal Investigator(s): Cripps, R  
Sponsor: AHA  
Amount: $42,000  
Title: Hox Genes and the Patterning of the Drosophila Dorsal Vessels  
Project Period: 1/1/05-12/31/06

Principal Investigator(s): Cripps, R  
Sponsor: NIH  
Amount: $538,891  
Title: Genetic Regulation of Cell Fate in the Drosophila Heart  
Project Period: 4/1/05-3/31/10

Principal Investigator(s): Hanson, D  
Sponsor: SNL  
Amount: $40,000  
Title: Inorganic Carbon Usage by the Marine Cyanobacterium Synechococcus WH8102 (Second Yr. SURP)  
Project Period: 10/1/05-9/30/06
Principal Investigator(s): Larkin, L  
Sponsor: NSF  
Amount: $332,333  
Title: RESVSYS: A Holistic Approach to a Holartic Group: Subgeneric Relationships Within the Genus Andrena Fabricius  
Project Period: 6/1/04-5/31/07

Principal Investigator(s): Loker, S  
Sponsor: US Egypt Sci/Tec  
Amount: $12,800  
Title: Biomphalaria in Egypt: Understanding the Changing Biology of the Snails that Transmit Schistosomiasis  
Project Period: 9/1/02-8/31/05

Principal Investigator(s): Loker, S  
Sponsor: DHHS  
Amount: $1,211,580  
Title: BIOLOGY OF TREMATODE-SSNAIL ASSOCIATIONS  
Project Period: 1/1/00-1/31/06

Principal Investigator(s): Loker, S  
Sponsor: NIAID  
Amount: $602,828  
Title: Evo-epidemiology of Schistosoma mansoni in Western Kenya  
Project Period: 4/1/04-4/30/06

Principal Investigator(s): Loker, S  
Sponsor: DHHS  
Amount: $3,933,301  
Title: COBRE: Center for Evolutionary and Theoretical Immunology  
Project Period: 9/30/03-6/30/06

Principal Investigator(s): Loker, S  
Sponsor: Dept of Agriculture  
Amount: $16,768  
Title: MR-Collaboration: Praziquantel Resistance in Egypt: Testing and Use of an In-Vitro Assay  
Project Period: 9/1/05-8/31/07

Principal Investigator(s): Lowery, T  
Sponsor: NM NH Museum  
Amount: $17,186  
Title: The Phylogeography of Ocotillos  
Project Period: 1/1/05-12/31/05
Principal Investigator(s): Marshall, D  
Sponsor: Dept of Agriculture  
Amount: $76,555  
Title: Genetic Variability, Life History & Mating System of Invasive Plant FY 05-06  
Project Period: 9/1/05-8/31/07

Principal Investigator(s): Miller, R  
Sponsor: NSF  
Amount: $420,000  
Title: Structure and Evolution of the MHC in a Model Marsupial  
Project Period: 5/15/03-4/30/07

Principal Investigator(s): Natvig, D  
Sponsor: NSF  
Amount: $270,000  
Title: COLLABORATIVE RESEARCH: SIGNALING VIA OPSINS AND OPSIN-RELATED PROTEINS IN FUNGI  
Project Period: 8/1/00-7/31/05

Principal Investigator(s): Nelson, M  
Sponsor: Dartmouth College  
Amount: $175,619  
Title: Functional Analysis of a Model Filamentous Fungus: ESTs  
Project Period: 4/1/04-3/31/06

Principal Investigator(s): Nelson, M  
Sponsor: DHHS  
Amount: $242,427  
Title: Marc National Research Service (Undergraduate Training) Award  
Project Period: 6/1/03-5/31/06

Principal Investigator(s): Northup, D  
Sponsor: SW Reg NSS  
Amount: $400  
Title: Identification of the Microbial Communities Associated with Roots in New Mexico Lava Tubes  
Project Period: 12/14/05-12/13/06

Principal Investigator(s): Northup, D  
Sponsor: T&E, INC  
Amount: $1,964  
Title: Genetic Bacteria as Indicators of Human Impact in Caves  
Project Period: 6/1/05-12/31/06
Principal Investigator(s): Northup, D  
Sponsor: NSF  
Amount: $291,644  
Title: Identification of Microbial Signatures in Biogenic Cave Ferromanganese Deposits  
Project Period: 8/15/03-7/31/07

Principal Investigator(s): Sinsabaugh, R  
Sponsor: NSF  
Amount: $143,998  
Title: Nitrogen Cycle of a semi-arid Grassland: A Fungal Loop  
Project Period: 7/15/05-6/30/06

Principal Investigator(s): Takacs-Vesbach,C  
Sponsor: NSF  
Amount: $371,545  
Title: A microbial inventory of the greater Yellowstone Ecosystem Thermal  
Project Period: 8/1/02-7/31/06

Principal Investigator(s): Takacs-Vesbach,C  
Sponsor: NSF  
Amount: $17,740  
Title: REU: Supplement: A Microbial Inventory of Greater Yellowstone Ecosystem Thermal Features  
Project Period: 8/1/02-7/31/06

Principal Investigator(s): Takacs-Vesbach,C  
Sponsor: NSF  
Amount: $160,747  
Title: Collaborative Research: Hydrologic Controls Over Biogeochemistry and Microbial Community Structure and Function Across Terrestrial/Aquatic Interfaces in a Polar Desert  
Project Period: 7/1/04-6/1/07

Principal Investigator(s): Thornhill, R  
Sponsor: NSF  
Amount: $340,883  
Title: Genetic Conflicts Of Int, Fluct Assym and The Mhc  
Project Period: 8/1/02-7/31/06

Principal Investigator(s): Turner, T  
Sponsor: NM Game & Fish  
Amount: $5,300  
Title: Baseline Genetic Survey of the Threatened Bluntnose Shiner  
Project Period: 11/8/05-6/30/06
Principal Investigator(s): Turner, T
Sponsor: Bureau Reclamation
Amount: $466,458
Title: Conservation Genetics of the Rio Grande Silvery Minnow (RGSM): Baseline Population Genetics of Wild Stocks
Project Period: 6/26/02-9/30/06

Principal Investigator(s): Turner, T
Sponsor: NSF
Amount: $12,800
Title: REU:CAREER: Museum Based Approaches to Ecology and Evolution of Aquatic Systems
Project Period: 5/1/02-4/30/07

Principal Investigator(s): Werner-Washburne, M
Sponsor: NSF
Amount: $60,000
Title: Analysis of Quiescent and Non-quiescent Cells in Stationary-Phase Yeast Cultures
Project Period: 7/1/05-6/30/06

Principal Investigator(s): Werner-Washburne, M
Sponsor: NIGMS
Amount: $1,405,991
Title: A Compendium of Gene Expression in Stationary Phase
Project Period: 7/1/02-6/30/06

Principal Investigator(s): Werner-Washburne, M
Sponsor: DHHS
Amount: $65,454
Title: Compendium Of Gene Expressionin in Stationary Phase
Project Period: 7/1/02-6/30/06

Principal Investigator(s): Werner-Washburne, M
Sponsor: NIH
Amount: $168,081
Title: A Compendium of Gene Expression in Stationary Phase: Supp. For Underrepresented Minorities
Project Period: 7/1/02-6/30/06

Principal Investigator(s): Werner-Washburne, M
Sponsor: NSF
Amount: $10,000
Title: PAESMEM: Demystifying Genomics - Opening Doors
Project Period: 6/15/04-5/31/07
Principal Investigator(s): Werner-Washburne, M
Sponsor: NIGMS
Amount: $537,729
Title: Initiative for Minority Student Development at UNM
Project Period: 3/1/03-1/31/09

Principal Investigator(s): Yates, T
Sponsor: Office of Naval Research
Amount: $186,000
Title: Predictive Modeling Visualization & Pattern Recognition Utilizing Complex Data
Project Period: 6/1/03-5/31/06

Principal Investigator(s): Yates, T
Sponsor: DHHS
Amount: $2,467,243
Title: Longitudinal Studies Of Rodent reservoirs Of Hantaviruses In SW U.S.A.
Project Period: 9/30/96-9/29/06

Principal Investigator(s): Yates, T
Sponsor: DARPA
Amount: $94,875
Title: Predictive Modeling, Visualization and Data Reduction
Project Period: 9/15/05-9/30/07
PEER REVIEWED PUBLICATIONS WHICH UTILIZED THE FACILITY


Alo, D; Turner, TF. Effects of habitat fragmentation on effective population size in the endangered Rio Grande silvery minnow. Conservation Biology; Aug.2005; v.19, no.4, p.1138-1148


Baker, ML; Osterman, AK; Brumburgh, S. Divergent T-cell receptor delta chains from marsupials. ImmunoGenetics; Oct. 2005; v.57, no.9, p.665-673

Baker, PW; Tanaka, KKK; Klitgord, NJ; Cripps, RM. Adult myogenesis in Drosophila melanogaster can proceed independently of myocyte enhancer factor-2. Genetics; Aug. 2005; v.170, no.4, p.1747-175

Belov, K; Deakin, JE; Papenfuss, AT; Graves, JAM; Miller, RD. The immune supercomplex: Insights from the opossum MHC. Tissue Antigens; Nov. 2005; v.66, no.5, p.359-359

Belov, K; Deakin, JE; Papenfuss, AT; Baker, ML; Melman, SD; Siddle, HV; Gouin, N; Goode, DL; Sargeant, TJ; Robinson, MD; Wakefield, M.J., Mahony, S., Cross, J.G.R. Benos, P.V., Samollow, P.B., Speed, T.P. Graves, J.A.M., Miller, R.D. Reconstructing an ancestral mammalian immune supercomplex from a marsupial major histocompatibility complex. PLoS Biology; Mar. 2006; v.4, no.3, p.317-328


Deakin, JE; Parra, ZE; Graves, JAM; Miller, RD. Physical mapping of T cell receptor loci (TRA@, TRB®, TRD® and TRG@) in the opossum (Monodelphis domestica). Cytogenetic and Genome Research; 2006; v.112, no.3-4, p.342K-U 8

Deakin, J. E., Olp, J. J., Graves, J. A. M. and Miller, R. D. Physical mapping of immunoglobulin loci IGH®, IGK®, and IGL® in the opossum (Monodelphis domestica). Cytogenetic and Genome Research; in press

Garver-Apgar, C. E., Gangestad, S. W., Thornhill, R., Miller, R. D., Olp, J. J. Women Who Share MHC Alleles With Partners Are Less Sexually Responsive to Them and More Attracted to Extra-Pair Men—Particularly When Ovulating. Psychological Science; In press

Gouin, N; Deakin, JE; Miska, KB; Miller, RD; Kammerer, CM; Graves, JAM; VandeBerg, JL; Samollow, PB. Linkage mapping and physical localization of the major histocompatibility complex region of the marsupial Monodelphis domestica. Cytogenetic and Genome Research; 2006; v.112, no.3-4, p.277-285


Hertel LA, Adema CM, Loker ES. Differential expression of FREP genes in two strains of Biomphalaria glabrata following exposure to the digenetic trematodes Schistosoma mansoni and Echinostoma paraencl. Developmental and Comparative Immunology. 2005;29(10):855-66


Johansson, J; Salazar, JN; Aveskogh, M; Munday, B; Miller, RD; Hellman, L. High variability in complementarity-determining regions compensates for a low number of V gene families in the lambda light chain locus of the platypus. European Journal of Immunology; Oct. 2005; v.35, no.10, p.3008-3019

Jung, Y; Nowak, TS; Zhang, SM; Hertel, LA; Loker, ES; Adema, CM. Manganese superoxide dismutase from Biomphalaria glabrata . Journal of Invertebrate Pathology; Sep. 2005; v.90, no.1, p.59-63


Lovato, TL; Benjamin, AR; Cripps, RM. Transcription of Myocyte enhancer factor-2 in adult Drosophila myoblasts is induced by the steroid hormone ecdysone. Developmental Biology; Dec. 15 2005; v.288, no.2, p.612-621
Morgan, JAT; Dejong, RJ; Adeoye, GO; Ansa, EDO; Barbosa, CS; Bremond, P; Cesari, IM; Charbonnel, N; Correa, LR; Coulibaly, G; et. al. Origin and diversification of the human parasite Schistosoma mansoni. Molecular Ecology; Oct. 2005; v.14, no.12, p.3889-390

Osborne, MJ; Benavides, MA; Turner, TF. Genetic heterogeneity among pelagic egg samples and variance in reproductive success in an endangered freshwater fish, Hybognathus amarus (Cyprinidae). Environmental Biology of Fishes; Aug.2005; v.73, no.4, p.463-472


Papenfuss, AT; Belov, K; Deakin, JE; Speed, TP; Graves, JAM; Miller, RD. Annotation of the opossum major histocompatibility complex and analysis of conserved non-coding regions. Tissue Antigens; Nov. 2005; v.66, no.5, p.508-508


Ryan, KM; Hoshizaki, DK; Cripps, RM. Homeotic selector genes control the patterning of seven-up expressing cells in the Drosophila dorsal vessel. Mechanism of Development; Sep. 2005; v.122, no.9, p.1023-1033


Wilson, WD; Johnson, PTJ; Sutherland, DR; Mone, H; Loker, ES. A molecular phylogenetic study of the genus Ribeiroia (Digenea): Trematodes known to cause limb malformations in amphibians. Journal of Parasitology; Oct. 2005; v.91, no.5, p.1040-1045
APPENDIX G

CASTETTER HALL

RENOVATION
APPENDIX H

FACULTY SCHOLARLY & PROFESSIONAL ACTIVITIES,
CY 2005
I. TEACHING.

A. Graduate Education.

1. Masters degrees awarded.

Cripps, R.M.

Dahm, C.N.

Loker, E.S.
Fall: Nirvana Dunndon Barker, Plan II (non-thesis).

Marshall, D.L.
Terri L. Koontz, "The Effects of Herbivores on Seed Banks in a Grassland and a Shrubland," Fall.

Miller, R.D.
April M. Wright, "Characterization of a Unique MHC Class I Locus in the Marsupial Monodelphis domestica," April 8.

Pockman, W.T.
Alea Trafton, "Water Relations of Native and Non-native Tree Species along the middle Rio Grande, New Mexico, USA."

Stricker, S.A.
Toni L. Smythe (Plan II [non-thesis]), Fall.

Werner-Washburne, M.

H-1
Paul Helman, Computer Science mentor.

2. Doctors degrees awarded.

BROWN, J.H.

ANA DESIREE DAVIDSON: “The Comparative and Interactive Effects of Prairie Dogs and Bannertailed Kangaroo Rats on Plants and Animals in the Northern Chihuahuan Desert,” Spring. (with J.R. Gosz)


COOK, J.A.

Eric Wältari, Idaho State University, May 2005

LOKER, E.S.


MILLER, R.D.

Sergio Flores Ramirez, “Evolutionary Patterns of Cetacean Major Histocompatibility Complex Polymorphism,” January 27.

MILNE, B.T.

MELANIE E. MOSES, “Metabolic Scaling from Individuals to Societies,” Summer.

WOLF, B.O.

TERESA TIBBETS, May (M.C. Molles, Jr., chair)

HIRA WALKER, May (J.H. Brown, chair)

Outside examiner for Ph.D. defense of Daniel Mazerolle, “Migratory Patterns and Physiology of White-crowned Sparrows: Inferences from Stable Hydrogen Isotope Analyses,” Department of Biology, University of Saskatchewan, Saskatoon, Canada.

3. Bona fide graduate courses and number of students enrolled. Indicate new courses (for you) with an asterisk.

BERGTHORSSON, U.

Fall: *Biol. 500, New Graduate Student Seminar, 18 students
BROWN, J.H.

Fall:  
Biol. 503, Biological Complexity Seminar, 17 students  
Biol. 516, Basic Graduate Ecology, 17 students (with R.L. Sinsabaugh and S.L. Collins)

CADAVID, L.F.

Fall:  
Biol. 502, ST/Evolution of the Immune System, 3 students

CHARNOV, E.L.

Spring:  
Biol. 565, Sociobiology and Evolutionary Ecology, 6 students
Fall:  
Biol. 565, Sociobiology and Evolutionary Ecology, 14 students

COLLINS, S.L.

Fall:  
Biol. 514, Ecosystem Ecology, 5 students (co-taught with C.N. Dahm)  
Biol. 516, Basic Graduate Core, 17 students (co-taught with R.L. Sinsabaugh and J.H. Brown)
Spring:  
Biol. 515F, Research in Field Ecology, 16 students (co-taught with W.T. Pockman and B.O. Wolf)  
Biol. 575, Plant Community Ecology, 2 students

COOK, J.A.

Fall:  
*Biol. 502, ST/Suture Zones (1 cr.), 5 students

Spring:  
Biol. 502, ST/Phylogeography and Coalescent Theory (2 cr.) (hosted Enrique Lessa)  
*Biol. 502, ST/Island Biology (1 cr.), 6 students  
Biol. 517, Basic Grad Evolution (4 cr.), 18 students (co-taught w/ three others)

CUNNINGHAM, C.

Hired in 2005; negotiated teaching release for fall semester.

DAHM, C.N.

Fall:  
Biol. 502, ST/ Freshwater Sciences IGERT, 10 students  
Biol 514, Ecosystem Studies, 6 students  
Biol. 558, Geomicrobiology, 15 students (10 UNM and 5 University of Alabama)
Spring:  
Biol. 502, ST/Freshwater Sciences IGERT, 12 students  
Biol. 535, Freshwater Ecosystems, 21 students (15 UNM and 6 University of Alabama)  
Biol. 495, Limnology, 2 students  
Biol. 496L, Limnology Lab, 2 students

DUSZYNSKI, D.W.

Spring:  
Bio. 482L, Parasitology/Lab (4 cr.), 13 students  
Bio. 461L, Introduction to Tropical Biology (3 cr.), 17 students
HANSON, D.T.
Spring:  
* Biol. 546, Lab Methods in Molecular Biology, 8 students  
* Biol. 502, ST/Molecular Techniques Discussion, 8 students  
* Biol. 502, St/Life after Graduate School, 20 students

HOFKIN, B.V.
Spring:  
Biol. 556, Immunology, 3 students

KODRIC-BROWN, A.
Fall:  
Biol. 521, Advanced Behavioral Ecology, 5 students  
Spring:  
Biol. 517, Basic Graduate Evolution, 14 students

LOKER, E.S.
Fall:  
Biol. 551, Research Problems, 1 student  
Summer:  
Biol. 551, Research Problems, 1 student  
Biol. 699, Dissertation, 1 student

LOWREY, T.K.
Fall:  
Biol. 502, ST/Systematics Discussion, 4 students

MARSHALL, D.L.
No teaching in Spring. A teaching release was used to establish the administration of the Noyce Scholarship program, an NSF-funded program for which I am the PI.

Fall:  
Biol. 502, ST/Plant Ecology, 6 students. (In this course we worked to analyze two data sets and began writing a paper; we are finishing the manuscript Spring 2006.)

MILLER, R.D.
Spring:  
Biol. 502, Immunology Letters, 6 students  
Associate Chair, teaching release  
Fall:  
Biol. 556, Immunology, 11 students  
Biol. 502, Graduate Immunology (required discussion section for students enrolled in Biol. 556), 11 students  
Biol. 502, ST/Immunology Letters, 2 students

MILNE, B.T.
Spring  
* Biol. 502, ST/Sustainability in Action, 2 students  
Biol. 503, Biocomplexity Seminar, 15 students  
Biol. 551, Research Problems, 3 students  
Biol. 699, Dissertation, 2 students

Fall:  
Biol. 551, Research Problems, 3 students  
Biol. 699, Dissertation, 2 students
NATVIG, D.O.

Spring: Biol. 502, ST/Wireless Data Acquisition (co-listed as CS 591) (3 cr.), 6 students
       Biol. 517, Graduate Evolution Core (4 cr.), 14 students
Fall:  Biol. 502, ST/Biology of Fungi (3 cr.), 3 students

NELSON, M.A.

Spring: Biol. 425, Molecular Genetics, 10 students
       Biol. 502, ST/Genome Biology, 3 students
Fall:  *Biol. 502, ST/Advanced Genetics, 1 student

POCKMAN, W.T.

Spring: Biol. 571, Plant Physiological Ecology, 3 students
       Biol. 515, Desert Field Ecology, 15 students
       Biol. 502, ST/Preparing for Life After Graduate School, 24 students

POE, S.

Spring: Biol. 203L, Evolution and Ecology, 40 students (co-taught with B.T. Milne)
       Biol. 203L, Evolution and Ecology, 66 students (co-taught with H.L. Snell)

SINSABAUGH, R.L.

Spring: Biol. 502, ST/Carbon Cycle (Journal Club) (1 cr.), 6 students
       Biol. 551, Research: Marcy Gallo (7 cr.), Martina Stusova (2 cr.)
Fall:  Biol. 516, Basic Graduate Ecology (4 cr.), 17 students (co-taught 1/3, with J.H. Brown and S.L. Collins)
       Biol. 599, Master's Thesis, Martina Stusova (3 cr.)
       Biol. 699, Dissertation, Marcy Gallo (4 cr.)

SNELL, H.L.

Spring: Biol. 502, ST/Field Herpetology, 1 student
       Biol. 551, Research Problems, 1 student
       Biol. 699, Dissertation, 3 students
Fall:  Biol. 551, Research Problems, 1 student
       Biol. 699, Dissertation, 3 students

TAKACS–VESBACH, C.D.

Spring: Biol. 546, Laboratory Methods in Molecular Biology, 9 students (co-taught with D.T. Hanson)
Fall:  Biol. 451, Microbial Ecology, 23 students total

THORNHILL, R.

Fall:  Biol. 502, Female Sexuality (3 hrs.), 10 students (with Dr. Paul Watson)

TOOLSON, E.C.

Fall:  Biol. 502, ST/Ecology Seminar, 2 students
Spring: Biol. 502, ST/Biology of Toxins, 2 students
TURNER, T.F.
Fall: Biol. 502-014, ST/Systematics and Evolution, 4 students

WAGNER, A.
Spring: On sabbatical
Fall: Biol. 510, Computational and Genome Biology, 6 students

WERNER-WASHBURN, M.
Fall: Biol. 544/502, Genomes and Genomic Analyses, 6 students

WOLF, B.O.
Fall: Biol. 502, ST/Animal Physiological Ecology (1 cr.), 3 students
Spring: Biol. 502, ST/Animal Physiological Ecology (1 cr.), 8 students

*Biol. 502, ST/Life after Grad School (1 cr.), 20 students (co-taught with D.T. Hanson, C. Takacs-Vestnach, and W.T. Pockman)

Biol. 515F Research in Field Biology (3 cr.), 16 students. Field course to Bahia Kino, Sonora, Mexico; course coordinator, co-taught with W.T. Pockman and S.L. Collins.

4. Your service on graduate student committees, not as chair, in semester oral exam was given.

COLLINS, S.L.
SELENE BAEZ, JACOB GOHEEN, ALLEN HURLBERT (defense), TERRY KOONTZ (M.S. defense), JULIANA MEDIEROS

DAHM, C.N.
Spring: 
  ▶ Dennis Newell, Ph.D. Preliminary Exam, Earth & Planetary Sciences, UNM (L.J. Crossey, advisor)
  ▶ CHELSEA CRENSHAW, Comprehensive Exam
  ▶ TERESA TIBBETS, Ph.D. Final Exam (M.C. Molles, Jr., advisor)
Summer: 
  ▶ Heidi Henderson, Master's of Water Resources Final Exam, Water Resources Program, University College, UNM (M.E. Campana, advisor)
  ▶ Darrell Kundargi, Master's of Water Resources Final Exam, Water Resources Program, University College, UNM (R. Jemison, advisor)
Fall: 
  ▶ ALEA TRAFTON, M.S. Final Exam, (W.T. Pockman, advisor)
  ▶ Matt Kirk, Ph.D. Preliminary Exam, Earth & Planetary Sciences, UNM (L.J. Crossey, advisor)

HANSON, D.T.
Fall: ALEA TRAFTON, M.S.
Spring: ANKITA SHAH, M.S.
KODRIC-BROWN, A.
Carrie Rose Laughter, Department of Anthropology, UNM, Spring

LOWREY, T.K.
Fall: HEATHER SIMPSON, Ph.D.
Spring: NATALIE DAWSON, Ph.D.

MARSHALL, D.L.
Fall: JULIAN MEDIEROS, comprehensive exams
HEATHER SIMPSON, comprehensive exams (I am her advisor)
Sabra Sowell, qualifying exam, College of Fine Arts
Sharon Watson, proposal defense, College of Education

MILLER, R.D.
Spring: THOMAS "STASIU" NOWAK, dissertation defense, May 16
ETHAN P. WHITE, Ph.D. candidate, "Temporal Scaling of Diversity: a Detailed Analysis of The Species-Time Relationship."
ALLEN HURLBERT, Ph.D. candidate, "Resource-based Determinants of Species Richness: Testing Species-energy Theory"
TERRI KOONZ, master's thesis (D.L. Marshall, Chair)

Summer: Hajime Inoue, dissertation defense, Department of Computer Science (S. Forrest, Chair), July 22.

NELSON, M.A.
Spring: Ying Lin, Department of Chemistry, UNM, Ph.D. defense
Ning Tao, Department of Computer Science, UNM, Master's defense

Summer: Ashish Agrawal, Department of Computer Science, UNM, Master's defense
ANKITA SHAW, Master's defense

NORTHUP, D.E.
Spring: CHRIS LAUBER

POCKMAN, W.T.
Fall: SELENE BAEZ (S.L. Collins, chair)
NINA BAUM (B.T. Milne, chair)

SINSABAUGH, R.L.
CHELSEA CRENSHAW, Department of Biology, UNM

TERESA TIBBETS, Department of Biology, UNM

H-7
SNELL, H.L.
Spring: SERGIO FLORES-RAMIREZ, Ph.D. (R.D. Miller, chair)

TAKACS-VESBACH, C.D.
Spring: Chelsea Crenshaw, Marcy Gallo, Christian Lauber, Lydia Zeglin,
Fall: Matthew Kirk (E&PS)

TURNER, T.F.
Fall: NIRVANA BARKER (advisor: E.S. Loker), Type II (non-thesis) Master's
      Examination
      DOLLY CRAWFORD (advisor: J.A. Cook), Doctoral Comprehensive Exam
      DANIELLA SWENTON (advisor: A. Kodric-Brown), Doctoral Comprehensive
      Exam

WERNER-WASHBURNE, M.
Summer: Helen Baca, Chemical Engineering, July

WOLF, B.O.
KRISTINA ANDERSON (J.H. Brown, chair)
J. TOMAS GIERMAKOWSKI (H.L. Snell, chair)
DANIELLA SWENTON (A. Kodric-Brown, chair)

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.).

BROWN, J.H.
Biology Graduate Students:

KRISTINA ANDERSON:
Meetings attended:
Hawaii Ecosystems Project Meeting, Kea’au HI, July.

Physiological Ecology Annual Meeting, Bishop CA, June.

International Biogeography Society Second Biennial Meeting, Shepherdston WV, January.

Papers presented:
Succession. Hawaii Ecosystems Project Meeting, Kea’au HI, July.


Papers published:

SELENE BAEZ:
Meetings attended:
90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

Papers presented:
Bottom-up Control of the Plant Community Structure in an Arid Ecosystem. 90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

ALISON BOYER:
Meetings attended:

Papers presented:

JASON G. BRAGG:
Meetings attended:

Plant Functional Genomics and Comparative Ecology, ARC-NZ Network for Vegetation Function, Macquarie University, Sydney, Australia, December 15-16.

Papers presented:

Awards received:
Howard Hughes Medical Institute: Program in Interdisciplinary Biological Sciences Fellowship

KAREN H. GAJNES:
Meetings attended:
Papers presented:

JACOB GOHEEN:
Foreign travel:
Laikipia, Kenya, March–May and July–August.

Meetings attended:


Papers presented:


Papers published:


Awards Received:
American Society of Mammalogists Graduate Fellowship, $16,000.
Smithsonian Institution Predoctoral Fellowship, $7,000.

ALLEN HURLBERT:
Foreign travel:
90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

Meetings attended:

90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

Papers presented:
Exploring the "Swiss Cheese Effect": The Causes and Consequences of Patchily Occupied Geographic Ranges. 2005. 90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

Papers published:

HILLARY LEASE:
Foreign travel:
90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

Meetings attended:
90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

Papers presented:

Post-doctoral Biology Students:

ANA DAVIDSON:
Foreign travel:
National University of Mexico (UNAM), Mexico D.F., Mexico, October 31–December 5.

Janos, Chihuahua, Mexico, August 24-29 and September 20–October 3.

Meetings attended:
Sevilleta LTER Symposium, UNM, Albuquerque NM, January.

Papers presented:

Grants received:
The Nature Conservancy, $25,000, August 1.

J.M. Kaplan Fund, $15,000, August 1

CHRISTINE HIGE:
Foreign travel:
90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

Meetings attended:
90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.
CRAIG R. McCLAIN:
Foreign travel:
Institute of Ecology and Conservation Biology (IECB) Conference, Vienna, Austria, August.
90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

Meetings attended:
90th Annual Meeting of the Ecological Society of America, Montreal, Canada, August 7-12.

Papers published:


MELANIE MOSES:
Meetings attended:
Nature of Technology Workshop, UNM Technology of Nature, UNM, November.
Sevilleta Long-Term Ecological Research (LTER) Symposium, UNM, Albuquerque NM, January.

Papers presented:


Grants received:
Anthropology Graduate Students:

OSKAR BURGER:

Foreign travel:
Archaeological fieldwork, Portugal, June-July 7. (Not funded by Biocomplexity.)

Complex Systems Summer School 2005, Beijing, China, July 11–August 5.

Meetings attended:
70th Annual Meeting for the Society for American Archaeology, Salt Lake City UT, March 30–April 3.


Papers presented:


Papers published:

Pawar, S., O. Burger, B. Hallmark, G. Bagler, F. Wang and E. Xue. 2005. Evolution of Food-web Networks in Fluctuating Environments. Student report, Complex Systems Summer School 2005, Beijing, China, July 11–August 5. (On file at the Santa Fe Institute, Santa Fe NM.)

Grants received:
Biocomplexity Fellowship

MARCUS J. HAMILTON:

Meetings attended:
Complex Systems Summer School 2005, Santa Fe Institute, Santa Fe NM, June 6–July 1.

Papers presented:


Papers published:

Grants received:
Graduate and Professional Student Association/Student Research Allocation Committee, UNM award for costs associated with dissertation data collection and presenting at the 70th Annual Society of American Archaeology (SAA) Meetings, Salt Lake City UT, March 30–April 3, $340.


COLLINS, S.I.

LAURA CALABRESE:
➢ Received SRAC and GRAC awards
➢ Presented a poster at the Ecological Society of America (ESA) Annual Meeting, Montreal, Canada, August.

SELENE BAEZ:
➢ Received a Biocomplexity Fellowship

JOE FARGIONE (post-doc):
➢ Received foreign travel support to attend TERRAC meeting in France
➢ Presented a poster at the ESA Annual Meeting, Montreal, Canada, August.

Cripps, R.M.

Kathryn Ryan: predoctoral fellowship, American Heart Association.

DAHM, C.N.

Chelsea Crenshaw:
$5,000 award for Ph.D. research support, N.M. Water Resources Research Institute.

Lydia Zeglin:
$5,000 award for Ph.D. research support, N.M. Water Resources Research Institute.

Jennifer Follstad Shah:
$3,000 award for Ph.D. research support, N.M. Water Resources Research Institute.
KODRICK-BROWN, A.

CYNTHIA TECH:
➢ C. Hubbs Award for Best Student Presentation: “Sex Ratio Bias and Loss of Male Fertility in Hybrids of Comanche Springs Pupfish and Sheepshead Minnow,” Desert Fishes Council Meeting, Cuatro Cienegas, Mexico, November 16-21.


LISA SCHWANZ:
➢ Poster, “Maternal Parasitic Infection and Sex Allocation in Deer Mice,” Annual Research Day, Department of Biology, UNM, April.


LOWREY, T.K.

JOANNA REDFERN, Ph.D. student, Summer Research Grant, Sevilleta LTER

MARSHALL, D.L.

MELANIE BARNES:
Papers presented:

Grants received:
➢ For research on the roles of local adaptation and outbreeding depressing in the success of restoration of plant populations:
  2004-05 Graduate and Research Development grant (GPSA, UNM), $3,000.
  2005 T & E Inc. (non-profit), $2,493.
  2005 Research, Project, and Travel grant (OGS, UNM), $900.
  2005 Student Research Allocations Committee (GPSA, UNM), $500.
  2005 Grove Research Award (Biology Department, UNM), $500.
  2005 Graduate Research Allocations Committee (BGSA, UNM), $200.

TERI KOONTZ:
Papers presented:

➢ The effects of herbivores on seed banks in a grassland and a shrubland. Annual Research Day, Department of Biology, UNM April.

Awards received:
➢ Best Graduate Student Oral Presentation, Annual Research Day, Department of Biology, UNM, April.
JERUSHA REYNOLDS:
Received two fellowships, each of which pays a monthly stipend to research and academic development:
> IMSD (Initiative to Maximize Student Diversity), Spring
> New Mexico Alliance for Graduate Education to the Professoriate (NM-AGEP), Spring and Fall 2005.

HEATHER SIMPSON:
Grants awarded:
> “Demography, Genetics and Mating System Structure of an Invasive Mustard, *Isatis Tinctoria*”:  
  2005 Graduate Research Allocation Committee. $300.00  
  2005 Student Research Allocation Committee. $100.00

Meetings attended:

MILNE, B.T.

MELANIE MOSES: Supported by a Ford Foundation grant for graduate students.

HORACIO SAMANIEGO: Grove Doctoral Scholarship, 2005-06.

MATT LUCK: Elected student representative to the International Association for Landscape Ecology.

NAVIJ, D.O.

ANDREA PORRAS ALFARO:
Best Student Poster Award for “Mycorrhizal Fungi of Vanilla: Specificity, Phylogeny and Effects on Seed Germination and Plant Growth,” Annual Meeting of the Mycological Society of America, Hilo HI, August.

NELSON, M.A.

HARRIETT PLATERO:
Received awards from the NM Alliance for Graduate Education & the Professoriate and the IMSD (Initiative to Maximize Student Diversity) Program.

NORTHUP, D.E.

JESSICA SNIDER:
Received a travel grant from the International Symposium on Subsurface Microbiology for her poster on our UV sensitivity of cave microorganisms, August.

ARMAND DICHOCA:
$500 from SRAC/GRAC for his investigation of “The Role of Microorganisms in the Creation of Ferromanganese Deposits in Caves.”
SINSABAUGH, R.L.

MARCY GALLO and CHRIS LAUBER:
Submitted a proposal to the National LTER Office for a workshop on soil enzymes. The proposal was funded, and the workshop was held in Santa Fe NM, November 10-12, nine participants.

MARCY GALLO:
Participated in Graduate LTER Planning Symposium, Andrews Forest OR, April 13-15.

MARTINA STURSOVA:
➢ Received a Sevillet LTER summer fellowship.
➢ Received an RPT (Research, Project,Travel) grant from UNM Office of Graduate Studies, $700, October.

HEATHER BATEMAN:


Awards and grants received:
Graduate Research and Development, UNM $5,000
Research, Project, and Travel grant, UNM $700
Grove Research Grant, Department of Biology, UNM $500
T&E Inc. $2,500
New Mexico Graduate Scholars Award 1-semester tuition
National Fish and Wildlife Foundation Grant $6,250

J. TOMAS GIERMAKOWSKI:


Grants:

TAKACS-VESBACH, C.D.

Fall: KENDRA MITCHELL: SRAC $500, GRAC $200
MICHAEL BOBB: SRAC $150, GRAC $150
TURNER, T.F.

MEGAN OSBORNE, Ph.D., Research Assistant Professor:

➢ Traveled to Cuatro Cienegas, Mexico to attend the Desert Fishes Council Meeting, November.
➢ Traveled to Auckland, New Zealand to attend the Society for Molecular Biology and Evolution, June.

Invited Lectures and Presentations:

THOMAS KENNEDY, Ph.D. student:
Grants received:
➢ $100 grant from SRAC, UNM for a pilot study using stable isotopes to investigate the trophic interactions of invertebrates on the Rio Grande.

Publications:
➢ Kennedy T. and D. Carr D. 2005 The invasive plant Hydrilla (Hydrilla verticillata) affects the feeding preference of Florida Apple Snails (Pomacea paludosa). Veliger, in review.

MAUREEN PETERS, M.S. candidate:
Grants received:
➢ RPT, $600
➢ SRAC, $75
➢ GRAC, $430
➢ Grove Research, $750
➢ T&E, Inc., $1,500

Publications:


Other Accomplishments: submitted Master’s thesis proposal.

WADE WILSON, Ph.D. candidate:
Positions held:
➢ Biology Graduate Student Association (BGSA) representative to the Graduate and Professional Association.
Professional meetings attended:
- NM/AZ chapter American Fisheries Society, Gallup NM, March.
- American Fisheries Society annual meeting, Anchorage AK, September.

Grants awarded or pending:
- Research Project Travel, $1,000, Fall
- Student Research Allocations Committee, $392, Fall
- Graduate Research Allocations Committee, $100, Fall
- Alvin R. and Caroline G. Grove Summer Scholarship, $3,000, Summer
- Graduate Research and Development, $1,000, Spring
- National Science Foundation, Dissertation Improvement Grant, $11,958, pending
- Graduate Research and Development, $5,000, pending.

Publications:

WAGNER, A.

WERNER-WASHBURNE, M.

ANTHONY ARAGON:
- Invited seminar presentation at Colorado State University, Pueblo CO, February.
- Invited speaker, 2005 Annual Meeting of the Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Denver CO, September.
- Travel award to 2005 Annual Meeting of the Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Denver CO, September.

JASON THOMAS:
- Travel award to 2005 Annual Meeting of the Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Denver CO, September.

SUSEMITTA ROY:
- Outstanding Graduate Student Presentation, Bioinformatics Day, UNM, April.
- Outstanding Paper Award, BIONN Workshop on Data mining in Bioinformatics, Chicago IL, August.

WOLF, B.O.

CINDY MATHIASSEN:
Papers presented:
HILARY LEASE:
Papers presented:


B. Undergraduate Education. \textit{Bona fide} undergraduate courses taught each semester and number of students enrolled. Indicate new course (for you) with an asterisk.

ALLENBACH, J.S.
Spring: Biology 201, Molecular and Cell Biology, 150 students (two sections, co-taught with K.G. Vogel)
Fall: Biology 201, Molecular and Cell Biology, 180 students (two sections, co-taught with B.V. Hofkin)

BERGTHORSSON, U.
Fall: *Biol. 202, Genetics, 113 students

CADAVID, I.F.
Fall: Biol. 402, ST/Evolution of the Immune System, 8 students

CHARNOV, E.L.
Spring: Biol. 465, Sociobiology and Evolutionary Ecology, 25 students
Fall: Biol. 465, Sociobiology and Evolutionary Ecology, 15 students

COLLINS, S.L.
Spring: Biol. 475, Plant Community Ecology, 9 students

COOK, J.A.
Fall: Biol. 489L, Mammalogy (4 cr.), 19 students

COUCH, L.
Spring & Fall: Biol. 239L, Microbiology for Health Sciences and Non-majors, 200-250 students per semester

Cripps, R.M.
Fall: *Biol. 202-002, Introductory Genetics, 75 students.

CUNNINGHAM, C.
Hired in 2005; negotiated teaching release for fall semester.
DAHM, C.N.
Spring:  Biol. 495, Limnology; 18 students
        Biol. 496L, Limnology Lab, 13 students

FRANKIS, R.C. JR.
Spring: * Biol. 110, Biology for Non-Majors (2 sections), 233 students
       Summer: * Biol. 123, Biology for the Health-related Sciences & Non-Majors
       Fall:   Biol. 110, Biology for Non-Majors (1 section), 132 students
               * Biol. 428, Human Heredity; 82 students
               * Biol. 497, Principles of Gene Expression, 9 students

FRIDRICK, C.O.
Spring:  Biol. 123-001, Biology for Health-related Sciences and Non-Majors, 126 students
        Biol. 123-130, Biology for Health-related Sciences and Non-Majors, 130 students

HOFKIN, B.V.
Spring:  Biol. 456, Immunology, 87 students
        Biol. 490, Biology of Infectious Organisms, 82 students
Summer:  Biol 201, Molecular and Cell Biology, 40 students
Fall:    Biol. 201, Molecular and Cell Biology (3 sections), 291 students (co-taught with J.S. Altenbach)
        Biol 371L, Invertebrate Biology, 9 students

HOWE, K.A.
Spring:  Biol. 123-131, Biology for Health-related Sciences, 133 students
        Biol. 202-001 & -002, Genetics, 115 students
Fall:    Biol. 123-001/FIGS† 658, Biology for Health-related Sciences, 102 students, 21 FIGS students
        Biol. 123-130/FIGS† 660, Biology for Health-related Sciences, 98 students, 20 FIGS students
        Biology 123-131, Biology for Health-related Sciences, 111 students

† FIGS = Freshman Interest Group Students

KODRIC-BROWN, A.
Spring:  Biol. 455, Ethology Animal Behavior, 50 students

LOWREY, T.K.
Spring:  Biol. 461, Introduction to Tropical Biology, 15 students
Fall:    Biol. 463, Flora of New Mexico, 14 students
        Biol. 402, ST/Systematics Discussion, 3 students
MARSHALL, D.L.

No teaching in Spring. A teaching release was used to establish the administration of the Noyce Scholarship program, an NSF-funded program for which I am the PI.

Fall:  Biol. 360L, General Botany, 26 students

MILLER, R.D.

Spring:  Associate Chair, teaching release
Fall:  Biol. 456, Immunology, 86 students

MILNE, B.T.

Spring:  *Biol. 203L, Ecology & Evolution, 28 students  
*Biol. 402, ST/Sustainability in Action, 10 students
Fall:  Biol. 310L, Principles of Ecology, 11 students

NATVIG, D.O.

Fall:  Biol. 402, ST/Biology of Fungi (3 cr.), 10 students

NELSON, M.A.

Spring:  Biol. 425, Molecular Genetics, 10 students  
Biol. 402, ST/Genome Biology, 1 students
Fall:  *Biol. 402, ST/Advanced Genetics, 21 students  
*Biol. 402, ST/Undergraduate Research, 4 students

NORTHUP, D.E.

Fall:  *FLC† 609, Microbes and Society, 22 students.

† Freshman Learning Communities

POCKMAN, W.T.

Spring:  Biol. 471, Plant Physiological Ecology, 9 students
Fall:  *Biol. 204L, Plant and Animal Form and Function, 30 students (first time offered)

SINSABAUGH, R.L.

Spring:  Biol. 351, Microbiology (3 cr.), 75 students  
Biol. 499, Undergraduate Problems, Armida Carbajal (1 cr.), Sylvia Gonzalez (1 cr.)
Fall:  Biol. 351, Microbiology (3 cr.), 72 students  
Biol. 499, Undergraduate Problems, Kendra Pirs (2 cr.), Mina Sharifi (3 cr.)

SNELL, H.L.

Spring:  Biol. 386, General Vertebrate Zoology, 42 students  
Biol. 402, ST/Field Herpetology, 11 students  
Biol. 499, Research Problems, 1 students
Fall:  *Biol. 203-001, Ecology/Evolution 48 students (co-taught with S. Poe)  
*Biol. 203-002, Ecology/Evolution, 36 students (co-taught with S. Poe)
STRICKER, S.A.

Spring: Biol. 412, Developmental Biology, 45 students
Fall: Biol. 416L, Histology, 38 students

SWAN, J.

Spring: Biol. 237, Human Anatomy and Physiology I, Section 1, 200 Students
Biol. 238, Human Anatomy and Physiology II, Section 1, 200 Students
Biol. 238, Human Anatomy and Physiology II, Section 130, 75 Students
Biol. 447, Prosection, Section 1, 10 Students
Summer: Biol. 237, Human Anatomy and Physiology I, Section 1, 75 Students
Biol. 238, Human Anatomy and Physiology II, Section 1, 75 Students
Fall: Biol. 237, Human Anatomy and Physiology I, Section 1, 150 Students.
Biol. 237, Human Anatomy and Physiology I, Section 2, 200 Students.
Biol. 238, Human Anatomy and Physiology II, Section 1, 150 Students
Biol. 238, Human Anatomy and Physiology II, Section 130, 45 Students
Biol. 447, Prosection, Section 1, 10 Students

TAKACS-VESBACH, C.D.

Spring: Biol. 446, Laboratory Methods in Molecular Biology, 10 students (co-taught with D.T. Hanson)
Fall: Biol. 451, Microbial Ecology, 23 students total

THORNHILL, R.

Spring: Biol. 365, Human Sexuality, 90 students
Fall: Biol. 300, Evolution, 60 students

TOOLSON, E.C.

Fall: Biol. 402, ST/Ecology Seminar, 10 students
Biol. 435, Animal Physiology, 18 students
Spring: Biol. 402, ST/Ecology Seminar, 12 students
Biol. 402, ST/Biology of Toxins, 47 students
FLC† 613, Natural Toxins, 21 students

† Freshman Learning Communities

TURNER, T.F.

Fall: Biol. 386L-001, General Vertebrate Zoology, 29 students
Biol. 402-014, ST/Systematics and Evolution, 2 students

VOGEL, K.G.

Spring: *Biol. 201, Molecular and Cell Biology (two sections), 250 students (co-taught with Scott Altenbach)
Biol. 499, Undergraduate Problems, 1 student
Fall: Biol. 429, Molecular Cell Biology I, 50 students
Biol. 402, ST/Molecular Cell Biology I (Biol. 429) Discussion (two sections), 20 students

WAGNER, A.
Spring: On sabbatical
Fall: Biol. 410, Computational and Genome Biology, 5 students

WERNER-WASHBURNE, M.
Fall: *Biol. 444/402, Genomes and Genomic Analyses, 12 students
(This was a complete modification of the course I taught before; this was a literature-based, not a computational course.)
Biol. 402, ST/Biomedical Research, 18 students; Initiatives to Maximize Student Diversity (IMSD) Journal Club

WOLF, B.O.
Fall: Biol. 402, ST/Animal Physiological Ecology (1 cr.), 2 students
Biol. 486L, Ornithology (4 cr.), 20 students
Biol. 204L, Plant and Animal Structure and Function (4 cr.), 30 students (co-taught with W.T. Pockman)
Spring: Biol. 402, ST/Animal Physiological Ecology (1 cr.), 2 students

C. Teaching Awards.

MILLER, R.D.
Spring: Received UNM’s A&S 2004–2005 Gunter Starkey Teaching Award for Teaching Excellence
Nominated for the UNM’s 2004–2005 Outstanding Teacher of the Year Award

TOOLSON, E.C.
Designated a University College Teaching Fellow for excellence in teaching in the Freshman Learning Communities program.

D. Curriculum Development/Production of Teaching Materials.

CADAVID, L.F.

COOK, J.A.
MS PowerPoint™ Lectures for Biol. 203L, Ecology and Evolution
MS PowerPoint™ Lectures for Biol. 517, Basic Graduate Evolution

H-24
COUNCIL-GARCIA, C.L.
Development of discussions and labs for Undergraduate Biology Major Core (Biol. 201, 202, 203 & 204).

CRIPPS, R.M.

DAHM, C.N.
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 2005 were Freshwater Ecosystems in the spring (Biol. 535) and Geomicrobiology (Biol/EPSc 558) in the fall. I taught in both of these classes and was the lead in organizing the curriculum for both classes and coordinating teaching responsibilities between the UNM and University of Alabama faculty (Art Benke for Freshwater Ecosystems and Robert Findlay for Geomicrobiology). I also coordinated the one-credit seminar class for the Freshwater Sciences IGERT students in the spring and fall of 2005 (Biol. 502). Each semester we develop a new theme for the seminar and the seminar is largely driven by student input and efforts.

FRANKIS, R.C. JR.

HOWE, K.A.
Both Biol. 123 and Biol. 202 are supplemented with web pages that provide study guides, sample exams, homework assignments, supplemental information and answers to interesting questions that I am unable to answer fully in class.


MARSHALL, D.L.
Reviewed general biology books for Prentice Hall, Benjamin Cummings and McGraw–Hill to familiarize myself with books might be used in the core sequence of courses.

MILNE, B.T.

NORTHUP, D.E.
Developed all the materials for the FLC’ 609, Microbes and Society.
Freshman Learning Communities

POCKMAN, W.T.
Developed teaching resources and MS PowerPoint™ media for the first offering of a new core course, Biology 204L, Plant and Animal Form and Function.

SNELL, H.L.
Worked with Maria Ruby, Undergraduate Program Coordinator, to revise the courses and other requirements for the Conservation Biology program.

STRICKER, S.A.
New lecture handouts for Biol. 416L, Histology (258 pp. available on library e-reserves)

SWAN, J.
Development of online PDF files reflecting course content for Biol. 237 (Human Anatomy and Physiology I), 238 (Human Anatomy and Physiology II), 247L (Human Anatomy and Physiology Laboratory I) and 248L (Human Anatomy and Physiology Laboratory II).

TOOLSON, E.C.
Commenced organization and curriculum development for the Mathematical Biology course I'll be teaching in Fall 2006. Roughly one-half of the labs have been extensively outlined, and much of the necessary MATLAB code has been written for the corresponding exercises.

TURNER, T.F.
Fall: Developed a new series of MS PowerPoint™ lectures in Biol. 386L, General Vertebrate Zoology
Developed and maintained an e-reserves course page at Centennial Science & Engineering Library for Biol. 386L, General Vertebrate Zoology

E. Museum Curator, Advisor, Assistant Chair, EM Director, etc.

CHARNOV, E.L.
Graduate Student Advisor

COLLINS, S.L.
Director, Sevilleta Long Term Ecological Research, UNM

COOK, J.A.
Curator, Division of Mammals, Museum of Southwestern Biology, UNM

Associate Curator of Division of Genomic Resources, Museum of Southwestern Biology, UNM
COUCH, L.
Undergraduate Advisor

CRIPPS, R.M.
Associate Chair

Director, Molecular Biology Institute

DUSZYNSKI, D.W.
Director, Museum of Southwestern Biology, UNM, July–present.

HOFKIN, B.V.
Pre-veterinary undergraduate advisement

LOKER, E.S.
Department Chair

LOWREY, T.K.
Curator, Division of Herbarium, Museum of Southwestern Biology (MSB), UNM.

MARSHALL, D.L.
Director of curriculum implementation for the new Biology core curriculum, worked with faculty, publishers representatives, and representatives from other campuses.

Undergraduate advisor; all advising including declaration of major, degree checks and transfer evaluations. Met with university college advisors to coordinate advising for entering students.

MILLER, R.D.
Associate Chair

Co-Director, COBRE Center for Evolutionary and Theoretical Immunology (CETI)

MILNE, B.T.

Founding Director of the UNM Sustainability Program, which in 2005 moved to the College of Arts and Sciences. This effort included the submission of one proposal to the N.M. Energy, Minerals, and Resources Department. Extensive effort was spent to obtain $275,000 from the State Legislature during the 2006 session.

NATVIG, D.O.

Director, Sevilleta Long Term Ecological Research (LTER) Research Station, UNM, Socorro, NM.

NELSON, M.A.

Associate Chair, Fall 2003–Spring 2005
Director, Minority Access to Research Careers (MARC) Program, June 2005–present

POE, S.
Associate Curator, Division of Amphibian and Reptiles, Museum of Southwestern Biology, UNM.

SINSABAUGH, R.L.
Undergraduate Advisor

SNELL, H.L.
Curator, Division of Amphibians and Reptiles, Museum of Southwestern Biology
Advisor, Conservation Biology Concentration

STRICKER, S.A.
Associate Chair
Electron Microscopy Director

SWAN, J.
Coordinated the Anatomy and Physiology labs and Prosection.

THORNHILL, R.
Graduate Advisor

TURNER, T.F.
Curator, Division of Fishes, Museum of Southwestern Biology (MSB), UNM.

WERNER–WASHBURNE, M.
Principal Investigator and Director, Initiatives to Maximize Student Diversity (IMSD) program, 19 undergraduates, five graduate students, five staff; journal clubs each semester.

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.

BERGTHORSSON, U.
Fall: James Farslow, Honor’s Thesis (ongoing)

BROWN, J.H.
Alex Petrof, NSF REU student, mentored through the Santa Fe Institute, Santa Fe NM.

CADAV!D, L.F.
Cheng-man Lun, UNM Biology Major & Honors student, Summer 2004–present.

H-28
Undergraduate major Jolene Trujillo and I established an Ecological Society of America Strategies for Ecology Education, Development and Sustainability (SEEDS) chapter for the Department of Biology at UNM. SEEDS is an initiative of the Ecological Society of America to enhance undergraduate participation by members of under-represented groups in ecological research.

Andrea Chavez, REU/MEB
Ben Edinger, Regents' Scholar Student
Camille McLaren, REU
Randle McCain, REU
Kristin A. Moore, Paromyscus identification using genetics.
Krista Ortega, REU/MEB

Seven other undergraduate students are working under my supervision in MSB Mammal Division Collection

Phuong Nguyen, IMSD, January–December
Damian Trujillo, MARC, January–December; graduated in December Summa cum laude
Mike Ciura, May–December
Justin Lemmons, May–December
Cheryl Sensibaugh, September–December
Sherri Gonzales, January–June
Jennifer Ikle, January–May; graduated Magna cum laude and was "Biology Outstanding Undergraduate of the Year"

Kaveri Chaturvedi, Biol. 499, Undergraduate Problems
Maryn Eversole

Jayme Hall, field work
Maryn Eversole, Biol. 499, Undergraduate Problems

Biol. 499, Undergraduate Problems, Hannah Anderson, Jeb Brown
Alicia Hodson, REU student
Beth Bekling

Biol. 400, Senior Honors Thesis, Erin Schultz (on-going)
Beth Bekling

Sandra Brumburgh, Nicholas Card and April Lopez (Robert McNair Fellow)
April Lopez (Robert McNair Fellow) and Jonathan Trujillo (Initiative to Maximize Student Diversity [IMSD])
Fall: Jonathan Trujillo (IMSD)

NATVIG, D.O.
Fall: Biol. 400, Senior Honors Thesis, Amy Farrar (3 cr)
      Biol. 499, Undergraduate Problems, Alexandria Bachicha (3 cr), Laurilee Roybal (3 cr), Marisa Thompson (3 cr)

NELSON, M.A.
Spring: Elizabeth J. Elston and Ebany Martinez (Regents' Scholar), Senior Honors Thesis;
       Andrea Andersen, IMSD student
Summer: Gary Montry; Andrea Andersen, IMSD student;
Fall: Andrea Andersen, IMSD student

Co-advisor (with Renate Savich, UNM Medical School) on Elizabeth J. Elston's Senior Honors Thesis: "Vascular Endothelial Growth Factor mRNA Expression Is Decreased in Pulmonary Hypoplasia in the Fetal Rat Due to Oligohydramnios." Graduated May 2005, magna cum laude.


NORTHUP, D.E.
Donna Pham, January–June, 2005
Monica Moya, September–December, 2005
Kristina Dahm, science-fair project; she won first prize in her school’s competition.

POCKMAN, W.T.
Fall: Robin Globus, student employee
      Cathy McQueen, student employee
      Jen Plaut, volunteer
      Mariel Tribby, student employee
Summer: Will Gallin, student employee
      Cathy McQueen, student employee
      Mariel Tribby, student employee
Spring: Jeremiah Baumgartel, student employee
       Cathy McQueen, student employee
       Mariel Tribby, student employee

POE, S.
Erik Hulebak, Biol. 400, Senior Honors Thesis, and Biol. 499, Undergraduate Problems
Alexis Harrison, independent research
Heather Mac Innes, Biol. 499, Undergraduate Problems

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SINSABAUGH, R.L.
Spring: Biol. 499, Undergraduate Problems, Armida Carbajal (1 cr.), Sylvia Gonzalez (1 cr.)
Summer: Kylea Joy Odenbach and Kendra Pitts, hourly student researchers
Fall: Biol. 499, Undergraduate Problems, Kendra Pitts (2 cr.), Mina Sharifi (3 cr.)
Grace Esquivel, undergraduate research volunteer
Reader for David Stromberg, Honors Thesis ("Comparison of the Geochemistry and Associated Microbial Communities in Four North American Thermal Springs")

SNELL, H.L.
Spring: Allison Ross, Conservation Biology and Biol. 402.

TAKACS-VESBACH, C.D.


Olan Jackson-Weaver, Biology, American Society for Microbiology Undergraduate Research Scholarship 2005; expected completion May 2006.

Jennifer Pincus, accepted to and enrolled in UNM School of Medicine, 2005.

Nik Rae!, E&PS (L. Crosse), December 2005, B.S., "Phylogenetic Comparison of Microbial Communities from Near-neutral Thermal Springs." Currently working at Sandia Lab.

Kim Rogers, 2004-2005, continuing undergraduate work at UNM.

David Stromberg, Biology, B.S., December 2005, "Phylogenetic Comparison of Microbial Communities from Near-neutral Thermal Springs." Will begin medical school at UNM in the fall.

THORNHILL, R.
Fall & Spring: Biol. 499, Undergraduate Problems, 9 students

TURNER, T.F.
Tamara Max, REU student, "Life History of Flathead Chub"; "Genetic Analysis of Rio Grande & Pecos River Fishes."

Christine Cooper, undergraduate research associate, "Genetic Analysis of Rio Grande and Pecos River Fishes."

James Sandoval, graduate student of M. Werner-Washburne, sponsored IMSD rotation through the lab, "Analysis of Mhc Variation in Rio Grande Fishes."
Christine Poandl, work-study student, Division of Fishes, MSB.

VOGEL, K.G.
Spring: David Estes, Biol. 499, Undergraduate Problems (with Richard Larsen)
Fall: Gina Ryan

WERNER–WASHBURNE, M.
Myrriah Chavez, Jason Padilla Jarao and Kristi Mascarenas, Initiatives to Maximize Student Diversity (IMSD) students (19 undergraduates) and five graduate students.

Mentor for Christina Takacs–Vesbach, Assistant Professor

WOLF, B.O.
Casey Gilman, 2005–present
Sean Rix, 2005–present
Valerie Torres, NSF REU, Summer
Ola Verplough, Summer
Alex Washburne, NSF REU, Summer

G. Other Teaching Activities.

BROWN, J.H.
Post-doctoral mentor: Anna Davidson, Christine Hice, Craig R. McClain, Melanie Moses, Jeffrey Nekola.

COLLINS, S.L.
With undergraduate major Jolene Trujillo, organized two meetings of our ESA Strategies for Ecology Education, Development and Sustainability (SEEDS) chapter and serve as the faculty mentor to our local chapter.

COUCH, L.
Ad hoc co-instructor for Biology 461, Introduction Tropical Biology.

COUNCIL–GARCIA, C.L.
Instruction of TAs teaching Non-majors labs (Biol. 112), Health-majors labs (Biol. 124), and Biology Majors core discussions and labs (Biol. 201, 202, 203 & 204).

CUNNINGHAM, C.
Serve on the graduate committees of two Ph.D. students at the Medical University of South Carolina, Charlestown SC.

DAHM, C.N.
Water Resources 598, Professional Project, 2 graduate students mentored (Gary Stansifer and Jeanine McGann, Water Resources Program, University College, UNM).
HOWE, K.A.
Provided outside exam reviews for all classes. There were at least two review sessions for every exam for each class.

LOKER, E.S.
Mentor for the following post-doctoral associates working in my lab:

Drs. Coen Adema, Sara Brant, Ben Hanelt, Lynn A. Hertel, Michelle Steinauer, Si-Ming Zhang and Yong Zheng

Supervise technician Ms. Elizabeth Hatton in my lab.

MILNE, B.T.
Table at Second Annual Sustainability Festival, Student Union Building, UNM, November 11.

Mentored Kyle Farris, high school student.

NATVIQ, D.O.

Spring: Biol. 551, Research Problems, Andrea Porras-Alfaro (2 cr)
Biol. 699, Dissertation, Amy Ditto (6 cr)
Biol. 699, Dissertation, Joslyn Garcia (6 cr)

Fall: Biol. 551, Research Problems, Andrea Porras-Alfaro (6 cr)
Biol. 551, Research Problems, Kendra Lipinski (5 cr)
Biol. 699, Dissertation, Amy Ditto (6 cr)
Biol. 699, Dissertation, Joslyn Garcia (6 cr)

NELSON, M.A.

Spring: Biol. 400, Senior Honors Thesis, 2 students
Biol. 499, Undergraduate Problems, 7 students
Biol. 699, Dissertation, 1 student

Summer: Biol. 699, Dissertation, 1 student

Fall: Biol. 499, Undergraduate Problems, 2 students
Biol. 699, Dissertation, 1 student

NORTHUP, D.E.

Organized and implemented a three-week summer research internship for two Sandia Preparatory School students (Ian McMillan and Tom Wills), July–August.

POCKMAN, W.T.

Summer: Taught a graduate course on plant physiological ecology and stress tolerance at Universidad de Buenos Aires, Argentina, funded by Fulbright Senior Specialist Award.

SINSABAUGH, R.L.

Member of 10 graduate-student advisory committees.
SWAN, J.
Taught Biol. 402, 502 and 551 courses in advanced dissection and anatomy mentoring.

TAKACS-VESEBACH, C.D.
"Life in Extreme Environments," two-part guest lecture for the Masters in Science Education Program at Montana State University, Bozeman MT, June.

Mini-Phylogenetics Workshop, 3-hour lecture and workshop for the Thermal Biology Institute, Montana State University, Bozeman MT, June.

THORNHILL, R.
Two lectures on evolution to students of Amy Biehl High School, Albuquerque, NM.

TURNER, T.F.
Guest Lecturer, "The Fishes of New Mexico," Biology of the Southwestern U.S., taught by Ursula Shepherd, Honors Program, UNM.

WERNER-WASHBURNE, M.
Organized Model Organism Database workshops, bringing in representatives from five major databases, March.

II. PUBLICATIONS.

A. Books Authored.

BROWN, J.H.

WAGNER, A.

B. Books Edited.

NELSON, M.A.
C. Chapters in Books or Major Synthetic Reviews.

COOK, J.A.

CRIPPS, R.M.

DAHM, C.N.


LOKER, E.S.

MILLER, R.D.

SINSABAUGH, R.L.


TAKACS-VESBACH, C.D.
Inskemp and T.R. McDermott, eds. Bozeman, MT: Montana State University Thermal Biology Institute. (Referred)

THORNHILL, R.

WAGNER, A.


WERNER-WASHBURNE, M.

D. Articles in Refereed Journals.

BERGTHORSSON, U.


BROWN, J.H.


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COOK, J.A.


COUCH, L.


CRIPPS, R.M.


CUNNINGHAM, C.


† Federation of European Biochemical Societies

DAHM, C.N.


Duszynski, D.W.


Hofkin, B.V.


Kodric-Brown, A.


Loker, E.S.


**LOWREY, T.K.**


**MARSHALL, D.L.**


**MILLER, R.D.**


NELSON, M.A.

NORTHUP, D.E.


POCKMAN, W.T.


POE, S.

SINSABAUGH, R.L.

SNELL, H.L.


STRICKER, S.A.
Stricker, S.A. In press. Structural reorganizations of the endoplasmic reticulum during egg maturation and fertilization. *Seminars in Cell Developmental Biology*.

THORNHILL, R.


TURNER, T.F.


VOGEL, K.G.


WAGNER, A.


WAIDE, R.B.


WERNER-WASHBURNE, M.


WOLF, B.O.

E. Book Reviews.

COUCH, L.

TOOLSON, E.C.

WERNER-WASHBURNE, M.

F. Articles in Non-scholarly Journals.

KODRIC-BROWN, A.
Pupfishes of Lake Chichancnab, publication of the Killifish Society in the Netherlands

G. Quasi-public Reports for Internal/External Circulation.

ALTENBACH, J.S.


Bat Use and Habitat Evaluation on the Silver City Courthouse Project. 2005. NM Abandoned Mine Lands Bureau.


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LOKER, E.S.

MILNE, B.T.

NATVIG, D.O.


TAKACS-VESBACH, C.D.

TURNER, T.F.

WAIDE, R.B.
Long-Term Ecological Research (LTER) Network Office, annual report to the National Science Foundation for DEB-0236154.


Annual Report of the Center for Research in Ecological Science and Technology 2005, annual report to the Dean, Arts and Sciences, The University of New Mexico.

Strategic Plan for the LTER Network Office, March 1.

Implementation Plan for the LTER Network Office, March 1.

World Conference on Ecological Restoration, Zaragoza, Spain, September.


H-46
Minutes of the Virginia Coast Reserve Coordinating Committee Meeting.


Minutes of the Long Term Studies Section of the Ecological Society of America.

Group on Earth Observations (GEO) Target Work Packet for Archiving Ecological Data, May.

Minutes of the Florida Coastal Everglades Coordinating Committee Meeting.

Final Report to the National Science Foundation for the Knowledge Network for Biocomplexity, April.

Annual Report to the National Aeronautics and Space Administration (NASA) for the Project: Caribbean Climate Studies, NASA EPSCOR PROJECT, Mechanical Engineering Department, University of Puerto Rico, Mayaguez PR.

WERNER–WASHBURN, M.
Evaluation of National Institute of General Medical Sciences (NIGMS) MORE programs for National Advisory General Medical Sciences (NAGMS) Council.

H. Abstracts (Refereed or Invited).

COOK, J.A.
"Reflections on a Northern Host/Parasite Bion: Beringia," International Mammalogical Congress, Sapporo, Japan, August.


"Interhemispheric Exchange of High Latitude Mammals," European Evolution Meetings, Krakow, Poland, August (with Amy Runck).

DAHM, C.N.

LOWREY, T.K.

NORTHUP, D.E.


POCKMAN, W.T.

SNELL, H.L.

TURNER, T.F.
Sucker Symposium, organized by the U.S. Forest Service, Walatowah Conference Center, Jemez Pueblo NM, October.


WERNER-WASHBURNE, M.


1. Abstracts (Contributed) (including Research Day abstracts of your students).

BERGTHORSSON, U.

CADAVID, L.E

COLLINS, S.L.
Five abstracts submitted for presentations and posters at the Annual Meeting of the Ecological Society of America, Montreal Canada, August.

COOK, J.A.


Cripps, R.M.


Dahm, C.N.


KODRIC-BROWN, A.


LOKER, E.S.


MILNE, B.T.


NATVIG, D.O.

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NELSON, M.A.


H-53
NORTHUP, D.E.


POCKMAN, W.T.


SINSABAUGH, R.L.


TAKACS-VESBACH, C.D.


National Park: Ecological convergence or isolation? Aquatic Science Meeting, Annual Meeting of the American Society of Limnology and Oceanography, Salt Lake City UT, February.


THORNHILL, R.


TURNER, T.F.


WERNER-WASHBURNE, M.


H-57
J. Other.

COOK, J.A.

COUNCIL–GARCIA, C.L.
Lab Manuals:


MILNE, B.T.


SNELL, H.L.
Produced a cover map for the new journal, Galápagos Research, previously titled Noticias de Galápagos.

III. RESEARCH PROJECTS OR OTHER CREATIVE WORK IN PROGRESS OR COMPLETED DURING PERIOD.

A. Grants and Contracts, Extramural and Intramural.

1. Submitted to all agencies in 2005.

BROWN, J.H.
“Program in Interdisciplinary Medical Sciences (PIBS)”; Howard Hughes Medical Institute (HHMI); J.H. Brown, E. Smith, S. Forrest, E. Bedrick, VM. Ntant Kenkre, and Eric S. Loker, co-PIs; $1,000,000, January 1, 2006–December 31, 2008.
COLLINS, S.L.

"Track 1, GK-12: E-MRGE: Ecohydrogeology in the Middle Rio Grande Environment"; S.L. Collins, PI, L. Crosse and D. Earick, co-PIs; National Science Foundation (NSF); $1,663,165, May 1, 2006–April 30, 2009. (Funded with April 2006 start date.)


"Collaborative Research: Convergence and Contingencies in Savanna Grasslands"; A. Knapp, J. Blair, M. Smith and S.L. Collins, co-PIs; NSF; $830,000 (UNM portion = $60,000), September 1, 2005–August 31, 2008.


Co-PI on three other proposals submitted to NSF and declined (PI: Wolf; PI: Hughes; PI: Gillooly).

Co-PI on a proposal submitted to the USFS Rocky Mountain Research Station (declined).

COOK, J.A.

"Species of Concern in Alaska"; J.A. Cook, PI; Alaska Department of Fish and Game, UAA; $17,000, May–December 2005.

"REU Supplement"; J.A. Cook, PI; National Science Foundation; $15,000, May–December 2006.


"Genetic Footprints of Expansion: Signals for Refugia in Amazonia and Boreal North America"; J.A. Cook, PI; National Science Foundation; $604,891. Declined.

"Postdoctoral Training in Hantavirus Ecology"; G. Mertz (UNM SOM), PI, and J.A. Cook, co-PI and mentor; NIH, Fogarty International Center; $1,114,000, September 2006–September 2010, $200,000/year. Pending.
Cripps, R.M.

"Genetic Regulation of Muscle Fiber Diversity—GM061738"; R.M. Cripps, PI; NIH/NIGMS; $1,525,000 (includes IDC), May 1, 2006–April 30, 2011, —$300,000/year (includes IDC). This is a competitive renewal of an existing award (see below).

"Genetic Control of Heart Cell Fate": R.M. Cripps, PI; March of Dimes Birth Defects Foundation; $271,601 (includes IDC), June 1, 2006–May 31, 2009, —$90,000/year (includes IDC).

Dahm, C.N.


Duszynski, D.W.

"Collection Enhancement and Databasing at the Museum of Southwestern Biology Division of Arthropods"; NSF, BRC #0544820; $137,000. Rank: Meritorious, not funded.

Kodric-Brown, A.


Loker, E.S.

"Biology of Trematode–Snail Associations"; E.S. Loker, PI; National Institutes of Health; $1,125,000, March 1, 2006–February 28, 2011.

Lowrey, T.K.

"Phylogeography of Ocotillo (Fouquieria splendens) in North America"; T.K. Lowrey, PI, J. Redfern, co-PI; Dissertation Improvement Grant, National Science Foundation; $9,253.

"REV SYS: Systematic Revision of Pteronia (Asteraceae) in Southern Africa"; T.K. Lowrey, PI; Revisionary Studies in Systematics Program, National Science Foundation; $388,664.

"UBM: Mathematical and Statistical Basis of Genealogical Approaches to Evolutionary Questions"; Laura Salter, PI, T.K. Lowrey, co-PI; Undergraduate Research in Biology and Mathematics Program, National Science Foundation; $891,692.

Marshall, D.L.

MILLER, R.D.

"Marsupial Immunobiology"; R.D. Miller, PI; National Science Foundation (NSF); $856,276, February 1, 2006–January 31, 2011. Reviewed by two NSF panels: rated "Outstanding" by one, and "High Priority" by the other, but not funded.

"Wavelength Dependent Mechanisms in Melanogenesis"; G. Timmins (UNM School of Pharmacy), PI, R.D. Miller, co-PI; National Institutes of Health (NIH); $1,125,000, July 1, 2006–June 30, 2011.

MILNE, B.T.

"Clean Energy NM"; B.T. Milne, PI; N.M. Energy, Minerals and Natural Resource Department; $153,171, September 2005. (Not funded.)

NATVIG, D.O.

"Identify Potential Cause of Mortality: Linkage of Blue-Stain Fungi and Bark Beetles," Natvig section of proposal; N.S. Cobb, P.L. Ford and D.O. Natvig, PIs; U.S. Forest Service "Impact of a Mega-Drought and Bark Beetle Outbreak on Piñon-Juniper Woodland Ecosystems in the Middle Rio Grande Basin"; Natvig: $10,000.

NELSON, M.A.

"Undergraduate Biomedical Research Training at UNM"; R. Dasenbrock, PI, M.A. Nelson, Program Director; National Institutes of Health; $1,756,576, June 1, 2006–May 31, 2011, direct costs—Year 1: $308,330. This proposal received an excellent priority score (154) and we will receive notice of funding within the next two months.

NORTHUP, D.E.


"Collaborative Research: Microbial Biosignatures in Carbonate Cave Pool Precipitates"; D.E. Northup, M.N. Spilde and L.J. Crossey, co-PIs; NSF Geosciences Directorate; $180,000, not funded.

"Collaborative Research: Identification of Microbial Signatures in Biogenic Cave Ferromanganese Deposits. REU Supplement"; D.E. Northup, PI; NSF Geosciences Directorate; $5,000, pending.


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POCKMAN, W.T.

"Consequences of Drought-induced Mortality in Piñon-Juniper Woodland"; M.E. Litvak, W.T. Pockman and N.G. McDowell, co-PIs; DOE-EPSCOR; $441,000, October 1, 2005.


POE, S.

"Collaborative Research: Comparative Study of Adaptive Radiation and Evolutionary Diversification in Mainland and West Indian Anolis Lizards"; S. Poe, PI; National Science Foundation; $197,000. Declined.

SINSABAUGH, R.L.

"Characterization of Fungal Symbionts of Arid Grasses." Research Opportunity Award supplement to "The Nitrogen Cycle of a Semi-arid Grassland: A Fungal Loop?" to support Jose Herrera, visiting scientist from Truman State University; R.L. Sinsabaugh, PI; NSF Ecosystem Studies, DEB 0516113; $120,000, March 1, 2006–July 2006, $24,000.

SNELL, H.L.


"Linking People with New Mexico’s Amphibians and Reptiles”; H.L. Snell and J.T. Giermakowski, PIs; N.M. Department of Game & Fish Share With Wildlife Program; $14,977, January–July 2006.

TURNER, T.E

"Dissertation Research: Local Adaptation and Gene Flow in a Fragmented Host System: Crepidostomum farinosis (Digenea) and Oncorhynchus clarki virginalis (Salmonidae) in New Mexico”; T.E. Turner, PI, and W. Wilson, co-PI; National Science Foundation; $11,958, May 30, 2006–April 30, 2008, $6,000/year.


WOLF, B.O.


2. Awarded with 2005 initial start date.

ALTENBACH, J.S.

"Evaluation of Abandoned Mines in New Mexico for Bat Use and Bat Habitat”; J.S. Altenbach, PI; New Mexico Energy Minerals and Natural Resources, Abandoned Mile Lands Bureau; $60,000, July 1, 2005–June 31, 2009.

BROWN, J.H.

"Program in Interdisciplinary Medical Sciences (PIBS)”; Howard Hughes Medical Institute (HHMI); J.H. Brown, F. Smith, S. Forrest, E. Bedrick, VM. Nitant Kenkre, and Eric S. Loker, co-Pis; $1,000,000, January 1, 2006–December 31, 2008.

COLLINS, S.L.


"Collaborative Research: Convergence and Contingencies in Savanna Grasslands"; A. Knapp, J. Blair, M. Smith and S.L. Collins, co-PIs; NSF; $830,000 (UNM portion = $60,000), September 1, 2005–August 31, 2008.

"LTREB: Long-term Ecosystem Responses to More Extreme Precipitation Patterns and Warning"; J. Blair (Kansas State University), PI; A. Knapp (Colorado State University), P. Fay (University of Minnesota–Duluth), S.L. Collins and M. Smith (Yale), co-PIs; NSF; $300,000, May 1, 2005–April 30, 2010.

Co-PI on a $10K UNM RAC award with PIs in Earth & Planetary Sciences (Wawrzyniec).

COOK, J.A.

"Species of Concern in Alaska"; J.A. Cook, PI; Alaska Department of Fish and Game, UAA; $17,000, May–December 2005.

"REU Supplement"; J.A. Cook, PI; National Science Foundation; $15,000, May–December 2006.


CRIPPS, R.M.

"Genetic Regulation of Cell Fate in the Drosophila Heart—HL080545"; R.M. Cripps, PI; NIH/NHLBI; $1,325,000 (includes IDC), April 1, 2005–March 31, 2010, ~$265,000/year (includes IDC).

CUNNINGHAM, C.

"Evolution of Ikaros: An Essential Transcription Factor for Immunity"; C. Cunningham, PI; Medical University of South Carolina; $15,000, April 1, 2005–March 31, 2006, $15,000.

DAHM, C.N.


"New Mexico Nanotechnology, Education, and Water (NM NEW)"; multiple PIs with J.R. Gosz as lead, C.N. Dahm as a project leader on the hydrology component, New Mexico
EPSCoR proposal to the National Science Foundation; $6,750,000, May 1, 2005–April 30, 2008. I direct the ET measurement portion at UNM, which receives $464,677 from NSF and $408,795 of cost-share from the State of New Mexico and UNM; I also serve as one of the three overall directors of the “Water” portion of this statewide project.

KODRIC-BROWN, A.


LOKER, E.S.


LOWREY, T.K.

“Holocene Fire and Vegetation Change in the Sacramento Mountains, New Mexico”; T.K. Lowrey and G. Meyer (Department of Earth and Planetary Sciences), co-PIs; Research Allocation Committee, UNM; $10,000, March 1–September 30, 2005.


MARSHALL, D.L.


MILNE, B.T.


NORTHUP, D.E.

POCKMAN, W.T.

SINSABAUGH, R.L.


SNELL, H.L.
"Development of a Distributed Information Network of North American Herpetological Databases"; H.L. Snell, PI; NSF subcontract from University of Kansas; $30,734, October 2005–October 2006, Year 1: $5,000, Year 2: $25,734.

TAKACS-VESBACH, C.D.

TURNER, T.F.

WERNER-WASHBURNE, M.
Supplement for Donald Benn, Post-doctoral Fellow from National Institute of General Medical Sciences (NIGMS).

3. In force from previous years.

ALTERNBACH, J.S.

BROWN, J.H.


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 Center of Biomedical Research Excellence (COBRE) Program; $12,000,000, September 2003–September 2008.

COLLINS, S.L.


COOK, J.A.


“Inventory of SWAN Parks II”; J.A. Cook, PI; National Park Service; $76,176, September 2004–December 2005, $71,000/year.

Idaho State University:

“Undergraduate Mentoring Environmental Biology Program”; J.A. Cook, co-PI, with five Idaho co-PIs; National Science Foundation; $391,000, September 2003–September 2006, $120,000/year.


“Modeling for Detection of Bioterrorism & Human Hantavirus Immune Plasma for Sin Nombre Virus and Andes Virus”; G. Mertz (UNM SOM), PI, and J.A.Cook, co-PI; NIH NIAID (UNM/Chile/Panama) 5U19AI045452-S; $600,000, September 2004–July 2005.
"Molecular Genetics of Coastal and Insular Mammals"; J.A. Cook, PI; U.S. Fish and Wildlife Service; $39,000, December 2004–September 2007, $20,000/year.

CRIPPS, R.M.

"Genetic Regulation of Muscle Fiber Diversity"; R.M. Cripps, PI; National Institutes of Health; $1,050,000 (includes IDC), May 1, 2001–April 30, 2006, $210,000/year (includes IDC).

"Transcriptional Control of Muscle Remodeling in Drosophila"; R.M. Cripps; Muscular Dystrophy Association; $238,000, July 1, 2003–June 30, 2006, $80,000/year.

CUNNINGHAM, C.

"Ernest F. Hollings Visiting Scholarship"; C. Cunningham, PI; Hollings Marine Laboratory, Charleston, SC; ~$150,000, May 2004–August 2005, ~$85,000.

DAHM, C.N.


"Nitrate Uptake and Retention in Streams: Mechanisms and Effects of Human Disturbance from Stream Reaches to Landscapes"; C.N. Dahm, PI; subcontract from the University of Tennessee on a National Science Foundation award; $138,751, January 1, 2002–December 31, 2006.

"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, PIs; $2,699,289; National Science Foundation; January 1, 1999–December 31, 2005. I am the leader of the subcontract for $1,242,500 to the University of New Mexico.


“Occurrence and Fate of Pharmaceuticals and Healthcare Products in Wastewater and Groundwater”; C.N. Dahm and M.C. Martinet, PIs; N.M. Water Resources Research Institute; $5,000, October 1, 2003–June 30, 2005.

KODRIC-BROWN, A.


“Hybridization in Pecos Pupfish”; A. Kodric-Brown, PI; N.M. Game and Fish; $1,100, June 1, 2004–June 30, 2005.

“Coexistence Between Two Species of Gambusia” (Daniella Swenton’s research); A. Kodric-Brown, PI; N.M. Game and Fish; $12,000, July 1, 2004–June 30, 2007.

LOKER, E.S.

“Biology of Trematode–Snail Associations”; E.S. Loker, PI; NIH, RO1 AI24340-14-18; $830,662; February 1, 2000–January 31, 2005.


Evo-epidemiology of Schistosoma mansoni in Western Kenya”; E.S. Loker, PI; National Institutes of Health; $1,497,748, April 1, 2004–March 31, 2009.

LOWREY, T.K.


MARSHALL, D.L.

MILLER, R.D.

"COBRE Center for Evolutionary and Theoretical Immunology"; E.S. Loker, PI, R.D. Miller; co-PI; NIH; $10,572,012, September 30, 2003–June 30, 2008.

MILNE, B.T.

"Collaborative Research: Scaling and Allometry in River Networks: Coupling Rainfall, Topography and Vegetation with Hydrological Extremes"; B.T. Milne, PI; NASA (as subcontract through Univ. Colorado, Boulder); $87,000.

NATVIG, D.O.
"Collaborative Research: Signaling via Opsins and Opsin-Related Proteins in Fungi"; D.O. Natvig, PI; NSF (MCB-0078306); $270,000, August 1, 2000–July 31, 2005.


NORTHUP, D.E.
"Collaborative Research: Identification of Microbial Signatures in Biogenic Cave Ferromanganese Deposits"; D.E. Northup, M.N. Spilde, L.J. Crossey, C.N. Dahm and P.J. Boston, co-Pis, UNM (linked proposal with New Mexico Tech); National Science Foundation, Geosciences Directorate, Biogeosciences Competition; $470,000 total for both institutions, $291.6K (UNM), August 15, 2003–August 14, 2007, ~$70,000 (UNM).

POCKMAN, W.T.


SINSABAUGH, R.L.


SNELL, H.L.

Control Total de Especies Introducidas en Las Islas Galápagos; H. Negret, M. Patry, R. Bensted-Smith, H.L. Snell, A. Tye, J. Hernandez, E. Cruz and E Espinoza, co-PIs; Global Environmental Fund (GEF); $18,000,000, April 2002–September 2006, $3,000,000/year.


TAKACS–VESBACH, C.D.

Research Funding: total awarded directly to UNM since 2002 = $550,122.

A Microbial Inventory of the Greater Yellowstone Ecosystem Thermal Features; C. Takacs-Vesbach, PI, A.-L. Reysenbach, co-PI; Biotic Surveys and Inventories, National Science Foundation; $354,359, August 2002–August 2006.

Collaborative Research: Hydrologic Controls over Biogeochemistry and Microbial Community; C. Takacs-Vesbach, PI, M. Gooseff (Colorado School of Mines) and J. Barret (Dartmouth) have collaborative grants; Office of Polar Programs, National Science Foundation; $160,747, July 2004–July 2007.

RCN: Geothermal Biology and Geochemistry in Yellowstone National Park; W. Inskeep (Montana State University), PI, C. Takacs-Vesbach, co-PI; Research Coordination Networks, National Science Foundation; $0 (no funds for UNM), September 2004–September 2009.
THORNHILL, R.

"Genetic Conflicts of Interest, Fluctuating Asymmetry and MHC"; S. Gangestad, PI, R. Thornhill, co-PI; NSF; $350,000, August 2002–August 2005, $60,000.

TURNER, T.F.

"CAREER: Museum-based Approaches to Ecology and Evolution of Aquatic Systems: An Integrated Research and Educational Program"; TE Turner, PI; National Science Foundation; $500,000, May 1, 2002–April 30, 2007, $100,000/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.

WAIDE, R.B.


"Developing the Spatial Data Workbench"; R.B Waide and J. Vande Castle, co-Pis; NSF–sub-award from the University of California–San Diego under the National Partnership for Advanced Computational Infrastructure; $405,700, October 1, 1997–January 31, 2005, $51,000/yr.

"Long-Term Ecological Research in the Luquillo Experimental Forest II"; R.B. Waide, PI; NSF sub-award from the University of Puerto Rico–Rio Piedras; $75,445, December 1, 2002–November 30, 2006, $18,500/yr.

"Science Environment for Ecological Knowledge (SEEK)"; W.K. Michener, PI; NSF; $13,400,000, 2002–2007, $2,700,000/yr.

"Characterizing Forest Structure for Assessments of Carbon Cycling and Biodiversity"; R.B. Waide, PI; NASA sub-award from the University of Maryland; $1,221,000; May 2005–April 2007, $46,495/yr.

WERNER-WASHBURN, M.

"Characterization of Quiescent and Non-quiescent Cells from Yeast SP Cultures"; M. Werner-Washburne, PI; NSF; $600,000; July 1, 2004–June 30, 2006.

"Supplement to Compendium Grant for Sonia Santa Anna Career Development Award"; M. Werner-Washburne, PI; $136,000; March 1, 2004–July 1, 2006, $68,000/year (direct costs).
“SACNAS Genomics Program” (for graduate student and faculty fellowships in genomics); M. Werner-Washburne, PI; $1,000,000; September 1, 2004–August 31, 2008, $250,000/year (direct costs)(through Society for Advancement of Chicanos and Native Americans in Science [SACNAS]).

“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.

“UNM–Initiatives to Maximize Student Diversity (IMSD)”; M. Werner-Washburne, Co-PI; National Institute of General Medical Sciences (NIGMS), NIH; $2,000,000, February 1, 2005–January 31, 2009, $535,000 per year (direct + indirect costs).

WOLF, B.O.

“Using Portable Ultrasonography to Quantify Life History Traits and Energetic Status of Small Animals in the Field”; B.O. Wolf, PI; National Science Foundation, Small Grant for Exploratory Research (SGER), Ecological and Evolutionary Physiology Panel, IIBN-0426764; $50,492, June 1, 2004–November 30, 2006.


B. Other.

BERGTHORSSON, U.

The Center for Evolutionary and Theoretical Immunology (CETI) mentee. Project: “The Spontaneous Rate of Gene Duplication and Deletion in a Model Organism, Caenorhabditis elegans.”

COUCH, L.

Continued work with Coccidia of the World database, web page (http://biology.unm.edu/biology/coccidia/home.html), and research.

NATVIG, D.O.

Constructed and maintained the wireless network connecting more than 30 research and webcam sites at the Sevilleta National Wildlife Refuge to the Internet.

IV. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES.

A. Invited or Plenary Talks at Professional Meetings, Workshops, Etc.

ALTENBACH, J.S.


BERGTHORSSON, U.

BROWN, J.H.


COLLINS, S.L.
Invited paper, “Modeling Vegetation Dynamics,” Annual Meeting of the Ecological Society of America (ESA), Montreal, Canada, August.


COOK, J.A.
“Reflections on a Northern Host/Parasite Biota: Beringia,” International Mammalogical Congress, Sapporo, Japan, August.


“Interhemispheric Exchange of High Latitude Mammals,” European Evolution Meetings, Krakow, Poland, August (with Amy Runck).

DAHM, C.N.

Invited talk, “Feedbacks and Linkages Between Physical and Biogeochemical Processes in Streams,” Aquatic Sciences Meeting, Salt Lake City UT, February 23.


LOKER, E.S.


LOWREY, T.K.


MILLER, R.D.


NELSON, M.A.


Co-Chair, Biological Applications of Genomic Sequence Data session, 23rd Fungal Genetics Conference, Asilomar CA, March 15-20.

NORTHUP, D.E.

Moderator of a session at the International Symposium on Subsurface Microbiology Meeting, Jackson Hole WY, 2005

Completed my two-year stint as a Waksman Foundation Microbiology Lecturer at the end of June 2005. See 2005 lectures given below.


Invited talk, "Shedding New Light on a Dark Topic: The Microbial Wonderland of Caves," Ohio Branch of the American Society for Microbiology, Delaware OH, April.


POCKMAN, W.T.


SNELL, H.L.


STRICKER, S.A.


TAKACS-VESBACH, C.D.


TURNER, T.F.


H-76

WAGNER, A.
Genopole Complexity Advanced Course, Evry, France
Institut Jacques Monod, Paris, France
Institut National de la Recherche Agronomique (INRA), Versailles, France
Department of Ecology and Evolutionary Biology, University of Arizona, Tucson AZ
Workshop “Stochastic phenomena in gene regulation,” Rice University, Houston TX
Biocomplexity Seminar, Department of Biology, UNM
Institut Curie, Paris, France
Spring School, “Modelisation De Systemes Biologiques Complexes,” Montpellier, France

WERNER-WASHBURNE, M.

B. Contributed Talks at Professional Meetings, Workshops, Etc.

BROWN, J.H.
National Center for Ecological Analysis and Synthesis (NCEAS) Microbial Biodiversity Working Group, Santa Barbara CA, April 29-May 2.
COOK, J.A.


KODRIC-BROWN, A.

MILLER, R.D.
Mammalian MHC. Eighth Annual Conference on Computational Genomics, Boston MA, November 9-12.


MILNE, B.T.


NORTHUP, D.E.


POCKMAN, W.T.


SINSABAUGH, R.L.


SNELL, H.L.

STRICKER, S.A.
“The Role of Tyrosine Kinases During Egg Maturation in Nemertean;” Friday Harbor Laboratories, Friday Harbor WA, July.

TAKACS-VESBACH, C.D.


THORNHILL, R.


TURNER, T.F.


WOLF, B.O.


C. Attendance at Professional Meetings, Workshops, Etc.

BERGTHORSSON, U.

Gordon Research Conference on Microbial Population Biology, Proctor Academy, Andover NH, July 17-22.

"The Road to Software Evolvability, Santa Fe Institute workshop, Santa Fe NM, June 23.


BROWN, J.H.
Exotics Working Group, National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara CA, January 17-19.

Microbial Biodiversity Working Group, National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara CA, April 29-May 2.

Ecology and Infectious Disease, 2005 Cary Conference, Institute of Ecosystem Studies, Millstone NY, May 3-5.

COLLINS, S.l.
Long-term Ecological Research (LTER) Executive Committee Meeting, February

Ecological Society of America, Montreal, Canada, August

LTER Coordinating Committee Meeting, September

COOK, J.A.
International Society of Biogeography Meetings, Shepherdstown WV, January.

Evolution and Systematic Biology Meetings, Fairbanks AK, June.

International Mammal Conference, Sapporo, Japan, August.

COUCH, L.
Southwest Association of Parasitologists, Lake Texoma OK, April.

American Society of Parasitologists, Mobile AL, June.

CRIPPS, R.M.
46th Annual Drosophila Research Conference, Genetics Society of America, San Diego CA, March 30-April 3

Weinstein Cardiovascular Meeting, Tucson AZ, May

CUNNINGHAM, C.

DAHM, C.N.
Sevilleta LTER Annual Symposium, Albuquerque NM and Sevilleta LTER Field Station, Socorro NM, January 7-8.


UNM/University of Alabama Freshwater Sciences IGERT Workshop, Tuscaloosa AL, February 10-12.

Aquatic Sciences Meeting, Salt Lake City UT, February 20-26.

Water Resources Research Conference, Tucson AZ, April 5-6.


International Ecohydrology of Streams and Rivers Workshop, Estes Park CO, June 8-11.

Annual Workshop of the Subsurface Microbiology IGERT Program (Oregon State University and Portland State University), Lincoln City OR, June 18-21.


Consortium of Regional Environmental Observatories (COREO) Conference, Kellogg Biological Station MI, November 21-23.

DUSZYNSKI, D.W.
Southwestern Association of Parasitologists Annual Meeting, Lake Texoma OK, April.

American Society of Parasitologists Annual Meeting, Mobile AL, July. Shortened by Hurricane Dennis.

HANSON, D.T.

Gordon Research Conference on CO2 Assimilation in Plants, Auros, France, September.

KODRIC-BROWN, A.
Animal Behavior 42nd Annual Meeting, Snowbird UT, August 6-10.

Desert Fishes Council Meeting, Cuatro Cienegas, Mexico, November 16-21.

LOKER, E.S.
NIH-sponsored Joint Filaria/Schistosome Genome Network Meeting, Bethesda MD, September 1-2.


American Society of Tropical Medicine and Hygiene, Washington DC, December 11-15.

LOWREY, T.K.
International Botanical Congress, Vienna, Austria, July.

MARSHALL, D.L.

MILLER, R.D.
Marsupial Genomics Workshop, Australian Museum, Sydney, Australia, January 11.

MILNE, B.T.
Annual Meeting of the U.S.-International Association for Landscape Ecology, Syracuse NY, March 12-16.

Southwest Sustainability Expo, Northern Arizona State, Flagstaff AZ, August 3-5.

NATVIG, D.O.
Mycological Society of America (MSA) Annual Meeting, Hilo HI, August.

Wireless Internet Network Operators Group (WiNOG) Wireless Conference, Park City UT, September.

NELSON, M.A.

NORTHUP, D.E.
American Society for Microbiology Annual Meeting, Atlanta GA, May.

National Speleological Society Annual Meeting, Huntsville AL, July.


POCKMAN, W.T.
Botanical Society of America Annual Meeting, Austin TX, August.

SINSABAUGH, R.J.
Sevilleta LTER Symposium, UNM Sevilleta LTER Field Station NM, January 7-8.


STRICKER, S.A.
Comparative Developmental Biology Meeting, Friday Harbor Labs, Friday Harbor WA, June.
SWAN, J.

THORNHILL, R.
Human Behavior and Evolution Society Annual Meeting, Austin TX, June 1-5.

TURNER, T.F.
Rio Grande Chub/Sucker Symposium, organized by the U.S. Forest Service, Walatowah Conference Center, Jemez Pueblo NM, October.

American Fisheries Society, Anchorage AK, September.

WERNER-WASHBURN, M.
National Institute of General Medical Sciences (NIGMS) MORE Directors' Meeting, Puerto Rico, June.

2005 Annual Meeting of the Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Denver CO, September.


Bioinformatics Symposium, UNM, Albuquerque NM, April.

WOLF, B.O.
Society for Integrative and Comparative Biology Annual Meeting, San Diego CA, January 4-8.

22nd Annual Physiological Ecology Meeting, Bishop CA, June 3-5.

75th Cooper Ornithological Society Meeting, Arcata CA, June 14-19.

D. Service as Editor of Scholarly Journal.

BROWN, J.H.
British Ecological Society Monographs
Evolutionary and Ecology Research
Journal of Biogeography

COLLINS, S.L.
Book Review Editor, Journal of Vegetation Science

KODRICK-BROWN, A.
Animal Behaviour

NATVIG, D.O.
Editor-in-Chief, Mycologia
NELSON, M.A.
Associate Editor, *Fungal Genetics and Biology*, 1998–

NORTHUP, D.E.
Museum of Southwestern Biology Publication Series, UNM.

SNELL, H.L.
Editorial board of *Galápagos Research* (formerly *Noticias de Galápagos*).

E. Service on Editorial Board of Scholarly Journal.

COLLINS, S.L.
*BioScience*
*Community Ecology*
*Journal of Ecology*

CUNNINGHAM, C.
*Developmental & Comparative Immunology*

LOKER, E.S.
*Developmental and Comparative Immunology*
*Invertebrate Biology*
*Journal of Helminthology*

MILLER, R.D.
*Immunogenetics* (Springer-Verlag)

NATVIG, D.O.
Chair, Editorial Board, *Mycologia*

NELSON, M.A.
*Functional & Integrative Genomics*, 1999–
*Applied Mycology and Biotechnology*, 2002–

NORTHUP, D.E.
*Geomicrobiology*
*International Journal of Speleology*

POCKMAN, W.T.
*Tree Physiology*

SINSABAUGH, R.L.
*Applied Soil Ecology*
Freshwater Biology
Soil Biology and Biochemistry

THORNHILL, R.
Evolution and Human Behavior
Proceedings of the Royal Society of London, Biological Sciences

WAGNER, A.
Advances in Complex Systems (2000–)
Bioessays (2004–)
BMC Bioinformatics (2004–)
Journal of Experimental Zoology/Molecular and Developmental Evolution (1999–)
Santa Fe Institute Publications (2002–)

WOLF, B.O.
Associate editor, Oecologia

F. Service as Officer of Professional Organization (indicate whether Elected or Appointed).

COLLINS, S.L.
Chair, Long-term Studies Section, Ecological Society of America (elected)
President, Association of Ecosystem Research Centers (appointed)
Member, Long-term Ecological Research (LTER) Coordinating Committee (national) (appointed)
Member, LTER Executive Committee (national) (elected)

COUCH, L.
Chair, Education Committee of the American Society of Parasitologists (appointed)
Nominating Committee, American Society of Parasitologists (elected)

DAHM, C.N.
President, North American Benthological Society (NABS), June 2004–May 2005 (elected). Also spent March 1-5, 2005 in Anchorage AK as president of NABS to review and finalize the 2006 annual meeting at the Egan Center in Anchorage, Alaska. I now serve as past-president and will present the Past-president Lecture at the annual meeting in June 2006.
DUSZYNSKI, D.W.
Scientific Program Officer, American Society of Parasitologists

HANSON, D.T.
Acting co-head of the Southwestern subsection of the Western Sectional Society of the American Society of Plant Biologists (appointed).

LOKER, E.S.
Member, Memorial Lecture Committee, American Society of Parasitologists (appointed)

LOWREY, T.K.
Past-President, International Organization of Plant Biosystematists

NATVIG, D.O.
Non-voting member, Executive Council, 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).

NORTHUP, D.E.
Board of Directors, Karst Waters Institute (appointed).

TURNER, T.F.
Board of Governors, class of 2007, American Society of Ichthyologist and Herpetologists (elected).

WERNER–WASHBURNE, M.
Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Program Committee

* SACNAS Genome Committee

WOLF, B.O.
Board of Directors, The Cooper Ornithological Society

V. OTHER PROFESSIONAL ACTIVITIES.

A. Seminar Presentations, UNM and Elsewhere.

BERGTHORSSON, U.

COBRE Center for Evolutionary and Theoretical Immunology (CETI) External Advisory Committee meeting, April 18.
COBRE Center for Evolutionary and Theoretical Immunology (CETI) lunch seminar, September 19.

COLLINS, S.L.
Brown Bag Seminar, Department of Biology, UNM, Spring

COOK, J.A.
"Beringia: Intercontinental Exchange and Diversification of High Latitude Mammals and Their Parasites During the Pliocene and Quaternary," Kansas State University, Manhattan KS, December.

CRIPPS, R.M.
"Transcriptional Control of Cardiac Development in Drosophila," DMD Research Center, UCLA, Los Angeles CA, March.

"Conserved Mechanisms of Muscle Development in Drosophila," Department of Physiology, University of Kentucky Medical School, Lexington KY, August.

"Transcriptional Regulation of Cardiac Development in Drosophila," "Muscling Through the Ages," University of Texas Southwestern Medical Center, Dallas TX, September.

CUNNINGHAM, C.

"Functional Characterisation of TGFβ Superfamily Receptor Genes in the Oyster Crassostrea gigas," Department of Biology, UNM, February.

DAHM, C.N.
Institute for Water and Watershed, Oregon State University, Corvallis OR, July 12.


Swiss Federal Institute for Environmental Science and Technology (EAWAG) Research Center, Dübendorf, Switzerland, December 20.

HANSON, D.T.
Invited seminar speaker, "Beyond CO₂ Consumption: Using Light and Isotopes to Measure Photosynthetic Variation," Department of Biology, Union College, Schenectady NY, February.

Invited seminar speaker, "Souping Up the 6400: Combining Gas Exchange with Spatial and Isotopic Measurements of Photosynthesis," Li-Cor Inc., Lincoln NE, March.

KODRIC-BROWN, A.
LOKER, E.S.


LOWREY, T.K.
"Systematics, Biogeography, and Evolution of Pacific Basin Astereae (Asteraceae): Evolutionary Biology of Peripatetic Daisies," Department of Biology, UNM, November.

MILNE, B.T.

"Biodiversity," Architecture & Planning Department, UNM, May.

"Prospectus for Sustainability Studies Program," presented to UNM Provost Reed Dasenbrock and VP for Research Terry Yates, August.

"Every Tree a Gauge: Allometric Ringlets and Self-similar Transpiration from Riparian Areas," National Science Foundation, Washington DC, November.

NELSON, M.A.
"A Romp in the Sac: Neurospora Sexual Development," Department of Biology, UNM, October 20.

NORTHUP, D.E.
"Geomicrobiology of Caves," Biology Department, Cornell University, Ithaca NY, October.

"Women in Cave Geomicrobiology," Women in Science Club, Ohio Wesleyan University, Delaware OH, April.

"Cave Geomicrobiology," microbiology class, Ohio Wesleyan University, Delaware OH, April.

POCKMAN, W.T.
IFEVA, Universidad de Buenos Aires, Argentina, June.

Department of Botany and Plant Sciences, University of California–Riverside, February.

Department of Biology, UNM, November.

POE, S.
SNELL, H.L.

TAKACS-VESBACH, C.D.
Invited seminar speaker, "Probing the Black Box: Diversity, Function, and Dynamics of Microbial Communities in Extreme Environments." Department of Biology, New Mexico State University, Las Cruces NM, March.

Invited seminar speaker, "Bacterial Diversity of Near-neutral Thermal Springs in Yellowstone National Park: Evidence of Isolation?" Thermal Biology Institute, Montana State University, Bozeman UT, April.

"The Nature of Microbial Diversity in Extreme Environments," Department of Biology, The University of New Mexico, October.

TURNER, T.F.
"Comparative Genetic Study Reveals Causes of Genetic Decline in the Rio Grande Silvery Minnow," Center for Riverine Landscapes, Griffith University, Brisbane, Australia, February.

"Ecological Determinates of Genetic Diversity in a Declining Fish Species, the Rio Grande Silvery Minnow," Centre for Water Research, University of Western Australia, Perth, Australia, April.

"Comparative Phylogeography of Abundant and Highly Migratory Prochilodontid Fishes (Characiformes: Prochilodontidae) in Rivers of Northern South America," University of Western Australia, Perth, Australia, May.

"Ecological Determinates of Genetic Diversity in a Declining Fish Species, the Rio Grande Silvery Minnow," Arthur Rylah Institute for Freshwater Ecology, Melbourne, Australia, May.

VOGEL, K.G.
Department of Orthopaedics, Washington University School of Medicine, St. Louis MO, October.

WOLF, B.O.
"Avian Community Ecology in a Hot Desert: Abiotic Drivers and Biotic Interactions," Department of Zoology, University of Oklahoma, Norman OK.

"Avian Community Ecology in a Hot Desert: Abiotic Drivers and Biotic Interactions," Department of Biology, University of Nevada, Reno NV.

H-92
B. Testimony in a Scholarly Capacity at Hearings of Commissions, Legislative Committees, Etc.

COLLINS, S.L.
Informal presentation to U.S. Congressional House science staffers regarding National Ecological Observatory Network (NEON) and Long-term Ecological Research (LTER) Planning activities, Washington DC, November.

COOK, J.A.


Presentation and discussion, "Natural History Collections and Wildlife Management Needs in New Mexico," N.M. Game and Fish Department, Santa Fe NM, October.

MILNE, B.T.
"Environmental Opinion Leader" for poll solicited by Jeff Burks, PNM Director of Environmental Sustainability, Albuquerque NM.

C. Presentation to General Audience in a Scholarly Capacity.

HANSON, D.T.

NORTHUP, D.E.

TOOLSON, E.C.

WOLF, B.O.
"Stable Isotopes and Desert Animals," four 8th-grade science classes, Eisenhower Middle School, Albuquerque NM.

D. Service in a Scholarly Capacity as Member of Local, State or National Panel, Committee, or Commission, for Purpose of Reviews of Public Policy Issues, Scientific Evaluations, Awards of Grants or Fellowships or Prizes, Etc.

ALTENBACH, J.S.
Advisor to the Nature Conservancy on the Lava Cave bat colony, Socorro Co., NM

Advisor to the Albuquerque Biological Park on bat use of their Rio Grande Bosque Holdings.
BERGTHORSSON, U.
Poster Judge, Annual Research Day, Department of Biology, UNM, April.

BROWN, J.H.
Santa Fe Institute Science Steering Committee, Santa Fe NM.

COLLINS, S.L.
Member, Ecological Society of America (ESA) Rapid Response Team on Grassland Ecosystems
Member, ESA Cooper Award Committee

COOK, J.A.
National Science Foundation reviews:
- Biotic Surveys (1)
- Systematic Biology (1)
- Population Biology (2)

Civilian Research and Development Foundation proposal review (1)

CONICYT/FONDECYT, Chile proposal (1)

CRIPPS, R.M.
Member, American Heart Association National Review Panel, Basic Cell and Molecular Biology, two study sections, two meetings in 2005.

Ad hoc member, National Institutes of Health Center for Scientific Review, Skeletal Muscle Biology and Exercise Physiology study section, three meetings in 2005.

Ad hoc member, National Institutes of Health Center for Scientific Review, Special Emphasis Panel on Cardiac Development, one meeting in 2005.

CUNNINGHAM, C.
Employed by the European Community to provide expertise in the awarding of grant support to consortia in the field of Aquaculture Research.

DAHM, C.N.
External advisory panel member, H.J. Andrews LTER Program, Corvallis OR.

External advisor, Subsurface Microbiology IGERT Program (Oregon State University and Portland State University), Lincoln City OR.

NEON Advisory Group; one of two representatives for the desert Southwest.


H-94
“Setting Minimum Flows and Levels for the Middle Peace River,” Southwest Florida Water Management District (SWFWMD), Tampa Bay FL, April 11-12.


Member, national Consortium of Regional Environmental Observatories (COREO) review panel for the NEON initiative, Kellogg Biological Station MI, November 21-23.

HANSON, D.T.
Grant Reviewer, National Science Foundation Molecular and Cellular Biosciences, Biomolecular Systems Program, 2 proposals.

Grant Reviewer, National Science Foundation Integrative Organismal Biology, Functional and Regulatory Systems Cluster, 1 proposal.

Identified bryophyte specimens for Dr. Ralph Ford Schmidt, Los Alamos National Laboratory, February.

HOFKIN, B.V.
City of Albuquerque Prairie Dog Task Force

KODRIC-BROWN, A.
Member, Animal Behavior Panel, National Science Foundation Panel, April 26-28.

LOKER, E.S.

LOWREY, T.K.
Member, New Mexico Rare Plant Technical Council
Ad hoc reviewer, National Science Foundation, 4 proposals reviewed
Ad hoc reviewer, National Geographic Society, 1 proposal reviewed

MARSHALL, D.L.
Panel member, Environmental Protection Agency Panel, reviewed EPA STAR fellowship applications, March.

Reviewed proposals for the USDA panel on the “Biology of Weedy and Invasive Species.”

MILLER, R.D.
Reviewer, 2005 International Reader, Australian Research Council Discovery Projects scheme grant applications.
MILNE, B.T.
Member, Steering Committee, Center for Advanced Studies, UNM (S. Prasad, chair)
Member, Steering Committee, Consortium of the Americas, UNM (N. Kenkre, chair)
Panelist, USDA Managed Ecosystems Panel (19 proposals reviewed)
Mentor Lunch, Annual Meeting of the U.S.–International Association for Landscape Ecology, Syracuse NY, March 12-16.
External referee for promotion of colleague at Duke School of the Environment.
Ad hoc NSF proposal review (1)

NELSON, M.A.
NIH COBRE Review Committee for UNM Medical School and Main Campus pre-proposals.

NORTHUP, D.E.
National Speleological Society Awards Committee, Science Award Sub-chair.

SINSABAUGH, R.L.
Member, Distinguished Soil Ecologist Selection Committee, Soil Ecology Society.

SNELL, H.L.
Member, N.M. Department of Game & Fish Non-Game Review Panel.
Member, The International Union for the Conservation of Nature and Natural Resources (IUCN) Iguana Specialists Group.
General Assembly Member, Charles Darwin Foundation for the Galápagos Islands, Quito, Ecuador.

TAKACS-VESBACH, C.D.
Reviewer, Australian Antarctic Division, National Science Foundation.

THORNHILL, R.
Evaluation of Distinguished Professor applicants for Vice Provost, UNM.

H-96
TURNER, T.F.
Advisor, Genetics Issues, Rio Grande Fishes Recovery Team
Reviewer, Headwater Chub Listing Document, N.M. Department of Game & Fish
Member, Gila Trout (Oncorhyncus gilae) Recovery Team, 2002–present.
Ad-hoc reviewer, National Science Foundation, research proposals in Systematics, Population Biology, and Ecology, two proposals reviewed.

WERNER–WASHBURN, M.
The National Human Genome Research Institute (NHGRI), NIH, Grant Review Panel
National Institute of General Medical Sciences (NIGMS), NIH, MORE Advisory Panel

E. List Journals and the Number of Papers You Refereed for Each in 2005.

ALTEBACH, J.S.
Mammalian Species, Leptonycteris yerbabuenae.

BERGTHORSSON, U.
Proceeding of the National Academy of Sciences USA (2)
Science (1)

BROWN, J.H.
Evolutionary Ecology Research (4)
Functional Ecology (2)

COLLINS, S.L.
American Midland Naturalist
American Naturalist
BioScience
Community Ecology
Ecological Applications
Ecology (2)
Ecology Letters (2)
Ecosystems
Journal of Applied Ecology
Journal of Arid Environments
Journal of Vegetation Science
Oecologia
Plant Ecology
Proceedings of the National Academy of Sciences
Restoration Ecology
Science

NSF Proposals (3)
Prepublication Book Review for Oxford University Press (1)
Review of the NEON Integrated Science and Education Plan (1)

COOK, J.A.
Evolution (1)
Journal of Mammalogy (1)
Molecular Ecology (4)
Molecular Phylogenetics and Evolution (1)

COUCH, L.
Journal of Parasitology (1)

CRIPPS, R.M.
Biochemical Journal (1)
Brain Research (1)
Developmental Biology (1)
Genetics (1)
Journal of Comparative Physiology B (1)
Proceedings of the National Academy of Sciences (1)

CUNNINGHAM, C.
Developmental and Comparative Immunology (10)
FEBS Letters (1)
Journal of Endocrinology (1)

† Federation of European Biochemical Societies

DAHM, C.N.
Ecosystems (1)
Freshwater Biology (2)
Journal of Ecology (1)
Journal of the American Water Resources Association (2)
Limnology and Oceanography (1)
Nature (1)

DUSZYNSKI, D.W.
Acta Protozoologica (1)
Folia Parasitologica (2)
Journal of Parasitology (1)
HANSON, D.T.
*Planta* (2)

HOFKIN, B.V.
*American Society of Tropical Medicine & Hygiene* (1)
*Oxford Research Forum* (2)

KODRICK-BROWN, A.
*American Naturalist* (2)
*Animal Behaviour* (29)
*Behaviour* (2)
*Behavioral Ecology* (1)
*Behavioral Ecology and Sociobiology* (2)
*Biological Journal of the Linnean Society* (1)
*Environmental Biology of Fishes* (2)
*Proceedings of the National Academy of Sciences* (1)
*Proceedings of the Royal Society of London B* (3)
*Science* (1)

LOKER, E.S.
*Developmental and Comparative Immunology* (1)
*Journal of Parasitology* (1)
*Science* (1)

LOWREY, T.K.
*Australian Journal of Systematic Botany* (1)
*Sida* (1)
*Systematic Botany* (1)

MARSHALL, D.L.
*American Journal of Botany* (2)
*American Naturalist* (1)
*Annals of Botany* (1)
*Canadian Journal of Botany* (2)
*Ecology* (1)
*Evolutionary Ecology Research* (1)
*Journal of Ecology* (1)
*New Phytologist* (1)
*Oikos* (1)
*Seed Science Research* (1)
*Western North American Naturalist* (1)

MILLER, R.D.
*Developmental and Comparative Immunology* (2)
*Immunogenetics* (14)
Journal of Immunology (3)

MILNE, B.T.
Advances Water Research (2)
Nature (1)
Remote Sensing of Environment (1)

NATVIG, D.O.
Mycologia (5)

NELSON, M.A.
Eukaryotic Cell (1)
Fungal Genetics and Biology (4)

AAAS research proposals (2)
USDA research proposal (1)

NORTHUP, D.E.
Geomicrobiology Journal (1)
Journal of Cave and Karst Studies (1)
Microbiology Ecology (1)
Naturwissenschaften (2)
Trends in Microbiology (1)

POCKMAN, W.T.
Ecological Monographs (1)
Global Change Biology (1)
International Journal of Plant Science (1)
Journal of Experimental Botany (1)
Journal of Arid Environments (2)
New Phytologist (1)
Physiologia Plantarum (1)
Plant and Soil (1)
Plant Cell and Environment (2)
Plant Ecology (1)
Tree Physiology (1)

POE, S.
Journal of Herpetology (1)
Systematic Biology (1)

SINSABAUGH, R.L.
Applied Soil Ecology (7)
Biogeochemistry (1)
Ecology (1)

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Estuarine and Coastal Shelf Science (1)
Freshwater Biology (1)
Journal of Environmental Quality (1)
Microbial Ecology (2)
Soil Biology and Biochemistry (7)

SNELL, H.L.
Noticias de Galápagos (2)

STRICKER, S.A.
Developmental Biology (2)
Invertebrate Biology (1)
Molecular Reproduction and Development (2)

TAKACS-VESBACH, C.D.
Geobiology (2)
International Microbiology (1)

TURNER, T.F.
American Naturalist (1)
Canadian Journal of Fisheries and Aquatic Sciences (1)
Conservation Genetics (2)
Ecology (1)
Journal of Fish Biology (1)
Oecologia (1)

VOGEL, K.G.
Journal of Orthopaedic Research (2)
Matrix Biology (1)

Proposals reviewed:
> Medical Research Council of Canada (1)
> Medical Research Council of Great Britain (1)

WAGNER, A.
Reviewed 20 papers for scientific journals.

WERNER-WASHBURNE, M.
Genome Biology (1)
Nucleic Acids Research (1)

WOLF, B.O.
Journal of Zoology (1)
Oecologia (1)
Physiological and Biochemical Zoology (1)

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VI. NON-TEACHING UNIVERSITY, COLLEGE AND DEPARTMENT SERVICE.

A. Symposia, Workshops, Conferences, Etc., Sponsored, Hosted, Organized.

BROWN, J.H.

COLLINS, S.L.
Organized and ran the Association of Ecosystem Research Centers (AERC) Annual Meeting in Washington DC, November.

Organized the annual Ecological Society of America Strategies for Ecology Education, Development and Sustainability (SEEDS) workshop, UNM and Sevilleta National Wildlife Refuge, Socorro NM, November.

Coordinating the development of a new research agenda for the Long Term Ecological Research (LTER) network. Responsible for organizing and running planning workshops, including meetings in June (more than 60 participants) and November (28 participants).

LOKER, E.S.
NIH COBRE CETI External Advisory Meeting, ?, April.

MILLER, R.D.
Opossum Major Histocompatibility Complex Workshop, Santa Fe Institute, Santa Fe NM, April 24-26.

MILNE, B.T.
“Sustainability in Action Event: Your Ecological Footprint,” Smith Plaza, UNM, April 20. Included displays by students, tables for non-profit organizations and UNM recycling, live music, veggie car demonstrations, video recording.

Co-organizer, Energy Panel Discussion, Visionary and Practical Solutions for Restoring the Earth and People, N.M. Bionners Conference, Student Union Building, UNM, October 15-16.

SINSABAUGH, R.L.
Organized a joint lab meeting with Jayne Belnap’s desert ecology research group, USGS, Moab UT, August 4-6, six UNM participants.

Fall: Co-organized a special session, Dissolved Organic Carbon Export from Terrestrial Ecosystems, for the 2006 Annual Meeting of the American Society of Limnology and Oceanography, to be held June 4-9, Victoria, BC, Canada.
THORNHILL, R.

Human Evolutionary Behavioral Sciences Lecture Series each semester (3–5 speakers per semester from inside and outside UNM)

WERNER-WASHBURN, M.

Program Committee, 2005 Annual Meeting of the Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Denver CO, September.

Organized “Model Organism Database” workshop, UNM, April.

B. Distinguished Departmental Visitors You Hosted.

COLLINS, S.L.

Melinda D. Smith, Assistant Professor, Department of Ecology and Evolutionary Biology, Yale University

Sara G. Baez, Adjunct Assistant Professor, Department of Plant Biology, Southern Illinois University, Carbondale

Alan K. Knapp, Professor, Department of Biology, Colorado State University, Ft. Collins

COOK, J.A.

Dr. Scott Edwards, Professor of Evolutionary Biology, Harvard University and Museum of Comparative Zoology

Dr. Eric Hoberg, Chief Curator, U.S. National Parasite Collection and Animal Parasitic Disease Laboratory, Agricultural Research Service, USDA, Beltsville MD

Dr. Enrique Lessa, Professor of Evolution, Universidad de la Republica, Montevideo, Uruguay

DAHM, C.N.

Delegation of Jordanian scientists (ET Research), February 2.

Delegation of EPSCoR scientists, University of Idaho, September 1.


Dr. Margaret Leinen, NSF Geosciences Director, November 5-6.

Delegation of Mongolian researchers and Dr. Clyde Goulden (ET Research), November 10.

HANSON, D.T.

Dr. Eric Singsaas, University of Wisconsin–Stevens Point, UNM Department of Biology seminar speaker, January.
Hosted National Science Foundation Strategies for Ecology Education, Development, and Sustainability (SEEDS) students. Lab tour and research discussion, November.

LOKER, E.S.
Dr. Alan Perelson, Los Alamos National Laboratory; Los Alamos NM, January 25.

MARSHALL, D.L.
Dr. Kevin Rice, University of California–Davis, seminar speaker; Spring

MILLER, R.D.
Dr. Kathy Belov, University of Sydney

Dr. Janine Deakin, Australian National University

Prof. Jennifer Marshall Graves, Australian National University

Dr. Tony Papenfuss, Walter & Eliza Hall Institute, University of Melbourne, Melbourne, Australia

MILNE, B.T.
Dr. Mario Biondini, North Dakota State University, Department of Animal and Range Sciences, North Dakota State University, Fargo ND

Dr. Brian Fath, Assistant Professor of Biological Sciences, Towson University, Towson MD

NATVIG, D.O.
Professor Joan Bennett, Dept. Cellular and Molecular Biology, University of Delaware, who presented a seminar to the Fungal Genomics class, Spring.

NELSON, M.A.
Hosted seminar speaker, Manjula Govindarajulu, “Nitrogen Metabolism and Gene Regulation in an Arbuscular Mycorrhizal Fungus, Glomus intraradices.”

NORTHUP, D.E.
Dr. Leslie Melim, Western Illinois University, during her sabbatical, Fall.

SINSABAUGH, R.L.
Tracy Garner, University of California, Irvine CA, January 3-10.
Rebecca McIntyre, University of West Australia, June 1-11.
Josh Allman, USGS, Moab UT, June 20-21.
Leslie A. Brandt, University of Minnesota, St. Paul MN, July 20-25.

WERNER–WASHBURNE, M.
Spring: Linda Breeden, Fred Hutchinson Cancer Research Center, Seattle WA
C. Committee Service.

1. Departmental committees served on in 2005 (indicate chair with asterisk).

ALTENBACH, J.S.
Undergraduate Policy Committee

CADAVID, L.F.
*Biology Honors Committee

COLLINS, S.L.
*Graduate Student Selection Committee

COOK, J.A.
*Ornithologist Faculty Search Committee
Member, Comparative/Evolutionary Immunology Faculty Search Committee, 2004–05
Member, Board of Curators, Museum of Southwestern Biology

COUCH, L.
*Graduation Committee
Lecturer Search Committee
Undergraduate Advising Committee
Display Case Committee

COUNCIL–GARCIA, C.I.
Space/Buildings Committee
Undergraduate Academic Advising Committee
Undergraduate Curriculum Implementation Committee

CRIPPS, R.M.
*Molecular Biology Facility Committee
Arthropod Search Committee (ongoing)
Lecturer III Search Committee

DUSZYNSKI, D.W.
*BSNM Committee
Scholarship Committee
Property Committee
Publicity Committee

FRANKIS, R.C. JR.
* Lecturer III Search Committee
Graduation Committee

FRIDRICK, C.O.
Spring: Research Day Committee
Biology Graduation Committee

HANSON, D.T.
Greenhouses Committee
* Biology Department Seminars (sole member)

HOFKIN, B.V.
* Annual Research Day (co-chair w/ Steve Stricker)
* Selection of BSNM Outstanding Undergraduate Student for 2005 (sole member)
Department Publicity Committee
Administrator of the Thelma Evans Trust Scholarship for pre-veterinary students.

HOWE, K.A.
2005 Annual Research Day Committee
* Lecturer III Search Committee
Undergraduate Policy Committee

KODRIC–BROWN, A.
* Graduate Policy Committee

LOWREY, T.K.
Arthropod Biologist/Curator Faculty Search Committee
Board of Curators, Museum of Southwestern Biology
Publicity Committee

MARSHALL, D.L.
* Greenhouse Committee
* Curriculum Implementation Committee
Promotion and Tenure Committee
Graduate Student Selection Committee

MILLER, R.D.
Spring: * Comparative Immunology Faculty Search Committee
Graduate Student Policy Committee
Scholarship Committee
MILNE, B.T.
Graduate Student Selection Committee
Library Liaison (ended 2005)

NATVG, D.O.
Faculty Salary Review Committee
Graduate Student Selection Committee
Promotion and Tenure Committee

NELSON, M.A.
Associate Chair, Fall 2003–Spring 2005
*Graduate Student Selection Committee
Grove and Springfield Review Committee
Research Day Committee
*Salary Committee

NORTHUP, D.E.
Scholarship Committee, Fall 2005–
Library Liaison, Fall 2005–

POCKMAN, W.T.
*Undergraduate Policy Committee
Greenhouse Committee

POE, S.
Building Space Committee

SINSABAUGH, R.L.
Grove Scholarship Review Committee, February
Merit Evaluation Committee, April
Tenure and Promotion Committee, Fall
Undergraduate Advisor Committee

SNELL, H.L.
*Tenure and Promotion Committee, 2004–05
MSB Ornithologist Division Curator Search Committee

STRICKER, S.A.
Scholarships Committee
*Building Space Committee
*Building Remodel Committee

SWAN, J.
Undergraduate Policy Committee

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TAKACS-VESBACH, C.D.
Avian Biologist Faculty Search Committee, 2005–2006
Comparative Immunologist Faculty Search Committee, 2004–2005

TURNER, T.F.
*Arthropod Curator Search Committee (Chair)
MSB Executive Committee
MSB Space Committee

THORNHILL, R.
Graduate Advisors Committee

VOGEL, K.G.
*Promotion and Tenure Committee
Scholarships Committee

WAGNER, A.
Spring: On sabbatical
Fall: *Graduate Policy Committee
      Computer Committee

WERNER-WASHBURNE, M.
Graduate Student Selection Committee

WOLF, B.O.
MSB Ornithology Division Curator Search Committee

2. College/University committees served on in 2005 (indicate chair with asterisk).

BERGTHORSSON, U.
UNM Radiation Safety Committee

COUCH, L.
*Faculty Senate Undergraduate Committee

CRIPPS, R.M.
Radiation Control Committee (Assistant Chair)

DAHM, C.N.
Member, Senior Scientist in the Environmental Sciences Search Committee (chair: Dr. Jack McIver, Office of Research).

UNM alternate (to Dr. Julie Coonrod) to the Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI); appointed by UNM Vice-Provost for Research.

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HANSON, D.T.
External Advisory Board, Mass Spectrometry Facility, UNM

LOWREY, T.K.
Academic Freedom and Tenure Committee

MARSHALL, D.L.
Lane Scholarship Committee
*Noyce Scholarship Steering Committee

MILNE, B.T.
A&S College Senior Promotion Committee

Member, Steering Committee, Center for Advanced Studies, UNM (S. Prasad, chair); membership ended in 2005.

Member, Steering Committee, Consortium of the Americas, UNM (N. Kenkre, chair)

NELSON, M.A.
Action Team for Science, Technology, Engineering and Mathematics (STEM)
AHPCC Associated Faculty Group (Charter member)
BA/MD Program Admissions Committee, Advisory Board
BA/MD Program Steering Committee
Genomics Facility User Group (UNM Medical School)
MIRT (Minority International Research Training) Advisory Committee
NIH COBRE Review Committee
PREP (Postbaccalaureate Research and Education Program) Steering Committee
SEC Program Committee
Southwest Graduate Coalition Bridges to the Doctorate Program, Steering Committee

POCKMAN, W.T.
A&S Undergraduate Committee

SNELL, H.L.
University Scholarship Committee
Faculty Senate
Faculty Senate Operations Committee
Board of Curators, Museum of Southwestern Biology

SWAN, J.
Graduation Committee

TAKACS-VESBACH, C.D.
UNM Alliances for Graduate Education in the Professoriate, Alliances for Graduate Education and the Professoriate (AGEP)
TURNER, T.F.
UNM Faculty Senate, A&S representative, 2005-07

VOGEL, K.G.
Advisory Committee for MARC (Minority Access to Research Careers)

WAIDE, R.B.
Research Allocation Committee
Research Policy Committee

WERNER-WASHBURN, M.
Office of Research Services Scientist Search, UNM

WOLF, B.O.
Animal Care and Use Committee

D. Other.

Cunningham, C.
Appointed adjunct faculty member of the Department of Biochemistry, Medical University of South Carolina, Charleston SC, October.

LOKER, E.S.
Functions attended as department chair:

New Mexico Young Researchers Banquet, Albuquerque Convention Center, November 5

UNM Undergraduate Research and Creativity Symposium, November 21.

Sevilleta Research and Education Center Groundbreaking, Sevilleta LTER, Socorro NM, July 6.

Minority Student Development Research Symposium, ?, August 12
NIH Regional Seminar on Program and Grants Administration, ?, April 6-8

Represented the Biology Department to the N.M. Department of Higher Education, ?, September 27.

MILNE, B.T.
Poster Judge, Annual Research Day, Department of Biology, UNM

Member, The Center for Social Enterprise Technology

SINSABAUGH, R.L.
Undergraduate Advisathon, UNM, November 10.

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Presentation to the SEEDS group sponsored by Sevilleta LTER Program, November 11.

Tenure and promotion reviews for David Rothstein, Michigan State University, and Weixing Zhang, SUNY-Binghamton, December.

STRICKER, S.A.
Chair ed, Paul Ilg Distinguished Lectureship Committee, Friday Harbor WA.

Reviewed two NSF grants.

Supervised the redesign of the department web site, working with Anne Rice and Mark Fleharty (web consultant).

WOLF, B.O.
Coordinator, Searchable Ornithological Research Archive (SORA)

VII. ADVANCED STUDY AND NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

ALTENBACK, J.S.
"Wildlife Professional of 2005," presented by the New Mexico Chapter of the Wildlife Society, honoring the conservation work done over the last 15 years with the Bats and Abandoned Mines Program.

BERGTHRORSSON, U.
The Stebbins Medal: awarded by the International Association for Plant Taxonomy for an outstanding publication in phylogenetic plant systematics and/or plant evolution in the previous year. Shared with co-authors of Bergthorsson, Richardson, Young, Goertzen and Palmer. 2004. Massive horizontal transfer of mitochondrial genes from diverse land plant donors to the basal angiosperm *Amborella*. *Proceedings of the National Academy of Sciences USA* 101:17747-52.

BROWN, J.H.
Elected to National Academy of Sciences, April.

CHARNOV, E.L.
In 2005, publications cited 650 times; first-authored ones cited 425 times.

G.A. Parker, FRS¹, conducted a study (and professional opinion survey) of what publications/persons have most influenced behavioral ecology over the last 40 years. Depending upon the ranking method used (i.e., most influential person, individual papers, or cumulative votes for all influential papers), I ranked fifth to eighth. The study was published in December 2005.

¹ Fellow of the Royal Society of London

Cambridge University Press published De Jong and Klinkhammer's (professors at University of Leiden) synthesis book, *Evolutionary Ecology of Plant Reproductive Strategies*. David Lloyd, FRS, and I are acknowledged on the first text page as pioneering the field (20-30 years ago), and we are the only scholars whose work is discussed on 10% of the 300 text pages.

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LOKER, E.S.
Regents' Professor; 2003–06.

POCKMAN, W.T.
Fulbright Senior Specialist, eligible for assignment 2005–09.
Universidad de Buenos Aires, Facultad de Agronomía, Buenos Aires, Argentina, May–June, co-taught graduate course in plant stress responses, worked with graduate students and faculty.

TURNER, T.F.
Visiting Research Fellow, School of Animal Biology, Faculty of Natural and Agricultural Sciences University of Western Australia, August 11, 2004–July 15, 2005.

WERNER-WASHBURNE, M.
Distinguished Scientist, Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
E.E. Just Lecturer, American Society for Cell Biology
Elected American Association for the Advancement of Science (AAAS) Fellow

VIII. SABBATICALS, LEAVES OF ABSENCE, SUMMER TEACHING ELSEWHERE, TRAVEL, ETC., DURING THE PERIOD.

COOK, J.A.
Fieldwork, Yukon, Alaska, July–August.

COUCH, L.
Traveled to Belize as an co-instructor for Biol. 461 (Introduction to Tropical Biology) field research/class, March.

CRIPPS, R.M.
Sabbatical, Fall 2004 and Spring 2005

DAHM, C.N.
Spent December 16-22, 2005, in Switzerland, Austria and Italy at the invitation of scientists Professors Urs Uehlinger and Klement Tockner from the Swiss Federal Institute for Environmental Science and Technology (EAWAG, Switzerland) to visit research sites in Italy and Switzerland where my new Fulbright Scholar, Vicenc Acuna Salazar, will do comparative research with studies on the Gila River and the Rio Grande in New Mexico.
DUSZYNSKI, D.W.
Bioi. 461L, Introduction to Tropical Biology, 23 faculty and students from UNM and UTEP, traveled to Belize, March 10–20 (UNM's Spring Break).

FRIDRICK, C.O.
Maternity leave, Fall

HANSON, D.T.
Research Semester, Fall.

Two-day trip to Scripps Institute, San Diego CA, to collect seawater as part of a collaboration with Dr. Bianca Brahamsha, January.

Three-day trip to San Diego CA to attend collaborative grant-writing meeting with Dr. Brent Mishler and other participants on NSF Frontiers in Biological Research (FIBR) proposal, January.

Los Alamos National Laboratory, Los Alamos NM, to plan collaborations with Dr. Nate McDowell on our funded IGPP proposal and to conduct research. Multiple trips, 30 days total.

Seven-day trip to Union College, Schenectady NY, to conduct collaborative research with Dr. Steven Rice, February.

Li-Cor, Inc., Lincoln NE, to collaborate with company representatives on development of new combined fluorescence imaging and gas exchange equipment.

LOKER, E.S.
Field work in Kenya, Summer.

NATVIG, D.O.
Attended mid-year Mycological Society of America (MSA) Executive Council Meeting, Minneapolis MN, February.

POCKMAN, W.T.
Universidad de Buenos Aires, Facultad de Agronomía, Buenos Aires, Argentina, May–June, co-taught graduate course in plant stress responses, worked with graduate students and faculty.

POE, S.
Field trips to Panama and Peru resulted in (1) more than 100 herpetological specimens to be deposited in the Division of Amphibians and Reptiles, Museum of Southwestern Biology, and (2) discovery of several new species of lizards (e.g., I have submitted two papers for publication in February 2006, describing new species of lizards based on these collections). Accompanied by two undergraduate students in my lab on the Panama trip, and by one of my graduate students on the Peru trip.

TAKACS–VESBACH, C.D.
Visiting Scholar, The Thermal Biology Institute, Montana State University, Bozeman MT, June.
THORNHILL, R.
Field work, Dominica, West Indies, five weeks.

TURNER, T.F.
Sabbatical, 2004–05, the University of Western Australia, Perth, Australia.

Accomplishments:
- Successfully developed research partnerships: the University of Western Australia, Perth; Centre for Riverine Landscapes at Griffith University in Queensland; and the Arthur Rylah Institute for Freshwater Ecology in Melbourne, Australia.

- Visited the Museum Australia to analyze more than 100 specimens of Murray–Darling Basin Fishes, January.

- Visited the Queensland Museum to analyze specimens of Murray–Darling Basin Fishes, February.

- Research seminar, Griffith University, Brisbane, Australia, February.

- Visited to the Museum Victoria to analyze more than 100 Murray–Darling Basin Fishes, April.

- Field work in the Murray River with personnel from the Arthur Rylah Institute, May.

- Research seminar, the University of Western Australia, Perth, May.

- Research seminar, Arthur Rylah Center for Freshwater Ecology, Melbourne, Australia, May.

- Traveled to Adelaide, Australia to analyze more than 80 museum specimens for study of historical fish food webs in the Murray–Darling River systems.

- Traveled to Australian Museum, Queensland Museum, and Museum Victoria, to sample museum specimens for stable isotope analysis, January, February and April, respectively.

- Stable isotope analysis of fish tissues, University of Western Australia, completed in July.

VOGEL, K.G.
Leave without pay, January 1–March 15, 2005.

WAGNER, A.
Sabbatical, Fall 2004–Spring 2005.

IX. PUBLIC SERVICE.

BROWN, J.H.
Science Steering Committee, Malpais Borderlands Group

Board of Trustees, Nature Conservancy of New Mexico

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COLLINS, S.L.
Frequently lead tours of the Sevilleta LTER research sites or present informal seminars to different groups visiting the Refuge (colleges, Sierra Club, student volunteers, etc).

COOK, J.A.
Tours of Museum of Southwestern Biology Division of Mammals (e.g., Scott Collins' SEEDS Program, 30 high school students, November 11).

DAHM, C.N.
Regional Science Fair judge, New Mexico Science and Engineering Fair, Albuquerque NM, March 18.

State Science Fair judge, New Mexico Science and Engineering Fair, Socorro NM, April 9.

DUSZYSKI, D.W.
Member, Architectural Control Board, Placitas Homeowners Association

HANSON, D.T.
Advised high school student (Carrea) on science fair project.

HOFKIN, B.V.
Production and broadcasting of "The BioCast" on KANW 89.1 (3 times per week), underwritten by the Department of Biology, UNM.

HOWE, K.A.

La Puerta de los Ninos Childcare Center (local non-profit):
  ➢ Secretary of Board of Directors
  ➢ Advisor for science curriculum

Vista Grande Elementary School (Rio Rancho Public Schools)
  ➢ Parent volunteer with emphasis on science exposure

MILNE, B.T.
Board Member, New Mexico Chapter, U.S. Green Building Council

Organized Greenbuilt 2005 Tour, Albuquerque and Santa Fe NM, May 21-22. Spent 10 or more hours a week from August 2004–May 2005. My contribution definitely helped to establish me as an active member of the sustainability community and has led to many opportunities for UNM.

Board Member, Sustainable Global Leadership Alliance; resigned October 20, 2005.

Co-organizer, Energy Panel Discussion, Visionary and Practical Solutions for Restoring the Earth and People, N.M. Bioneers Conference, Student Union Building, UNM October 15-16.

NELSON, M.A.
Reviewer, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) student abstracts.

NORTHUP, D.E.
Led a field trip for the American Women Geoscientists, April.


Review of Dr. Gordon Southam’s reappointment as a Canada Research Chair in the area of Geomicrobiology, August.

Mentored Kristina Dahm with her study of the “Geomicrobiology of Placitas Travertine—Precipitating Springs” for her science-fair project. She won first prize in her school’s competition.

SNELL, H.L.
Member, City of Albuquerque Prairie Dog Task Force.

Constant activity promoting the conservation of the Galápagos National Park, Ecuador.

TAKACS–VESBACH, C.D.
Board of Directors, Luna y Sol Midwifery since 2005.

THORNHILL, R.
Lecture series to students at Amy Biehl High School, Albuquerque, NM.

Advisor, New Mexicans for Science and Reason

TURNER, T.F.
Interviewed by Steve Carr for *Quantum*, UNM’S publication on science and technology, “Saving the Silvery Minnow: Biologist Tom Turner Helps to Repopulate the Fish with Conservation Genetics.” Also posted to: http://research.unm.edu/quantum/silveryminnow.html.

WERNER–WASHBURNE, M.
I write many letters to congressional representatives in support of science and science education.
CETI's Vision

CETI's vision is to create an internationally recognized center of biomedical research excellence in evolutionary and theoretical immunology.

CETI's Mission

CETI's mission is to advance the field of evolutionary and theoretical immunology by providing the environment where scientists may conduct innovative research. CETI will work towards its mission by:

- Providing administrative support to assist investigators and provide coordination for the program.
- Supporting and maintaining essential equipment based core facilities used by CETI investigators (and other investigators) in their research.
- Creating and maintaining a visiting scholar program to allow for new ideas and collaboration.
- Establishing a mentorship program where young investigators receive guidance towards establishing their independent research careers.

About CETI

The Center for Evolutionary and Theoretical Immunology (CETI) was formally established as a Center of Biomedical Research Excellence (COBRE) in September 2005, with funding from the National Center for Research Resources (NCRR) of the National Institutes of Health (NIH) and was awarded Category I Center status from the College of Arts and Sciences at the University of New Mexico in April 2006.

CETI is an interdisciplinary organization that conducts empirical and theoretical research on innate and adaptive immunity using a wide array of approaches and models. CETI is formed by scientists from the University of New Mexico's Department of Biology and Department of Computer Science, Los Alamos National Laboratory, and the Santa Fe Institute.
It is a great pleasure to introduce the Center for Evolutionary & Theoretical Immunology's first annual report. CETI has continued to grow and be productive since its informal inception in 2002 and we are proud to showcase our accomplishments.

Since this is our inaugural annual report, it is appropriate to provide some history to the program. New Mexico has had a record of strength in the areas of evolutionary and theoretical immunology. Investigators such as Dr. Alan Perelson at Los Alamos National Laboratory and Professor Stephanie Forrest in the University of New Mexico's Computer Science Department have long been recognized for their work in immunological theory and modeling. There has also been a long-standing interest in immunology by investigators at the Santa Fe Institute. Starting in the mid-1990s, the UNM Biology Department made a substantial commitment to hiring tenure track faculty with interests specifically in evolutionary immunology beginning with the hiring of Dr. Rob Miller in 1995 followed by Dr. Luis Cadavid in 2000. These two hires added to strengths already present in the Department. They also made the UNM Biology Department among the few biology departments in the world with a core group of faculty with interests in comparative immunology.

Recognizing the convergence of research interests in evolutionary and theoretical immunology in the state of New Mexico, Rob Miller and I developed a proposal to establish a center involving investigators from the UNM Departments of Biology and Computer Science along with Los Alamos National Laboratory and the Santa Fe Institute. This proposal was submitted to the NIH Centers of Biomedical Research Excellence (COBRE) program with request for funding to support the development of junior investigators in the field, staff, and additional core infrastructure. The proposal was funded beginning September, 2003, and its affiliated investigators formed the basis of CETI. The College of Arts & Sciences at the University of New Mexico formally recognized CETI as a Category 1 Center in April, 2006.

In the spirit of the original commitment by the UNM Biology Department to increase the number of faculty in the areas represented by CETI, the Deans of the College of Arts & Sciences and Engineering committed three additional tenure track lines to the field, two in Biology and one in Computer Science. These three lines have now been filled and we are pleased to announce the hiring of Drs. Ulfar Bergthorsson and Charlie Cunningham in Biology and Dr. Melanie Moses in Computer Science. Dr. Bergthorsson joined the faculty in January, 2005, Dr. Cunningham in August, 2005, and Dr. Moses will be officially on-board in January, 2007.

CETI has grown to be a diverse group of investigators with a broad range of interests and they have been a highly productive gang as you will see in this annual report. In 2006 alone there have already been 51 peer-reviewed publications. There are currently 10 tenure-track and/or senior investigators, 11 research-track faculty and/or postdocs, 5 graduate students, and 10 staff affiliated with the center.

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In many ways the establishment of CETI was timely as there has never been a more exciting time for evolutionary biology and immunology. A substantial number of CETI's investigators are involved in comparative genomics and some of the primary model species used in CETI projects, such as Biomphalaria glabrata and Monodelphis domestica, have had or are having their genomes sequenced, creating a wealth of data and resources for CETI investigators.

Other new UNM centers and programs are being established including the Howard Hughes Medical Institute funded Program in Interdisciplinary Biological and Biomedical Sciences (PIBBS), the Center for Human Evolutionary Sciences (CHES) and the program in the Technology of Nature, Nature of Technology. Inter-center collaborations between CETI and these others have and will continue to increase the level of interdisciplinary science at our university and in the State of New Mexico. Such collaborative efforts have only served to reinforce the mission to promote evolutionary and theoretical approaches to the study of immunity. In March, 2007, for example, CETI and CHES will be co-sponsoring a two-day symposium on Evolutionary Medicine that will bring national and international speakers and invite participation from the COBRE and INBRE programs from the Western states region.

We at CETI are grateful to the University of New Mexico, the College of Arts & Sciences, and the Department of Biology for their support in allowing us to establish this unique center of scholarly activity. We feel the future is very bright for our center and the aims for the upcoming year are to, first and foremost, keep the science the priority and the publications flowing.

Eric S. Loker, PhD
CETI Director
The immune defenses of most existing organisms, especially invertebrates, remain vastly understudied. A better understanding of the evolution of immune function may provide insights into human immunology and help explain how both beneficial and detrimental organisms persist in the environment.

Our research group applies gene discovery to catalogue the immune capabilities of the invertebrate snail *Biomphalaria glabrata* to help provide an evolutionary perspective of invertebrate immune defenses. Comparative analysis is performed of the transcripts associated with a failed response to compatible *Schistosoma mansoni* (a human pathogen), versus those of successful defense responses against bacterial challenge and incompatible schistosome parasites. This is done to search for clues regarding what determines survival of *S. mansoni* in a snail host which would then transmit schistosomiasis to humans. These studies are performed against the background of the imminent start of fully sequencing the genome of *B. glabrata.*

Identification of genetic determinants of immunological snail-schistosome compatibility may reveal novel defense factors, aspects that determine outcome of immunological interactions between pathogens and hosts in general, and help predict local intensity patterns of transmission of human schistosomiasis by snails to help focus control efforts.

**Research Highlights**

- A subset of response profiles of *B. glabrata* bacteria and schistosome parasites consisting of open reading frame ESTs (ORFESTS) was completed. Comparative analysis shows both common features and differences inherent to the responses to the different insults. This may identify novel candidate immune genes from *B. glabrata,* and reveal components of successful defense responses in a lophotrochozoan invertebrate such as *B. glabrata*.

- Close to 2000 sequences resulting from the gene discovery effort were provided (as plasmids) to collaborators in the UK for incorporation into a cDNA-based microarray that is being developed to aid transcriptome analysis of *B. glabrata*.

- We are using a BAC library for *B. glabrata* (produced interactively with the Arizona Genomics Institute, supported by the National Human Genome Research Institute) to investigate diversity of FREP genes. Probing showed that several BACs contain clusters of FREP genes. Ongoing sequence analysis of BAC clone E6 indicated that 2 FREP genes may have interacted by gene conversion. These two observations concur with the notion that FREPs undergo somatic diversification.

The microscopic miracidium of the parasite *S. mansoni* (right) infects the freshwater snail of *B. glabrata* (left) as part of its complex life cycle. Understanding the snail's ability to use its innate immune system to detect schistosome infections may provide new ways of fighting schistosomiasis.

The ~140 kb genomic insert from *Biomphalaria glabrata* of BAC clone BG_BBa 125N01 contains at least four FREP sequences.
Research Assistant Professor
Biology Department, UNM

One of the remaining enigmas in immunology is the ability of the fetus to escape rejection by the maternal immune system despite antigenic differences in the embryo contributed by paternal alleles. We are using marsupials as alternative models to study the mechanisms involved in immune evasion at the fetal-maternal interface and at other sites associated with immune privilege. Marsupials last shared a common ancestor with eutherian mammals an estimated 150 to 180 million years ago making them our most distantly related mammalian relatives that give birth to live young. An understanding of the mechanisms involved in immune evasion in marsupials will provide insights into the relative importance of mechanisms used by other mammals including humans. Genes at the center of mechanisms of immune evasion are the Major Histocompatibility Complex (MHC) class I loci that have evolved both a classical role of encoding molecules that can present alloantigens or abnormal self antigens, as well as non-classical roles that encode molecules that regulate immune responses. We are investigating the role of MHC class I regulation in immune evasion in the South American opossum, Monodelphis domestica, and the Northern brown bandicoot, Isoodon macrourus. M. domestica develops a simple yolk sac placenta and I. macrourus develops a highly invasive chorio-allantoic placenta not unlike that of eutherian mammals. Important for these studies is the whole genome sequence of M. domestica that was recently completed through funding from NIH.

RESEARCH HIGHLIGHTS
• We have mapped the entire MHC region in the genome of the opossum, M. domestica, resulting in the identification of eleven class I genes within the MHC region and two outside the MIIC. Identification of all of the class I genes in M. domestica is the first step in determining the roles of class I molecules in immune evasion in marsupials.
• We have identified a class I gene within the MHC region of the opossum, Modo-UG, that displays striking similarity to the human class Ib gene, HLA-G, that plays an important role in fetal-maternal tolerance in humans.
• We have begun to examine the transcription of class I genes in somatic tissues and pregnant uterine tissue from M. domestica. This analysis has revealed tissue specific transcription patterns that may reflect specialized functions at sites associated with immune privilege. Two genes, Modo-UG and -UJ, were transcribed in pregnant uterine tissue but not in non-pregnant uterine tissue. Modo-UJ and -UG are good candidates for genes involved in immune evasion in M. domestica.

The Northern Brown Bandicoot (left) and the South American Opossum (right) provide two models for investigating early immune development.

Organization of MHC class I and II genes in the genome of M. domestica. The eleven Class I (red) and ten Class II (blue) genes are adjacent, and somewhat interspersed with each other and with antigen presenting genes (purple) and one of the Class III genes (green).
Gene duplications have been the primary source of novel genes and new functions in evolution and they have been particularly important in the evolution of the immune system. Humans display high levels of polymorphism in gene-copy number and the importance of this recently discovered variation for disease or susceptibility to diseases is not yet well understood. Moreover, no reliable estimates exist of the frequency by which genes duplicate or are deleted, and the estimates that do exist differ by orders of magnitude depending on whether they were derived from experiments or from analysis of sequenced genomes. We use *Caenorhabditis elegans* as a model system to 1) measure the genome-wide rate of gene duplication and deletion, 2) analyze polymorphism caused by duplication and deletion in natural populations and 3) test the role of gene duplication and deletion in genetic adaptation. The gene copy number changes in mutation accumulation lines are analyzed using comparative genome hybridization (CGH) to DNA microarrays.

**RESEARCH HIGHLIGHTS**

- The sensitivity of DNA microarray methods for measuring changes in gene-copy number has been tested by analysis of genes that are known to be duplicated in the sequenced *C. elegans* genome and present in a single copy in some natural isolates of *C. elegans*. The results show that the methods are sensitive to gene duplications and deletions.
- CGH using natural isolates of *C. elegans* reveals extensive polymorphism in gene copy number and duplications and deletions appear to be particularly common in the subtelomeric regions of chromosomes.
- Analysis of experimental lines used to measure the gene duplication/deletion rate are currently under way. The results suggest a high rate of spontaneous duplications compared to estimates based on analysis of sequenced genomes. Southern blot analyses on several genes that are thought to be duplicated based on the microarray analysis appear to confirm those results in all of the cases tested so far.

Results from comparative genome hybridization comparing a laboratory wild type strain of *C. elegans* to a strain recently isolated from nature. Log2 ratios are plotted against position in the genome (Chromosome 6 is the X chromosome). Points with a log2 values equal or greater than one suggest gene duplications in the natural isolate or gene deletions in the laboratory strain and log2 values of less than negative one suggest gene deletions in the natural isolate or gene duplications in the laboratory strain.

*C. elegans* is a free-living soil nematode with a self-fertilizing mode of reproduction and a short generation time (3-4 days). *C. elegans* is a genetically and developmentally well-characterized organism and it has great potential for microevolutionary studies. *C. elegans* cultures can be frozen at -80°C and revived after several years, thereby enabling direct comparisons of experimentally evolved lines to the ancestral genotypes.
We are conditioned to think of schistosomiasis as an exotic tropical malady but in reality, every summer, thousands of people become infected with schistosome cercariae while engaged in recreational activities in natural waterbodies in the U.S. and worldwide. This snail-transmitted condition is called swimmer's itch or cercarial dermatitis. The parasites responsible are poorly-characterized yet ubiquitous schistosomes of several species that have natural cycles of transmission involving aquatic birds and snails. Progress in understanding cercarial dermatitis has long been frustrated by inadequate methods for differentiating among species and thus clarifying their life cycles and epidemiology. One of our research goals is to incorporate molecular methods combined with traditional morphology to identify both the parasite species and host species most often implicated in dermatitis outbreaks not only in the U.S., but globally.

We have undertaken extensive collections of these parasites from snails and birds and fit them into a comprehensive framework of schistosome diversity. This database will assist us greatly in the proposed new studies, which will focus on natural schistosome infections in snail populations in U.S. freshwater recreational areas. We identify schistosome species most commonly recovered from such habitats and thus are most likely to be implicated in dermatitis outbreaks. We also determine if the species most commonly recovered from snails across different avian migratory flyways exhibits patterns of genetic structure that relate to the migratory patterns of its hosts or reflect limited transmission opportunities. We are now developing ways to examine key factors that strongly influence the epidemiology of such parasites, including the duration of infection in both avian and snail hosts. It is imperative that we develop a baseline picture of the schistosomes and snails involved in causing cercarial dermatitis, especially as future global warming may well change familiar patterns of infection, thus creating new opportunities for outbreaks to occur.

**Research Highlights**

- We have examined over 400 individual birds, representing about 40 species and about 25 species of snails. About 115 hosts were infected with a species of schistosome and we have identified 15 species of avian schistosomes from both snails and waterfowl to date from the U.S., Australia and Kenya.
- Two species of avian schistosomes appear to be responsible for a majority of the outbreaks in the U.S. These two species will be used for future studies of host-parasite interactions, specifically host immunity in the duck host.
- In conjunction with the Alameda Health Department, California, we discovered a species of schistosome responsible for dermatitis outbreaks in San Francisco Bay coming from an exotic snail.

Ducks, such as these specimens from New Mexico, are involved in transmitting "swimmer’s itch", a condition that affects thousands of people every summer in the U.S. Swimmer's itch is caused by Schistosome parasites (right) that normally infect wild birds and mammals.

The map above shows the study sites where snail and bird samples have been collected in the U.S.
My research group works primarily on two related topics: biological scaling and metabolic ecology. The first focuses on the effects of body size and temperature on biological structure and function. These two parameters explain most variation in nearly all characteristics, from cellular metabolic rate to lifespan, across all organisms, including animals, plants, and microbes. The second topic is concerned with the effects of body size, temperature, and metabolic rate on ecological processes at individual organism, population, community, ecosystem, and biosphere levels of organization. Many ecological processes, from the growth of populations to the global carbon cycle, are controlled by the metabolic rates of the constituent organisms and vary predictably with body size and temperature. Our work typically addresses these problems by juxtaposing analytical mathematical models with compilations and analyses of large data sets. Our group at UNM continues to collaborate closely with Geoffrey West and his group at the Santa Fe Institute.

RESEARCH HIGHLIGHTS

• Work spearheaded by postdocs James Gillooly and Andrew Allen and published in PNAS has documented the effects of body size, temperature, and metabolic rate on rates of evolution: both nucleotide substitution rates at the molecular level and rates of speciation at the macroevolutionary level.

• Work spearheaded by postdocs Melanie Moses (now a CETI supported Assistant Professor of Computer Science) and Chen Hu has developed new models of ontogenetic growth which focus on how metabolic energy is allocated between production of new biomass and maintenance of existing biomass.

• Work in collaboration with Anthropology graduate student Marcus Hamilton is using both empirical analyses and mathematical modeling to investigate the strong non-linear scaling relationships in the ecology and social organization of human hunter-gathers.

Slow pulse, long life. The baffling correlation between body size and total metabolic rate may stem from nutrient distribution.
Schistosomiasis is a disease caused by trematode flatworms of the genus Schistosoma and affects more than 200 million people worldwide. Presently, the treatment of choice is the drug praziquantel but indications of emerging drug resistance are becoming apparent.

The life cycles of schistosomes are complex, including both a vertebrate and invertebrate host. While developing within both hosts, they are exposed to hostile immune responses, and, during the transition between hosts, survive in an aquatic environment in which they may encounter pathogenic microorganisms. To withstand these immune and environmental challenges as well as treatment with praziquantel, it is likely that schistosomes differentially express genes that contribute to defense and stress responses.

We investigate the molecular pathways underpinning the schistosome response to stress encountered due to changes in environment (i.e., temperature shifts), exposure to potential pathogens (bacteria, virus) and chemicals (praziquantel). Understanding how schistosomes contend with these stressors may serve as a basis with which to enhance our knowledge of how they overcome the immune effector responses of their hosts and provide insight into new strategies for combating schistosome infection.

**Research Highlights**

- We have used *S. mansoni* microarrays to identify differentially regulated genes in temperature-shifted adult schistosomes. This work is mirrored by similar experiments on the proteome of these worms using Differential Gel Electrophoresis.
- We have developed protocols to expose different life cycle stages of *S. mansoni* to sub-lethal concentrations of praziquantel in vitro.
- We have employed protocols to test the sensitivity of two Kenyan field strains of *S. mansoni* to praziquantel during mouse infection. These strains have been isolated on the basis of their differing sensitivities to the drug and will be used to investigate the molecular basis of the apparent resistance to praziquantel seen in the field.

**Schistosomiasis in sub-Saharan Africa. Resistance to the only known drug praziquantel poses a health crisis for millions of people.**

The complex life cycle of schistosomes is shown at left. Adult worms which inhabit the veins around the intestine or bladder produce eggs that are eventually passed in the feces or urine. The eggs hatch in water and release miracidia that infect snails. The parasite then undergoes asexual reproduction in the snail, culminating in production of thousands of cercariae. The cercariae emerge from snails into water, contact human skin and penetrate, eventually developing into adult worms. The eggs produced by adults are often lodged in human tissues where they cause many symptoms included enlarged liver, damaged kidneys, and intestinal pathology.
A great deal of interest in the ecology and population dynamics of deer mice (*Peromyscus maniculatus*) was generated with recognition of its role as the primary host of Sin Nombre virus (SNV) transmitted to humans. The majority of hantavirus cardiopulmonary syndrome cases have occurred in western North America, but cases throughout the range of deer mice have been documented. Hantaviruses (family *Bunyaviridae*) are RNA viruses suspected to have co-evolved with their murid rodent hosts. Phylogeographic partitioning of SNV and Monongahela viruses may reflect that of their primary rodent host. Delineation of viral and rodent phylogenies at interspecific and intraspecific levels provides a framework for predicting the discovery of novel viruses and hosts.

The phylogeography of *Peromyscus maniculatus* provides a framework for interpreting geographic variability not only in hosts, but associated viral variants and disease transmission, and an opportunity to predict the potential geographic distribution of newly emerging viral strains.

Co-evolutionary histories of viruses and their hosts should be examined in more detail, especially in areas of potential contact between hosts and associated viral strains. Evidence of population expansion of some of the host units raises the intriguing issue of a corresponding expansion of particular viral strains. Repeated cycles of range expansion and contraction (as during Pleistocene glacial stages), might have made a substantial contribution to viral diversity. Phylogeographic and population level analyses may provide key insight into situations that promote the emergence of novel viral elements.

Kathryn Hoore, one of Dr. Dragoo’s field assistants, collects deer mice in New Mexico. The mice will be tested for hantavirus, and both mice and virus DNA will be sequenced to determine to which lineage (mtDNA and virus) they belong.

**Research Highlights**

- Bayesian analyses of mitochondrial DNA sequences from deer mice collected from throughout North America partitioned deer mice into six largely allopatric lineages, some of which may represent unrecognized species. Four of the major lineages of deer mice potentially meet in New Mexico.
- Within the deer mouse complex, distinct geographic populations of mice (and their associated viruses) have different evolutionary trajectories.
- The focus of new hantavirus discovery to date has been at the interspecific level, but new viral strains may emerge within currently recognized species that span broad geographic ranges and cross ecological boundaries. In addition, hantaviruses may undergo recombination when closely related viruses come into contact within the same individual host.

Phylogeographic analyses of mitochondrial DNA from deer mice throughout their range suggest six major lineages. Numbers along the side of the tree correspond to the distributions of samples shown on the map.
My work takes an engineering approach to immunology, constructing Artificial Immune Systems (AIS) in computational settings. In AIS, both the components of the immune system and their environments are defined as computations. In some cases, the AIS simulate immune system function in digital environments (as in all computer simulations), and in others they are practical solutions to real problems such as computer security. A common thread, however, is that hypotheses about components and mechanisms are expressed mechanistically as computer programs. The motivation is to engineer a system that can operate successfully in an environment with constraints similar to those faced by the natural immune system, thereby learning the functional significance of different components and analyzing how they interact with one another. The engineering process, like natural selection, leads to designs that are adapted to the constraints of their environments.

**Research Highlights**

- In collaboration with CETI member, Alan Perelson, and then PhD student Derek Smith, we developed a computer model of cross-reactive memory based on the key observation that immune memory resembles associative memories used in computing. Our model results led us to propose the antigenic distance hypothesis as an explanation for the high variability of vaccine efficacy observed in populations of repeat vaccines. Since the original publications, Smith received the NIH Director’s Pioneer Award and developed the idea of antigenic cartography, which is now a core component of the human influenza vaccine strain selection process.

- Intrusion detection systems (IDS) continuously monitor a computer system to determine if a security violation or denial-of-service attack has occurred. Such violations include injected foreign code (as in the case of viruses) or exploitation of vulnerabilities in existing code by illegitimate users. We develop IDS using features of the immune system such as negative selection, affinity maturation, MHC allelic diversity, and homeostasis.

- Results from a computational model of thymic selection led to a proposed mechanism for the observed wide range of T cell cross-reactivity. The model suggests that the cross-reactivity of a T cell that survives thymic selection is correlated with its affinity for self peptides. In order to survive thymic selection, a T cell with low affinity for all self peptides expressed in the thymus must have high affinity for major histocompatibility complex (MHC), which makes it highly cross-reactive. A T cell with high affinity for any self peptide must have low MHC affinity to survive selection, which makes it highly specific for its cognate peptide. These results have implications for the immune system’s ability to eliminate mutating pathogens and for the evolution of molecular mimics.

Receptors and ligands are modeled as strings, illustrated on the left for the example of a T cell receptor binding to a MHC/peptide complex. Binding is modeled by a string matching rule, for example, by counting the number of positions in the string at which the symbols are complementary (known as Hamming Distance). Repertoires are represented in the model as sets of strings, shown on the right.
Antropogenic changes and shifting land use play major roles in the emergence and transmission dynamics of infectious diseases. Understanding how these changes impact the ecology of virus-hosts and vectors is essential to implementing control programs.

My research is field based and focuses on understanding how anthropogenic disturbance impacts small mammal communities (particularly rodents) and how these changes impact public health. It has been found that many viruses are species specific to one reservoir species. Therefore, it is important to understand the natural history of reservoir species that carry lethal human pathogens in order to understand the transmission dynamics of the virus.

**RESEARCH HIGHLIGHTS**

- Bolivia's Hemorrhagic Fever is transmitted by *Calomys callosus*, a small rodent that thrives in agricultural areas. Land use changes in Bolivia have created a vast habitat that supports dense populations of this rodent. I have submitted a proposal to examine how this land use change is impacting the distribution of *Calomys callosus* and the occurrence of Bolivian Hemorrhagic Fever in central Bolivia.
- A new large irrigation project has been initiated in upper Egypt. The impacts of bringing water into a desert are numerous, but it generally results in increased disease transmission. We have proposed to follow the development of this area, collect data on reservoirs, vectors, and viruses, and develop models in a GIS to predict what variables facilitate outbreaks of several infectious diseases.

**Select Publications**


Signal-transduction systems are key components of a cell’s decision-making apparatus. I am interested in how to obtain a predictive understanding of these systems, particularly systems involved in innate and adaptive immunity. I believe mathematical models for the dynamics of protein interactions and structural models for protein complexes will be important tools for making accurate predictions about signal-transduction systems and I am pursuing such models for various systems as well as advanced methods for specifying, simulating, and analyzing these models. I am also interested in accurate large-scale reconstruction of genetic regulatory and metabolic networks, in part through analysis of high-throughput data, such as mRNA expression and metabolite profiles.

Simple examples of reaction rule processing. These examples illustrate establishment of correspondence between reactants and products. By representing complex biological processes as mathematical equations, we are able to make much better predictions as to what is happening in the system and how the system will react to different conditions.

Model for early events in signal transduction through the FceRI receptor. The mathematical model shown above right helps to predict events in cell signaling cascades as shown above.
Assistant Professor & Regents’ Lecturer
Department of Computer Science, UNM

Living systems are characterized by networks of high-dimensional, complex, relationships, such as genetic regulatory networks, metabolite networks, as well as others. Essential processes, such as metabolism and the immune system, depend on the interaction of thousands or millions of functional units to achieve robust, adaptive behaviors.

My group develops computational methods for inferring networks from data and predicting system behavior from network models. At the most fundamental level, we develop algorithmic models of the biochemical processes that are the building blocks of networks, such as the siRNA-mRNA hybridization function at the heart of RNA interference. At higher levels, we work on inferring the presence and structure of non-observable networks from complex, noisy data such as cDNA microarray measurements. On the highest level, we examine the structure of networks to infer properties of the system as a whole. Long term aims of this work are to fully map and understand complex biological networks towards the ultimate goals of predicting organismal behavior and designing interventions that influence networks and lead to improved disease treatments.

**RESEARCH HIGHLIGHTS**

- We developed models of the hybridization between short-interfering RNA (siRNA) and messenger RNA (mRNA) that is at the heart of the RNA interference (RNAi) mechanism. Our computational model is more accurate than existing state-of-the-art models and allows superior prediction of RNAi efficacy.

- We implemented a transcriptome-scale simulation of non-specific siRNA-mRNA hybridization (a.k.a., off-target knockdown effects). Our simulation demonstrated that off-target effects are likely to be much more widespread than originally believed by early RNAi investigators.

- We used our transcriptome-scale simulator to develop a network model of the multi-stage cascade effects of transitive RNAi (tRNAi). We demonstrated that this network has nearly scale-free properties and that the density of the network increases with the average-case flexibility of the siRNA-mRNA hybridization process. As a consequence, we predicted a lower-bound on average-case siRNA-mRNA hybridization specificity.

- We developed a microarray deconvolution algorithm for untangling gene expressions drawn from a heterogeneous population of cells that are all measured simultaneously with a single microarray. This technology is a building-block toward analysis methods that fuse multiple data sources (e.g., microarray measurements, ChIP-Chip data, protein-protein interaction databases) into integrated views of biological network systems.
Select Publications


Broadly stated, I am interested in the interactions between infectious agents and immune systems, particularly from an evolutionary point of view. Most of my specific work in this area has been to investigate the biology of schistosomes, worms that are ubiquitous parasites of humans and domestic animals in much of the developing world, particularly tropical Africa. For over twenty years, my lab has maintained a program of both field and laboratory studies of schistosomes and the snails that serve as the obligatory hosts of their larval stages. We are interested in how snails respond to and reject schistosome infection, leading us to explore the mechanisms that characterize the internal defense systems of snails. This has lead to broader interests in the evolution of internal defense systems across the invertebrate phyla. Another outgrowth of this research interest has been involvement in the genome project for Biomphalaria glabrata that is one of the most important snail hosts for schistosomes. Genome studies will help to illuminate our understanding of invertebrate immunobiology in general, and of snail-schistosome interactions in particular. Additionally, I am interested in applying the techniques of molecular phylogenetics to learn how schistosomes and other parasite groups have evolved and diversified across the globe. This work has lead to a fundamental re-appraisal of where schistosomes evolved, and how they have acquired some of their most distinctive properties. I am also currently involved in projects in both Kenya and Egypt that explore the epidemiology of schistosomiasis using molecular approaches, and that have lead us, quite unexpectedly, into another related area of work, the evolution of drug resistance in schistosomes. Finally, by virtue of the experience gained over the years in teaching and writing about infectious diseases and immune systems, I have acquired a broader interest in documenting the pervasiveness of infectious processes, and how infectious agents, ranging from transposable elements to helminths, have modified our concept of what comprises an individual organism, and how symbionts have influenced both strategies for infectivity and host defense.

RESEARCH HIGHLIGHTS

• Over the past several years, we have undertaken considerable work in the field, now on five continents, to collect a broad representation of schistosome parasites. This work has involved collection in challenging aquatic locations, often with crocodiles, hippos or elephants nearby. By application of molecular phylogenetics methods to the specimens obtained, we have provided new results, ideas and hypotheses for how schistosomes have evolved, including the evolution of two of their most distinctive features, their possession of separate sexes and the dimorphism evident between sexes.

• We have undertaken studies of the human parasite Schistosoma mansoni that have involved establishing collaborations with scientists from many developing nations in both hemispheres. This has culminated both in a study that has provided an overview of the genetic variation inherent in this human parasite and in the discovery in Kenya of isolates that seem to be developing resistance to praziquantel, the one available drug to treat human schistosomiasis.

• A team involving CETI mentees and investigators working in my lab discovered the ability of an invertebrate, the snail Biomphalaria glabrata, to produce diversified immune systems, including the evolution of two of their most distinctive features, their possession of separate sexes and the dimorphism evident between sexes. This work has helped to stimulate our thinking for how immune systems have evolved, and of the need for “innate immune systems” to possess mechanisms for production of diversified antigen recognition molecules.

Female Schistosome reside in a canal along the male's body.

Schistosome samples are collected from Asao Stream, near Kisumu, Kenya, a known schistosomiasis transmission site. By examining samples from all over the world, the evolution of schistosomes is being revealed.
Critical to neonatal animals is the protection they receive from the maternal immune system. Equally important is the development of the neonate's own immune system, allowing for self protection against pathogens and disease. There is wide variation in the degree of maturity of the immune system at birth amongst different species, and likewise differences in the level and route of maternal protection provided. We study the immune systems of mammals that are born particularly immature, specifically the marsupials. In particular, we use a model marsupial species, the gray short-tailed opossum *Monodelphis domestica* whose young are born lacking most of the components of the adaptive immune system, such as B and T cells. *M. domestica* recently became the first marsupial species to have its whole genome sequenced, increasing its utility as a model organism. *M. domestica* is also used as a model of human cancers and infectious disease.

**Research Highlights**

- Most of the major components of the opossum immune system are similar or identical to that of placental mammals such as humans and mice, making them suitable models of human disease and development.
- Using the available genomic resources for marsupials we have discovered that they have an additional T cell receptor, not found in placental mammals, that is expressed early in ontogeny prior to the appearance of the conventional T cells. This discovery may reveal a novel strategy that evolved to provide immune protection early in marsupial development.
- We, along with collaborators both in the U.S. and Australia, have annotated the opossum genome for regions encoding the antigen receptor genes including the Major Histocompatibility Complex (MHC), the immunoglobulin genes, and the T cell receptor genes. The MHC is the most gene dense and polymorphic region known in mammalian genomes and appears equally so in the opossum. The opossum MHC region, however, is organized differently than in placental mammals and is more similar to non-mammalian species in this regard. These discoveries reveal the ancestral organization of the MHC in mammals and novel re-organization that has taken place in placental mammals.

A long-term aim of this research is to use the opossum as a model of early development and uncover novel strategies that may have evolved to protect their immunologically vulnerable young.

Model of one of the possible isoforms of TCR expressed in the opossum thymus and peripheral lymphoid tissues. The isoform shown contains two variable (V) domains.

The marsupial *Monodelphis domestica* is a model organism for studying early immune system formation because the young, seen here on the mother's stomach, are born underdeveloped.
I am interested in modeling the immune system and its response to viral and bacterial infections. Our group has focused heavily on modeling HIV and hepatitis B and C infection. We collaborate extensively with experimental groups throughout the world and build models to explain and aid value to data. Our work on chronic viral infections has lead to profound increases in our understanding of many of the basic biological processes underlying disease pathogenesis, such as the rate of viral production in vivo, and the death rates of productive infected cells. We are involved with the analysis of data on primary HIV infection and are helping in the efforts to design an HIV vaccine. We also analyze labeling data obtained with CEP, BrdU or deuterated glucose to gain insights into lymphocyte kinetics in health and disease. Recent work is leading us into the study of influenza and secondary bacterial pneumonia, as well as the study of the immune response to Listeria monocytogenes.

**Research Highlights**
- We published the first kinetic analysis of influenza A viral kinetics in humans.
- We have developed a kinetic model of HCV subgenomic replicons in cell culture.
- We have developed a kinetic model of acute HBV infection in man and based on our kinetic analysis have postulated that cells can be noncytolytically cured of infection and afterwards remain refractory to infection for a period of time.

A three dimensional model of an HIV infected cell. HIV affects an estimated 1.1 million persons in the United States, with 40,000 new cases each year. Studying how HIV infects the T cells will hopefully help lead to a vaccine.

Decay profile of virus during treatment. The symbols represent actual viral load data, and the solid line through them is the best fit of the model. In most, an idealized depiction of viral load decay is shown, with the different phases indicated. The first and second phase correspond approximately to clearance of free virus and loss of infected cells, respectively.
Infectious diseases are considered a growing problem for the quality of life of billions of people around the world. In particular, our knowledge of the interaction between pathogens and the immune system has been revolutionized with the advent of crucial molecular techniques. Nevertheless, much remains to be elucidated.

One of the challenges that needs to be confronted is how to interpret the huge amount of data being generated and how to analyze the new experiments being developed. Our research focuses on the development of theoretical models and statistical analyses to help interpret experimental data of the interaction of the immune system with viral diseases. In particular, we are interested in human immunodeficiency virus (HIV), hepatitis B (HBV) and C (HCV) viruses, and influenza virus. For us, these viruses serve as probes into the functioning of the immune system, and understanding them allows a comparative exploration of the immune response to different challenges. We use analytical tools (such as differential equations or stochastic models), statistical tools, and computer/numerical simulations in our studies. These are developed in close collaboration with clinical and laboratory researchers to ensure the biological input necessary for appropriate model development. In turn, whenever possible, our results are used to plan experiments or adjust (e.g.) treatment protocols in the clinic. Indeed, our long term goal is to help define better vaccines and treatment protocols for these diseases through a better mechanistic understanding of the effector functions of the immune system.

**Research Highlights**

- We have measured the turnover of T-cells during HIV-1 infection and compared this with the same quantity in uninfected individuals and treated HIV-1 infected patients. Our results show that turnover is increased in the setting of infection and give a hint of the differences between CD4+ and CD8+ T-cells.

- We have done detailed analyses of HCV viral dynamics in comparison with the pharmacokinetics and dynamics of the current state of the art treatment (pegylated interferon). Our results indicate that the kinetics of the medication is similar in both successfully treated and poorly responding patients but that certain parameters, such as the 50% effective drug concentration level, are quite different in those two groups. Moreover, we proposed that pharmacodynamic parameters could be measured very early during treatment to predict its outcome months before what is current practice.

- We proposed a new model of immune response during primary HBV infection which postulates that some hepatocytes (liver cells infected by HBV) are rendered refractory to infection by the immune response.
The freshwater snail *Biomphalaria glabrata* is one of the intermediate hosts that transmits the human blood fluke, *Schistosoma mansoni*, a causative agent of human schistosomiasis. It is estimated that more than 600 million people live in schistosomiasis-endemic areas and more than 200 million are infected. Although world-wide effort has been made to control schistosomiasis, it is still an important and highly prevalent health problem in many developing countries.

Research Assistant Professor  
Biology Department, UNM

Select Publications


**Research Highlights**

- Our recent studies have shown that genes encoding small blood proteins, termed fibrinogen-related proteins, or FREPs, can be extensively diversified by both mutational and recombinatorial processes, a capacity not previously recorded or anticipated from an invertebrate. This is the first evidence reported in invertebrates for the diversification of innate defense molecules through novel mechanisms, implying that invertebrates are capable of producing an array of diverse molecules used in defense. Although the underlying mechanism for generation of diversity and its biological rationale remain unclear, our studies on FREP diversification, by blurring the distinction between adaptive and innate immunity, offer new insights into the evolution of immune systems.

- The application of RNAi to assess gene function has been applied in a variety of animals, both invertebrate and vertebrate, but not in the snail *B. glabrata*. Recently, we have developed RNAi for *B. glabrata*, providing an excellent opportunity to probe the function of snail genes. The application of RNAi for the functional characterization of molecules/genes identified will significantly increase in the snail post-genomic era.

- Toll/Imd signaling pathways are regarded as the most important invertebrate immune signaling pathways thus far known, but functional roles and existence of the Toll/Imd pathways in *B. glabrata* are unknown. We have recently cloned genes encoding gram-negative bacteria binding protein (GNBPs) and peptidoglycan recognition proteins (PGRPs; including long and short forms) from *B. glabrata*. Homologs of these molecules are involved in upstream activation of Toll/Imd pathways. They provide an excellent opportunity to begin to explore the presence and functionality of these signaling pathways in snails.

The snail *Biomphalaria glabrata* plays a central role in the transmission of schistosomiasis.
Part of CETI's mission is to support and maintain essential equipment based core facilities used by CETI investigators. The Molecular Biology Facility and the Controlled Environment Facility are two of the core facilities subsidized and administered (in part) by CETI.

**Controlled Environment Facility**

The controlled environment facility housed within UNH's Biology Department provides equipment to support routine tissue culture and experiments requiring precise environmental control. This facility was developed with COBRE funding and became fully operational in December, 2004. This facility houses two Conviron EB Reach-in Environmental Chambers and one Conviron C1066 Controlled Environment Room. The facility also has a fully equipped tissue culture room.

**The Molecular Biology Facility**

The Molecular Biology Facility (MBF) serves two primary roles at the University of New Mexico.

First, many areas of biology are increasingly dependent on use of the molecular biology tools and techniques. The MBF is a source of these tools and techniques to faculty, staff, and students in the Biology Department as well as other departments who may not have their own suitably equipped laboratories.

Second, the MBF maintains common use equipment which individual investigators require but do not have in their own laboratories such as ultracentrifuges and automated DNA sequencers.

Inherent in the mission of the MBF is training. Undergraduate and graduate students working on projects with faculty mentors are welcome and encouraged to use the facility. In addition the MBF is available for laboratory courses which utilize the equipment in the facility and expertise of the staff.

In 2004, the MBF underwent major renovations made possible through COBRE funding and support. The new remodeled facility offers expanded laboratory and equipment space as well as new offices for support staff.

A student (right) analyzes her data collected on an ABI 3130 Genetic Analyzer run by the MBF staff.

CETI has funded microscopes, like the one shown here, (above) which still play and essential role in biological research.

The tissue culture hood (right) and the environmental chambers (left) are some of the equipment used in the Controlled Environment Facility.
CHRISTOPHER BAYNE, PhD
Professor, Department of Zoology, Oregon State University
Dr. Bayne is a comparative immunologist whose research focuses on gaining a deeper understanding of innate immune systems and their modulation.

BRUCE CHRISTENSEN, PhD
H. Edwin Young Professor, Animal Health and Biomedical Sciences, School of Veterinary Medicine, University of Wisconsin
Dr. Christensen is a parasitologist who studies mosquito-parasite interaction and pathogenesis.

MARTIN FLAJNIK, PhD
Professor, Department of Microbiology and Immunology, University of Maryland, School of Medicine
Dr. Flajnik is an immunologist whose work centers on the evolution of the immune system and discovering the origins of adaptive immunity.

THOMAS KEPLER, PhD
Professor, Biostatistics and Bioinformatics, Department of Biostatistics and Bioinformatics, Duke University
Dr. Kepler is a biostatistician who researches the development and application of theory and computational tools for immunology.

COURTNEY SMITH, PhD
Associate Professor, Department of Biology, George Washington University
Dr. Smith's primary research interest is to understand the evolution of immune systems by investigating the basic features of immune systems in a pivotal group of animals, basal deuterostomes.

THE CENTER FOR EVOLUTIONARY THEORETICAL IMMUNOLOGY 2003-2006

DIRECTOR
Eric Samuel Loker, PhD

CO-DIRECTOR
Rob Miller, PhD

PROGRAM MANAGER
Jennifer Kavka

INVESTIGATORS
Coen Adema, PhD
Michelle Baker, PhD
Ulfar Bergthorsson, PhD
Sara Brant, PhD
Jim Brown, PhD
Luis Cadavid, PhD
Charles Cunningham, PhD
Jerry Dragoo, PhD
Stephanie Forest, PhD
Ellen Goldberg, PhD
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Christine Hice, PhD
Terran Lane, PhD
Melanie Moses, PhD
Alan Perelson, PhD
Ruy Ribeiro, PhD
Kate Vogel, PhD*
Andreas Wagner, PhD
Si-Ming Zhang, PhD

RESEARCH STAFF
Kelly Fitzpatrick
Jennifer Hathaway
Lynn Hertel, PhD+
Reza Imani
Amy Osterman*
George Rosenberg, MS
April Wright, MS*

POST-DOCTORAL FELLOWS
Michelle Steinauer, PhD
Ben Hanelt, PhD
Yiguo Jiang, PhD*
Jin Yang, PhD
Yong Zeng, PhD
Yong-An Zhang, PhD*
Wenzhong Zhao, PhD*

GRADUATE STUDENTS
Sahar Abubucker*
Leigh Fanning*
Reza Imani
Kendra Lipinski
Sandra Melman
Zuly Parra
Shibin Qiu*
Amitabh Trehan*
Xinxin Wang

UNDERGRADUATE STUDENTS
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Brandie Dimas*
Ricardo Galdamez
Chad Lundgren*
Elisa Labeau
Leanne Lovato
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Alana Sharp
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Courtney Smith, PhD

*No longer participating at the end of fiscal year 2006
+ Deceased
Atquind Immune Deficiency


DR. LEE SEGEL • 1932-2005
PROFESSOR, WEISMAN INSTITUTE
CETI EAC Member 2003-2005

Lee Segel was a great scientist, who was one of the pioneers and leaders of the field of Theoretical and Mathematical Biology. He was the supervisor of many of the leading scientists in the field, and collaborated with many more. Always open minded, always a few steps ahead with his visionary ideas.

Lee was also much more than that. Lee was a great person with impressive personality, a rational sharp mind with a warm soul. A genuine intellectual interested in many science fields, but also Judaism and many other subjects. His sense of humor affected everyone around him - work with him was not only interesting but also fun. Lee attracted and reflected respect from everyone who met him. He radiated and induced both calmness and energetic action. Lee was a great scientist, a great person, a mentor, a collaborator, a friend.

DR. LYNN HERTEL • 1951-2005
CETI Member 2003-2005

We were all saddened in the spring of 2005 by the untimely death of Dr. Lynn Hertel. Lynn earned a B.S., Masters and PhD degree from the Biology Department at UNM, the latter conferred with distinction in 2004. Lynn distinguished herself with a productive research career, playing an instrumental role for two decades in maintaining the Department’s research efforts in parasitology and comparative immunology. She was one of the world’s authorities on the biology of the snail-transmitted schistosome parasites that infect humans throughout much of the tropical regions of Africa, Asia, and South America. Dr. Hertel also was the resident expert for many of the techniques employed by scientists in the Biology Department, and was in regular demand for advice and assistance. She was known for an utterly unflappable and nurturing demeanor, and for steady and persistent effort that paid off with surprising and novel scientific dividends. She was also a connoisseur of food and wine, an expert skier, diver, and racquetball player, an avid gardener with a particular expertise in orchids, and a devoted wife and mother.
Museum of Southwestern Biology
Annual Report
Calendar Year 2005

Submitted by:
Donald W. Duszynski, Director
October 3, 2006
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I was appointed the new Director, in January, 2005, but did not officially assume my duties until July 1. In the interim, two important accomplishments were achieved.

First, occupation of CERIA began in 2003, but it wasn’t discovered until 2005 that a number of egregious errors and omissions were made during the two construction phases of the building (see below). One of the most important was that, somehow, the flammable fluid storage room mandated by law, “disappeared” from the Phase II construction plans (no one seemed to notice!). Such a room (with 4.5 hr burn walls) is mandated by state fire codes to store 55-gallon containers of formalin and alcohols. A proposal was submitted by Manuel Molles and me (April 20, 2005) to the administration for Minor Capital Improvement Funds to construct the proper storage facilities on the west loading dock using plans drawn, and estimates given, by ESA Construction (February 3, 2005). Funds, in the amount of $62,740, were approved on June 1, 2005, and agreed to be shared between the VPR office and the Dean of Arts and Sciences (A&S). Unfortunately, construction was delayed in 2005 because the proposed storage sheds can’t be built until the loading dock, which is sinking, can be repaired. There seems to be no UNM-PPD money available in 2005 to do this.

Second, I secured the funding to hire the first Group Administrator for the MSB. For the record, the salary for this position is initially to be shared between the MSB (50%), by using one of the seven GA position usually assigned to it, and the College of A&S (50%), presumably from its F&A. The verbal agreement reached is that this arrangement would continue for FY 2005-2006 to be reviewed and renewed in the Spring, 2006, for a second year of funding. The implied assumption being that if this administrative position is found to be critical to continued operation of the MSB, it would eventually become a line item staff position in the A&S budget.

On June 30, 2005, I attended the CERIA Building One-Year Warranty Review attended by John Mazzola and Ronald Jacob (GSL), Lou Castillo (UNM/DFP), Pete Nieto and Ralph Alires (UNM/PPD), Steve Brunson (ESA), Stephanie Eberhard (UNM, Media Arts), Manuel Molles (his last day as Director of MSB) and Catherine Osborn, who was to become MSB Group Administrator on July 1. This was the day that the architects (GSL) “officially” turned over CERIA to UNM. At the meeting, a number of safety and security issues, ESA warranty issues, and (potential) UNM improvement issues were identified and discussed. By the end of this meeting it was clear that I was taking over a division in a building that was not complete and that had serious health and safety issues that needed to be addressed immediately. Thus, soon after July 1, I began to research the history of the construction of the old bookstore from the time it was vacated until the time it became “CERIA” and occupied by not only the MSB, but also by the Long Term Ecological Research (LTER) Network Office, UNM’s Sevilleta LTER, the Department of
Media Arts, and the Art Technology Center. I interviewed former MSB directors and tried to gather all the written documentation available to address the myriad of problems associated with the construction/reconstruction of this building including the omissions, oversights, and construction failures that occurred prior to occupancy. It was important that I both summarize the origins of shortfalls in funding that did not allow construction to be completed, but also that I list the critical repair issues that were urgently needed to allow all operations of the MSB to occur such that our faculty, staff, and students are not constantly overshadowed by electrical, mechanical, and/or physical failures of the building. The information I gathered was presented in a 10-page memo and submitted October 25, 2005, to the UNM administration as a “$500,000 Request for Major Capital Improvement Funds for CERIA” (Appendix 1, below).

In August, 2005, working with Cathy Osborn, Heather Paulson (Accountant III, Biology), Marla Wonn (Administrative Assistant, Biology), and with the cooperation of Chairman Sam Loker, we were able to separate the seven MSB division budgets from the Biology M&S allotment and to get separate sub-account codes for each. This allows each division to track its individual budget carefully, and in a timely manner, so that MSB can become more fiscally responsible and not overspend as in past years.

Other accomplishments/advancements in 2005 include the following: 1.) I restarted the dormant MSB Publication series by “hiring” (for no pay, of course) Dr. Diana Northup as the new Editor; 2.) I wrote the Mission, Policy, and Guidelines for Authors statements for the new series, which began to solicit manuscripts for publishing on-line articles only; 3.) We (Diana and I) requested and received $3,000 seed money for startup of the MSB Publication Series from the UNM-VPR Office; 4.) I requested and received $6,200 from the A&S Instructional Equipment Budget for teaching equipment (2 high-quality LCD projectors) as part of an integrated program with the NSF LTER-Network Office to support teaching and research in CERIA; 5.) I worked with Susan Dever, Chair, Media Arts, to secure $13,000 for teaching furniture (tables, chairs) and electrical hookups for our LCD for room 337, our shared teaching room; 6.) Secured >$3,000 for new ceiling lighting in the dry collection of the bird/mammal divisions; 7.) Secured >$9,500 for installation of the new dome fan (ER-3) on the roof to properly exhaust the hood above the kettle in the dirty prep lab (room 237) to draw and circulate air properly and be certified by SHEA; 8.) Negotiated with the Maxwell Museum and secured, for the Division of Mammals, the ownership of about 300 trophies in the Frank Hibben collection to the MSB, and 9.) Cathy Osborn and I conducted numerous tours of CERIA with UNM administrators, physical plant and facilities planning personnel, SHEA and Risk Management personnel, the UNM Fire Marshall, and others, discussing building, health, safety, fire, and other issues and working with them to achieve resolution of CERIA problems.

Soon after beginning as Director, it became clear to me that the Curators of MSB have far too many responsibilities, duties, and mandated activities as Curators that go unnoticed and unappreciated by department and college administrations, especially at times of tenure and promotion decisions. With the help of the Curators, I wrote “Codifying Responsibilities for MSB Curators,” a document that we presented to Chairman Sam
Loker (November 15, 2005). Hopefully this document will be considered for discussion by the Biology faculty sometime in 2006 (Appendix 2, below).

The Institute for Natural Resources and Management (INRAM) ran out of funding in February, 2005, a situation that portends disaster for data-basing of the collections, security and updating of data, and all computer related activities. The MSB continued to coordinate data-basing with biology museums at Eastern New Mexico University, Western New Mexico University, and New Mexico State University, but the future of these activities is also in question. This is a critical issue, i.e., MSB is sorely lacking in not having any financial or personnel resources to support our data management infrastructure. Thus, there seems to be no coherent, unified (although unification may not be critical), structured plan for such things as data security, data backup/management, systems maintenance, IT innovation, trouble shooting viruses/worms, purchasing hardware and software, and more. In a first step to try to develop a coherent, comprehensive plan for MSB collection management, data storage, security, infrastructure and the like, I invited Dr. James Beach from the University of Kansas Natural History Museum, to visit MSB and talk to our curators and collection managers about these and related issues to gain an outside perspective of how those in other museums might view our problems and lend constructive criticism and suggestions. Jim and Robert Dewhirst, one of KU’s systems administrators, visited and spent the day (December 13, 2005) talking to us. After returning to KU they were kind enough to prepare a report of their visit. It is attached as Appendix 3 (below), and it should be read by all administrators concerned with CERIA computer and IT infrastructure and security.

Through the effort of Cathy Osborn, MSB web pages have been updated, all prior (hard copy) publications of the MSB Publication series have been added to our MSB Publication series web page (http://www.msb.unm.edu/publications/publications.html) and the web pages of all divisions have been unified. Geo-referencing of amphibian, reptile, and mammal specimens from New Mexico was nearly completed by the end of 2005.

As approved by the MSB Curators, and explained in last year’s 2004 Annual Report, each division in MSB now does only one report, an AY report for the previous year, for both the College and the Department. This makes a lot of sense because of the lag time required for manuscripts to finally be published in some scientific journals, sometime as long as six months, after being accepted and listed as in press. Consequently, MSB’s mid-year report for the College (due in October) summarizes only the previous year, from January 1 through December 31 and, here, lists all the accomplishments of the MSB faculty, staff, and students for 2005.

MSB continued to make major advances and accomplishments in all areas within its mission in 2005:

Visitors to the MSB (761). Annual visitors to the various divisions of the MSB consist mostly of research scientists from around the world, but with a small number of the general public sometimes interested in looking around and/or getting information. The
number reported is for the divisions housed in CERIA, with those visitors coming to see personnel of the USGS logged into either the mammal or bird counting systems.

Peer-reviewed publications (60). These include 47 scholarly articles in refereed journals, 5 chapters published in different scholarly books, 1 lab manual, and 7 web based publications or compendia.

Technical reports completed (35). Some of our divisions, especially NHNM and USGS, are more likely to get funding for their scholarly activities from contracts through numerous federal and state governmental agencies. Such agencies require final Technical Reports to be written and the writing of these reports is no less time-consuming than that needed to produce a quality peer-reviewed publication.

Presentations/posters at national and international meetings (69+). Many of the faculty, staff and students associated with the nine divisions in the MSB attend professional meetings and present the results of their research in the form of oral presentations and posters while others, because of their reputations or expertise, are asked to give seminars at other universities or government agencies. Some, principally VPR Terry Yates, present so many invited talks annually, that he is unable to record them other than listing “many.” Thus, in 2005, MSB faculty, students and staff presented 32 invited lectures and (minimally) 37 presentations and posters at many meetings/venues throughout the world.

UNM courses using MSB collection materials for their teaching (19). Many courses taught at UNM, both in Biology and in other departments and colleges, use specimens and/or data from one or more of our divisions in teaching. Each of the seven specimen-based divisions contributed specimens to these 19 courses that served 520 students.

Number of courses taught (19) and students served (634) by MSB faculty, adjuncts and graduate students. MSB faculty, adjunct faculty and graduate students taught the following classes, sections, and (number of students taught):

Biology: 203, 4 sections (217); 247, 3 sections (75); 324 (12); 386 (42); 446/456 (18); 461/561L (17); 463/563 (14); 482/582L (13); 486 (20); 489 (19); 517 (18); 402/502, 2 sections (25); 502, 6 sections (47); 551, 2 sections (2); 699, 3 sections (10);
A&S: 198, 2 sections (43);
Honors: 301-007 (15).

New specimens catalogued (174,203). The number of specimens archived/catalogued into the MSB annually is an unambiguous measure of the activity of the collections. Because of the nature of fishes and the way in which they are collected, an active fish collection should always inventory a very large number of specimens compared to other vertebrate collections (e.g., birds). Our fish division is no exception, this year collecting 84.5% (147,286) of all new specimens brought into the MSB in 2005.

Personal requests for information (557). Requests for information from the nine divisions can vary from folks who stop in to ask questions, to phone calls from scientists,
government agencies or the general public. Each of these personal requests takes time and uses resources from our curators and collection managers. These requests do not include the tens of thousands of such inquiries/year from hits and downloads of information from our web sites and data bases.

Grants and contracts in force (75). MSB faculty, museum associates, staff, and students participated in research and scholarly activities involving 75 different awards, contracts or grants from federal, state, private, and local agencies in 2005.

Federal, state, local, and private grant/contract/award dollars (app. $71,505,558). MSB personnel had their names on 75 awards worth >$75 million dollars in 2005. However, this number is deceiving because, obviously, $75 million did not come directly to A&S or to Biology or to the MSB in 2005, and neither did much of the F&A generated by many of these funds. Three examples: 1.) Terry Yates, in his capacity as Vice President for Research, is the PI on grant to UNM from the Defense Threat Reduction Agency for a maximum amount of $51,000,000 (University Strategic Partnership, Active Task Orders), but this grant brings no money or overhead to A&S, Biology, or the MSB; 2.) Joe Cook, Curator of Mammals, has a grant for $600,000 from the NIH-NIAID that is administered through UNM’s Medical School to which the entire F&A ($200,000) is distributed; and 3.) several MSB Curators are co-PI’s on the Sevilleta LTER grant ($4,200,00), but the F&A for that grant is negotiated directly with A&S and neither Biology nor the MSB receive indirect costs. In addition, recording outside money received in any time frame is a complex process. Awards are made at many different times of the year and each has a different length of their duration (from months to years) depending on the funding agency and the task(s) required. F&S varies from agency to agency and is awarded in different methods and at different times during the length of the grant. For example, in a grant awarded for five years, the disbursement of funds (and F&A) varies from year to year. The amount of actual participation on any particular grant also may vary; thus, as noted above, at least three of the faculty in MSB are listed as one of many co-PIs on the Sevilleta LTER grant funded by NSF. However, their role in writing the grant was negligible (pers. comm., S. Collins), as well might be their actual participation in the research work done on the grant. Thus, this grant was only counted once in the grant dollars recorded above and it is noted that none of the F&A returns to the MSB. In result, this $71 million is a misleading figure, but it is nonetheless an index of the great activity and versatility of the MSB curators. However, this year I did ask Curators to list both the amount of their research funds that were “in force” in only 2005 along with the amount of 2005 F&A generated by these funds; these amounts were $6,992,011 and $690,185, respectively (see category 6 in each division’s annual report, below).
APPENDIX 1

25 October, 2005

TO: D.W. Harris, Executive VP for Administration  
    T.L. Yates, VP for Research and Economic Development  
    S.R. Beffort, Director of CSED  
    M.J. Slaughter, Associate Dean, Arts & Sciences  
    E.S. Loker, Chair, Department of Biology  
    R.B. Lujan, Director of Facility Planning  
    G.L. Castillo, Facilities Planning  
    R.J. Alires, Manager of Area Four

FROM: D.W. Duszynski, Director, Museum of Southwestern Biology  
       R. Waide, Executive Director, LTER Network Office  
       S. Collins, Director, Sevilleta LTER

SUBJECT: $500,000 REQUEST FOR MAJOR CAPITAL IMPROVEMENT FUNDS, CERIA BUILDING

1. Occupants of CERIA

The relatively new CERIA building (#83) houses the Museum of Southwestern Biology (MSB), the Long Term Ecological Research (LTER) Network Office, UNM's own LTER Office (Sevilleta National Wildlife Refuge, Socorro), the Department of Media Arts, and the Art Technology Center. This request comes from the MSB, the LTER Network Office, and the Sevilleta LTER, on behalf of all occupants of CERIA, for funds to correct/repair the critical functions of CERIA that do not yet work, several of which pose serious health and safety issues for all occupants (see below and Sections 2, 3, 4).

The MSB has been an integral part of the Department of Biology since it was founded in 1928. It houses over three million specimens of plants and animals (amphibians, arthropods, birds, fishes, frozen tissues, mammals, plants, reptiles; see http://www.msb.unm.edu/welcome.html), is well-known and respected for its Southwestern collections and research, and serves local, national and international communities. It affords stakeholders access by providing identifications, information, associated records, and research facilities associated with its collections. During its 77+ year history, the MSB has developed into one of the most prominent university-associated, specimen-based, museums in the nation. To wit, in May, 2004, a review of the MSB by the Research Competitive Service of the American Association for the Advancement of Science (AAAS) stated, "...the curatorial state of the bio-collections (of MSB)...is now on par with or superior to that in major museums and herbaria, such as those at the universities of Kansas, Nebraska, Oklahoma, Texas, Texas Tech, Minnesota, California-Berkeley, Harvard and Yale, as well as at free-standing institutions as the Carnegie Museum, American Museum, Smithsonian, or Field Museum." The MSB also plays a key role within the Biology Department in both research (particularly in the area of biodiversity studies) and teaching.

On October 12, 2005, the House Government Reform Committee unanimously passed House Resolution 389, supporting the goals and ideals of the Year of the Museum. Introduced by Representative Louise Slaughter (D-NY), H. Res. 389 expresses the House's sentiment that "museums are institutions of public service and education that foster exploration, study, observation, critical thinking, contemplation and
dialogue to advance a greater public knowledge, understanding, and appreciation of history, science, the arts, and the natural world." This resolution recognizes and focuses our government's attention on the importance of world-class museums, such as UNM's MSB, to this nation's scientific infrastructure.

The LTER Network is a collaborative effort involving more than 1800 scientists and students investigating ecological processes over long temporal and broad spatial scales. The Network Office promotes synthesis and comparative research across 26 diverse ecosystems in North America, Antarctica, and Pacific and Caribbean islands and among other related national and international research programs. The National Science Foundation (NSF) established the LTER program in 1980 to support research on long-term ecological phenomena in the United States. The Network Office coordinates communication, network publications, and research-planning activities on national and international scales.

The Sevilleta LTER is part of the NSF's Network and is managed by the Department of Biology. Their primary research goal is to understand how abiotic drivers and constraints affect dynamics and stability in an arid land ecosystem.

Over the last 30 years, the Department of Biology and UNM had the foresight to commit critical resources both to organismal, systematic and environmental research and to the protection, preservation and growth of the collections of the flora and faunal in which UNM biologists had particular regional, national and international research interests. They did this by adding $8.1 million of University and State funds to $1.3 million in extramural funding as an investment in the renovation/construction of the CERIA, an investment that now needs just a few critical corrections to be complete and to function properly. Clearly, these divisions now housed in CERIA are among the brightest jewels in UNM's crown; our request is for funds to finally complete this long-standing work-in-progress so that we all can perform the jobs we were hired to do, and achieve the promise of our potential, instead of having to constantly deal with health, safety, and building failure issues.

2. History of Construction of CERIA

This request is intended to address a myriad of problems associated with the 12-year history and eight-year construction/reconstruction of the CERIA building including all the omissions, oversights, and construction failures that inevitably occurred during the construction of a building of this magnitude and complexity.

Below is a brief summary of the origins of shortfalls in funding to complete CERIA during Phase II of construction, as well as a list of the critical repair issues that are now urgently needed to allow all operations in the MSB to begin such that the facility is not constantly overshadowed by building, mechanical and physical failures. We have supporting documentation for some of this history and have reconstructed other portions to best of our ability based on conversations with three previous Directors.

1. The Phase II contract was awarded to ESA construction based on a competitive bid process. It was the first UNM construction contract awarded under the new law that requires prequalification of contractors.
2. The contract included a modest budget for contingencies and change orders. Previous directors are unable to document the exact amount, but various figures cited to us are in the range of $300,000.
3. MANY change orders were necessary because the Phase I contractor (Telstar) failed to complete work that was assumed done during Phase I. Most of these failures were physically hidden and were discovered only by penetrating walls, etc. The costs of change orders soon consumed most of the Phase II contingency fund. For example, in just four months, between 12/12/03 and 4/19/04, the change order log documented expenses of $310,400, most taken from the contingency fund.

4. The building’s security system was sent out to bid prior to Phase II construction and the bids had median values of about $200,000. However, the amount of money allocated to security in the Phase II contract was only $35,000. A portion of the security system was eventually installed and charged against the Phase II budget’s contingency and furniture budgets at a cost of $106,000 (4/19/04 memo from SCI, Inc.).

5. The Phase II budget included $165,000 for furnishings for all of CERIA, including both A&S and Fine Arts areas of the building even though the actual cost to fully furnish the building was estimated at $546,000 (6/11/04 memo to B. Foster). The budget for furnishings was later reduced to $216,000. However, unforeseen contingency draws already had reduced the amount available in the budget for furnishings to $98,000. An additional $150,000 was requested from Provost Foster (8/6/04 memo to B. Foster), but he denied the request. Dean Dasenbrock subsequently allocated $62,000 to furnish critical areas within the Biology parts of CERIA, but included only a classroom (125), and the graduate student room (108). The LTER Network Office provided furnishings, app. $60,000, for their own office areas and fully furnished and equipped the computer training facility on the third floor (room 337), also out of their budget (app. $75-100,000).

### 3. Phase II, Warranty Issues/Problems

3.1. Corridor 138 and room 129: Acid dilution tanks.

**Built in the wrong place:** backs up, overflows and releases toxic fumes; a **serious health hazard to everyone in CERIA;** all sinks in MSB-CERIA empty into these (also see 3.12, below);

Temporary solution, which is working at present: pump installed to pump waste from inlet (lower) to outlet (higher) and sealed floor cover more tightly;

Permanent solution is to jack-hammer concrete back to point where inlet pipe(s) are higher in elevation than outlet pipe and connect pipes to drain wastes out of building. Cost dependent upon amount of concrete that needs to be removed to make reconnection and then replaced. The second tank is located in a custodian closet, room 129, but is currently not in use. However, the same issues apply to this tank as to the tank in corridor 138. The tank is in the building, likely with inlet and outlet pipes misaligned. The difference with this tank is that it is located in the custodian closet, and if there would be an overflow issue, it would take some time to sort out as only PPD Custodial Services has keys to this room.

*Estimated cost: $50,000-100,000.*

3.2. Room 123 (Data storage/server room), communication rooms 128, 219 and 338, and CERIA’s Security System. These are CIRT-managed network-communications rooms.

**Not connected to the emergency generator:** CERIA is connected to a 480V 400A emergency generator capable of running at full capacity for 8 hours; it is tested monthly to ensure it is running properly and the fuel tank is full, and it is load-tested each year by PNM. During the Phase II construction, it was determined that there was insufficient power to the room and a second electrical service line
was installed. When the line was installed, neither the outlets from the original line nor the second service line were mapped to ensure they were connected to the generator. Thus, someone neglected to connect these rooms to the emergency generator! AND...Conversations with Greg Hallstrom (UNM Industrial Security) and Frank McQuerry (UNM Alarm Systems) verify that CERIA's security system also is not connected to the emergency power generator.

*Estimated cost: App. $15,000 as per Ralph Alires. It is critical for these rooms to be connected to and supported by the emergency generator.

Installation of UPS backup power and lightning protection units: These rooms not only must be hooked into the backup generator system, but they also need UPS systems to provide uninterrupted power (and surge protection) during power flickers and until the generator kicks in (app. 15 seconds) for long term outages.

*Estimated cost: $600 as per Cris Landgraf and Tony Waldron at CIRT, including installation of the units.

3.3. Room 124 (Arthropod research).

**Six (6) point-exhausts/Nederman arms:** Still not installed because negative airflow is insufficient; need larger exhaust fans on roof that have still not been installed (see 3.13); arms are needed for working with formaldehyde and isopropanol fumes in/from trays; cost covered in warranty; this is a health hazard!

**Wall shelves:** move and slope enough that wet storage is unsafe; Institutional Products was supposed to investigate appropriateness of this product for this application.

**Room temperature thermostat control:** is supposed to have manual over-ride, but it does NOT control the temperature;

*Estimated cost: Nederman arms and wall shelves should be covered in warranty, but room temperature thermostat likely is not. E-mail from Bob Notary (UNM PPD Facilities Engineer) to Lou Castillo 19 Sept 2005, “provide and install 16 snorkel exhausts (of smaller diameters than originally specified), approximate cost $15,000. Replace UF-3 with a larger fan to provide proper exhaust for Lab 124, approximate cost $15,000.

3.4. Rooms 135, 137, 135-142, 143/144 (Divisions of Fishes, Amphibians and Reptiles)

**Room 135:** Six (6) point-exhausts needed and duct work to accommodate one point-exhaust;

**Rooms 135, 137:** Wall shelves on standards slant forward and are unlikely to support weight of jars;

**Rooms 135-142:** Laminate built-in casework: drawers don’t slide out, generally problematic, with faulty door guides; floor molding and desk top lamination needs to be re-glued; this also is a problem in several rooms within the Herbarium space. In room 253 of dry collections and others; Institutional Products was supposed to investigate and replace/repair; in fact, the casework throughout CERIA is faulty. The bottom drawers are too shallow to accommodate file rails for hanging files. The contractor looked at some of the casework and saw that one area was using books placed at the back of the bottom drawer to hold the files up and said that appeared to be adequate.

**Rooms 137, 140:** Each room needs one point-exhaust installed;

**Room 143/44 (Fish, Herp prep lab):** Four (4) point-exhausts/Nederman arms:
Still not installed because larger exhaust fans have still not been installed on the roof (see 3.13); wall shelves on standards slant forward and unlikely to support weight of jars, thus, unusable as installed; fume hood--sash not properly installed (door does not completely close); New dishwasher doesn't heat water hot enough to clean/sterilize bottles; water and only reaches 113° F, not required 120° F; a promised (in Warranty Review meeting, 06/30/05) new in-line heater hasn't been installed yet; cost should be covered in warranty.

*Estimated cost: Unknown. Built-ins and Nederman arms should be covered by warranty but, apparently, the new dishwasher is not and will be a net new expense.

3.5. Rooms 214-217 (Arthropod work area).

Door repairs: Room 216 door sags in its frame and will not lock; all doors in Arthropod Division (214, 216, 217) need better seals to prevent movement of insect pests (carpet beetles), door frame insulation strips, and door thresholds as needed (e.g., threshold into collection room [217] was never installed); in fact, doors in all collection areas need better seals, door frame insulation strips, and door thresholds to keep out arthropods and other potential pests;

Room temperature thermostat control: 114 and 217 have manual over-rides, but these do NOT control the temperature;

Concrete floor in 217: Needs to be tiled or painted; Phase II ran out of $$ before this could be completed.

*Estimated cost: Unknown. These all need to be fixed but, apparently, are not covered under any specific contract.

3.6. Dermestarium (bug room), Room 218 (old 232).

The bug room in the basement of Castetter Hall will be closed in December, 2005, due to classroom renovations funded and ordered by the Legislature. All vertebrate divisions in MSB (esp. birds, mammals) depend on the bug room to clean skeletons; their work will come to a halt without it.

The “new” bug room in CERIA, presumably built to specs, is inadequate because it has neither the proper heating/cooling unit to maintain constant temperature (85° F with 10% outside air) and humidity (50%) nor the proper venting system (to roof); these and other jobs such as wall insulation (?) and sealing remaining penetrations (switches, conduits) and doors all still need to be completed. On 03/14/05 Lee Imhoff (UNM-PPD) sent a memo to Ralph Alires (UNM-PPD) and others outlining a proposed solution for the bug room: “A 1-ton package rooftop unit is recommended with gas heating and fresh air intake set at 10%. The exhausted air shall not interfere with building air intakes. Install bug screens at the diffuser and return air grille. The ceiling should be lowered with gypsum board for better temperature control.” And, sealed lighting must be installed. Still on hold due to lack of funds.

*Estimated cost: E-mail from Bob Notary (UNM PPD Facilities Engineer) to Lou Castillo, 09/19/05: “replace small electric wall heater with refrigerated air unit for Bug Room to provide 85° F and outside air, $45,000.” This cost includes complete refinishing of room as noted above including HVAC unit.

3.7. Room 237 (Dirty prep/Kettle room).
Hood: Was supposed to be "fixed" but, unfortunately, it was not fixed enough to be certified; exhaust is still too little and needs upgrade of a more powerful exhaust fan. The makeup air needs to be adjusted to prevent room from overheating in the summer (degrades tissues, reduces value in genetic analysis). As the exhaust draws in the ambient outside air, this affects the kettle and the room. During the summer months, warm air is drawn into the room and during the winter months, the colder air that will be drawn into the room will directly affect the kettle, as it chills the kettle, reducing its effectiveness. This is still a work in progress;

Light under hood: needs to be installed to provide light for working; this was not in Phase II plans (why not?) and, thus, must be paid for separately.

*Change order request #99 from ESA Construction: replace dome fan ER-3 with a utility set and stack for dirty prep room to prevent exhaust re-entrainment at AHU inlet, cost: $9,425.45.

3.8. Room 320A.
There is a serious southward slope/slant to the floor on the eastern wall. We do not know if this indicates a possible structural fault or poor construction standards of the past, but this should be investigated.
*Estimated cost: Unknown, if any.

3.9. Rooms 324, 324A, B, C (Division of Genomic Resources).
Air system: Still improperly configured. Air from this division was supposed to be separate, and controlled separately, between the freezer room (324) and the offices (324A, B, C). It wasn’t done during the construction and no one wanted to correct it after the fact due to cost. The compromise was to set the same temperature for the entire space (app.1,932 ft²); this means the temperature in the freezer room is too warm (shortens life of the compressors) and the offices are too cold (requires occupants to wear sweaters, coats, sometimes gloves/mittens).

Hepa-filter hood/filters: The company contracted by UNM to certify the hood checked it the week of 09/12/05 and it did not pass. The inspector said that it needs new filters and that the current filters probably wore out faster than expected due to the constant construction in the building over the last 2 years. There is no budget for new filters; cost app. $1,000/filter change.
*Estimated cost: $1,000/filter change plus amount needed to reconfigure the air handling system.

3.10. Room 335 (Information Technology Training Lab)
Temperature control: This has been a constant issue since the building was occupied. This may be a problem with programming or it may be a more serious issue, but it is one that must be investigated and solved. This room contains $75-100,000 invested in 20 state-of-the-art computers and accompanying peripherals that best not be exposed to temperature fluctuations; this room is used seven days a week.
*Estimated cost: Unknown.

3.11. Fluid storage room (doesn't exist!).
Somehow, the flammable fluid storage room "disappeared" from the Phase II construction plans and no one seemed to notice. This room is a fire code issue and without having the appropriate space (4.5. hr. burn walls) to store 55-gal.
containers for formalin and alcohols, we are in violation of fire codes. A request was submitted by Molles and Duszynski (04/20/05) for Minor Capital Improvement funds to construct proper storage facilities on the west loading dock using plans drawn and estimates given by ESA Construction (02/03/05), and funds ($63,696) were approved by the VPR and the Dean of A&S (06/01/05). Unfortunately, the proposed storage sheds can't be built until the loading dock, for which there seems to be no PPD money available, is completed (see 4.1, 4.2, below).

*Actual cost: $62,740; this money is in hand. The pricing for this work is currently being reviewed as ESA believes it would be to the advantage of the customer to use all cement block for the exterior structures rather than a mix of block and wood, as originally planned.

Fumes from the sewer exhaust: Effluent from acid dilution tanks and specimen prep rooms are pulled into the air intake because of their location (directly west) and size (lower than air intake). This event instantly can fill the building with nauseating fumes that likely pose a health hazard due to people in CERIA being exposed to fumes containing toxic chemicals (e.g., formalin). On 06/30/05, under Safety & Security Issues, during the One Year Warranty Review it was noted, "... need taller exhaust ducts to prevent air intake from re-circulating [exhaust air] throughout building" and, "install utility fan and taller exhaust stack to help prevent air from re-circulating throughout building as outlined in CME document #102326." Interestingly, CME #102326, from Wayne Yevoli (CME) to Lee Imhoff (UNM-PPD) was written 04/18/05. Why wasn't the recommended solution done earlier? No one seems to have the money to pay for stacking (4/18/05 memo).

Acid dilution/sewer vent: Has been re-vented over to parapet away from the air handler air intake, but it needs better supports to hold it in place.

*Estimated cost: Unknown.

On 06/17/05 Wayne Yevoli (CME) wrote memo #102328 to Lee Imhoff (UNM-PPD) proposing design recommendations and fan changes to increase the exhaust flow in both the wet (Rm. 143) and arthropod (Rm. 124) labs to meet SHEA's requirements of additional fan horsepower to compensate for the existing duct size and CFM's required. On 06/30/05, under Safety & Security Issues, during the One Year Warranty Review it was stated, "Install larger exhaust fans for UF-2 and UF-3 per CME document #102328—larger HP needed for more CFM..." To our knowledge, only 1 larger (?) exhaust fan has been installed; On 07/01/05 John Mazzola (GSL) instructed Steve Brunson (ESA) "to proceed with the installation of the exhaust fans UF-2 as specified in the 06/17/05 CME document #102328 addressing the need to increase the horsepower of the exhaust fan." (6/17/05 memo) This is still a work in progress.

*Estimated cost: E-mail from Bob Notary (UNM PPD Facilities Engineer) to Lou Castillo dated 19 Sept 2005, "Replace UF-2 with a larger fan to provide proper exhaust for Labs 124, 137, 139, and 143" Change order request #98 from ESA Construction, $14,545.45.

4. Other serious building issues/problems

4.1. Loading dock is sinking.
A serious safety issue: Need to rip up old bricks and sand, resettle, compact and pour a 6-8", re-bar reinforced, cement slab. This work is now being completed by UNM-PDP (Ralph Alires), but Ralph is using money from a less critical project to pay for this one and his account must be reimbursed.

*Estimated cost: $35,000.

4.2. Storage shed construction.
Two storage sheds and a flammable storage unit have been designed. The storage units will be used for field gear and surplus equipment; Fish and Herps will share one unit and Mammals and Genomic Resources will share the other. The flammable storage unit is CRITICAL for complying with fire codes to store 55 gal. containers of formalin, isopropyl and ethyl alcohol;

* Estimated cost: Money already has been appropriated, but can't begin construction until the repair of the loading dock (4.1) is complete; work to be done by ESA.

4.3. Building security system.
The system is not completed. There are still four outside doors that must have card-swipes, 2nd floor East (2) and North, 3rd floor East. However, only one, 2nd floor East (1) has the wiring for the card swipe in place.

*Estimated cost: $8,000 for card-swipes, only for these 4 doors. Verification from Greg Hallstrom (UNM Industrial Security) that to fully complete the security system as originally designed would be approximately $100,000. Greg will provide full details upon request.

4.4. Building furniture.
Teaching and office furniture: Most of the 120+ individuals occupying dedicated space in CERIA had to find their own furniture from a variety of surplus sources; thus, most of the furniture is old, some of it jury-rigged (e.g., a door on 2 boxes or file cabinets to make a table), and none of it matches; a description of the decorum might be a “Salvation Army” motif. This will look shoddy, even embarrassing, to state and federal politicians if we ever can fix enough of the building health problems to host an Open House, as requested by the VPR Office. We need to replace at least the amount budgeted that was used for the (uncompleted) security system. Also, app. $13,000 for 3rd floor classroom furniture (Room 337) promised a year ago by Jack McIver, was never released to us.

*Estimated cost: $250,000-$300,000.

4.5. CERIA Front door.
No handicapped egress.
*Estimated cost: $500.

4.6. Lobbies 201, 301, main hallways (and other entries?).
Signage/display boards: Lobby area(s) in the main entrances need professional signage to direct people entering CERIA from all doors. It seems both important and professionally proper to formalize the main "public" hallways for the various units in CERIA by installing attractive and professional display boards for directions, specimen and/or research displays, etc. to make visitors and invited guests feel immediately welcome, rather than bewildered as they are now facing slate grey cement with no signage to direct them.

*Estimated cost: $5,000.
4.7. Stair 1.  
Paint/tile: The front stairwell walls, basically the main entryway into CERIA, were left unpainted and the floor landings/stairs remain un-tiled. This is unsightly and must be an oversight because Stair 3 has painted walls and tiled stairs and landings.  
*Estimated cost: $10,000 (?).  

4.8. Inside MSB Receiving Area (234).  
Storage construction: Remains undone.  
*Estimated cost: $3,000.  
Heating, cooling air circulation: Heating, cooling and air circulation are issues in the receiving area, in the anoxic treatment (217) and in the plant drying (218A) rooms. These areas have no discernable heat in the winter months and fumes from this area (e.g., from a charcoal grill just inside the receiving area) are pulled into the air intake ducts to circulate throughout the building.  
*Estimated cost: Unknown.  

4.9. Renovation of office space for new MSB Curator.  
Renovate an existing office space: We will be hiring a new Arthropod Curator in the Fall Semester 2006. There currently is no dedicated office for this UNM hire. It is both necessary and critical that we have the funds in hand to renovate existing space in CERIA to accommodate this individual.  
*Estimated cost: $35,000.  

4.10. Functional water bib on the dock.  
Needed to facilitate cleaning traps and other field equipment. A hose bib exists but during Phase II construction the water line was (somehow) terminated and a new line may need to be installed. Currently this washing is done inside the building and the users believe this to be a potential health hazard (unsanitary) and it is very messy.  
Estimated cost: $3,000.  

4.11. The roof still leaks!!!  
Not only does the roof still leak (it has been repaired/replaced twice??), but it is doing damage to the ceilings and walls inside the building. The noticeable leaks occur in the southeast corner of CERIA, near the bathrooms and hallway, and in the West stairwell, the main entrance into the building. If it rains during our open house, these leaks will further embarrass us when dignitaries are in the building.  
*Estimated cost: Unknown. The roof still is under warranty, but the contractor has not yet been paid-in-full by Telstar and, thus, is resisting doing any additional work.  

4.12. Room 223 (Dry Collection Room).  
Lighting and telecomm port plates and connectors: The lighting that was requested in Phase I was horribly inadequate as completed. The "day-light" needed to accurately examine coloring in bird feathers was fabricated in a very second-class fashion on the north end of the collection space (it fits well with our "Salvation Army Modern" motif); likewise with the ports provided in the floors midline in this space. Receptacles need to be installed that match other Telecomm level installations.  
*Estimated cost: $2,000.
4.13. Media Arts Rooms 337, 360, 370.

Temperature control in rooms: Since Media Arts moved into CERIA they've had trouble with the thermostats, particularly in one office (370), their conference room (360), the shared seminar room (337), but also in some faculty offices along the outside wall. It seems the thermostats don't respond to changes very quickly, if at all. When the outside temperature changes in the fall and spring, there seems no way to adjust the room problem immediately. In the past they've had 80+ degree rooms and 57-degree areas which could not be controlled. We understand that the air temp is regulated by hot/cold water pipes and that the system has a built in (artificial intelligence) computer sensor system that is suppose to collect data over a few days and adjust the system to regulate with the outside air. And we realize that if the temperature outside drops 20 degrees over night, the system may not compensate for a day or two of colder weather. Nonetheless, the system seems so sluggish and non-responsive at times it really needs to be looked at seriously to determine if there are sensor malfunctions.

*Estimated cost: Unknown.*
Section 1: Standard Activities and Criteria for Evaluations

1.1. This document is intended to clarify the duties, responsibilities and expectations of Curators in the MSB. Such understanding is useful, and critical, both when new Curator candidates are recruited, interviewed and hired and, later, when their accomplishments are reviewed/evaluated for code advancement, tenure, promotion, and merit. In reality, professional Curators at UNM have real joint appointments with full expectations for productivity in both their academic (Biology) and museum (MSB) roles.

1.2. Each Curator in the MSB holds a tenure-track faculty position in the Department of Biology. As is the case for all tenure-track Biology faculty, the categories for evaluating a Curator’s performance include: teaching, scholarly work, service, and personal characteristics. Precise definitions and expectations in each of these areas are spelled out in detail in subsequent sections of the Faculty Handbook.

1.3. In addition to meeting the expectations of regular tenure-track faculty, each Curator also has considerable curatorial responsibility, which constitutes a significant portion of his/her workload. Each must supervise and work with a staff dependent upon the size and funding of their division. This work effort includes, but is not limited to, a Collection Manager, Graduate Assistant (learning curatorial practices and applying them), student and work study employees, visiting scholars, Emeritus Curator Professors in residence, and others. As a result, these additional tasks, duties, and responsibilities need to be understood when Curators are hired and later when their tenure and promotion cases are considered within the Biology Department. It is the intent of this document to define these purely curatorial responsibilities so that they will be given credit and be evaluated in hiring, tenure and promotion processes.

1.4. Other aspects of interactions between the MSB, its Curators, and the Department of Biology are spelled out in the document dated 1 March, 2002, Administrative Reorganization of the Museum of Southwestern Biology.

Section 2: Curatorial Activities and Criteria for Evaluations

2.1. Assistant Professor and Curator

Evidence of curatorial ability and a commitment to developing and managing their research and teaching collections will include the following:
2.1.1. Curator will develop the collection as a research resource for studies of biological diversity;
2.1.2. Collection care includes responsibility for the physical condition and storage of the specimens, corresponding documentation, budgetary management, and annual reports. Specifically, Curators will attend to:

2.1.2.1. Preserving the specimens and materials under their purview through the use of methods and techniques professionally accepted within their respective discipline;

2.1.2.2. Ensuring that all records and field notes concerning collection materials are maintained in a secure fashion and meet or exceed documentation standards for their respective discipline;

2.1.2.3. Maintaining current accession files, de-accession files, and catalogues of specimens in their collections and developing electronic databases with computer data formats that follow data standards of their respective discipline;

2.1.2.4. Developing, maintaining, and revising written policies and procedures for curation, use, and loan of specimens in their collections;

2.1.2.5. Accepting responsibility to make their data available in the most up-to-date media; i.e., both maintaining digital relational databases and having those databases linkable to data aggregation and discovery sites accessible on the internet;

2.1.2.6. Maintaining the necessary state, federal, and international permits related to the management, loan, and accession activity of their collection;

2.1.2.7. Ensuring that the collections are available and accessible to qualified investigators within the limitations of available resources and research initiatives of affiliated personnel.

2.1.3. Curators may take part in interpretive activities (e.g., education, exhibitions) to help fulfill the MSB’s mission to interpret natural history and biodiversity.

2.1.4. Curators will actively prepare grant applications for external support for their curatorial activities and collection-based research, the former representing an additional load relative to most other faculty.

2.2. Associate Professor and Curator

2.2.1. Each Curator must have established curatorial procedures that satisfy standards of the disciplines associated with the collections under his/her care. Standards of curation and documentation must meet or exceed those accepted within their discipline.
2.2.2. Consistent contributions to collection-related inquiries from other professionals, the public, and state agencies, and/or development of interpretive materials for the public-at-large (e.g., Health Fair Day at the Student Health Care facility) are expected. Use of the collections for teaching and/or research must be evident. Active solicitation and award of external funds to support curatorial activities and collection-based research must be evident.

2.2.3. The collection shall have achieved a national reputation for research productivity.

2.3. Professor and Curator

2.3.1. Significant development of the collection under the Curator’s care is expected. This development includes sustained growth of the collection as a research resource and as a means of fulfilling the MSB’s mission of acquiring, preserving in perpetuity, investigating, and interpreting specimens in the division’s holdings. Significance of collections will be measured in terms of research significance, value to Biology’s teaching (including graduate education) and research programs, and value to national and international research programs. Curation of collections must be superior in terms of national standards for the discipline.

2.3.2. The collection shall have achieved an international reputation in research productivity.

Section 3: Evaluation

Since, in several cases, definitions of curatorial responsibilities refer to “professional” records and standards, external evaluations must be a part of all processes leading to promotion/tenure decisions on faculty who begin to serve as Curators after July 1, 2006. The Director of the MSB will work with the Chairperson of Biology in identifying suitable external reviewers with relevant curatorial experience at peer institutions.
Dear Don:

It was a pleasure to visit the MSB on December 13, 2005 to interview curators and staff about MSB computerization issues. In the full-day of group meetings and individual interviews, Rob Dewhirst and I witnessed the substantial number of informatics activities of MSB personnel and we also experienced their enthusiasm for collections computerization. We were impressed also, by the number of opportunities available to the MSB, for biological collections community leadership with computerization methods and for specimen data collaborations with external agencies and organizations.

We, at the University of Kansas Biodiversity Research Center, were in a similar stage of development with museum computerization about six years ago. We had the same kinds of opportunities, technology challenges and broad staff interest for bringing museum data resources to the Internet and for advanced computational approaches. It is fortuitous, that we can offer a perspective on what you are facing, based on our own experience of building a museum computing and communications infrastructure for research, education and outreach. Our findings and recommendations are below; we hope you will find them useful.

1) Systems Administration. The MSB is facing a real, crippling crisis of computer and network management due the absence of professional computer systems support. We saw ample evidence of department and project staff being in states of ongoing exasperation and frustration because a professional level of routine (but not necessarily simple) server, workstation and network, systems administration does not exist in the MSB. This is a very bad situation, not only for research and museum management productivity, but also for MSB security. Your machines are under maintained, there is no coherent management strategy for the MSB’s hardware in almost any aspect of computing. There is no strategic planning with acquisition of new hardware, for licensing software, for maintenance options, for software update support, for network configuration and administration, for machine security management, for coordinated back-ups, or for network security.
There is no professional help-desk support for handling routine daily staff and researcher computing issues. As a result of the lack of technical oversight and management, you have a mish-mash of unsupported hardware and software, and the MSB is dangerously over-exposed and under-protected against electronic viruses, hackers, break-ins and other related network security threats.

**Hiring a professional systems administrator for the MSB should be your top priority.** An organization the size of the MSB, with the diversity of projects and people it supports, will never be able to address high-payoff computational activities (e.g. for research impacts, attracting funding, developing data partnerships), unless its systems are maintained and protected. We learned at KU that we could not move forward with research data management and analysis unless we had stable, supported server, desktop and network systems that were managed on an ongoing basis. We just don’t see how the MSB will advance out of the morass of never-ending issues that evolving information management technology brings with it, without a systems administration staff. Our absolute minimum staffing recommendation to you is to hire a full-time senior systems administrator with at least five years of experience in managing a heterogeneous, academic computing infrastructure. This is not a part-time student job, nor is it one for a grad student or a post-doc with interests in computing. The MSB needs a professional, trained, experienced systems administrator—to start. This person is going to be exceedingly busy catching up with unmet requirements and ongoing requirements for MSB systems administration. This individual would need to think strategically about computing in the context of the organization, would need to work with campus contacts and staff to define support and security policies, and then he/she would need to implement those strategies.

Our minimal recommendation is that you also hire a half-time engineering student to assist the senior systems administrator with all of the day-to-day helpdesk support activities. One serious risk with hiring an experienced systems administrator who can work at a strategic and management level, is to have that person be completely distracted by the endless, mundane hardware and software issues that arise every day in an organization of your size. This person must have uninterrupted time to deal with network and server configuration issues. The systems admin should oversee a half-time employee, or better, two half-time employees, who could be technology students, who would interact and support MSB research, student and staff users. We would strongly advise not to hire an experienced systems administrator and then ask the person to respond to all of the daily helpdesk requests.

2) **Data Management.** We are fortunate here at KU to have several professional software engineers in the BRC Informatics Department (primarily on grant funding) so that when we get into a jam with a research or collection data issue, such as merging or transforming data sets or dealing with quality control or completeness, we can ask one of our software developers to help us solve the short term problem. Most museums do not have such a standing army of research
software developers to call upon to solve data management issues that impede research and collections management productivity. After systems administration, data management is the next hurdle that a research organization like the MSB faces. Borrowing time from grant-funded software engineers works to an extent, but not for the long-term, and not at all, if you do not have any professional software people in-house. We saw many examples at MSB where researchers/staff had modest, ordinary issues with data management that prevented them from taking next steps with their projects. Usually these were issues that could have been fixed with some small amount of utility programming, script writing, or other kinds of data ‘munging,’ but in the absence of this kind of utility software support, we saw desktop applications that were half-functional, data projects that were on hold, and desirable management objectives that were unapproachable.

In our experience, these kinds of situations are common in academic computing environments—occasionally they turn into crises with a grant reporting deadline, or a legal reporting obligation or some research collaboration objective can not be met.

Supporting a minimal level of professional data management would let departments and projects breakthrough data management handicaps; it should be a second priority. This assumes that your systems are being actively managed and that they are stable, supported and secure. We don’t think you can proceed to a productive level of organization data management unless systems administration is stabilized.

These kinds of data management requirements often sidetrack research and management objectives. We’ve seen students and, on occasion, family members drafted to hack temporary, amateur software fixes (e.g. with web sites or database applications) that become one-off, fragile, undocumented and unsupported pieces of the organizations computational infrastructure. You don’t want the web interfaces to your institutional databases, being dependent on a piece of web server software written by a biology major who just graduated or by the post-doc who is going to be around for another six months. With collections computing (even if biological collections database applications supported by an external provider), software support for in-house, specialized data management tasks would have a huge impact on MSB’s research competitiveness. With this kind of data management expertise, one can deal with organizational data issues quickly and securely, demo software can be assembled easily for proof of concepts, research data bottlenecks can be efficiently eliminated, etc. A museum data manager with professional-level programming skills, who could be shared across all in-house efforts, would be catalytic for the MSB.

3) Collections database applications. Natural history collections are enormous information sources and all but the largest organizations who can afford in-house application developers, struggle with collections data management software. Data
associated with biological collections is rapidly being deployed to the Internet and many of your collections are rushing to be part of the global transformation of collections data into internet-searchable databases. We have a biased view about biological collections database management software because we distribute and support a database application, Specify, with NSF-support to about 120 collections worldwide. That being said we noted that the MSB has an assortment of database applications in-house, some the result of recent software development projects, some are applications from external sources being evaluated and tested. Because collections database applications play such a central role in the management and research functions of a museum, they deserve a lot of attention from an organizational technology management and strategy perspective.

We think these are the major issues to consider. (1) A database application needs to meet the needs of day-to-day collections management activities, e.g. managing transactions, printing labels, easy edit/entry and the like. (2) The application needs to interface with the institution’s web servers both for HTML and XML data interfaces—one way or another. (3) The application needs to be well-supported by someone. The software provider should have responsive helpdesk services. The application code should be updated and maintained on a regular basis as an ongoing, dedicated effort. (4) There should be some level of understanding and evaluation about the components and the software engineering methods that were used to create and maintain the software package. (5) Ideally the application should be licensed as an open-source product if obtained from an external provider or vendor. (6) Computing in the research collections community is evolving rapidly. Software architectures and network services are being developed and deployed that will leverage the data contributions of individual collections and museums into virtual communities of research computing. NSF is investing heavily in integrative computing architectures in the sciences. Biological collections should keep aware of those developments and be in a position with their software applications to plug their databases and data services into those research community computing architectures. These broader research community issues should be kept in mind as you develop an institutional software strategy for collections data management.

Don, please let us know if we can provide any more feedback. With the level of professionalism and enthusiasm that you have in the MSB, we’re sure you will be successful in all of these things!

Sincerely,
/s/

James H. Beach
Assistant Director for Informatics

Robert Dewhirst
Senior Systems Administrator
DIVISION OF AMPHIBIANS AND REPTILES

1. DIVISION HIGHLIGHTS

The most significant development in the division during 2005 was the assessment of the completed geo-referencing, that is, assignment of geographical coordinates that correspond to the collection site of each specimen in the collection. During 2004, we were able to process over 19,000 unique localities where specimens were collected in New Mexico and in 2005 we worked on assessing their quality and integrating the information into our database.

Over 800 specimens were added to the collection, mainly from New Mexico. In addition, we continued with our effort to systematically check and curate the collection. During 2005, we were able to finish completely checking all amphibians and some lizard families.

Significant time was devoted to pursue different funding opportunities and establishing relationships with local agencies and groups. Out of two major grant applications, one was successful, with funding starting in 2006. The division lent support to several students and researchers pursuing collecting and inventory work.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth (specimens catalogued)</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Information Requests Personally Responded to</th>
<th>Publications Citing MSB Specimens</th>
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</thead>
<tbody>
<tr>
<td>852</td>
<td>2</td>
<td>3</td>
<td>84</td>
<td>158</td>
<td>2</td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTIONS

BIOL 386 – General Vertebrate Zoology, Spring and Fall, >100 students
BIOL 324 – Natural History of the Southwest, Fall, 12 students
BIOL 402 – Field Herpetology, Spring, 11 Students

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

H.L. Snell

BIOL 502 - Field Herpetology, Spring, 1 student.
BIOL 551 – Research Problems, Spring, 1 student
BIOL 699 – Dissertation, Spring, 3 students
BIOL 386 – General Vertebrate Zoology, Spring, 42 students.
BIOL 402 – Field Herpetology, Spring, 11 students.
BIOL 499 – Research Problems, Spring, 1 student.
BIOL 551 – Research Problems, Fall, 1 student.
BIOL 699 – Dissertation, Fall, 3 students.
BIOL 203 – Ecology/Evolution, Section 1, taught with Poe, Fall, 48 students.
BIOL 203 – Ecology/Evolution, Section 2, taught with Poe, Fall, 36 students.

S. Poe

BIOL 203 – Ecology/Evolution, Spring, 40 students.
BIOL 203 – Ecology/Evolution, Section 1, taught with Snell, Fall, 48 students.
BIOL 203 – Ecology/Evolution, Section 2, taught with Snell, Fall, 36 students.

B. Graduate Students

R.B. Phillips

BIOL 247 – Anatomy & Physiology I (3 sections), Spring and Fall, 75 students.

H.L. Bateman

BIOL 386 – General Vertebrate Zoology (2 sections), Spring, 42 students.
BIOL 324 – Natural History of the Southwest, Fall, 12 students.

5. COLLECTION MANAGEMENT

Division staff catalogued over 800 new specimens into the collection and processed nine accessions. The majority of these new specimens were from New Mexico and the most active research areas for the collectors associated with the division.

Though the division did not host many visitors, staff handled over 150 requests for information, ranging from simple species trivia to complex database queries. We continued with an effort to better secure our data. Additional computer hardware and new procedures have helped to develop backup strategies that minimize all types of risks (from hardware failure to fire). There are five functioning work stations and one main data computer. Work stations are connected to a separate windows server, thus minimizing maintenance time and costs. Both main computers are protected behind a hardware firewall and backed up weekly to an external hard drive and monthly to a tape.

6. AWARDS, GRANTS, AND CONTRACTS

$30,734. NSF Subcontract from University of Kansas. Banner Index #048629. Development of a Distributed Information Network of North American Herpetological Databases; H.L. Snell; 10/05-10/06. $5,000 (F&A $1,667).

$300,000. Charles Darwin Foundation. Banner Index #048015/6. Program of Collaboration in Conservation Biology. H.L. Snell. 05/01-05/06. $0 (No F&A).

7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes


B. Journal Articles


C. Web-Based


D. Technical Reports


E. Theses/Dissertations Completed

None.

F. Work In Progress


G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers


8. ACTIVITIES IN LEARNED SOCIETIES

A. Invited/Plenary Talks and/or Seminars

**Giermakowski, J.T. and H.L. Snell.** Increasing the value of regional collections through collaborative efforts: herpetology of New Mexico online. HerpNet meeting. University of California at Berkeley. October.

**Poe, S.** Quantitative tests of models for the evolution of development. Invited seminar speaker, State University of New York, Stony Brook NY.

**Snell, H.L.** Departmental Seminar: Conservation Biology of the Galapagos Islands, Haskell, Indian Nations University, Lawrence KS, February

B. Contributed Talks/Posters


C. Attendance at Professional Meetings

**J.T. Giermakowski.**

Annual Meeting of the Society for the Study of Amphibians and Reptiles, Tampa FL, July.

Annual meeting of the Taxonomic Databases Working Group. St. Petersburg, Russia, September.

D. Service as Editor or on Editorial Board of a Journal

**H.L. Snell**, Editorial Board of Galapagos Research (previously Noticias de Galapagos).

E. Service as Officer of Professional Society/Organization

None.

9. OTHER PROFESSIONAL ACTIVITIES
A. Presentation to General Audience in a Scholarly Capacity

Giermakowski, J.T. Division of Amphibians and Reptiles at the Museum of Southwestern Biology. Poster presentation to the 2005 State Legislature, State of New Mexico. February.

B. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.

None.

C. Scholarly Service as a Member of a Local/State/Regional/National Committee, Panel, etc.

H.L. Snell

Member of the New Mexico Department of Game & Fish Non-Game Review Panel.
Member of the IUCN Iguana Specialists Group.
General Assembly Member of the Charles Darwin Foundation.

D. Journal Referee

H.L. Snell

Noticias de Galapagos (2).

S. Poe

Systematic Biology (1), Journal of Herpetology (1)

E. Hosting Professional Colloquia and Groups

None.

10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

None.

B. Public Service

H.L. Snell

Member of the City of Albuquerque Prairie Dog Task Force.
Constant activity promoting the conservation of the Galapagos National Park.

University of New Mexico service:
  - Worked with Maria Ruby to revise the courses and other requirements for the conservation biology program at UNM.
  - Conservation Biology Concentration Advisor.
  - Mentor for Allison Ross, Spring 2005, Conservation Biology & 402 credit.
  - Tenure and Promotion Committee (2004-05).
  - Ornithologist Search Committee (2004-05).
  - University Scholarship Committee.
  - Faculty Senate.
  - Faculty Senate Operations Committee.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

**H.L. Bateman**

- Graduate Research and Development, UNM: $5,000
- Research, Project, and Travel Grant, UNM: $700
- Grove Research Grant, Department of Biology, UNM: $500
- T&E Inc.: $2,500
- New Mexico Graduate Scholars Award: semester tuition
- National Fish and Wildlife Foundation Grant: $6,250

**J.T. Giernakowski**

- NSF Travel Grant: $3,200

12. DONATIONS AND GIFTS RECEIVED

None.

13. CURRENT STAFF

A. Faculty/Staff

- Snell, H.L. Professor and Curator
- Degenhardt, W.D., Curator and Professor Emeritus
- Poe, S., Assistant Professor and Curatorial Associate
- Giernakowski, J.T. Collection Manager

B. Graduate students

- Bateman, H.L., Ph.D./Snell
- Giernakowski, J.T., Ph.D./Snell
- Hollis, J.L., M.S./Poe
Phillips, R.B., Ph.D./Snell

C. Undergraduate Student Workers and Volunteers

Daniels, M.
Hyde, T.
Lamb, A.W.
Peebles, C.
Pierce, G.
Painter, A.
Ruiz, A.
Timmons, H.

14. MUSEUM ASSOCIATES

A. Curatorial Associates

Painter, C.W., New Mexico Dept of Game & Fish
Stuart, J.N., New Mexico Dept of Game & Fish

B. Research Associates

Fitzgerald, L., Texas A&M University
Fritts, T.H., retired

DIVISION OF ARTHROPODS

1. DIVISION HIGHLIGHTS

At the end of June 2005, Manuel Molles retired after 30 years with UNM. He continues active research into aquatic insects and carabid beetles, and writing ecology textbooks. He also continues as Curator Emeritus for the Division of Arthropods until a faculty replacement is hired for Spring 2007.

The Field Guide to the Sandia Mountains, edited by Robert Julyan and Mary Stuever, was published in the spring of 2005 and has proved very successful for the UNM Press. Dave Lightfoot co-authored the chapter on arthropods and contributed most of the arthropod photographs.

Graduate student Mike Medrano spent a large part of the spring 2005 semester visiting museums and working with Rowland Shelley to gather specimens and information for his work on millipede systematics for the family Atopotholidae. He visited the US National Museum, Virginia Museum of Natural History, North Carolina State Museum of Natural Science, Florida State Collection Arthropods, University of Texas-El Paso, University of Arizona, University of California-Riverside, University of California-Berkeley, California Academy of Science, University California-Davis, and Brigham Young
University. With Mike’s own collections and the specimens on loan, MSB has almost all the atopetholid specimens from North America.

Dave Lightfoot conducted field work throughout the Mojave and Great Basin deserts and southern California mountains to collect specimens for his taxonomic research on grasshoppers and crickets.

Our work on the statewide wildlife conservation strategy gave us the unusual opportunity to include invertebrates and stress how little we know about their diversity in NM. We added over 100 species to the New Mexico state list of taxa of conservation concern.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Specimens Cataloged</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Information Request</th>
<th>Publications Citing MSB Specimens</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000</td>
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<td>5</td>
<td>72</td>
<td>59</td>
<td>1</td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTION

A&S 198-602, Freshman Learning Community (FLC), 24 students
A&S 198-602, FLC student Amanda Vinson used specimens for her presentation “Drugs from Bugs” at the UNM Undergraduate Research Symposium, November
BIOL. & HONORS 324L, Natural History of the Southwest, 12 students

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

Brantley, S.L.

A&S 198 (FLC 602), Freshman Learning Community Program, University College, “It IS a Bug’s Life: People in an Insect’s World,” 24 students

Lightfoot, D.C.

Along with Sandra Brantley, extensive mentoring in insect identification for Hilary Lease (graduate student), Alaina Pershall (research scientist) and Robin Warne (graduate student) for their projects involving movement of carbon and nitrogen through food webs.

Served on two Biology Department Ph.D. graduate student committees (Ana Davidson, Julie McIntyre (co-chair)).

5. COLLECTION MANAGEMENT
New accessions: Karen Wetherill donated 733 bees from her research at the Sevilleta LTER and Richard Holland donated 500 moths from his personal collection or from recent captures in the Albuquerque area.

Leah Larkin headed the revision and resubmission of the Biological Research Collections (BRC) proposal to NSF. The proposal requests funding to purchase cabinets for the dry collection and complete the first round of data-basing of the dry collection.

Four MSB divisions pooled funding and purchased a printer and a software system for labels for wet collection (labels from standard printers do not last more than a few years in alcohol and they can acidify the alcohol solution). We also acquired about 150 1-liter and 0.5-liter bail-lid jars from the Division of Amphibians and Reptiles, so that we can begin to repackage all alcohol specimens for storage in the wet collection.

We received 4 cabinets (with drawers) from 3 research projects: Grand Canyon inventory (2 cabinets), and the CDC Hantavirus and EID projects (1 cabinet from each). Arthropods are sampled in these projects and vouchers will be deposited with MSB.

6. AWARDS, GRANTS, AND CONTRACTS

$332,235. NSF/REVSYS. DEB # 0344288. A holistic approach to a holarctic group: subgeneric relationships within the genus *Andrena* Fabricius (Hymenoptera: Andrenidae) with a revision of the subgenus *Callandrena* Cockerell. **L.L. Larkin**, PI. 04/04-03/07. $111,005 (F&A $37,002).

$41,000. FWS/Middle Rio Grande Bosque Initiative. Grant no. 201815G933. Development and publication of a field guide to bosque plants and animals. J.-L. E. Cartron, **D.C. Lightfoot**, **S.L. Brantley**, T. Lowrey and J. Mygatt, co-PIs. 09/05-08/06. $41,000 (F&A $0).

$30,000. USFS/Rocky Mt. Research Station contract AG-82FT-P-05-0083. Effect of pinyon-juniper mortality on vegetation, ground-dwelling arthropods and rodents in the uplands of the Middle Rio Grande Valley, NM. P.L. Ford, N.S. Cobb and **S.L. Brantley**, co-PIs. 04/05-03/06. $2500 (F&A $0).

$5,000. USGS/BRD contract OM-04-FTSA-1097. Continuation of long-term monitoring of ground-active arthropods at Bandelier National Monument. **S.L. Brantley and D.C. Lightfoot**. 07/05-06/06 $5,000 (F&A $0).

7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes

B. Journal Articles


C. Web-Based

None.

D. Technical Reports


E. Theses/Dissertations Completed


F. Work in Progress


G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers

None.

8. ACTIVITIES IN LEARNED SOCIETIES

A. Invited/Plenary Talks and/or Seminars


B. Contributed Talks/Posters (*presenter)


C. Attendance at Professional Meetings

Lightfoot, D.C. and S.L. Brantley

Jornada Basin Research Symposium, Las Cruces, NM, July.

D. Service as Editor or on Editorial Board of a Journal

None.

E. Service as Officer of Professional Society/Organization

None.

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentation to General Audience in a Scholarly Capacity

Lightfoot, D.C.

Arthropods of the Sandia Mountains. New Mexico Museum of Natural History and Science, Albuquerque. Part of lecture series to highlight the publication of the Field Guide to the Sandia Mountains, April.

Interview on KOB TV about apparent increase in bees in town and concerns about Africanized bees, April.

Interview on University Showcase on KUNM radio about the publication of the Field Guide to the Sandia Mountains, June.
B. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.

Brantley, S.L.

Review of Middle Rio Grande Ecosystem Management Research Program (US Forest Service), April.

Brantley, S.L. and D.C. Lightfoot

Building a Colorado Plateau “All Taxa Biodiversity Inventory” Program, Flagstaff, AZ, March.

Lightfoot, D.C.

Attended workshop to develop a Comprehensive Wildlife Conservation Strategy (CWCS) under the New Mexico Department of Game and Fish, April, to represent conservation needs of New Mexico arthropods.

Testified to the New Mexico Legislature to support a bill for the protection of New Mexico rare butterflies.

C. Scholarly Service as a Member of a Local/State/Regional/National Committee, Panel, etc.

D. Journal Referee

Lightfoot, D.C.

Ecology (2), Journal of the Orthopterists Society (1)

E. Hosting Professional Colleagues and Groups

10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

None.

B. Public Service

Brantley, S.L.

Insect ecology presentation to students enrolled in the Ecology Study Program of the NM Museum of Natural History and Science, March.
Insect ecology presentation to students at St. Theresa’s parish school (middle school), April.

Insect behavior presentation to students of a home school science club at Barelas Community Center, May.

**Brantley, S.L. and D.C. Lightfoot**

Provided specimens and information on venomous arthropods to Dr. Arthur Mares for the UNM Student Health Center health fair, September.

**Larkin, L.L.**

Museum visit from Little Sunbeams daycare center, June.

**Lightfoot, D.C.**

Prepared a display of New Mexico arthropods for the New Mexico State Legislature, UNM Day.

**McIntyre, J.**

Museum visit and talk on NM insects to students from Monte Vista Elementary School, April.

**Medrano, M.**

Museum visit and talk on NM insects to students from UNM Daycare Center, June.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS

None.

12. DONATIONS AND GIFTS RECEIVED

Don Duszynski – long-term loan of Leica dissecting stereoscope, Zeiss compound microscope, 2 Leitz compound microscopes

Richard Fagerlund – 1000+ taxonomic papers on mites and various insect groups

Richard Holland – 20 hours of his time to identify moths from the collection

Howard Snell – 24 herpetology storage cabinets to use until our division gets enough entomology cabinets.
13. CURRENT STAFF

A. Faculty/Staff

Manuel Molles, Professor Emeritus, Curator
Clifford Crawford, Professor Emeritus, Curator Emeritus
Sandra Brantley, Research Asst. Professor, Senior Collection Manager
David Lightfoot, Research Assoc. Professor, Senior Collection Manager

Graduate Students

Julieta Bettinelli, Ph.D. candidate
Karen Gaines, Ph.D. candidate
Tom Kennedy, Ph.D. candidate
Ondrea Linderoth-Hummel, Ph.D. candidate
Julie Mcintyre, Ph.D. candidate
Michael Medrano, Ph.D. candidate

Undergraduate Student Workers and Volunteers

Amanda Hodson, undergraduate
Henry Solis, undergraduate
Marco Terrazas, undergraduate

14. MUSEUM ASSOCIATES

A. Research Associates

Ana Davidson, postdoctoral fellow, UNM and UNAM
Richard Fagerlund, staff, UNM Environmental Services
Leah Larkin, Research Asst. Professor
Karen Wetherill, Research Scientist, Sevilleta LTER

DIVISION OF BIRDS

1. DIVISION HIGHLIGHTS

Dr. Christopher Witt was hired as our new Curator of Birds and professor of biology by the Department of Biology and the Museum of Southwestern Biology to replace Dr. J. David Ligon. Chris received his Ph. D. at Louisiana State University and is currently conducting post-doctoral research at the University of California Berkeley. Chris is a museum-trained ornithologist, and an advocate of collections and collecting. He will be an excellent spokesman for the MSB and the division. We look forward to his arrival in January 2007.
The Marsh Collection from Ohio Wesleyan University finally arrived and was cataloged in 2005. This is an historically important collection of 173 specimens from New Mexico collected by Charles H. Marsh, primarily from western New Mexico, in the early 1880's.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth (new specimens)</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Information Requests</th>
<th>Publications Citing MSB specimens</th>
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<tbody>
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<td>9</td>
<td>21</td>
<td>8</td>
<td>0</td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTIONS

List the UNM classes (Biology and others) that used specimens from your division in the exact format below:

BIOL. 386, General Vertebrate Zoology: Spring and Fall semesters, 75 students
BIOL. 486, Ornithology: Fall semester, 20 students

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

Johnson, A. B.
BIOL. 461L: Tropical Biology (3sch), Spring semester, 17 students (1 Guest Lecture)

Wolf, B. O.
BIOL. 486, Ornithology, Fall, 20 students

5. COLLECTION MANAGEMENT

The USGS bird skeleton collection was re-boxed as necessary (some specimens were in boxes that were inappropriately large for the specimen), and new box labels were printed for the whole USGS skeleton collection. Then, we integrated those specimens into the main skeletal collection. This allowed us to remove the old specimen cabinets they were stored in and make room for more new cases in the skin collection.

The import of our specimen data into the BUENO (= Arctos) database was completed in spring 2005, but due to user friendliness issues and lack of personnel, we did not enter any new specimens into the database. We continued to catalog into our flat file in Microsoft Excel, and eventually there were too many differences in the two copies that we abandoned the copy of our data in Arctos. With new developments in the Arctos software, we prepared our data for a re-import into that data management system.
Field work took us again to Bitter Lake National Wildlife Refuge to obtain more waterfowl specimens as part of a continued collaboration with Dr. Sara Brant and her work on the swimmer’s itch parasite genus *Trichobelharzia*. We also collected birds in the Guadalupe and San Juan Mountains, and at San Marcial.

6. AWARDS, GRANTS, AND CONTRACTS

None

7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes

None.

B. Journal Articles


C. Web-Based

None.

D. Technical Reports

None.

E. Theses/Dissertations Completed

None.

F. Work In Progress

Dickerman, R. W. *Sayornis saya yukonensis* is valid. Western Birds. In Press.

Dickerman, R. W. Notes of the Elf Owls of western Texas, adjacent Coahuila, and southeastern New Mexico, with description of a new subspecies. Western Birds. In press.


8. ACTIVITIES IN LEARNED SOCIETIES

A. Invited/Plenary Talks and/or Seminars

Wolf, B.O.
Avian community ecology in a hot desert; abiotic drivers and biotic interactions
University of Oklahoma, Norman, Department of Biology.

Wolf, B.O.*, R. Warne and C.C. Mathiasen. The functional importance of columnar cacti as resources for a desert bird community; an assessment using stable isotopes. 22nd Annual Physiological Ecology Meeting, Bishop, CA, June

B. Contributed Talks/Posters


C. Attendance at Professional Meetings

Dickerman, R.W.
New Mexico Ornithological Society Annual Meeting Portales, NM, May
American Ornithologists' Union Annual Meeting Santa Barbara, CA, August.
Western Field Ornithologists Annual Meeting Santa Maria CA, September

Johnson, A.B.
American Ornithologists' Union Annual Meeting Santa Barbara, CA, August.
Wolf, B.O.
Society for Integrative and Comparative Biology Annual Meeting San Diego, CA, January

Annual Physiological Ecology Meeting Bishop, CA, June

D. Service as Editor or on Editorial Board of a Journal

Wolf, B.O.
Editrional Board, Oecologia (USA).

E. Service as Officer of Professional Society/Organization

Wolf, B.O.
Chair, Publications Committee, The Cooper Ornithological Society

Elected member, Board of Directors, The Cooper Ornithological Society

SORA (Searchable Ornithological Research Archive) Coordinator.
elibrary.unm.edu/SORA.

9. OTHER PROFESSIONAL ACTIVITIES

A. Colloquium Presentations

None.

B. Presentation to General Audience in a Scholarly Capacity

None.

C. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.

None.

D. Scholarly Service as a Member of a Local/State/Regional/National Committee, Panel, etc.

Wolf, B.O.
Grant proposal reviews: NSF, DEB- Ecology (1), NSF, IOB- Environmental and Structural Systems Cluster (3)
E. Journal Referee

Wolf, B.O.

10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

None.

B. Public Service

Wolf, B.O.
Institutional Animal Care and Use Committee
Avian Biologist search committee member
Outside examiner for Ph.D. defense of Daniel Mazerolle, Dissertation title: Migratory patterns and physiology of White-crowned Sparrows: inferences from stable hydrogen isotope analyses. University of Saskatchewan, Department of Biology, Saskatoon, Canada.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

Dickerman, R.W. Elected to Research Associate Professor Emeritus status

12. DONATIONS AND GIFTS RECEIVED

None.

13. CURRENT STAFF

A. Faculty/Staff

Robert W. Dickerman, Acting Curator
J. David Ligon, Curator Emeritus
Andrew B. Johnson, Collection Manager
Blair O. Wolf, Associate Curator

B. Graduate students

Ernie Valdez, Ph.D. Graduate Assistant
Christa Weise, Ph.D. Graduate Assistant

C. Undergraduate Student Workers and Volunteers
14. MUSEUM ASSOCIATES

A. Curatorial Associates

John P. Hubbard

B. Research Associates

Sartor O. Williams, III

DIVISION OF FISHES

1. DIVISION HIGHLIGHTS

The MSB Division of Fishes currently has 53,481 catalogued lots of fishes or 2,774,928 specimens. $418,353 in grants and contracts was available for ichthyological studies in 2005; about $151,185 was generated for overhead costs to the University of New Mexico.

From January to August 2005, Dr. Thomas F. Turner, Curator of Fishes was on the last nine months of a year long sabbatical in Perth, Australia at the University of Western Australia as Visiting Research Fellow in the School of Animal Biology. He collaborated with Professors Alistar Robertson and Stuart Bunn, looking at the effects of human-mediated river flow changes on freshwater fish communities in the Murray-Darling River Basin.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth (specimens catalogued)</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Information Requests Personally Responded to</th>
<th>Publications Citing MSB Specimens</th>
</tr>
</thead>
<tbody>
<tr>
<td>147,286</td>
<td>10*</td>
<td>0</td>
<td>27**</td>
<td>56***</td>
<td>3****</td>
</tr>
</tbody>
</table>

*Specimen loans, gifts, exchanges, and tissue (consumptive) transfers: transactions
** only visitors doing research, accessing specimens, or info exchange; not include tours
*** email, letters, telephone, research visitors (not tours)
**** publications in peer review journals, authors members of MSB Division of Fishes

3. COURSES USING THE COLLECTIONS

BIOL. 204L, Plant and Animal Function and Form: Fall 2005, 32 students
BIOL. 386L, General Vertebrate Zoology: Fall 2005, 29 students
4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

Turner, T. F.

BIOL. 502, ST/Systematics and Evolution: Fall 2005, 6 students
BIOL. 386, General Vertebrate Zoology: Fall 2005, 29 students

B. Graduate Students

None.

5. COLLECTION MANAGEMENT

Twenty-eight accessions of 2,877 lots and 63,898 specimens were received during 2005. Contributors included New Mexico Department of Game and Fish, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service-Fishery Research Office and the Wyoming Department of Game and Fish, A. Rylah Institute for Environmental Research, Victoria AU, and the Colorado Division of Wildlife. Digital imaging of field note collections continues. The complete field note collections of four researchers in New Mexico ichthyofaunal studies have been digitally captured and complete copies backed up on CD medium and returned to authors. These 7,631 pages of field notes document twenty-five years of work. To date, almost 13,000 pages of field notes have been scanned and hyperlinked to the fishes locality database.

6. AWARDS, GRANTS, AND CONTRACTS ($418,353 available 2005; $151,185 F&A)

$500,000. National Science Foundation CAREER, Museum-based Approaches to Ecology and Evolution of Aquatic Systems: An Integrated Research and Educational Program. DEB-0133233. T.F. Turner, PI 5/02-4/07. $100,000 (F&A, $50,000)

$450,000. US Bureau of Reclamation. Conservation genetics of the Rio Grande silvery minnow (*Hybognathus amarus*): Baseline population genetics of wild stocks and monitoring genetic effects of captive-propagated stocks. 02-FG-40-8120. T.F. Turner, PI 7/02-9/06. $114,000 (F&A, $17,100)

$125,000. US Bureau of Reclamation. Grant agreement No.05-FG-40-2411 for curatorial services between Bureau of Reclamation Upper Colorado Regional Office and the Museum of Southwestern Biology at the University of New Mexico. 048617. A.M. Snyder, PI and T.F. Turner Co-PI. 8/05-9/10. $25,000 (F&A, $3,261)


7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes

None.

B. Journal Articles


C. Web-Based

None.

D. Technical Reports


E. Theses/Dissertations Completed

None.

F. Work In Progress

G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers

None.

8. ACTIVITIES IN LEARNED SOCIETIES

A. Invited/Plenary Talks and/or Seminars (*presenter)


B. Contributed Talks/Posters (*presenter)


C. Attendance at Professional Meetings

W.H. Brandenburg

Desert Fishes Council, annual meeting Cuatro Cienegas, Coah., MX, November 2005

M.J. Osborne

Society for Molecular Biology and Evolution and Australasian Genetics Association, joint meetings Auckland, North Island, NZ, June 2005.

Desert Fishes Council, annual meeting Cuatro Cienegas, Coah., MX, November 2005

S.T. Ross

American Society of Ichthyologists and Herpetologists, annual meeting Tampa, FL, US, July 2005

Desert Fishes Council, annual meeting Cuatro Cienegas, Coah., MX, November 2005

A.M. Snyder

Desert Fishes Council, annual meeting Cuatro Cienegas, Coah., MX, November 2005.

T.F. Turner

American Fisheries Society, annual meeting Anchorage, AK, US, September 2005
D. Service as Editor or on Editorial Board of a Journal

None.

E. Service as Officer of Professional Society/Organization

S.T. Ross

Board of Governors, American Society of Ichthyologists and Herpetologists, Class of 2002-07.

Endowment Committee, American Society of Ichthyologists and Herpetologists, 1999-present.

T.F. Turner

Board of Governors, American Society of Ichthyologists and Herpetologists, Class of 2007.

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentation to General Audience in a Scholarly Capacity

Dudley, R.K.

A famous (or infamous) vertebrate: Rio Grande silvery minnow. Guest lecture in GVZ (Bio. 386), September.

Farrington, M.K.

Results of 2004 larval Colorado pikeminnow (Ptychocheilus lucius) and 2004 larval razorback sucker (Xyrauchen texanus) surveys. Presented to San Juan River Basin Recovery Implementation Program, Biology Committee, Civic Center, Farmington, NM, US, February.

Renfro, L.E.* and S.P. Platania.


B. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.


C. Scholarly Service as a Member of a Local/State/Regional/National Committee, Panel, etc.

W.H. Brandenburg

Member, Advisory Committee for Restoration of roundtail (*Gila robusta*) and Gila chub (*Gila nigra*). 
Member, San Juan River Biology Committee. Coordinator, New Mexico Area Native Fishes Report for Desert Fishes Council.

R.K. Dudley

Member, Aquatic Technical Team of the Upper Rio Grande Basin Water Operations, U.S. Corps of Engineers. 
Technical Advisor, Middle Rio Grande Endangered Species Act Collaborative Program.

M.A. Farrington

Member, Advisory Committee for Restoration of roundtail chub (*Gila robusta*) and Gila chub (*Gila nigra*). 
Member, San Juan River Biology Committee.

M.J. Osborne


S.P. Platania

Member, Committee on Endangered and Threatened Fish Species, American Fisheries Society. 

S.T. Ross

Member, Peer Review Panel, San Juan River Basin Recovery Implementation Program. 
Reviewer (N=1), proposal for Louisiana Board of Regents. 
Reviewer (N=1), proposal for California Bay Delta Authority CALFED Ecosystem Monitoring.
Reviewer (N=3), proposal for California Bay Delta Authority CALFED Science Program.

T.F. Turner

Member, Gila trout (Oncorhynchus gilae) Recovery Team, US Fish and Wildlife Service.
Representative, University of New Mexico, Steering Committee for the Endangered Species Act Collaborative Working Group on Water Issues in the Middle Rio Grande.
Representative, University New Mexico, Captive Propagation Working Group, Middle Rio Grande Endangered Species Act Collaborative Working Group and US Fish and Wildlife Service.
Reviewer, Listing document for Headwater chub (Gila nigra), New Mexico Department of Game and Fish, Santa Fe.
Ad-hoc reviewer, research proposals (N=2) in systematics, population biology, and ecology for National Science Foundation.

D. Journal Referee

R.K. Dudley

River Research and Applications (1), Southwestern Naturalist (1)

S.P. Platania

Copeia (1), Southwestern Naturalist (3)

S.T. Ross

Biological Invasions (1), Copeia (1), Ecology (1), Marine and Freshwater Research (1), Marine Ecology Progress Series (1), Oecologia (1)

T.F. Turner

American Naturalist (1), Conservation Genetics (2), Canadian Journal of Fisheries and Aquatic Sciences (1), Ecology (1), Journal of Fish Biology (1), Oecologia (1)

E. Hosting Professional Colloquia and Groups

None.

10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

None.
B. Public Service

W.H. Brandenburg

Presentation on fishes of New Mexico, Alameda Elementary School, 2nd grade class of Ms. Judy Giblin.

R.K. Dudley

Member, UNM Master’s thesis committee of Community and Regional Planning (MCRP) for Marcelle Fiedler. Title: Power line risk assessment: prioritizing avian protection measures within PNM’s service territory. Other committee members: William Fleming and Ric Richardson.

T.F. Turner

Interview, 2005 Quantum. The University of New Mexico’s publication on Science and Technology. Saving the Silvery Minnow: Biologist Tom Turner helps to repopulate the fish with conservation genetics. http://research.unm.edu/quantum/silveryminnow.html

Chair, UNM Museum of Southwestern Biology, Arthropod Curator Search Committee

Member, UNM Museum of Southwestern Biology, Executive Committee and Space Committee

Representative, Faculty Senate, University of New Mexico, College of Arts and Sciences 2005-07

Guest Lecturer, Class in Biology of the Southwestern U.S. Ursula Shepherd, Ph.D. Honors Program, University of New Mexico. “The Fishes of New Mexico” 2005

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

T.F. Turner

Visiting Research Fellow, School of Animal Biology, Faculty of Natural and Agricultural Sciences University of Western Australia; 8/2004 – 7/2005.

W.D. Wilson

Research Project Travel, awarded $1,000, fall 2005
Student Research Allocations Committee, awarded $392, fall 2005
Graduate Research Allocations Committee, awarded $100, fall 2005
Alvin R. and Caroline G. Grove Summer Scholarship, awarded $3,000, summer 2005
Graduate Research and Development, awarded $1,000, spring 2005

12. DONATIONS AND GIFTS RECEIVED
13. CURRENT STAFF

A. Faculty/Staff

W. Howard Brandenburg, Senior Field Research and Taxonomic Services
Michael A. Farrington, Senior Field Research and Taxonomic Services
Megan J. Osborne, Ph. D. Research Assistant Professor
Steven P. Platania, Associate Curator of Fishes
Lee E. Renfro, Field Research and Taxonomic Services
Stephen T. Ross, Curator Emeritus and UNM Adjunct Professor of Biology
Alexandra M. Snyder, Collections Manager
Thomas F. Turner, Curator of Fishes and UNM Associate Professor of Biology

B. Graduate students

Melanie S. Edwards, Ph.D.
Thomas Kennedy, Ph.D.
Maureen B. Peters, M.S.
Wade D. Wilson, Ph.D.

C. Undergraduate Student Workers and Volunteers

Christine L. Cooper, Turner Lab Assistant
Tamara L. Max, MSB and Turner Lab Assistant
Christine M. Poandl, MSB Curatorial Assistant

14. MUSEUM ASSOCIATES

A. Curatorial Associates

David L. Propst, Ph. D. New Mexico Dept. of Game and Fish, Santa Fe

B. Research Associates

James E. Brooks, U.S. Fish and Wildlife Service, Albuquerque
Brooks M. Burr, Ph.D. Southern Illinois University, Carbondale
Astrid Kodric-Brown, Ph.D. University of New Mexico, Albuquerque
Robert K. Dudley, Ph. D. American Southwest Ichthyological Research Foundation, Albuquerque

GENOMIC RESOURCES

1. DIVISION HIGHLIGHTS
1. Oracle database, Programming.
2. Oracle database, data verification.
3. Archival, over 11,499 new specimens.
4. Issued 15,000 new NK numbers to researchers.
5. Processed 54 outgoing loans containing 5,608 individual specimens.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth: New Specimens</th>
<th>Loans (Outgoing)</th>
<th>Loans (Incoming)</th>
<th>Visitors</th>
<th>Information Requests</th>
<th>Publications: Citing MSB Specimens</th>
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</thead>
<tbody>
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<td>11,499</td>
<td>54</td>
<td>2</td>
<td>100</td>
<td>128</td>
<td>5</td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTIONS.

BIOL. 599, Thesis: Winter, Spring and Summer semesters, 1 student
BIOL. 699, Dissertation, Winter, Spring and Summer semesters, 11 students
BIOL. 489, Mammalology, Fall, 15 students

4. COURSES TAUGHT BY MSB PERSONNEL

Faculty/Collection Managers
Yates, T.

BIOL. 699, Dissertation, 4 students

Graduate Students
None.

5. COLLECTION MANAGEMENT

This year the Division of Genomic Resources and the Division of Mammals continues combined work on our new ORACLE database. New data entry and loan forms have been programmed and added to the database. This year the staff of DGR continued to archive, label, and verify 11,499 specimens. We also shipped 5,608 specimens worldwide and processed many information requests. Gerardo Suzan the division’s graduate assistant has completed his dissertation, and Gabor Racz will be taking his place.

6. AWARDS, GRANTS, AND CONTRACTS.


$2,297,552. NSF and NIH. 048542. *Ecological Drivers of Rodent-borne Disease Outbreaks: Trophic Cascades and Dispersal Waves*. T.L. Yates, PI. 10/03-08/06. $7,775. (IDC, $0).


$51,000,000. cap. Defense Threat Reduction Agency. 798055. *University Strategic Partnership, Active Task Orders-Numerous separate projects including biological threat reduction in the former USSR*. T.L. Yates, PI, 04/03-11/06. $4,427,854/year (IDC, $0).

7. PUBLICATIONS.

A. Books, Chapters, Edited Volumes

None.

B. Journal Articles


A. Web-Based

None.

D. Technical Reports


E. Theses/Dissertations Completed


F. Work In Progress


G. Publications and reports based on museum specimens by researchers excluding Museum staff, students and Associates.

8. ACTIVITIES IN LEARNED SOCIETIES.

A. Invited or plenary talks


A. Contributed talks or posters.

Terry Yates

Many.

C. Attendance at professional meetings.

Cheryl Parmenter

Annual Hantavirus Meeting, Durango, CO. 2005
NSCA Annual Meeting, Santa Barbara CA, 2005
SPNCH Annual Meeting, London England, 2005

Terry Yates

Annual Hantavirus Meeting, Durango, CO. 2005
NSCA Annual Meeting, Santa Barbara CA, 2005
American Society of Mammalologists Annual Meeting, Texas, June 2005
IMC9 Conference, Nagoya/Sapporo, Japan, 2005
NLR Board Management, Washington, D.C., 2005
Hill and Agencies Visits, Washington, D.C., 2005
Gold Cup and Hill Visits, Washington, D.C., 2005
NSC Alliance Board Meeting, Washington, D.C., 2005
Board Meeting, Orange County, CA, 2005
NSF SLC PI Meeting, Washington, D.C., 2005
CRPGE Executive Committee Meeting, Washington, D.C. 2005
NLR Board Meeting, San Jose, CA, 2005
NSF NEON Design Meeting, Boston, MA, 2005
World Life Science BioVision, Lyon, France, 2005
Brainstorming Meeting on Ecology of Infectious Disease, 2005
NSF Neon Design Meeting, Estes Park, CO, 2005
ASM 2005 Annual Meeting, Springfield, MO, 2005
CRPGE Annual Meeting and NLR Board Meeting, Vancouver Canada and Washington, D.C. 2005

D. Service as editor or on editorial board of a journal.
None.

E. Service as officer of professional society or organization.

Terry Yates

Executive Board of Directors, Science and Technology Corporation at UNM
Board of Directors, NM Technology Research Collaborative
Chairman, NM Research Council
Executive Board, Council on Research Policy and Graduate Education (CRPGE)
President of Natural Science Collection Alliance
Board of Directors, National LambdaRail Incorporated
President-elect, Council on Research Policy & Graduate Education (CRPGE)
Board of Directors, National Center for Genome Resources (NCGR)
Board of Directors, Ibero American Science and Tech. Education Consortium (ISTEC)
President of Monzano Conservation Foundation

9. OTHER PROFESSIONAL ACTIVITIES

A. Colloquium Presentations.

Terry Yates

Many.

B. Presentation to General Audience in a Scholarly Capacity.

Terry Yates
Many.

C. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.

Terry Yates

Many, including local rotary and other business groups.

D. Service in a Scholarly as a Member of a Local, State, Regional or National Committee, Panel etc.

Terry Yates

NIH, CDC, President of the Monzano conservation foundation, NSF, DTRA, NLR

E. Journal Referee

Terry Yates

Journal of Mammalology (?), Bioscience (?)

10. SERVICE.

A. Symposia, Workshops, Conferences, etc. Sponsored, Organized, Held etc.

Terry Yates

Many.

B. Public Service

Terry Yates

President of Placitas Homeowners Association

Visitors

Johns Hopkins University
LTER
USGS
Hantavirus Crews
CDC
Chile-Hantavirus personnel
Cathy Olsen--Deputy Director of the National Science Foundation
11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

Terry Yates

Research Associate, The Museum, Texas Tech University.

12. DONATIONS AND GIFTS RECEIVED.

No donations or gifts, but many archival contracts with people to deposit tissues in our collection.

13. CURRENT STAFF

Faculty

Terry Yates, Curator

Staff

Cheryl Parmenter, Collection Manager (0.5 FTE)

Graduate Assistant

Gerardo Suzan (0.5 FTE)

Undergraduate workstudy

Kendra Anderson (0.5 FTE)

13. MUSEUM ASSOCIATES

A. Curatorial Associates

None.

B. Research Associates

J. Scott Altenbach, UNM Department of Biology
Sydney Anderson, American Museum of Natural History, New York
Robert J. Baker, The Museum, Texas Tech University, Lubbock, TX
Troy L. Best, Department of Biology, Auburn University
Jerry Dragoon, UNM Department of Biology
Jennifer Frey, Eastern New Mexico University, Portales, NM
Scott L. Gardner, Dept. Nematology, Curator, University Nebraska.
Sarah B. George, Director, Utah State Museum.
Gary L. Graham, Bat Conservation International
HERBARIUM

1. DIVISION HIGHLIGHTS

The UNM herbarium now contains more than 109,000 accessioned specimens of vascular and non-vascular plants. All the specimen label information is electronically captured and made available on the Internet to the international research community via the INRAM Biodiversity Website (biodiversity.inram.org/). In addition, we are a data provider to the Global Biodiversity Information Facility (GBIF).

In May 2005, the Curator, Tim Lowrey, and Collection Manager, Jane Mygatt began field work with Jean-Luc Cartron, Dave Lightfoot, and Sandy Brantley for a book project entitled A Field Guide to the Flora and Fauna of the Middle Rio Grande. Lowrey and Mygatt began making collections and photographing the flora along the Rio Grande and have co-authored 35 draft species accounts. Lowrey and Mygatt anticipate authoring 200 plant species accounts for the field guide (publication goal 2007).

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth</th>
<th>Loans/ # specimens (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors (not including tour groups)</th>
<th>Information Requests Personally Responded to</th>
<th>Publications Citing MSB Specimens</th>
</tr>
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<tr>
<td>2449</td>
<td>12/386</td>
<td>12/369</td>
<td>162</td>
<td>67</td>
<td>11</td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTIONS

BIOL. 463, Flora of New Mexico: Fall semester, 14 students
BIOL. 324L (AOA UHON 324L), Natural History of the Southwest: Fall semester, 15 students

4. COURSES TAUGHT BY MSB PERSONNEL
A. Faculty/Collection Manager

Lowrey, T.K.

BIOL. 461/561, Tropical Biology, Spring, 15 students
BIOL. 463L/563L, Flora of New Mexico, Fall, 14 students
BIOL. 402/502, Systematics Discussion, Fall, 7 students

Hanson, D.T.

BIOL. 446/546, Laboratory Methods in Molecular Biology, Spring, 18 students
BIOL. 402/502, Molecular Techniques Discussion, Spring, 18 students
BIOL. 502, Life After Graduate School, Spring, 20 students

B. Graduate Students

None.

5. COLLECTION MANAGEMENT

Throughout 2005, Mygatt was involved in all aspects of organizing the joint meeting for the Society for the Preservation of Natural History Collections (SPNHC) and the Natural Science Collections Alliance (NSCA) to be held in Albuquerque in 2006.

Mygatt took computer courses through continuing education in Beginning and Intermediate Photoshop to augment website design. Mygatt maintains several websites, including web pages for Lowrey’s special interest groups, The Pteronia Website (www.msb.unm.edu/herbarium/pteronia/) and The Astereae Working Group (www.msb.unm.edu/herbarium/astereae/), and redesigned the New Mexico Rare Plants website (nmrrareplants.unm.edu/) and New Mexico Native Plant Society website (npsnm.unm.edu/).

Mygatt annotated 319 herbarium specimens, mostly in the Brassicaceae. Herbarium staff processed and added 2449 new acquisitions in the collection. The UNM Herbarium received 22 gifts and 2 exchanges of specimens, totaling 2587 specimens.

Accessions received:

2005.01 Tim Lowrey, UNM- 46 Gray Ranch plants
2005.02 Eugene Jercinovic- 3 ferns
2005.03 Kelly Allred, NMCR- 1 grass isotype
2005.04 Tina Ayers, ASC- 62 various Southwestern taxa
2005.05 Maya Kapoor, LTER Sevilleta- 47 various taxa
2005.06 Duane Atwood, BRY- 276 various taxa
2005.08 NY- 4 specimens
2005.09 Jim Nellessen- 11 various taxa
2005.10 Jim McGrath- 51 various taxa
2005.11 Robert Sivinski, NM State Botanist- 15 taxa
2005.12 Flora of New Mexico student collections- 13 specimens
2005.13 Karen Epperson- 9 Taos County specimens
2005.14 Mygatt and Lowrey, Bosque collections- 12 specimens
2005.15 Andrea Porras, UNM student- 11 gypsophile specimens
2005.16 Bob King- 279 specimens from Colorado
2005.17 Ron Hartman, RM- 1207 Valles Caldera specimens
2005.18 Eugene Jercinovic- 8 specimens
2005.19 Rich Spellenberg, NMC- 1 specimen from Belize
2005.20 Jack Carter, Silver City- 74 various specimens
2005.22 MO- 93 gift specimens
2005.23 Flora of New Mexico (old student collections)- 240 various taxa
2005.24 C.R. Hutchins (old collections) 82 various NM & Mexico taxa

6. AWARDS, GRANTS, AND CONTRACTS

$10,000. Research Allocation Committee, University of New Mexico. Holocene fire and vegetation change in the Sacramento Mountains, New Mexico. T.K. Lowrey, co-Pl. 03/05-09/05. $10,000 (F&A, $0).


$740,000. NSF. #0132632. New Mexico EPSCoR Science Infrastructure Improvement. The Institute for Natural Resource Analysis and Management: Biodiversity and K-12 Educational Outreach Program. T.K. Lowrey, Pl. 03/02-02/05. $31,768 (F&A, $0).

$3500. American Society of Plant Biologists, Summer Undergraduate Research Fellowship. No grant number. Activation of Red Form I Algal Rubisco from Plocamium cartilagineum. D.T. Hanson, Pl. 05/05-08/05. $3500 (F&A, $0).

$8000. UNM Research Allocation Committee Large Grant. #05-L-07. Effect of pyrenoid structure on photosynthetic function. D.T. Hanson, Pl. 02/05-09/05. $8000 (F&A, $0).

$40,000. Sandia National Laboratories Sandia-University Research Program (SURP). #336765. Inorganic carbon usage by the marine cyanobacterium Synechococcus WH8102. D.T. Hanson, Pl. 10/05-8/06. $36,000 (F&A, $3,200).

$143,998. Ecosystem Science, National Science Foundation. #0516113. The N cycle in semi-arid grasslands: A fungal loop? D.T. Hanson, co-Pl. 07/05-07/06. (1 year proof of concept funding). $70,500 (F&A, $23,500).
$40,000. Sandia National Laboratories Sandia-University Research Program (SURP). #479613. Role of putative carbonic anhydrases in cyanobacterial carboxysome function. D.T. Hanson, PI. 1/04-08/05. $2,000 (F&A, $180).

$160,000. Institute of Geophysics and Planetary Physics at LANL. #09566-001-05. Biosphere-atmosphere CO2 exchange of terrestrial ecosystems: combining high resolution measurements and models to understand the global atmospheric carbon budget. D.T. Hanson, PI. 10/04-09/07. $20,000 (F&A, $0)

$3,500. UNM Research Allocations Committee. #04-38. Do Red Rubiscos have or need a cognate Rubisco activase? D.T. Hanson, PI. 06/04-05/05. $0 (F&A, $0).

7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes

None.

B. Journal Articles


C. Web-Based

None.

D. Technical Reports

Hanson, D.T. 2005. Year-end Report of Research Progress: Sandia-University Research Program (SURP) between Sandia National Laboratories and David T. Hanson, Biology Department, University of New Mexico. Project title: Carboxysome function in the marine cyanobacterium Synechococcus WH8102.


E. Theses/Dissertations Completed
None.

F. Work In Progress
None.

G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers


*Note: While no herbaria are acknowledged in the Flora of North America volumes, the researchers borrowed our specimens for this project, and so we include their publications in this category.

8. ACTIVITIES IN LEARNED SOCIETIES

A. Invited/Plenary Talks and/or Seminars


B. Contributed Talks/Posters


C. Attendance at Professional Meetings

Hanson, D.T.

Gordon Research Conference on CO$_2$ Assimilation in Plants. Aussois, France, September.


Lowrey, T.K.

International Botanical Congress. Vienna, Austria, July.

Mygatt, J.


D. Service as Editor or on Editorial Board of a Journal

None.

E. Service as Officer of Professional Society/Organization

Hanson, D.T. Acting co-head of the Southwestern subsection of the Western Sectional Society of the American Society of Plant Biologists (appointed).

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentation to General Audience in a Scholarly Capacity

Hanson, D.T.
Beyond CO₂ consumption: using light and isotopes to measure photosynthetic variation. Invited Seminar speaker at Union College, Department of Biology, February.

Souping up the 6400: combining gas exchange with spatial and isotopic measurements of photosynthesis. Invited Seminar speaker at Li-Cor Inc., Lincoln, Nebraska, March.

Spatial dynamics of photosynthesis. Southwestern Regional Junior Science and Humanities Symposium, March.

Lowrey, T.K.

Systematics, biogeography, and evolution of Pacific Basin Astereae (Asteraceae): Evolutionary biology of peripatetic Daisies. UNM Biology Department Seminar, November.

B. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.

Mygatt, J.

Expert Witness in “Martin Sais vs. the State of New Mexico”. Identified plant fragment found on shoe of suspect. Provided testimony during the trial. February.

Sivinski, R.

Acquired the Blue Hole Cienega (116-acre wetland in Santa Rosa, NM) for the NM Forestry Division to manage as a preserve for the endangered Pecos sunflower (Helianthus paradoxus). Obtained grant funding from the U.S. Fish & Wildlife Service ($75,000) and the NM Department of Transportation ($75,000).

Acquired a perpetual forest conservation easement on the Vallecitos Mountain Refuge (130-acre private in-holding in the Carson National Forest) for the NM Forestry Division. Obtained grant funding from the USDA-Forest Service, Forest Legacy Program ($367,000).

C. Scholarly Service as a Member of a Local/State/Regional/National Committee, Panel, etc.

Hanson, D.T.

Grant Reviewer for National Science Foundation Molecular and Cellular Biosciences - Biomolecular Systems program: 2 proposals.

Grant Reviewer for National Science Foundation Integrative Organismal Biology - Functional and Regulatory Systems Cluster: 1 proposal.
Identified bryophyte specimens for Dr. Ralph Ford Schmidt, LANL. February 2005.

Lowrey, T.K.

Member, New Mexico Rare Plant Technical Council
Ad Hoc reviewer- National Science Foundation- 4 proposal reviewed
Ad Hoc reviewer, National Geographic Society- 1 proposal reviewed

Mygatt, J.

Member, New Mexico Rare Plant Technical Council
Member, Society for the Preservation of Natural History Collections (web committee)

D. Journal Referee

Hanson, D.T.

Plantae (2).

Lowrey, T.K.

Sida (1), Australian Journal of Systematic Botany (1), Systematic Botany (1).

Mygatt, J.

Collections Forum (1).

E. Hosting Professional Colloquia and Groups

None.

10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

Mygatt, J.


B. Public Service

Hanson, D.T.

Advised high school student (Carrea) on science fair project.

Mygatt, J.

UNM Student Health Center’s ‘Health Fair’. Supplied plants used for section on plant allergies. September 2005.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

Sivinski, R.

State Forester’s Award. 2005. State Forestry Division of the New Mexico Energy, Minerals, and Natural Resources Department.

12. DONATIONS AND GIFTS RECEIVED

None.

13. CURRENT STAFF (List Faculty/Staff, Students and Volunteers)

A. Faculty/Staff

Frazier, C., Program Coordinator (INRAM)
Lowrey, T.K., Curator
Mygatt, J., Collection Manager

B. Graduate students

Medeiros, J., Ph.D. Fall Graduate Assistant for Herbarium/Flora of NM
Porras-Alfaro, A., Ph.D. Spring and Summer Graduate Assistant for Herbarium

C. Undergraduate Student Workers and Volunteers

Gilroy, P. Undergraduate INRAM student employee
Gutierrez, N. Undergraduate INRAM student employee
Zickefoose, K. Undergraduate work-study student

14. MUSEUM ASSOCIATES

A. Curatorial Associates

Hanson, D.T., UNM Faculty (Curator of Bryophytes)
Sivinski, R., New Mexico State Botanist

B. Research Associates

Bleakly, D., Botanical Consultant
1. DIVISION HIGHLIGHTS.

The MSB Mammal Collection, with more than 145,000 currently accessioned specimens is world-wide in scope (68 countries) with particularly rich holdings from the western US, Latin America, and regions along the Pacific Rim. The Mammal Collection is also taxonomically broad and represents 25 orders (Fig 1). The majority of specimens are from the Orders Rodentia (98,760), Chiroptera (18,520), Carnivora (6,705), and Soricomorpha (4,570). Over the last five years, our average increase in catalogued specimens was 5,300 per year, and overall growth was 20% (ca. 27,000 specimens). We are working to secure and integrate 32,745 orphaned University of Illinois specimens. If this occurs, MSB will become the second largest university-based mammal collection in the Western Hemisphere. Traditional loans and visits to the collections have been relatively stable over the past five years but actual use of the collection has grown tremendously through the utilization of our web-based database (Table 1) and reflects a new trend in specimen-based research and further demonstrates the value of www accessibility. Approximately 300 taxidermy mounts were deeded to the Division by the estate of Frank Hibben. In 2005 the mounts were inventoried and a plan for their disposition was discussed.

Development and transition to the database management system (ARCTOS) dominated 2005. Specimens at MSB are managed within the ARCTOS system (Fig. 1) which integrates specimen data, scientific results, and extensive collection-management tools to facilitate the use of biological collections. ARCTOS integrates with BerkeleyMapper, GenBank, and a DiGIR provider that supplies various federated portals (e.g., GBIF). Twenty collections at the University of Alaska Museum of the North, the MSB, and Western New Mexico University share a multi-hosting version of ARCTOS (Oracle-based management with a Cold Fusion web interface). Independent clones are in use or under development by the UC Museum of Vertebrate Zoology and Harvard Museum of Comparative Zoology. ARCTOS is largely based on the Collections Information System at MVZ. Development efforts are being shared, and programming is freely available. Collection data is geo-referenced and available online via ARCTOS (MSB website) for use by the scientific and lay community. MSB web-based "hits" have
increased dramatically since migrating to ARCTOS and linking to the Google. Extremely high numbers of web-based "hits" are occurring (e.g. 1313 hits from June-July 2006 -- Fig. 2a), from a diverse array of referring sources (Fig. 2b), including GenBank. Researchers worldwide are now capable of and are actively utilizing these data (Fig.2c), thus effectively removing barriers due to distance. These data demonstrate the power and accessibility benefits current data basing methods are capable of achieving.

**Fig 2.** ARCTOS data base visitor statistics. a). Visitors, b). Referring sources, c). Geographic origin of visitors.
Two activities drove the division in 2005, these being, (NSF-DEB-0196095, 0415668) The Beringian Coevolution Project II (BCP) and support of Undergraduate Mentorships in Environmental Biology (NSF-DEB-UMEB, see below).

Field inventories of the BCP in 2005 focused on biodiversity of mammals and associated parasites in Beringia including remote sites in Siberia, Canada, and Alaska. Centered at the UNM, our primary collaborators were at the USDA National Parasite Lab, Russian Academy of Sciences-Magadan, and Vantaa Research Centre-Finland.

Across all field seasons since 1999, >15,000 mammal specimens (80 species, 31 genera) were captured during >150,000 trap nights of sampling effort at >200 sites (www.msb.unm.edu/mammals/research.html); materials represent geographically extensive and site intensive collections of unprecedented depth and scope. Tissues (heart, liver, kidney, spleen, and lung), embryos, parasites, and other subsamples were linked to the original voucher specimen. Materials on divergent pathways are associated with specimens deposited at UAM or the Museum of Southwestern Biology (UNM) and can be searched via WWW. More than 1500 mammals were collected in 2005. Parasites: Helminth, arthropod and protozoan parasites were a primary focus and we archived many thousands of lots (a lot represents 1 to hundreds of specimens including fleas, ticks, mites, cestodes, nematodes, and digeneans) from each host. Sub-samples were preserved in appropriate reagents and frozen and were dispersed to colleagues at the above institutions and at Louisiana State U, Indiana State U, Georgia Southern U, Harvard, and U of Wyoming. Species lists and preliminary assessment of host associations and biogeographic distributions are in progress for respective components of the parasite fauna. Assessments of descriptive biodiversity (e.g., numerical diversity, abundance, species richness, and overall geographic distribution) dictate how comparative morphology will be followed by molecular systematic and phylogeographic analyses. In 2005, parasites were screened from more than 1500 mammals and preserved.

A diverse set of publications, theses and manuscripts (>90) has been based on BCP collections since 1999. Keys and monographs to this fauna have been written that are accessible to the general public, wildlife managers and scientists.

Over the 7 year period, six high school (2 Native American), 14 undergraduate (2 Native), & 15 graduate students (2 supported yearly) and 4 postdocs (1 Russian, 1 Canadian) participated. Students learned modern methods for field inventory in parasitology and mammalogy. We delivered public seminars (e.g., to Native villages), participated in agency workshops (keynote addresses at NPS Inventory Workshops 2000; 2003-05), and international congresses. BCP was instrumental to the development of the first two International Workshops for Arctic Parasitology (Saskatchewan, 2000; Finland, 2003). In 2005, 5 students participated in high latitude fieldwork.
The Undergraduate Mentorships in Environmental Biology (UMEB) Program (with RAMHSS supplement) at UNM is conducted in collaboration with the Sevilleta LTER (LTER) program and the MSB. The goals of the UMEB program are: (1) instruct undergraduates in the principles of scientific research, (2) expose students to ecological research techniques and career opportunities, (3) facilitate individual student research projects, and (4) encourage students to continue scientific education in upper division courses and graduate school. To accomplish these goals, the program includes: (1) orientation meetings devoted to ecological research at the Sevilleta and MSB, (2) faculty student one-on-one instruction of hypothesis development and research protocols, (3) field and laboratory experiences in sampling and data collection, (4) implementation of student research projects, carried out under the guidance of student-selected faculty, (5) a UMEB Symposium for project presentations, (6) attendance at scientific meetings, and (7) preparation and submission of project manuscripts for Senior Honors Theses and, when appropriate, scientific journals. These activities integrate all theoretical and technical aspects of the LTER and MSB, and promote a holistic approach to large-scale ecological studies. In 2005, 14 students were active in the UMEB program and associated with the division.

Twelve students are being mentored currently, and 22 have graduated with their BS degrees. The UNM-UMEB has had 18 Hispanics, 8 Anglo, 2 African Americans, and 6 Native Americans. Of the students who graduated, 18 have continued by enrolling in graduate work in biology (or other related science) or secondary education. Most students have had both museum and field experience, presented papers to scientific meetings, and participated in the preparation of scientific publications resulting from their participation in research projects.

2. COLLECTION USE

TABLE 1: Collection use of the Division of Mammals 5-year running summary. Collection growth is in the number of cataloged specimens added to the division which is based on catalog number of 145,600 (140,000 for 2004). Data requests are “NA” because of a different way that this metric is now calculated. Accessions and Loans include the number of loans and the number of specimens separated by a “/”. The number of visitors includes the number of researchers and general public separated by a “/”. Publications as listed on the division web site (http://msb.unm.edu) however a more comprehensive and meaningful method of reporting publications is being gathered currently and will be reported in 2006 AR.

<table>
<thead>
<tr>
<th>Year</th>
<th>Accessions</th>
<th>Loans Outgoing</th>
<th>Loans Incoming</th>
<th>Visitors</th>
<th>Data Requests/web hits</th>
<th>Publications</th>
<th>No. Cataloged</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>47</td>
<td>16/921</td>
<td>NA</td>
<td>37/287</td>
<td>13,480 / 14,280</td>
<td>54</td>
<td>7550</td>
</tr>
<tr>
<td>2002</td>
<td>83</td>
<td>43/1290</td>
<td>NA</td>
<td>202/922</td>
<td>67,832 / 82,112</td>
<td>71</td>
<td>5700</td>
</tr>
<tr>
<td>2003</td>
<td>37</td>
<td>28/389</td>
<td>NA</td>
<td>188/772</td>
<td>61,109 / 143,221</td>
<td>73</td>
<td>4350</td>
</tr>
<tr>
<td>2004</td>
<td>90</td>
<td>58/1778</td>
<td>11/454</td>
<td>67/1387</td>
<td>12,228</td>
<td>46</td>
<td>3710</td>
</tr>
<tr>
<td>2005</td>
<td>125/2340</td>
<td>24/299</td>
<td>17/712</td>
<td>86/209</td>
<td>NA</td>
<td>73</td>
<td>5500</td>
</tr>
</tbody>
</table>
Worldwide, there are comparatively few training programs centered at university museums. Consequently, MSB plays a primary role in training the next generation of environmental and evolutionary scientists with collections based experience. Grants have allowed us to provide undergraduate assistantships and engage a larger number of undergraduate and graduate students in this major curatorial effort. UNM is a “Minority Serving Institution” and MSB is attracting top high school, undergraduate, and graduate students from diverse ethnic backgrounds to work on collections-based projects.

Graduate Students: A large proportion of the projects supported by MSB specimens are dissertation questions, ca. 15 current or recently completed dissertations at UNM (e.g., G. Racz, G. Suzan, N. Dawson) and a minimum of 30 dissertations at other institutions (e.g., Texas Tech, UCLA; Oregon State Univ.; Univ. Minnesota) are currently using MSB specimens.

Undergraduate Students: Students on NSF-REUs and in UMEB have participated in field, lab, or museum projects throughout the West and in Latin America. Our specimens support promising undergraduate projects and several recent honors theses have been based in the museum. The collection also serves as lab material in courses such as General Biology, Vertebrate Zoology, Molecular Evolution, Zooarchaeology, and Mammalogy. High School Students: Minority high school students also worked with support from NSF's program "Research Assistantships for Minority High School Students." Federal work-study funds (24 students since 1993) have provided training to many budding scientists. Indeed, many of today's best scientists and scholars began their careers associated with museums and a large number of MSB affiliated students are now professional scientists.

3. COURSES USING THE COLLECTIONS

Non-UNM Courses
Advanced Placement Biology La Cueva High School-50 students
Wildlife Biology students at Bosque School-12 students

UNM Courses
BIOL. 489 Mammalogy-56 students
GIS 381, GIS 488, (used Lepus americanus)-32 students

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

Cook, J.

Fall
BIOL. 502, Suture Zones, 5 students
BIOL. 203, 93 students
BIOL. 489, Mammalogy, 19 students
5. COLLECTION MANAGEMENT

Computing activities are detailed above and dominate much of how the collection is managed. However, because of the increasing size and complexity of the collection we are attempting to hire another collection manager.

The most ambitious activity for the division and one with currently no easy answer has been the donation of Frank Hibbens’ large collection of (mostly) large specimen mounts and (mostly) largely from Arica and nearby continents. What makes this collection challenging is the generally good but frail condition of all the specimens (housed privately with little or no ongoing upkeep for many years). Although there are numerous books and letters by Hibben that contain information about the specimens, Hibben was not a museum scientist and had little training in curation and documentation. The first goal for 2005 has been to track accurate documentation for each specimen and to assess the legality of elements of the collection. At this point the division is largely looking for a buyer to provide funds for the collection endowment and to remove materials so that they can be better cared for in other facilities. The fate of the house where this material is currently housed is unknown.

6. AWARDS, GRANTS, AND CONTRACTS
J.A. Cook

$17,000. Alaska Department of Fish and Game. Banner #048804. UAA Species of Concern in Alaska, J. A. Cook PI, 5/05-12/05. $17,000 (F&A $3,508).

$15,000. NSF, REU Supplement. Banner #048575. J.A. Cook PI, 5/05-12/06. $15,000 (F&A. $3,000).


$29,000. USDA Forest Service, Tongass National Forest. Banner # 048612. NFIM Inventory and Monitoring of Small Mammals, J. A. Cook PI, 9/05-9/06. $29,000 (F&A, $0.0).


$49,000. NIH, Fogarty International Center. NIH 2D43 TW01133-0641. Postdoctoral training in hantavirus ecology J.A. Cook co-PI, 9/04-9/05. $49,000 (F&A, $16,300).


D.W. Duszynski

$16,000. UNM/A&S. 0.5 FTE salary line for MSB first group administrator. D.W. Duszynski, PI. 07/05–06/06.

$64,000. UNM/VPR/A&S. Requested (with M.C. Molles) and secured funding for construction of fluid storage sheds. Shepherded construction, including correcting dozens of errors, through to completion, inspection, and transfer to MSB (05/11/06). Co-PIs: D.W. Duszynski, M.C. Molles. 03/05-06/06.
$6,200. UNM/Instructional Equipment Budget. Teaching equipment (2 high-quality LCD projectors) as part of an integrated program with the NSF LTER-Network Office to support teaching and research in CERIA. D.W. Duszynski, PI. 10/05.

$13,000. UNM/Media Arts/Fine Arts. Requested with Susan Dever, Chair, Media Arts, and secured funding for teaching furniture (tables, chairs) for room 335, our shared teaching room in CERIA. Co-PIs: S. Dever, D.W. Duszynski. 11/05.

$35,000. UNM/Facilities Planning/PPD Area 4. Requested/worked with Ralph Alieres to secure funds so that the sinking loading dock could be ripped up, resettled, compacted, and have a 6 inch thick, re-bar reinforced, slab poured. This had to be completed before the outside storage sheds for flammable liquids could be constructed. D.W. Duszynski, PI. 11/05.

W.L. Gannon


$7,000. U.S. Fish and Wildlife Service (Continuation). Banner # 048570. Improved housing of wolf (Canis lupus baileyi) specimens and its conservation in New Mexico. W.L. Gannon, PI. $7,000 (F&A, $0).


P.J. Polechla


D. Crawford

$1000 American Museum of Natural History Grant, 2005, D. C. Crawford.


7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes


B. Journal Articles


C. Web-Based


D. Technical Reports


E. Theses/Dissertations Completed

None.

F. Work In Progress (Only in press and already submitted)


G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers


8. ACTIVITIES IN LEARNED SOCIETIES

A. Invited/Plenary Talks and/or Seminars

J.A. Cook

Reflections on a northern host/parasite biota: Beringia, International Mammalogical Congress, Sapporo, Japan August.

Beringia: Impact of climate change on intercontinental exchange of high latitude mammals. International Mammalogical Congress, Sapporo, Japan August.

Interhemispheric exchange of high latitude mammals, European Evolution Meetings, Krakow, Poland. August (with Amy Runck).

W.L. Gannon

Defining the Molecular Landscape of Townsend’s Big-eared bat (Corynorhinus townsendii) from central Nevada: Spatial and Temporal Delineation of Populations. Invited talk to Rice University, November.

B. Contributed Talks/Posters

Cook, J.A. Interhemispheric exchange of high latitude mammals, European Evolution Meetings, Krakow, Poland. August (with Amy Runck).


Goade, D., C. Ralph, R. Nofchissey and J.A. Cook. Seroprevalence of Hantavirus in Clethrionomys rutilus in Alaska using a Multiantigen SIA and rtPCR. Tropical Medicine Meeting, Washington, DC. December


Malaney, J. AZ/NM chapter of The Wildlife Society meeting, Flagstaff Arizona “Status Assessment of Montane Populations of the New Mexico Meadow Jumping Mouse (Zapus hudsonius luteus) in New Mexico”


Ortega, K: Preparing poster for research day on the Phylogeography and conservation genetics of endemic Mustela erminea with in the Alexander Archipelago


Waltari, E. and J. Cook. Trans-Beringian colonizations at the northern crossroads. International Biogeography Meeting, January, Shepherdstown, WV


C. Attendance at Professional Meetings

Hawkins, M.

Annual Meeting of the Southwestern Association of Biologists, Portal, Arizona,
Malaney, J.
AZ/NM chapter of The Wildlife Society meeting, Flagstaff Arizona

Cook, J.A.
International Society of Biogeography Meetings-West Virginia
Evolution and Systematic Biology Meetings-Alaska
International Mammal Conference-Japan

Duszynski, D.W.
Southwestern Association of Parasitologists Annual Meeting, Lake Texoma OK, April
American Society of Parasitology Annual Meeting, Mobile AL, July, shortened by
Hurricane Dennis

D. Service as Editor or on Editorial Board of a Journal

Gannon, W.L.
Associate Editor, *Journal of Mammalogy* (2001-2005)
Associate Editor, Book Reviews, *Journal of Mammalogy* (2005-present)

E. Service as Officer or Professional Society/Organization

Cook, J.A.
NSF, BS&I, 1 review, Systematic Biology 1, review, Population Biology 2 reviews,
Civilian Research and Development Foundation, 1 review, CONICYT/FONDECYT-Chile; 1 proposal review

Duszynski, D.W.
Scientific Program Officer of the American Society of Parasitology (ASP, 18th year); in
2005, worked with the British Society of Parasitology to plan the upcoming 11th
International Congress of Parasitology to be held in Glasgow, Scotland, 4-10 August,
2006. I have also been working with colleagues in Merida and Mexico City to plan a
"Binational Congress of Parasitology" between the ASP and the Society of Mexican
Parasitologists (SMP) to be held 21-24 June, 2007.

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentations to General Audience in a Scholarly Capacity

Cook, J.A.
Beringia: Intercontinental exchange and diversification of high latitude mammals and their parasites during the Pliocene and Quaternary” Kansas State Univ., Manhattan, KS, Dec.

Gannon, W.L.

Bats! The Nature Center, Albuquerque Bosque, 200 people, December

B. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.

Cook, J.A.


Cook, J.A. and W.L. Gannon

Presentation and Discussion, Natural History Collections and Wildlife Management Needs in New Mexico. New Mexico Game and Fish Department, Santa Fe, NM. October.

C. Scholarly Service as a Member of a Local/State/Regional/National Committee, Panel, etc.

None.

D. Journal Referee

Cook, J.A.

Molecular Ecology (4), Evolution (1), Molecular Phylogenetics and Evolution (1), Journal of Mammalogy (1)

Duszynski, D.W.

Journal of Parasitology (1), Folia Parasitologica (2), Acta Protozoologica (1)

Gannon, W.L.

Journal of Mammalogy (18), Ecology (1), Southwestern Naturalist (6), Acta Chiropterologica (9)

E. Hosting Professional Colleagues and Groups
The Divisional “guest” book documents this. It shows 86 such guests that Cook or Gannon (or others) hosted.

10. SERVICE

A. Symposia, Workshops, Conferences, etc. Sponsored, Organized, Held, etc.

Duszynski, D.W.

Organized 80th Annual Meeting, American Society of Parasitologists, Mobile AL, July

B. Public Service

General

About 82 occasions were documented assisting the public either as drop-ins to the collection, phone calls, or emails. This is an important and ongoing activity that all divisional staff are occupied by.

Duszynski, D.W.

Secured the first separate budget with sub-accounts for each MSB division.

Produced the first comprehensive documentation (10/25/05) of the construction history of of CERIA with a detailed list of warranty, mechanical, electrical, and physical issues that remain undone/incomplete and pose serious health and safety threats to those who work in CERIA. A partial list includes: improper placement of acid dilution tanks that back up and release toxic fumes; data storage rooms not linked to emergency generator; inadequate, improper ducting and air-flow; lack of 17 point-exhaust arms to remove ethanol and formalin fumes in wet labs; improper installation and substandard materials in shelves, cabinets, lab equipment (dishwashers, fume hoods, etc.), doors and door framing, and other materials during phase 1 and 2 construction; inadequate fans on the roof to remove fumes from Kettle room and point-exhaust arms; missing fluid storage room (violates fire codes); sinking loading dock; lack of teaching and office furniture funds; incomplete security system, etc. etc.

Restarted MSB Publication Series: 1. Hired an Editor (Diana Northup); 2. Wrote the Mission, Policy, and Guidelines For Authors statements (http://www.msb.unm.edu/publications/publications.html) for the new series.

Initiated and edited/wrote the document, “Codifying Responsibilities For MSB Curators.”

Negotiated transfer of ownership of >300 trophies in the Hibben collection to the MSB.

Continued managing the Biological Society of New Mexico including all bookkeeping and accounting in managing funds for the chair, departmental activities (research day,
graduation, graduate student recruitment, student awards, etc), and various faculty research accounts.

**Gannon, G.L.**


**Polechla, P.**

Public Outreach: Judged 30 middle school Science Fair projects.

Gave presentation to Bluewater State Park’s Heritage Preservation Month on Iberian Peninsula horse and group of 40 senior citizens.

Lead field trip for 40 Boy Scout troop and middle school students to view wild horses and their habitat at Campbell Ranch.

Presentation to New Mexico Museum of Natural History audience (400 people) on the chapter regarding Mammals of Sandia Mountain and signed books published by UNM Press.

Presentation to 50 visitors at Wildlife West on diet of the black bear on Sandia Mountain.

Presentation to Prevet Club on UNM Campus on Iberian peninsula horses.

Testified at New Mexico State Legislature (85 people in audience) regarding Iberian peninsula horse conservation at invitation of Senator Komadina.

Testified at New Mexico Game and Fish Department and Commission regarding river otter conservation.

Gave presentation to U.S. Fish and Wildlife Service (30 people) regarding beaver ecology.

Gave presentation to U.S. Forest Service (25 people) regarding beaver ecology.

Served approximately 220 high school students in beaver ecology project involving examining riparian mammal skins and skulls, track casts, scats, and other sign, beaver dissection and preparation, and field survey. Bosque School, La Cueva High School, Sandia Prep, Sandia High School, and Newcombe High School.

Prepared 85 medium-large specimens that are difficult to prepare because they are fatty, spiny, or smelly.

Taught 20 high school and college students regarding large mammal preparation.
Assisted Los Alamos National Laboratory archaeologist in bone identification.

Assisted UNM Anthropology Department archaeologist in bone identification.

Assisted senior citizen in identification of hide used in Native American artifact.

Assisted Drylands Institute biologist in identification of raptor pellets and remains.

Taught CDC crew member specimen preparation and provided consultation to another member.

Assisted University of Virginia senior college student in identification of unknown bones in coyote scat for her Senior thesis.

Recruited 4 high school students from beaver project to enroll as college freshman at UNM Biology Department.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

None.

12. DONATIONS AND GIFTS RECEIVED

The Frank Hibben house and all natural history objects contained within.

13. CURRENT STAFF

A. Faculty/Staff

J.A. Cook, Curator
W.L. Gannon, Collection Manager
M.A. Bogan, Emeritus Curator
J.S. Findley, Emeritus Curator

B. Graduate students

Dolly Crawford, Ph.D. student. Dolly investigated molecular analysis of *Microtus mexicanus*: a test of the genetic distinctiveness of *M. mogollonensis*. This project, assisted by undergraduate Andrea Chavez, uses a loan of approximately 200 Mexican vole tissues from the Division of Genomic Resources at MSB.

Natalie Dawson, Ph.D. student. Endemism, conservation genetics, and insular biogeography of 3 carnivores of the Tongass National Forest. Has worked hard at training UMEB and REU students thoroughly in advanced lab techniques such as DNA amplification and isotopes.
Andrew Hope, Ph.D. student. Phylogenetics of Arvicoline rodents. Aside from his role in the graduate program Andrew has worked in 3 divisions in 2005 including Mammals, Genomic Resources and Plants. He has also been very effective in training undergraduate students in ARCTOS applications, specimen preparation, and curatorial techniques.

Anson Koehler, MS student. Anson examined 400 *Martes americana* and *M. a. caurina* for parasites. Assisted on a mammalogy class field trip and demonstrated parasitology techniques to students.

Jason Malaney, Ph.D. student. Snowshoe hare historical biogeography and plant herbivore coevolution. Provided extensive training of students in museum techniques, field specimen preparation and ARCTOS operations.

Elizabeth Patrick, MS student. Systematics of North American *Phenacomys*

Jason Andrew Thomas, Ph.D. student. Hantavirus/Deer mouse coevolution.

C. Undergraduate Student Workers and Volunteers

Of the 23 Undergraduates working in the collections, 12 responded with their accomplishments:

Andrea Chavez: Complete data entry of approximately 2000 specimens of *Microtus oeconomus*, donated by collector Robert Rausch. And entered voucher specimens collected and prepared by Mammalogy Class Fall 2005 into MSB collection.

Margo Dimas: Over her several years working in the collection became an extremely dependable and accurate staff member. She also began research projects first with pika at the Valles Caldera and then examining the peculiarities of bot fly and Neotoma.

Ben Ediger: Accomplished numerous curatorial tasks for the division and worked to organize tissues in the phylogeography lab and maintain documentation of these tissues. This required considerable e-mail correspondence with other institutions.

Melissa Hawkins: Completed one year of acoustical research using an Anabat system on insectivorous bats in the Central Rio Grande Bosque and began a project with the Los Alamos National Laboratory dissecting and analyzing owl pellets from the Mexican Spotted Owl.

Emily Hodson: Worked to complete integration of the USGS collections and Division of Mammals bat collections, increased the level of organization the collection, organized divisional library, processed a large amount of specimens in the preparation lab, and integrated them into the collection, moved the remainder of equipment and supplies from Castetter building into CERIA.
Erin Jackson: Began doing field work on bat surveys at West Point and REU assignments out of Seattle and Santa Barbara. Erin has been a long-term staff member and is relied upon for all aspects of collection management and monitoring bat acoustic station at the Rio Grande Nature Center.

Camille McClarin: Adopted to many collection tasks and became involved in field work in Alaska in 2005. Contributed to several research projects conducting statistical analysis and other assistance.

Randle McCain: Participated in field work in Alaska in 2005 and began research project on biogeography of parasites via leporid host.

Lena Moffit: Worked on a phylogeographic analysis of *Zapus princeps*, the Western Jumping mouse testing the hypothesis that three distinct species exist within the historical, single clade of *Zapus princeps* via genetic analysis of geographically diverse specimens. She is currently analyzing mitochondrial CytB gene and hopes to move on to analysis of nuclear introns via SNIPS.

Krista Ortega: As a laboratory technician in the Cook lab she conducted DNA extractions, PCR amplification, and sequencing procedures and maintained research lab results and specimen inventories.

Rachel Sampson: An Anthropology major, but changed to Biology and expects to graduate with honors this spring semester (2006). Aside from curatorial duties she is working on research on bat rabies (patterns of infection and testing) in New Mexico and hopes to work for the State Epidemiology labs next year.

Benjamin Schaff: Took mammalogy in 2005 and joined the divisional group in late fall. He likely will assist on field projects and develop a long-term training program with the division.

Other Undergraduates working in the Division of Mammals include:

Kendra Anderson
Nick Boyden
Stephanie Cummins
Benjamin N. Ediger
Daniel Larson
Russel Milazzo
Kristin Moore
Joseph O’Connell
Teri Orr
Teresa Sanchez
Ben Schaff

High School Students/Volunteers
Alison Monroe-NASA HS student
Jared Skullin-NASA HS student
Jonathan Tallent -El Dorado HS

14. MUSEUM ASSOCIATES

A. Curatorial Associates

James H. Brown, UNM Department of Biology
Jerry W. Dragoo, UNM Department of Biology
Donald W. Duszynski, UNM Department of Biology
Gabor R. Racz, UNM Department of Biology

B. Research Associates

J. Scott Altenbach, UNM Department of Biology
Sydney Anderson, American Museum of Natural History, New York
Robert J. Baker, The Museum, Texas Tech University, Lubbock, TX
Troy L. Best, Department of Biology, Auburn University
M. Scott Burt, Kirksville, Missouri
Eric Charnov, Albuquerque, New Mexico
Fernando Cervantes, UNAM, Mexico City, Mexico
Paul J. Cryan, Ft. Collins, Colorado
Eugene Fleharty, Oklahoma
Melissa Fleming, Poulsbo, Washington
Jennifer K. Frey, Las Cruces, New Mexico
Scott L. Gardner, Dept. Nematology, Curator, University Nebraska
Keith Geluso, Albuquerque, New Mexico
Ken Geluso, Lincoln, Nebraska
Sarah B. George, Director, Utah State Museum
Gary L. Graham, Texas Parks and Recreation Division
David J. Hafner, New Mexico Museum Nat. History
Art Harris, University of Texas, El Paso, Texas
Bruce Hayward, Silver City, New Mexico
Heikki Henttonen, Finland
Edward J. Heske, Illinois Biological Survey
Erik Hoberg, Beltsville, Maryland
R. Dewitt Ivey, Retired. Active in Botany, mammals
Clyde Jones, The Museum Texas Tech University
Sue Kutz, Saskatoon, Saskatchewan
Enrique Lessa, Montevideo, Uruguay
Stephen MacDonald, Silver City, New Mexico
Michael Mares, Norman, Oklahoma
Pablo Marquet, Valdivia, Chile
Rodrigo Medillín, UNAM, Mexico City, Mexico
In 2005 Natural Heritage New Mexico botanist Phil Tonne made national and local news for captive propagation of two endangered New Mexico plant species, the holy ghost poppy (Ipomopsis sancti-spiritus) and Sacramento prickly poppy (Argemone pleiacantha). Zoologists provided GIS-based habitat analyses to the lesser prairie-chicken (Tympanuchus pallidicinctus) and sand dune lizard (Sceloporous arenicolous) stakeholder group and pioneered remote sensing survey methods for prairie dogs. Ecologists completed vegetation maps for the Valles Caldera National Preserve and Middle Rio Grande river bars and completed the fifth year of aerial insect and vegetation biodiversity studies in the Middle Rio Grande. Information management completed NMBiotics, a new database program compatible with our geodatabase, and provided current information on New Mexico’s plant and animal species to consultants, state and federal agencies, citizens, scientists, and businesses. We worked with a graphic design company to create a new logo and web page design for NHNM.

<table>
<thead>
<tr>
<th>Collection Growth (specimens catalogued)</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Information Requests Personally Responded to</th>
<th>Publications Citing MSB Specimen</th>
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<tr>
<td>1,490 records added</td>
<td>NA</td>
<td>NA</td>
<td>37,324 to web</td>
<td>81 personally</td>
<td>16 NHNM publications</td>
</tr>
</tbody>
</table>
3. COURSES USING THE COLLECTIONS

None

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

Johnson, K.

A&S 198, Experience the Natural World, Fall, 21 students

B. Graduate Students

None

5. COLLECTION MANAGEMENT

In 2005, Natural Heritage New Mexico implemented the new international heritage data standard and created a new user interface. The new standard improves our ability to accurately characterize polygon data such as breeding territories, stream reaches, etc. We continue to lead and advise the NatureServe network on innovative data management techniques such as observation data and integration with geodatabases. We continue to build cooperative data exchange relationships with the US Fish and Wildlife Service, Bureau of Land Management, and US Forest Service. We have been chosen as the central data repository for all data on the endangered Chiricahua leopard frog. These data exchanges are adding valuable data on rare species to the Natural Heritage Information System. We have also updated our website, incorporating the new logo and data access features.

6. AWARDS, GRANTS, AND CONTRACTS

$268,148. DOD. Banner #048417. Bird and invertebrate studies at Holloman Air Force Base. Kristine Johnson, PI. 05/01-04/06. $62,770 (F&A, $12,952).

$58,800. DOD. Banner #048649. Vegetation map of Holloman Air Force Base. Kristine Johnson, PI. 09/03-04/06. $1,369 (F&A, $282).

$30,000. DOD. Banner #048480. Consultation for transient species on WSMR. Kristine Johnson, PI. 05/02-12/04. $405 (F&A $114).
$82,000. BLM. Banner #048845. Prairie dog survey & iNet Database. Kristine Johnson, PI. 07/03-08/04. $27,394 (F&A $5,653).

$49,000. USFS. Banner #048481. USFS region 3 internet web site. Kristine Johnson, PI. 01/03-12/04. $3,031 (F&A $850).


$20,000. NMGF. Banner #048582. Black-tailed prairie dog remote sensing 2005. Kristine Johnson, PI. 05/05-03/06. $8,285 (F&A $1,381).

$85,639. NMGF. Banner #048622. Database and GIS habitat analysis: lesser prairie chicken and sand dune lizard. Kristine Johnson, PI. 05/05-02/07. $26,582 (F&A $4,430).

$10,000. Isleta Pueblo. Banner #048663. Endangered species at the Pueblo of Isleta. Kristine Johnson, PI. 05/05-12/05. $4,102 (F&A $847).

$12,000. NMGF. Banner #048858. Remote sensing survey of Gunnison’s prairie dogs. Kristine Johnson, PI. 04/05-05/05. $12,000 (F&A $1,091).

$4,061. NM State Land Office. Banner #048993. Lesser prairie chicken habitat map. Kristine Johnson, PI. 10/04-05/05. $4,061 (F&A $677).


$10,000. US Fish & Wildlife Service. Banner #048651. Spikedace data project. Rayo McCollough, PI. 09/05-12/05. $7,259 (F&A $1,498).

$238,477. NPS. Banner #048459. Bandelier National Monument vegetation mapping project. Esteban Muldavin, PI. 09/02-12/06. $37,482 (F&A $4,889).

$290,000. NM Army National Guard. Banner #048476. Biological resources management program, 2003-2004. Esteban Muldavin, PI. 06/03-06/05. $42,787 (F&A $8,829).

$224,097. NPS. Banner #048546. Vegetation map for El Malpais National Monument. Esteban Muldavin, PI. 08/04-03/07. $18,565 (F&A $2,422).

$10,000. BLM. Banner #048587. Carlsbad playas surveys. Esteban Muldavin, PI. 06/05-05/06. $5,808 (F&A $1,199).
$58,016. NPS. Banner #048598. Vegetation classification Pecos Nat'l. Historic Park, Capulin Volcano Nat'l. Monument, NM & Ft. Union Nat'l. Monument. Esteban Muldavin, PI. 06/05-12/06. $20,484 (F&A $2,672).

$12,757. NPS. Banner #048611. Aerial photography ortho-rectification modification. Esteban Muldavin, PI. 06/05-04/08. $1,455 (F&A $190).

$280,000. NM Army National Guard. Banner #048624. Biological resources management program. Esteban Muldavin, PI. 08/05-06/07. $28,327 (F&A $5,845).


$45,000. BLM. Banner #048735. Santa Fe River vegetation analysis. Esteban Muldavin, PI. 08/03-05/06. $7,752 (F&A $1,560).

$10,000. NPS. Banner #048771. Vegetation map for the Southern Colorado Plateau Network: Salinas Pueblo Missions. Esteban Muldavin, PI. 08/03-12/07. $445 (F&A $58).

$73,943. US Fish & Wildlife Service. Banner #048783. River bar vegetation mapping, 03-04. Esteban Muldavin, PI. 09/03-05/06. $34,304 (F&A $7079).

$10,784. NPS. Banner #048884. Bosque del Apache vegetation classification. Esteban Muldavin, PI. 06/04-12/04. $2,634 (F&A $544).

$280,000. NM Army National Guard. Banner #048892. Biological resources management program, 2004-2006. Esteban Muldavin, PI. 06/04-06/06. $171,853 (F&A $35,462).

$20,000. BLM. Banner #048424. BLM rare plants. Phil Tonne, PI. 06/01-01/05. $6,539 (F&A $1,306).

$16,000. BLM. Banner #048888. BLM Gypsum Buckwheat surveys. Phil Tonne, PI. 05/04-12/05. $14,081 (F&A $2,906).

$19,106. NM Energy, Minerals & Natural Resources Dept.. Banner #048536. Holy Ghost Ipomopsis greenhouse studies. Phil Tonne, PI. 07/04-06/05. $18,869 (F&A $3,145).

$12,000. USFS. Banner #048541. Holy Ghost Ipomopsis propagation-US Forest Service. Phil Tonne, PI. 10/04-06/06. $4,421 (F&A $912).

$11,623. NPS. Banner #048636. Rare, threatened, & endangered plant species along Rattlesnake Trail. Phil Tonne, PI. 04/05-12/05. $11,082 (F&A $1,445).
$8,750. NM Energy, Minerals & Natural Resources Dept., Banner #048665. Endangered species recovery. Phil Tonne, PI. 10/05-06/06. $273 (F&A $46).

7. PUBLICATIONS

Books, Book Chapters, Edited Volumes

None

B. Journal Articles


Web-Based

None

D. Technical Reports


Smith, J. and K. Johnson. Southwestern Willow Flycatcher Nesting Success, Cowbird Parasitism, and Habitat Characteristics at the Pueblo of Isleta, New Mexico. Natural Heritage New Mexico. NHNM Publication No. 05-GTR-283.

Tonne, P. C. Results of rare plant surveys on Carlsbad Caverns National Park; Rattlesnake Canyon Trail. National Park Service, Carlsbad Caverns National Park, Carlsbad, NM. Natural Heritage New Mexico, Albuquerque, NM.

Tonne, P. C. Results of 2003 - 2004 Rare plant surveys on: Kasha-Katuwe Tent Rocks National Monument; Ojito Wilderness Study Area; San Miguel Creek Dome; The Trials Area. Bureau of Land Management, Albuquerque, NM. Natural Heritage New Mexico, Albuquerque, NM.

E. Theses/Dissertations Completed

None

F. Work In Progress


G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers

None

8. ACTIVITIES IN LEARNED SOCIETIES

A. Invited/Plenary Talks and/or Seminars

None.

B. Contributed Talks/Posters

Muldavin, E., D. Moore, K. Wetherill, D. Lightfoot and S. Collins. Seasonal Above-ground net primary production in black grama and blue grama grasslands, and

B. Attendance at Professional Meetings


E. Muldavin, Ecological Society of America Annual Meeting, Montreal, Canada, August.

C. Service as Editor or on Editorial Board of a Journal

None

D. Service as Officer of Professional Society/Organization

None

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentation to General Audience in a Scholarly Capacity

Tonne, P.C. Monitoring Rare Plants in New Mexico. Native Plant Society of New Mexico. July. Natural Heritage New Mexico, Albuquerque, NM.

Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.

None

Scholarly Service as a Member of a Local/State/Regional/National Committee, Panel, etc.


D. Journal Referee

K. Johnson, The Auk (1), Journal of Field Ornithology (1), American Midland Naturalist (1)

E. Muldavin, Journal of Forest Ecology and Management (1)

Hosting Professional Colloquia and Groups

None
10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

None

B. Public Service

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

None

12. DONATIONS AND GIFTS RECEIVED

Marilyn Altenbach - $150

13. CURRENT STAFF

A. Faculty/Staff
   Paul Arbetan, Research Assistant Professor
   Amanda Browder, Sr. Research Tech/Life Sciences
   Yvonne Chauvin, Sr. Research Tech/Life Sciences
   Adam Crateau, Research Assistant
   Kristine Johnson, Research Associate Professor
   Rebecca Keeshen, Office Administrator
   Kathryn Mann, Field Research Tech/Life Sciences
   Rayo McCollough, Database Administrator
   Elizabeth Milford, Research Scientist II
   Esteban Muldavin, Research Associate Professor
   Teri Neville, GIS Analyst
   Jacqueline Smith, Sr. Research Tech/Life Sciences
   Phil Tonne, Sr. Research Scientist I

B. Graduate students
   Midhun Allu Kumar, M.S.
   Olumuyiwa Oluwasanmi, Ph.D.
   Pankaj Rastogi, Ph.D.

C. Undergraduate Student Workers and Volunteers
   Barbara Coulter
   Rhonda Francisco
   Joanna Havens
   Alexandra Kirk
   Geoff Klise
   Kathryn Mann
Kari Paustian
Jamie Ruiz
Sandy Sacher
Chelsey Thomas
Emily Thorn
Keith Woodell
Mary Alice Root, Volunteer

14. MUSEUM ASSOCIATES

None

A. Curatorial Associates

None.

B. Research Associates

None.

U.S. GEOLOGICAL SURVEY

1. DIVISION HIGHLIGHTS

Efforts continued on maintenance and curation of the federal collection of vertebrates and integration of UNM and USGS specimens in the Order Chiroptera (bats). Approximately 60% (~7,200) of the dry specimens from both the USGS and UNM mammal collections were physically integrated and the specimen labels were verified against a subset of the database. Over 3,000 new MSB skin tags were attached to USGS mammal specimens as part of the recataloguing effort. The collection manager spent considerable time planning for the May 2006 joint meeting of the Society for the Preservation of Natural History Collections (SPNHC) and the Natural Science Collections Alliance (NSCA). As meeting co-host and chair of the Local Committee she worked closely with the other co-hosts and local committee members to develop, organize, and implement all aspects of the upcoming meeting. In particular she was the point of contact for all sponsors, vendors, and advertisers; developed several special session topics and list of speakers; coordinated activities with appropriate SPNHC committees; and maintained regular communication with the SPNHC Conference Committee Chair and NSCA contact in Washington, DC.

Research involving the collections included several continuing studies. During this reporting period Ernie Valdez, Keith Geluso, and Mike Bogan assisted the National Park Service (NPS) in mammal inventories on selected southwestern parks; voucher specimens were installed in the collection. Mr. Valdez inventoried mammals at Great Sand Dunes and Florissant Fossil Beds national parks and submitted final reports on this work. He continued his dissertation work on the bat *Myotis occultus* by examining ectoparasites and stomach contents from individuals captured in the field and from
museum specimens, and analyzing the data. He also assisted USGS scientist Dr. Paul Cryan, a UNM graduate, in conducting field work to document the distribution and occurrence of subspecies of the meadow jumping mouse on the northern Great Plains to evaluate its status as a threatened subspecies under the Endangered Species Act. Dr. Bogan supervised report writing on inventories of mammals at Bandelier, Chaco Culture, and El Malpais national monuments, and Dr. Keith Geluso was in charge of the field studies. Dr. Bogan also completed an inventory of bats at Canyonlands National Park and submitted an annual report. Dr. Bogan, in cooperation with Dr. Paul Cryan, continued studies on the status and distribution of nectar-feeding bats of the genus *Leptonycteris* in the bootheel of New Mexico for the Bureau of Land Management (BLM). A verbal presentation on project progress was made to BLM in March. Additional support on this project was provided by Ernie Valdez, Christa Weise, and Angela England, doctoral candidates in the Biology department.

Cindy Ramotnik completed the fifth year of a study investigating the effects of the Scott Able forest fire on the Sacramento Mountain salamander, *Aneides hardii*. With the help of an undergraduate student from New Mexico State University, Dayna Dominguez, they inspected artificial coverboards to compare relative abundance of salamanders on burned and unburned plots, and individually marked over 800 salamanders with fluorescent elastomers. Multiple animals were recaptured from the 2003-2004 effort. Results of the recapture data will allow determination of population estimates and detection probabilities. Ms. Ramotnik is finishing data analysis and a final report/manuscript on a longterm study investigating the impact of logging on the Sacramento Mountain salamander. Ms. Ramotnik also spent 10 days radiotracking nectar-feeding bats in Hidalgo County, NM and 5 days assisting on a USGS inventory of bats at Canyonlands National Park.

Dr. Janet Ruth, a Research Ecologist/Ornithologist is completing final analyses and manuscript writing in connection with field studies of habitat use in wintering grassland birds in southeastern Arizona. Dr. Ruth has completed the second/final year of data collection on a repeat of historical roadside surveys for the breeding distribution of the Arizona Grasshopper Sparrow in southwestern New Mexico and southeastern Arizona. In collaboration with a colleague at University of Southern Mississippi, the first year of a three-year project using NEXRAD radar data to document bird migration patterns and stopover habitat in the Southwest has been completed. Related to this project, Dr. Ruth has been involved in developing a USGS-USFWS collaborative effort on radar technology applications to natural resource issues. Janet is also the Partners in Flight (PIF) Co-Coordinator for USGS and attended the bi-annual national PIF meetings of the Implementation Committee and the Science Committee.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Specimens catalogued</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Information Requests</th>
<th>Citing MSB Specimens</th>
</tr>
</thead>
<tbody>
<tr>
<td>394</td>
<td>See MSB</td>
<td>See MSB</td>
<td>See MSB</td>
<td>See MSB</td>
<td>See MSB</td>
</tr>
</tbody>
</table>

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3. COURSES USING THE COLLECTIONS

See MSB Divisions.

4. COURSES TAUGHT BY MSB PERSONNEL

None.

5. COLLECTION MANAGEMENT

In 2005 USGS accessioned 13 collections including 84 amphibians and reptiles and 209 mammals, the majority from national parks in the southwestern US. The collection manager trained and supervised one museum technician and one volunteer. Approximately 60% (~7,200) of the dry specimens of the Order Chiroptera (bats) from both the USGS and UNM mammal collections were physically integrated and the specimen labels were verified against a subset of the database. Efforts continue to recatalog USGS mammal specimens into the MSB collection and as part of this effort 3,637 new MSB skin tags were attached to USGS specimens. Cindy attended meetings with the collection managers in the divisions of the Museum of Southwestern Biology to discuss joint planning efforts on the integration of the collections and implementation of shared goals in the new museum facility. She served on the MSB Fluid Storage Committee to obtain information on options to store large quantities of flammable liquids. She and the USGS Curator participated in periodic meetings of Bird and Mammal divisional staffs and monthly meetings with the MSB staff. USGS donated 7 geology cases to the UNM Geology Museum.

6. AWARDS, GRANTS, AND CONTRACTS

$24,000, NPS. 8327-SMBFC. Baseline inventory of bats at Canyonlands National Park. M.A. Bogan, PI. 01/04-09/05 ($14,358).

$300,000, BLM, Las Cruces District Office. 8327-SMBF6. Conservation studies of long-nosed bats (Leptonycteris) in New Mexico, M.A. Bogan PI. (J.S. Altenbach, and R. Sherwin), 10/01-09/06 ($70,000).

$ 2,623. New Mexico Department of Game and Fish (Endangered and Threatened Species Fund). Thomomys umbrinus in the Animas Mountains of New Mexico. K. Geluso, PI. 04/05-12/05 ($2,623).

$ 3,000. New Mexico Department of Game and Fish (Share With Wildlife Fund). Bats in Bridges in the Rio Grande Valley. K. Geluso, PI. 04/05-12/05 ($3,000).

$160,000. USFS, Alamorgordo, NM. NM-IA-01-08. Fire-effects study on the Sacramento Mountain Salamander (Aneides hardii) and its invertebrate prey base. C.A. Ramotnik, PI. 12/01-09/06 ($28,500).


$15,000. FWS, Region 2, Migratory Bird Office. # 201814N766. Bird migration patterns in the arid Southwest, J.M. Ruth, PI (R. Diehl (USM) Co-P.I.). 03/05-02/08 ($9,100).


$3,000. FWS, Migratory Bird Office, Region 6. # 60181-3-N410, Assessment of grassland birds of conservation concern, J.M. Ruth, PI. 10/03-09/06 ($1,000).

$5,000, Arizona State Parks. 06-0044. Distribution and abundance of breeding Arizona Grasshopper Sparrow, and associated priority grassland species, J.M. Ruth, PI. 10/04-04/06 ($3,000).

$30,000. NPS. 8327-SEVF7. Baseline inventory of mammals at Great Sand Dunes and Florissant Fossil Beds National Monuments, E.W. Valdez, PI. 10/02-09/05 ($18,000).

7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes


B. Journal Articles


C. Web-Based


D. Technical Reports


Geluso, K. A mountain range (Big Hatchet Mountains) in southern New Mexico without pocket gophers at high elevations? Final Report to the New Mexico Department of Game and Fish, Endangered and Threatened Species Fund, Santa Fe, New Mexico.

Geluso, K. Winter activity of bats outside their roosts in New Mexico. Final Report to the New Mexico Department of Game and Fish, Share with Wildlife Program, Santa Fe, New Mexico.


Ruth, J.M. Distribution and abundance of breeding Arizona Grasshopper Sparrow (*Ammodramus savannarum ammolegus*), and associated priority grassland species, in the Southwestern U. S. 2004. Report submitted to Arizona Game and Fish Department,
Phoenix, AZ.


**E. Theses/Dissertations Completed**


**F. Work In Progress**

**Geluso, K.** Bats in a human-made forest of central Nebraska. Prairie Naturalist.

**Ramotnik, C.A.** Handling and care of bird and mammal specimens. NPS Conserve O Grams.

**Ramotnik, C.A.** Natural history collections: a scientific treasure trove. USGS Fact Sheet.

**G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers**

See MSB results.

**8. ACTIVITIES IN LEARNED SOCIETIES**

**A. Invited/Plenary Talks and/or Seminars**

**C.A. Ramotnik.** Gave formal presentation to SPNHC membership during Annual Business Meeting informing members about the facilities, activities, and costs of registration, lodging, and meals for the proposed meeting in Albuquerque. Annual Meeting of Society for the Preservation of Natural History Collections, London, England, June.

**B. Contributed Talks/Posters**


C. Attendance at Professional

Bogan, M.A. Annual meeting of the North American Symposium on Bat Research, Sacramento, CA, October.


Ruth, J.M.: Annual meeting of the New Mexico Ornithological Society, Portales, NM, May.


D. Service as Editor or on Editorial Board of a Journal

Ramotnik: Associate Editor, Collection Forum (Society for the Preservation of Natural History Collections).

E. Service as Officer of Professional Society/Organization

Ramotnik: Society for the Preservation of Natural History Collections (SPNHC): Conservation Committee (Chair, Resources Subcommittee); SPNHC Council; and SPNHC Member-at-Large; member of Membership and Publication committees.

9. OTHER PROFESSIONAL ACTIVITIES (List division personnel alphabetically and in bold with list of other professional activities under each)

A. Colloquium Presentations


Ruth, J.M. Advancing migratory bird conservation and management by using radar: an interagency collaboration. USGS Central Region Colloquium, Denver, CO. December.

B. Presentation to General Audience in a Scholarly Capacity

Geluso, K. Rio Grande Nature Center State Park, NM. Bats of New Mexico.

Valdez, E.W. Diet of *M. occultus*. Presentation to Bosque del Apache NWR, NM.

C. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.

None.

D. Scholarly Service as a Member of a Local/State/Regional/National Committee, Panel, etc.

Bogan, M.A.


Ramotnik, C.A.

Member, New Mexico Endemic Salamander Team.

Ruth, J.M.

USGS Partners in Flight Co-Coordinator; Partners in Flight; Partners in Flight. Chair of National Research Working Group. Member of Partners in Flight Science Committee.

E. Journal Referee

Bogan, M.A.


Ramotnik, C.A.

*Collection Forum* (2).

Ruth, J.M.

*Journal of Field Ornithology* (1).

Valdez, E.W.
10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

Ramotnik, C.A.

Taught in a week-long DOI Interior Museum Program course “Curating Natural History Collections”, Denver, CO, May.

Co-host of joint annual meeting of the Society for the Preservation of Natural History Collections and the Natural Science Collections Alliance. To be held in May 2006.

Ruth, J.M.

Leading a coalition-building effort among USGS, USFWS, and other potential partners to develop a collaborative approach to applying radar technologies to bird conservation and management issues. Was editor and first author on a USGS publication summarizing this collaborative effort (see report section). 2005 and ongoing.

Leading a planning committee for a joint USGS-USFWS workshop to strengthen and broaden the collaborative effort to apply radar technologies to natural resources issues. Will involve participants from multiple federal and state agencies, NGOs, and researchers. To be held in October 2006.

B. Public Service

Ramotnik, C.A.

Participates annually in the Christmas Bird Count, Albuquerque.

Ruth, J.M. and D.J. Krueper

Participates annually in two Christmas Bird Counts - Albuquerque and Five Points (Sevilleta NWR). Annually conducts/participates in two Breeding Bird Survey routes – Counselors, NM and Fence Lake, NM. Participates annually in the New Mexico Breeding Bird Atlas – currently conducting surveys at a site in Cebolla Canyon, NM.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

Bogan, M.A.

Served as Faculty Co-Advisor for four doctoral candidates in the Department of Biology, UNM, and as a member of additional doctoral committees.
12. DONATIONS AND GIFTS RECEIVED

NA.

13. CURRENT STAFF

A. Faculty/Staff

Michael A. Bogan—Research Wildlife Biologist and Curator
Cindy A. Ramotnik—Collections Manager
Janet M. Ruth—Research Ecologist (Ornithology)
Ernest W. Valdez—Wildlife Biologist

B. Graduate students

Angela England—Wildlife Biologist, Ph.D. candidate.
Keith Geluso—Wildlife Biologist, Ph.D. candidate.
Larisa Harding—Wildlife Biologist, Ph.D. candidate.
Ernest W. Valdez—Wildlife Biologist, Ph.D. candidate
Christa D. Weise—Wildlife Biologist, Ph.D. candidate.

C. Undergraduate Student Workers and Volunteers

Ian Murray—Volunteer
Adrienne Raniszewski—Museum technician

14. MUSEUM ASSOCIATES

A. Curatorial Associates

None.

B. Research Associates

Paul Cryan, Ph.D., USGS wildlife research biologist, Ft. Collins, CO.
Robert B. Finley, Ph.D., emeritus curator, Boulder, CO.
Tony R. Mollhagen, Ph.D., emeritus professor, Texas Tech Univ., Lubbock, TX.
Tom O'Shea, Ph.D., USGS wildlife research biologist, Ft. Collins, CO