6-30-2011

Annual Report of the University, 2010-2011, Volumes 1-5

University of New Mexico

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THE UNIVERSITY OF NEW MEXICO

2010-2011

ANNUAL REPORTS

Volume I
## ANNUAL REPORTS
### 2010-2011
#### VOLUME I

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THE UNIVERSITY OF NEW MEXICO
DIVISION OF ENROLLMENT MANAGEMENT

OFFICE OF ADMISSIONS

ANNUAL REPORT

For the Period From July 1, 2010 to June 30, 2011

Matthew Hulett
Director, Office of Admissions
September 2011
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DEPARTMENTAL MISSION

- To recruit, evaluate, and admit qualified students to UNM, including beginning freshman, transfer, returning, non-degree, international, and graduate applicants;

- To provide information about UNM admission requirements, policies, and academic preparation to our internal and external constituents;

- To provide guidance for academic success and, as necessary, advise students about appropriate alternative options to help them meet their academic goals.

We do this through teamwork by providing individualized quality service to our constituents. We are committed to creativity and flexibility in working in an ever-changing environment. We strive to provide service in a way that exceeds our constituents’ expectations.

Main Functions:

1. Foster relationships with New Mexico high school counselors and collaborate with two- and four-year institutions and UNM Branch Campuses to facilitate enrollment of qualified students.

2. Facilitate the matriculation of students between New Mexico high schools and the university.

3. Represent the university and its academic programs in the development of statewide and out-of-state freshman, transfer and articulation initiatives.

4. Execute the university’s admission and enrollment regulations, as well as INS regulations, governing international students.

5. Review and evaluate applications and credentials for approximately 20,000 applicants per year.
II. ASSESSMENT OF 2010-11 STRATEGIC PLAN DEPARTMENT GOALS

1. To continue to improve operational efficiency through the use of technology and application of the best business practices for the purpose of improving the University's graduation and retention rate.
   a. Implement XML transcript processes between UNM and CNM to improve efficiency and speed of reviewing transcripts from CNM.
      *XML transcript process fully implemented fall 2011. CNM transcripts are received and auto-evaluated and articulated twice daily*
   b. Implement web application for international applicants.
      *International web application deployed*

2. To continue to improve our communications to all we serve.
   a. Redesign scholarship brochure and move to web.
      *Scholarship brochure was redesigned and updated. Application for Regents' and Presidential Scholarships was added to the web*
   b. Develop a high quality recruitment oriented video.
      *Video script and on-campus filming completed September 2011. Delivery of video anticipated by end of 2011*
   c. Enhance post-admission communications to improve enrollment of admitted students.
      i. Redesign “next steps” and “top reasons” publications.
         *Both publications were redesigned to present to be more engaging, attractive and provide more complete information to facilitate interest and enrollment*

3. To continue to provide exemplary service and achieve a 90 percent satisfactory rate or better on our service surveys.
   a. Work closely with One-Stop services and the Communications Center to allow for appropriate human resource support at all times.
      i. Submit monthly updates on management leave schedules and processing staff lunch schedules as well as master calendar additions.
         *Schedules are updated monthly*
   b. Continue cross-training of all staff and greater integration into the One-Stop environments at both Main Campus and SSSC.
i. Continue advanced cross-training of staff with second-level training completed for all staff and third-level completed for select staff. 

*Implemented training rotation schedule to OneStop location for operations and recruitment staff during less busy times to facilitate hands-on training and experience.* Assisted University Registrar with developing a core process handbook for staff deployed to OneStop location during peak customer service periods.

c. Submit operational data reports at management meetings

*Reports submitted upon request.*

4. Further enhance the University's presence in primary and secondary markets.

a. Reach out to community colleges, specifically those in our secondary market and establish articulation agreements with those community colleges that could be feeders to UNM.

i. Identify secondary markets such as El Paso, TX; Phoenix, AZ; Denver, CO, large metropolitan areas in Texas, and strategic areas in California, Florida, and Texas among others.

*Increased recruitment presence at El Paso Community College and participated in University hosted workshops with EPCC staff to increase communication and interest in UNM opportunities. Transfer recruitment staff attended recruitment fairs at two-year colleges in Colorado.*

b. Work closely with our branch campuses to promote educational opportunities beyond two years.

i. Participate in scheduled joint meetings with branches to explore opportunities in fall 2010.

*Admissions leadership participates in joint meetings with branch staff at least twice each year.*

ii. Coordinate recruitment efforts to branch campuses.

*Recruitment staff organize and coordinate with main campus academic advisors to attend transfer fairs at each branch campus each semester.*

c. Work closely with the University's distance learning division in support of the institutional enrollment goals.

i. Incorporate strategy based on collaboration with Extended University by 05.2010.

*Recruitment staff and EU staff jointly attend recruitment functions in EU service areas. EU and recruitment staff attended cross training workshop. Sharing of prospective transfer data initiated to facilitate communication with prospects in EU service areas. Joint*
5. Create a zero error expectation among all staff.
   a. Closely monitor daily reports for the purpose of addressing errors and workflow delay immediately.
      *Reports are reviewed daily and adjustments to priorities made as needed.*
   b. Clean up duplicates on a daily basis.
      *Duplicate reports reviewed daily and staff assigned to resolve duplicate issues.*
   c. Train staff to produce an error free process when using student records that have been suspended in Banner.
      *Frequent review of work produced used to identify errors, patterns of errors and corrective actions needed.*
**ENROLLMENT GOALS AND RESULTS**

- Fall enrollment increased to historical level of 29,368.
- Reduced Fall 2011 new freshmen by 7.3%.
- Increased Spring 2011 undergraduate enrollment by 4.11%.
- Reduced National Scholars from 132 to 40 at the request of University leadership.
- Overall enrollment for Fall 2011 increased 1.04%.

**REGISTRATION STATISTICS – FALL 2011**

**ABQ CAMPUS**

<table>
<thead>
<tr>
<th>STATUS</th>
<th>HEADCOUNT</th>
<th>CHANGE</th>
<th>%CHANGE</th>
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<tbody>
<tr>
<td>RETURNSING</td>
<td>20,262</td>
<td>20,838</td>
<td>576</td>
</tr>
<tr>
<td>READMIT</td>
<td>1,627</td>
<td>1,578</td>
<td>(49)</td>
</tr>
<tr>
<td>NEW BEGINNING FRESHMEN</td>
<td>3,604</td>
<td>3,341</td>
<td>(263)</td>
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<tr>
<td>NEW BEGINNING OTHER</td>
<td>143</td>
<td>194</td>
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<tr>
<td>UNDERGRAD TRANSFERS</td>
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<tr>
<td>from New Mexico</td>
<td>968</td>
<td>917</td>
<td>(51)</td>
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<tr>
<td>from outside New Mexico</td>
<td>380</td>
<td>380</td>
<td>0</td>
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<tr>
<td>NEW NONDEGREE</td>
<td>524</td>
<td>530</td>
<td>6</td>
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<tr>
<td>NEW GRADUATE</td>
<td>1,013</td>
<td>1,089</td>
<td>(76)</td>
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<tr>
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<td>236</td>
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<td>(47)</td>
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**STUDENT CREDIT HOURS**

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<th>Fall 2011</th>
<th>CHANGE</th>
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<tr>
<td></td>
<td>335,470</td>
<td>339,199</td>
<td>3,729</td>
<td>1.11%</td>
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• The Fall 2011 beginning freshman enrollment at the University was 3,341, a 7.30% decrease from the previous fall semester. A greater number of applicants were refused admission, resulting in a class whose members needed less remediation than the previous year. The University of New Mexico continued to offer the Bridge to Success Scholarship to entering freshmen for Fall 2011.

• A 98% 'satisfactory' rating achieved among prospective students and families participating in the campus tour experience. “Our tour guide did a wonderful job and was able to answer all of our questions. My daughter had before only slightly considered UNM as a potential college and now she is excited that it may be the one for her. Thank you for a wonderful day.” – A. Fraley.

• In addition to the day-to-day student contact and evaluation of credentials, the Freshman Admissions and Recruitment team coordinated numerous programs and projects that have university-wide impact:
  
  o The staff coordinated several recruitment events. Our annual Senior Day event for high school seniors and families was revamped to feature more academic choices for participants, college open house options, tours of campus and residence halls, lunch and an informational presentation detailing UNM and admission requirements were provided.
  
  o A similar event for high school juniors and their families was held in the spring to encourage prospective student to consider UNM earlier in their high school careers.
  
  o Annual workshop for NM high school counselors was revamped to make it more UNM centric - including more information about academic colleges, dual enrollment opportunities for high school students, campus housing information, scholarships and general campus updates.
  
  o Receptions for high school guidance counselors were hosted in Houston, El Paso, San Diego and Miami. These receptions provided counselors information about UNM opportunities, admission requirements and scholarships.

• Budgetary cuts eliminated certain positions and the office had to restructure with less personnel. Despite these challenges, the office successfully maintained service levels.
• Participation in the Gateway Program increased 86% – Students in this partnership program have the advantages of taking classes at CNM and other NM two-year schools while at the same time enjoying some of the benefits of being part of the UNM community.

• Brochures & Publication Redesign – Many of our standard brochures and publications now have an improved look to make them more appealing for students.

**International Admissions**

The University of New Mexico continually seeks to foster a global perspective across the entire spectrum of academic, cultural, and social life, and be a “University for the Americas.” Through involvement in the various dimensions of educational and cultural exchange, the University endeavors to strengthen communication and mutual understanding on an international level. It is the mission of International Admissions to support this commitment, while carrying out the policies of the Office of Admissions and the Office of International Programs and Services (OIPS).

International Admissions processes all prospective, non-citizen graduate and undergraduate students applying to the University of New Mexico. Every case involving transfer of credit requires the staff to do extensive research to determine comparable course content and level. They also work with U.S. and foreign organizations involved in international educational exchange.

The Admissions Office invested in marketing for international students through online and print publications designed to attract additional interest in UNM.

**Branch Campus and Community College Recruitment**

• Held on-site Admissions and Advisement sessions twice a year at each Branch campus with admission personnel and advisors from various colleges available to students.
• Assigned staff specifically to recruit students from branch and community college campuses.
• Developed a communication plan for transfer student recruitment
• Continued efforts to encourage articulation of coursework and application of technical credit where appropriate.
• Recruited Phi Theta Kappa Honors Society members from across the country.

**Graduate Admission**

The University transferred the responsibility for graduate student admission to the Admissions Office beginning April 2006. Since then the application and credential processing functions of graduate students has been merged with the undergraduate process, resulting in a more consistent flow of work. Efforts to improve the over-all experience will continue as Admissions works with the Office of Graduate Studies and the departments.
The Admissions Office recently implemented a mechanism to keep the Office of Graduate Studies informed of all eligible applicants to each of the graduate programs. This mechanism has improved response times and speed of review for applicants.

**PROPOSED DEPARTMENT GOALS FOR 2011-12**

1. Collaborate with enrollment management partners to expand email notice and online acceptance of offered scholarships.
   a. Make it possible for transfer and international recipients to accept offers online.
2. Add a virtual campus tour component / option to the campus visit experience.
   a. Develop a smartphone application to serve growing use of devices
3. Complete production of recruitment video.
4. Establish and improve Self Service for undergraduate applicants.
   a. Leverage Banner and Luminus portal capabilities to allow applicants to check application and decision status online.
5. Continue cross-training staff with second level training completed for all staff
   a. Initiate “shadowing” between staff from EM departments.
   b. Participate in all divisional training.
   c. Provide training to EM counterparts as needed.
6. Develop communication plan for high school counselors
   a. Establish regular communication
   b. Develop webpage specific to counselor needs
7. Contribute to slight growth among beginning freshmen and new transfer students
8. Develop a resource webpage for parents of prospective students
THE UNIVERSITY OF NEW MEXICO
DIVISION OF ENROLLMENT MANAGEMENT

COMMUNICATIONS CENTER
ANNUAL REPORT
JULY 1, 2010 TO JUNE 30, 2011

ALEX GONZALEZ, Registrar
November 04, 2011
Overview

The basic premise of the Communication Center is to streamline student service delivery. This involves streamlining the registration process, to stopping the student runaround and providing individualized service through a one-stop environment. The Center handles all incoming calls primarily for the Office of Admissions & Recruitment, Registrar's, Financial Aid/Scholarships in addition to other UNM offices. The Center also provides services to students that wish to engage us using the Internet (Live-Chat) submitting inquiries via e-mail or searching the self-service Answer Knowledge Base.

Vision

Students, parents and faculty will experience UNM as a friendlier, accessible, and helpful place to be. Students will also receive responsive services using current technology and media, which is consistent with the service experience and culture of the incoming generation of students.

Solutions

- We will improve customer service by ensuring all calls are answered appropriately
- Students will be able to conduct business relating to the various offices online.
- No more unanswered phone calls in the Enrollment offices.
- No need to wait in long lines to see an Enrollment Service representative.

Significant Developments during the academic year

- Developed, tested and implemented Banner Quick View Screens (Admissions, Registration and Financial Aid)
- Standardized electronic and cardstock Customer Survey.
- Automated customer survey inputs and data for monthly reporting using Opinio.
- Established automated delivery of customer surveys within RightNow for each Live-Chats.
- Established automated delivery of EM Customer Survey after completed calls using RHACOMM and Hobsons.
- Developed detail employee and student monthly work schedules to ensure proper staff resources between calls, live-chats and front desk activities.
- Published monthly electronic Executive Summary Report detailing Comm Center activities.
- Successfully incorporated quick links for access to StudentInfo and Scholarships on the UNM Home page.
- Published Front Desk SOP.
- Secured Front Desk printer for printing unofficial transcripts and student Certs.
Significant Developments during the academic year (Continued)

- Installed computer station within SSSC Lobby for use by students and guests.
- Revised EM Communication Center website to include live-chat access, scrolling text box of customer feedback, additional quick links and access to Your Opinion Counts Survey.
- Increased and expanded Standard Text to Live-Chat to assist chatters improve delivery of information.
- Established Agent Call Quality Survey
- Successful implemented remote live-chat with two student employees in Tennessee and Oregon over the 2010 summer. Students combined completed 2,700 chats.
- Coordinated establishing live-chat capabilities for Recruiters in California and Florida.
- Implemented the Live-Chat Pop-up window on EM websites inviting users/students to ask questions.
- Expanded use of GNAV Pro system to view staff breaks and lunch periods.
- Standardized and updated EM/UNM Directory information with staff and contact numbers.
- Added New Student Orientation (NSO) link to Admissions homepage to increase speed in directing students and parents to register for orientation.
- Expanded ACD Phone tree to allow callers the ability to self-direct calls to appropriate offices.
- Established the expanded use of EM_COMM_CTR-L@LIST.UNM.EDU among FinAid, Scholarships, One Stop, Admissions/Recruitment, and Records & Registration for cross-functional notification of important information and dates.
- Completed Disney Quality Service Training.
- Achieved Average Speed of Answer (ASA) on calls, 3:03 with an average monthly staff of 6.3 employees.
- Implemented the use of SMART Goals for Staff development.
- Successfully recommended to FinAid to make the Loan Enrollment Verification form accessible online allowing students to directly inform FinAid when enrolled in fewer than 12 credit hours for undergraduate students or 9 hours for graduate students.
### Data

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<th>Department</th>
<th>Total Incoming Calls</th>
<th>Total Calls Answered</th>
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<tbody>
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<td>Recruitment/ Admissions/Adm. Int’l.</td>
<td>48,489</td>
<td>38,505</td>
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<tr>
<td>Financial Aid/Scholarships</td>
<td>48,218</td>
<td>39,336</td>
</tr>
<tr>
<td>Registrar &amp; Records</td>
<td>34,470</td>
<td>27,383</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>131,177</strong></td>
<td><strong>105,224</strong></td>
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### Chat

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<td>Registration</td>
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<td>Scholarships</td>
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### AAQ (Ask a Question) E-mail

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<td>351</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>2,711</strong></td>
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### Significant Plans and recommendations for the near future

- Implementation of new IVR phone system & customer survey capability
- Work with EM groups to improve student access to information through LoboWeb
- Work with EM groups to improve student access to key StudentInfo answers.
- Work with RightNow/UNM IT to implement technology upgrades to enhance Answer Knowledge Base search and Live-Chat capabilities.
- Expand use of Quick View Agent screens to improve delivery of services.
- Addition of a text box to display real time information & dates within the Live-Chat Estimated Wait Time window.
- Work with FinAid to add StudentInfo answer links to individual Forms.
- Minimize wait times on queue to less than three minutes at the Communication Center.
- Work closely with all units to plan for appropriate human resource support at all times.
Significant Plans and recommendations for the near future (continued)

- Work closely with the University’s distance learning division in support of the institutional enrollment goals.
- Continue cross training of staff.
- Continue to provide exemplary service and achieve a 90% satisfactory rate or better on our service surveys.

Appointments to Faculty/staff
- Douglas Capitan – Term Employee (hired March 2011)

Publications of the division; publications of individual faculty/staff
- Contributor to Enrollment Management’s Quarterly Newsletter

Outside professional activities of staff members:
- Due to budget cuts, professional activities were limited.
- Anthony Gallegos served on the Parent Relations Board.
- Staff members attended Disney Quality Service Training.

Training:
- Disney Quality Service Training
- Admissions shadow training
- How to deal with angry callers (Internet video)
- On-going individual shadow training with staff expertise
- Admissions, Financial Aid and Records/Registration cross training
- Learning Central Cross Training

Outside sponsored research

None
THE UNIVERSITY OF NEW MEXICO
DIVISION OF ENROLLMENT MANAGEMENT

ENLACE
Increasing Access and Success in Education

ENLACE NEW MEXICO
ANNUAL REPORT
JULY 1, 2010 TO JUNE 30, 2011

DR. LAWRENCE ROYBAL, EXECUTIVE DIRECTOR
DIANA MONTOYA-BOYER, COMMUNITY RELATIONS MANAGER
NOVEMBER 2011
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Project Summary and Goals

Historically, affirmative action policies have evolved from initial programs aimed at providing equal educational opportunities to all students, to the legitimacy of programs that are aimed at achieving diversity in higher education. In June 2003, a U.S. Supreme Court ruling on affirmative action pushed higher education across the threshold toward creating a new paradigm for diversity in the 21st century. The court clearly stated that affirmative action is still viable but that our institutions must reconsider our traditional concepts for building diversity in the next few decades. This shift in historical context of diversity in our society has led to an important objective: **If a diverse student body is an essential factor in a quality higher education, then it is imperative that elementary, secondary, undergraduate, graduate and professional schools fulfill their missions to successfully educate a diverse population.** In New Mexico, the success of graduate programs depends on the state’s P-12 schools, the community, and institutions of higher education, and their shared task of educating all students. Further, when the lens is broadened to view the entire P-20 educational pipeline, it becomes apparent that the loss of students from elementary school to high school is enormous, constricting the number of students who go on to college. Not only are these of concern to what is happening in terms of their academic education but also in terms of the communities that are affected to make critical decisions and become and stay involved in the political and policy world that affects them.

Guiding Principles

ENgaging LAtino Communities for Education New Mexico (ENLACE NM) is a statewide collaboration of gente who represent the voices of underrepresented children and families – people who have historically not had a say in policy initiatives that directly impact them and their communities. Therefore, they and others from our community are at the forefront of this initiative. We have developed this collaboration based on a process that empowers these communities to find their voice in the pursuit of social justice and educational access, equity and success.

Core Values

- **Inclusivity:** We believe that a Latino-focused educational initiative will create a world-class educational system for all students. Every student must experience the opportunity and support necessary to achieve academic success.
- **Transparency:** We believe that remaining responsive and responsible to students, parents, educators and communities is imperative to educational success for students in New Mexico.
- **Cultural Humility:** We believe that our work recognizes, validates and embraces the core cultural values of our stakeholders – the strength of familia, the bonds of comunidad and the mutuality of respeto.
- **Bottom-Up Change:** We believe students, parents, educators, and communities themselves must define the programmatic and policy issues necessary to affect systematic change. Policy recommendations will reflect best practices and lead to institutionalized programmatic innovations that will be assessed through qualitative and quantitative research.

As a collaborative, we realize that to truly transform New Mexico’s educational system, all corners of the state must be represented. Statewide coordination and a common agenda will bring a deeper recognition of the necessity for a seamless P-20 system and the basis for social
improvement and the advancement of New Mexico's human capital. A broader collaborative will generate strategies for addressing concerns in a strategic and focused way through a well-informed process. This process will lead to closer ties with more communities and will provide a way for our communities' voices to speak as one. New Mexico is regularly listed at the bottom of national rankings for child poverty, low graduation rates, and lack of economic opportunity. New Mexico is depicted as a state that does not recognize the assets that Latinos, who represent 42% of the population, provide. With our statewide work, we as a collaborative team will bring about educational reform that, in turn, puts New Mexico on the map in a way that truly represents the strengths that this state and our citizens possess. ENLACE rejects the language of educational deficits and focuses on the strengths and potential of the students. Our work has profound implications for the future of New Mexico and its youth and will serve as a national model for other states and communities.

Framework

Our work is based on a framework for success that addresses the following interdependent components in the public education system:

- **Families and Community**: Generate a new culture within participating educational institutions, and accompanying procedures, that value and respect community and family involvement as a key factor in contributing to the academic success of Latino youth.
- **Educators**: Enhance the professional development of current and potential educators in a manner that encourages respect for Latino culture, history, and language; instills high academic expectations for Latino youth; results in the production and use of culturally relevant curricula; and increases role models and mentors for Latino youth.
- **Standards and Assessment**: Create strong accountability systems that focus on improving Latino academic performance, retention, and graduation, and that facilitate a seamless pathway to college. Institute fair and ongoing assessment that is culturally and linguistically appropriate.
- **Funding**: Mandate equitable funding across all districts and within districts; fund outcome-based programs that incorporate genuine community involvement; and provide appropriate financial and other support services that ensure that postsecondary education is accessible to Latino youth.
- **Policies**: Identify the best-methods and lessons-learned and convert them into legislation, regulations, policy, programs and practices that institutionalize and systematize the innovations that have been developed by ENLACE.

With regard to these target areas, ENLACE New Mexico has worked to raise awareness about the inequities in the current system, provided information on the types of alternative models and approaches that can be utilized, explored how to institutionalize effective models and ideas, and used research to contribute to the continuous improvement of changes that are made.

Because of the diverse representation characterizing ENLACE partnerships, the Collaborative's views of statewide issues are well rounded. While some of the partners are more experienced in developing policy, the ENLACE New Mexico Collaborative takes pride in integrating community voices to develop its policy recommendations. ENLACE creates an opportunity for parents and families, many without strong English language skills or educational achievement
themselves, to gain confidence in their capabilities to serve as advocates for their own children, as well as assume leadership roles promoting the betterment of children in their communities. Moreover, as students feel their opinions are listened to with respect and help shape the final recommendations for changes in state policy, their commitment to support those efforts intensifies.

ENLACE has played a critical role in placing the issue of Latino and other minority students’ academic success on local, state and national policy agendas. We are committed to continuing to work toward systemic change by improving the capacity of our partners to serve as informed advocates, enhancing our ability to produce and disseminate concrete evidence and information about best practices and outcome-based results, and to build broad bases of support that will ensure that policies are adopted and implemented based on communities to become a statewide movement for transformational change.

In the future, we see New Mexico as a state with:

- An excellent public education system, which is vital to the quality of life of all New Mexico citizens and communities and fundamental to preserving a strong democratic society now and in the future.
- Public schools that are held to high standards of accountability at both the state and federal levels. Education policies are formulated to assure that all New Mexico children learn to their fullest potential; and continually strive for improvement and progress with an understanding of the need for commitment to the highest standards of student achievement.
- Students who are engaged in the educational process and take responsibility for their own education; helping to improve systems for others; and mentoring, tutoring, and/or otherwise supporting higher educational achievement among their peers, parents and community members. Students are supported in their efforts to enter and complete college through sustainable partnerships among higher education institutions, P-12 schools and local communities.
- Hispanic-serving institutions and other institutions acting in partnership with Latino communities to articulate and implement comprehensive plans aimed at strengthening the educational pipeline, decreasing high school dropout rates and increasing college completion rates. Latino faculty and students’ leadership roles and capacity are expanded in the process of developing and implementing plans in sustaining partnerships.
- Latino organizations, communities and students represented substantively in decision-making, in the formation of plans; in the implementation of creative educational models and in the governance process.
- Innovative plans, based on the objectives of ENLACE, promoting a sense of communal responsibility for greater academic access and success for Latino/a youth.
- Models and information about university/P-12/community/business partnerships reaching a variety of local, state and national audiences, including policy and other decision makers, colleges, universities, school districts.

If current demographic changes continue, in twenty years the majority of students in public schools will be Latino. We must create schools that reflect the variety of Latino histories, narratives and aspirations. We must produce educators who will respect and develop this ethnic
diversity as part of New Mexico’s cultural capital. If New Mexico can rise to this challenge, we will serve as a model for the region, the nation, and the globe.

**Proposed Strategic Goals for 2008 – 2013**

Through a series of statewide meetings, ENLACE has developed a comprehensive strategic plan focusing on the upcoming five years. Three broad action items were developed along with several more core action strategies, determined by focus groups consisting of students, family members and the leadership team, each of which align with the broader items. The overarching action items include: sustainability, policy development and student success, each of the focus group strategies fall into one of the three overarching action items.

Through a series of statewide meetings, ENLACE developed a comprehensive strategic plan focusing on the upcoming five years. Four broad action items were developed along with several more core action strategies, determined by focus groups consisting of students, family and community members and an ENLACE leadership team. The overarching action items include: academic achievement, policy development, partnerships, and sustainability. The following goals correspond to the action items as listed above. Academic achievement: increase student access and success as well as family involvement, policy development: support policies that work for New Mexico communities, partnerships: develop and sustain a strong network of support, and sustainability: enhance education and community systems.

This five-year strategic plan guides ENLACE as it seeks to further its mission to increase retention and graduation rates, while smoothing transitions in the P-20 pipeline. This strategic plan outlines the work that ENLACE does and will continue to do in reaching the goals reported to HED below.

The following chart lists the overarching action items and the corresponding goals:

<table>
<thead>
<tr>
<th>Core Action Strategy</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Achievement</strong></td>
<td></td>
</tr>
</tbody>
</table>
| Student Support            | • Provide additional tutoring for elementary, middle school, high school and college students  
                             | • Increase collaboration and partnerships to enhance support programs  
                             | • Increase access to rigorous curriculum including enriched, honors, advanced placement, and dual credit courses  
                             | • Expand P-20 mentoring, including community and peer mentors  
                             | • Ensure leadership and career pathways as well as job skills  |
### Core Action Strategy

#### Academic Achievement

<table>
<thead>
<tr>
<th>Family Support:</th>
<th>Goal</th>
</tr>
</thead>
</table>
|                | • Support family involvement initiatives including family and community centers especially within hard-to-reach populations  
|                | • Increase family awareness regarding educational institutions and how to finance college  
|                | • Provide and support educational programs including GED and ESL classes  

<table>
<thead>
<tr>
<th>Teacher Support:</th>
<th>Goal</th>
</tr>
</thead>
</table>
|                 | • Increase support to enhance educational expectations  
|                 | • Increase cultural competency and sensitivity training  
|                 | • Promote advanced placement and dual credit opportunities  
|                 | • Expand training for Teachers of English to Speakers of Other Languages (TESOL)  

#### Policy Development

<table>
<thead>
<tr>
<th>Goal</th>
</tr>
</thead>
</table>
| • Develop legislative and policy priorities directly from community and stakeholders  
| • Create programmatic and policy agenda utilizing data and best practices  
| • Disseminate information and resources to constituents via mailing lists and community forums.  
| • Conduct policy forums that improve civic engagement and community knowledge  
| • Increase policy involvement at local, state, national, and global levels  
| • Support policy initiatives that seek to empower communities and create better educational outcomes for all students  

#### Partnerships

<table>
<thead>
<tr>
<th>Goal</th>
</tr>
</thead>
</table>
| • Further collaboration between students, families, schools, and communities to build capacity  
| • Continue to build partnerships with programs throughout the P-20 education pipeline  
| • Link the unique services we provide to organizations with similar missions  
| • Identify additional programs that enhance services to students, families, and communities  

#### Sustainability

<table>
<thead>
<tr>
<th>Goal</th>
</tr>
</thead>
</table>
| • Maintain current legislative efforts for funding and support  
| • Increase foundational support through partnering institutions  
| • Seek leveraging opportunities with a variety of partners  
| • Expand funding sources for policy and program initiatives  

### Significant Developments

As a collaborative, ENLACE has required that we set aside our individual interests for the good of the whole, something that has challenged our teamwork and stretched our creativity. Through commitments, collaboration, and sharing of resources, we have accomplished much in the last several years:

- The ENLACE Family center model has been funded for statewide dissemination by the state legislature in recognition of the fundamental importance of parents and families in their children’s education.
- ENLACE worked with state legislators to create changes in the way school districts track graduation rates as a means for improving accountability, and to require the inclusion of
multicultural content in 10% of all instructional materials on the approved state textbook lists.

- ENLACE representatives have provided testimony and briefings to key state and national legislators and policy groups, and hosted national conferences.
- As a result of our activities, ENLACE students' attendance rates, grade point averages, and persistence's and graduation rates have shown measurable increases. Most importantly, students and families have begun to understand that college, for them, is a reality.
- ENLACE helped bring a dialogue regarding school counselors and the counselor-student ratio to the state level. Through the New Mexico School Counselor Task Force that met for over a year, recommendations were made to the state and a report was disseminated to key public and higher education officials to increase quality school counseling and Next Step Plans for students.

Public Policy & Legislative Initiatives

The 2011 Legislative Session proved to be a very contentious one for the State of New Mexico. Many programs received cuts in funding and harsher scrutiny on programmatic results. Given the difficult economic times, ENLACE received relatively low cuts in funding. For the fiscal year 2010 – 2011 the legislature, through the New Mexico Higher Education Department, allotted ENLACE $1,001,330. Like previous years the funds were equally distributed to the five ENLACE regions for $200,000 to each region and the remaining $1,330 went to the ENLACE Statewide Office.

For the fiscal year 2010 – 2011 the legislature allotted ENLACE $1,032,300. The funds were equally distributed to the five ENLACE regions. As previous years, the regions voted to fund the ENLACE State Office at an amount of $32,300, leaving each region with a total budget of $200,000.

For the fiscal year 2009 – 2010 the legislature allotted ENLACE $1,147,300. The funds were equally distributed to the five ENLACE regions. As in the 2008-2009 fiscal year, the regions then voted to fund the ENLACE State Office at an amount of $147,300, leaving each region with a total budget of $200,000.

ENLACE had great success during the 2008 legislative session. The New Mexico Higher Education Department (HED) allotted ENLACE $1,147,300 for the fiscal year 2008 – 2009. The funds were distributed equally to all five regions, per a decision by the Statewide Executive Team. In previous years, the ENLACE Statewide Office was funded solely by the W.K. Kellogg Foundation. Therefore, the 2008-2009 fiscal year was the first that the Collaborative was reliant on state funding solely.

ENLACE leaders and participants have actively worked to inform, influence, and change education policies to better serve New Mexico's students, with special emphasis on underrepresented students. This has required identifying effective strategies for supporting
Latino and other minority students' education and then engaging in policy discussions to advocate for replication of these strategies to impact an increasing number of students and to sustain the work begun at the local community levels. Additionally, ENLACE continues to develop and maintain relationships with policy makers across the state.

**Virtual ENLACE Day at the New Mexico Capitol**
Another successful measure of the 2011 Legislative Session was ‘Virtual ENLACE Day.’ Each year ENLACE organizes its annual legislative day, ENLACE Day at the New Mexico Legislature, where community members, families and students convene at the New Mexico Legislature to advocate on behalf of ENLACE, to learn about the legislative process, and to share their personal experiences and successes with ENLACE programs. Because of the need to limit spending, ENLACE hosted the 2nd Annual Virtual ENLACE Day, created last year when it became the first live webcast of the event from the State Capitol. ENLACE students served as the primary leaders and used their expertise in technology to create a live webcast that included a press conference, a panel of legislators, community members, parents and students. Hundreds of people tuned in to see their ENLACE colleagues in action. In addition, ENLACE organized a 4-language postcard for the writing campaign, ‘Voices From My Community,’ so that every representative and senator would receive a personal message from ENLACE students and parents sharing their stories and requesting ongoing support for ENLACE and education. The postcards were all hand delivered by the ENLACE Legislative Student Interns.

**ENLACE Legislative Internship**
The sixth annual ENLACE Legislative Internship took place the week of February 6-11, 2011, sponsored by ConocoPhillips. Nine students from around New Mexico took part in a weeklong internship, exposing these students to state government through leadership activities, shadowing New Mexico Senators and Representatives and networking. Students had the opportunity to meet with Governor Martinez and Lt. Governor Sanchez in order to discuss successes and challenges regarding the P-20 educational pipeline.

Below is an outline of the issues and priorities that the ENLACE community agreed upon for the 2011 legislative session.

**ENLACE New Mexico Statewide Collaborative**
During difficult economic times, ENLACE stakeholders understand the need for the state to curtail spending and do what is best for all New Mexican families. Because education is one of the best predictors for economic recovery, especially in economic hard times, it is essential to continue investing in education. Therefore, ENLACE sought to maintain current funding in order to sustain programmatic levels across the state, providing a continuity of services to New Mexico’s students, families, and communities.

**ENLACE Mentoring & Tutoring Initiatives**
ENLACE’s culturally relevant mentoring and tutoring programs promote academic and personal success among middle and high school students. Programs focus particularly on students from diverse economic and cultural backgrounds. ENLACE requested level funding for these initiatives to maintain core services.
Family & Parent Involvement
The ability for students to succeed in their education depends greatly on their families’ level of involvement. ENLACE remains dedicated to the core mission of providing avenues of engagement, involvement, and growth for families across New Mexico. ENLACE advocated for the Family & Youth Recourse Act to obtain additional funds to support these services.

ENLACE’s Ongoing Legislative Focus Areas include:

- Adult Education
- Bilingual Education
- Counselor Taskforce
- Curriculum
- Financial Literacy
- Health & Law Center Pipeline Programs
- Immigration Reform
- Lottery Scholarship
- Science, Technology, Engineering, and Mathematics (STEM) Initiatives
- Professional & Leadership Development Programs
- Public School Funding Formula
- Service Learning
- Small School Initiative
- Youth Entrepreneurship

Accomplishments

To accurately measure student achievement it is imperative to measure factors not only related to academic success, but also to familial support as well as emotional, mental, and physical wellness. While academic achievement is necessary for a student to succeed in seeking a higher degree, it is not sufficient. Students need a more holistic measure of achievement. Therefore, ENLACE makes certain to track non-academic measures, for example, contact hours and participant levels in ENLACE programs, along with academic measure, including student GPAs, attendance rates and graduation rates.

Recently, ENLACE met with the New Mexico Higher Education Department with the goal of discussing and agreeing upon reporting measures, leading to increased transparency and accountability. The present progress report is a synthesis of the data submitted by ENLACE regions that offers insight related to the New Mexico Higher Education Department established areas of focus including program contacts and participation, program retention, grade-to-grade matriculation, graduation, and grade point averages.

Program Participation & Contacts
After meeting with the New Mexico Higher Education Department, ENLACE decided to report program participation numbers for two different types of programs: direct services and indirect services. A direct service program is one that maintains consistent contact with a student over the school year. For this program, academic gains for the student can be traced back to the ENLACE program(s) they are involved in. (Students in direct service programs always fill out a Participant Form and therefore we track their data.) Indirect service programs are those that do not have consistent interaction with the student and/or family member(s). For example, a student attended a workshop regarding college preparation. Any gains in the student’s academic career will not be traced back to their involvement in ENLACE indirect programs. (Students involved in any indirect service program do not fill out a Participant Form, only sign in on the ENLACE
Indirect Service Program Roster. We do not track their educational data; we track their participant levels in ENLACE indirect services.

Statewide Aggregate Totals

<table>
<thead>
<tr>
<th>Region</th>
<th>Direct Service</th>
<th>Indirect Service</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Central</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Los Compañeros (Middle): 156 Students</td>
<td>Los Compañeros: 29 Student mentors</td>
<td></td>
</tr>
<tr>
<td>Los Compañeros (High): 702 Students</td>
<td>College Success Course: 77 Students</td>
<td></td>
</tr>
<tr>
<td><strong>Total:</strong> 858</td>
<td>Video Modules: 33 Participants</td>
<td></td>
</tr>
<tr>
<td><strong>Eastern</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title I Family Literacy: 89 Pre-K Students</td>
<td>Enrichment &amp; Wellness Program: 116 Students</td>
<td></td>
</tr>
<tr>
<td>ENLACE Tutorial Program: 147 Students</td>
<td>Clovis Municipal Schools Day Care Program: 512 Students</td>
<td></td>
</tr>
<tr>
<td>Family Leadership Institute: 97 Graduates</td>
<td>Family Center (Camo, Roswell): 254 Students</td>
<td></td>
</tr>
<tr>
<td>GED Completion: 4 Students</td>
<td>Puentes: 3 Parent Advocates</td>
<td></td>
</tr>
<tr>
<td>ESL Classes: 17 Students</td>
<td>Zenith Youth &amp; Leadership Academy: 20 Students</td>
<td></td>
</tr>
<tr>
<td>ENLACE/ENMU Tutorial: 5 Tutors</td>
<td>Roswell Health &amp; Resource Fair: 365 Participants</td>
<td></td>
</tr>
<tr>
<td><strong>Total:</strong> 359</td>
<td>Spanish Club: 20 Students</td>
<td></td>
</tr>
<tr>
<td><strong>Northeastern</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carinhos After School Tutoring: 28 students</td>
<td>Senior Night: 300 Participants</td>
<td></td>
</tr>
<tr>
<td>AVID (Middle): 186 Students</td>
<td>Scholarship Nights: 201 Participants</td>
<td></td>
</tr>
<tr>
<td>Summer Bridge (Middle): 26 Students</td>
<td>AVID Parent Night: 313 Participants</td>
<td></td>
</tr>
<tr>
<td>AVID (High): 433 Students</td>
<td>FAFSA Nights: 264 Participants</td>
<td></td>
</tr>
<tr>
<td>Peer Mentoring/Tutoring: 25 Students</td>
<td>Student Leadership: 44 Students</td>
<td></td>
</tr>
<tr>
<td><strong>Total:</strong> 698</td>
<td>SFCC Student Ambassador: 25 Students</td>
<td></td>
</tr>
<tr>
<td><strong>Northwestern</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GED Classes: 116 Students</td>
<td>Community Events: 453</td>
<td></td>
</tr>
<tr>
<td>ESL Classes: 154 Students</td>
<td>College Preparatory Initiatives: 324</td>
<td></td>
</tr>
<tr>
<td>Computer Literacy: 14 Students</td>
<td>Immigrant Integration Events: 218</td>
<td></td>
</tr>
<tr>
<td>Building Latino Leadership: 18 Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Children’s Activities Program: 37 Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambassador Program: 6 Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centro de Herencia: 17 Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citizenship Classes: 7 Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total:</strong> 369</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Southern</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.C.E. (High): 213 Students</td>
<td>Family Center: 342 Students</td>
<td></td>
</tr>
<tr>
<td>EXITO (College): 259 Students</td>
<td>Video Module: 248 Participants</td>
<td></td>
</tr>
<tr>
<td><strong>Total:</strong> 472</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>2,756</td>
<td>7,648</td>
</tr>
</tbody>
</table>
Table 2: Participant Totals by Region

<table>
<thead>
<tr>
<th>Region</th>
<th>Direct Service</th>
<th>Indirect Service</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central</td>
<td>858</td>
<td>2,511</td>
<td>28,150</td>
</tr>
<tr>
<td>Eastern</td>
<td>359</td>
<td>1,290</td>
<td>5,130</td>
</tr>
<tr>
<td>Northeastern</td>
<td>698</td>
<td>1,928</td>
<td>12,949</td>
</tr>
<tr>
<td>Northwestern</td>
<td>369</td>
<td>1,329</td>
<td>19,037</td>
</tr>
<tr>
<td>Southern</td>
<td>472</td>
<td>590</td>
<td>32,049</td>
</tr>
<tr>
<td>Statewide</td>
<td>2,756</td>
<td>7,648</td>
<td>97,315</td>
</tr>
</tbody>
</table>

The following section addresses ENLACE direct service program retention, grade-to-grade matriculation, graduation, and fall and spring semester grade point averages. Indirect service programs do not impact academic achievement in the ways direct service programs do; therefore, the data within this section refers only to direct service programs and participants as listed above.

**Program Retention, Grade-to-Grade Matriculation & Graduation Rates**

**Statewide Aggregate Totals**

The following tables provide a summary of statewide grade-to-grade matriculation, program retention, graduation rates, and college acceptance rates shown by grade level as well as by region.

Table 3: Student Retention, Matriculation, Graduation for Direct Service Programs

<table>
<thead>
<tr>
<th>ENLACE Region</th>
<th>Total # Of Students</th>
<th>Program Retention</th>
<th>Grade-to-Grade Matriculation</th>
<th>High School Graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central</td>
<td>858</td>
<td>858/962 = 89%</td>
<td>700/772 = 91%</td>
<td>138/161 = 85%</td>
</tr>
<tr>
<td>Eastern</td>
<td>359</td>
<td>238/241 = 98%</td>
<td>149/152 = 98%</td>
<td>26/27 = 96%</td>
</tr>
<tr>
<td>Northeastern</td>
<td>698</td>
<td>615/650 = 95%</td>
<td>574/580 = 99%</td>
<td>103/104 = 99%</td>
</tr>
<tr>
<td>Northwestern</td>
<td>372</td>
<td>369/372 = 99%</td>
<td>18/18 = 100%</td>
<td>5/5 = 100%</td>
</tr>
<tr>
<td>Southern</td>
<td>578</td>
<td>223/244 = 91%</td>
<td>92/93 = 99%</td>
<td>51/65 = 78%</td>
</tr>
<tr>
<td>Totals/Averages</td>
<td>2,865</td>
<td>2,303/2,469 = 93%</td>
<td>1,533/1,615 = 95%</td>
<td>323/362 = 89%</td>
</tr>
</tbody>
</table>

**Grade Point Averages**

**Statewide Aggregate Totals**

The following table depicts the average grade point averages for students in participating in ENLACE direct service programs by grade level.
<table>
<thead>
<tr>
<th>Table 4: Student GPAs for Direct Service Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student GPAs by Grade Level</td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td>Middle School</td>
</tr>
<tr>
<td>High School</td>
</tr>
<tr>
<td>Totals/Averages</td>
</tr>
</tbody>
</table>

**Collaboration & Partnerships**

The partnerships ENLACE has established have fostered the belief that broader systems impact is created through leveraging all resources, not simply funding, while holding all stakeholders accountable. These partnerships serve as a vehicle for change. ENLACE forges partnerships between educational institutions and students, families, educators and community leaders. These partnerships include preschools through high schools, community colleges and universities. Because of their high enrollments of Hispanic and low-income students, efforts are centered on public institutions of higher education that are designated Hispanic-Serving Institutions.

The nature in which ENLACE partners with particular organizations says much about the strength and integrity of community partnerships. Partnerships are formed with various organizations that have similar missions and values because there is a common understanding that the challenges are greater than our programs alone and united advocacy is necessary for bottom up change. Although ENLACE prides itself on its positive student outcomes we believe the broader systems impact comes into play when we not only develop our students but also our communities. This is accomplished through civic engagement, parental involvement, leadership development and pipeline programs at a grassroots level.

ENLACE is leveraging its resources to impact a greater community through relationships established with UNM, including the Division of Enrollment Management, the Division of Student Affairs, the Division for Equity and Inclusion, College Enrichment and Outreach Programs (CEOP), Title V Educational Initiatives, LGBTQ Resource Center, Upward Bound, Mentoring Institute, El Centro de la Raza, Family Development Center, Comadre a Comadre, Latin American Network in Government and Public Policy, Southwest Hispanic Research Institute (SHRI), Parent Relations, Project for New Mexico Graduate Students of Color (PNMGC), the Health Sciences Center and the School of Law. A specific example of ENLACE leveraging its resources to impact a greater community is the Los Compañeros mentors collaborating with the College Enrichment Program (CEP) at the University of New Mexico to orient and develop incoming University freshman. ENLACE mentors have the leadership skills and passion for education to influence anyone from middle and high school students to legislators. In return, the mentors are exposed to professionals who, in many cases, become mentors and role models to undergraduate and professional students, creating a web of opportunities. ENLACE’s involvement with think tanks and committees have had favorable outcomes in regard to educational reform and policy development.
Successful Project Activities and Partnership Efforts
ENLACE New Mexico has evolved and changed with the goal of meeting the needs of students and families to improve academic achievement and graduation rates as well as education on health and well being that has large effects on New Mexico’s communities. The ENLACE Collaborative’s “bottom up” work has far exceeded program expectations in terms effectively meeting this policy goal. Consider that many Latino and other underserved parents and family members do not know how to navigate urban and rural school systems. School personnel, including classroom teachers, are often inaccessible; they neither speak Spanish nor share the cultural backgrounds of the majority of the students. Consequently, parents and students feel alienated from the school. The ENLACE New Mexico Collaborative was specifically designed to address the problem through policy development. The Collaborative creates a sense of value, purpose and ownership among parents of students in the targeted schools and surrounding neighborhoods. In fact, bilingual English-Spanish communication is one of the most prominent quality indicators offered by parent volunteers in the ENLACE movement. Moreover, ENLACE New Mexico is an oasis for many Latino and other minority and underprivileged students. Equally important, we address the need for many policies and services that are bilingual and geared toward immigrants. Parents import into the schools a set of competencies and skills that help students feel more at ease. In addition, evaluation findings revealed 1) increases in frequency of communication between families and schools; 2) increases in the quality of the relationship established between families and schools; and 3) increases in the involvement of parents in supporting students’ learning and policy work.

National Networks and Partnerships
Sharing ENLACE models and best practices at a national level has been an important focus. ENLACE leadership and staff have partnered with many national organizations to share ENLACE information and have brought national partners to visit ENLACE sites. Examples of national partnerships include Abriendo Puertas, American Bar Association, AmeriCorps, Appleseed Foundation, Daniels Fund, GEAR-UP, Hispanic Association of Colleges and Universities (HACU), League of United Latin American Citizens (LULAC), LULAC National Education Service Centers (LNESC), MANA, Nation Association of Latino Elected and Appointed Officials (NALEO), National Council for Community and Education Partnerships (NCCEP), National Hispanic Caucus, National Hispanic Institute (NHI), Parent Teacher Association (PTA), and the W.K. Kellogg Foundation.

With each connection, it became more apparent that national partnerships are necessary for ENLACE to have the impact it wishes. These national partnerships accomplish the following:
- Demonstrate ENLACE New Mexico’s dedication to educational reform, at the state and national levels;
- Provide information on local policies and practices;
- Establish and strengthen working relationships with national allies;
- Network with political leadership from across the country
ENLACE’s Work Plan as Part of UNM Division of Enrollment Management

- Continue to provide support to our community for the purpose of access and success for all future students. Generate ongoing reports regarding these efforts.
- Work closely with parents and families to nurture and support future students as they transition to higher education.
- Enhance a strategic communication plan with all ENLACE students integrated as prospects in our database. ENLACE will create monthly emails for all prospects and families throughout the academic year. ENLACE will also design postcards for students and families each semester. Maintain special codes as part of our business plans and procedures throughout the academic year.
- Build community coalitions and partnerships. Coordinate with Admissions, Financial Aid, and various other campus organizations to execute special presentations targeted toward community outreach.
- Continue to collaborate with all pre-collegiate and special programs to ensure that all students participating in these initiatives are part of our database.
- Report on total number of students created in the ENLACE database and begin analyzing how many of these prospects pursue higher education.

Publications

- ENLACE Policy Agenda (January 2011)
- Strategic Plan Brochure (August 2010)
- Progress Report to New Mexico Higher Education Department (January 2011)
- Secondary Progress Report to New Mexico Higher Education Department (June 2011)
- Annual Report to New Mexico Higher Education Department (September 2011)
- ENLACE Annual Report to UNM (November 2010)

Staff Development

Lawrence Roybal, PhD, Executive Director
Rosemarie Romero, Senior Program Manager
Diana Montoya-Boyer, Community Relations Manager
Josh Corbin, Education Specialist
Cynthia Medina, Education Support Coordinator
Christina Tapia, Education Support Coordinator
Mary Jessa Bunker, Educational Site Coordinator
Maria Molina, Education Associate
Alma Alvarez, Education Associate
2010-2011 Personnel Changes

HIRED: N/A
RETIRED: N/A
RECLASSIFIED: N/A
REIGNED: Cynthia Medina

The above staff members were active in the following community organizations:

Abriendo Puertas
Albuquerque Hispanic Chamber of Commerce
Albuquerque Partnership
American Bar Association
AmeriCorps
Appleseed Foundation
Association of Community Colleges
Bank of America Foundation
Cebrera la Ciencia
Center for the Education and Study of Diverse Populations (CESDP)
Children Youth and Families Department (CYFD)
Citi Foundation
Citizen Schools
Comadre a Comadre
Community Science Connections
Conoco Phillips Foundation
Daniels Fund
De Colores, Inc.
El Centro de Eualdad y Derechos
ENLACE Communitario
Encuentro
Excellencia in Education
Family Leadership Institute (FLI)
Family Parent Advocacy Council
Families In Schools
GEAR-UP
Generation Justice
Grandparents Raising Grandchildren
Hispanic Association of Colleges and Universities (HACU)
Hispanic Heritage Celebration Committee
Hispanic Statement of Cooperation (HSOC)
Hispanic Round Table of New Mexico (HRT)
Juvenile Detention Centers
La Plazita
Latino/Hispanic Education Improvement Task Force
League of United Latin American Citizens (LULAC)
LULAC National Education Service Centers (LNESC)
MANA de Albuquerque
Mathematics, Engineering, Science & Achievement (MESA)

National Association of Hispanic Publications (NAHP)
Nation Association of Latino Elected and Appointed Officials (NALEO)
National Council for Community and Education Partnerships (NCCEP)
National Hispanic Caucus
National Hispanic Institute (NHI)
New Mexico Economic Development
New Mexico Educators Federal Credit Union Foundation (NMEFCU)
New Mexico Family/Parent Involvement Advisory Council
New Mexico Hispanic Bar Association
Outcomes, Inc.
Parent Teacher Association (PTA)
Parent Teacher Organization (PTO)
Parents Reaching Out (PRO)
Qwest Foundation
Rural Education of New Mexico
Self Reliance Foundation
SER de New Mexico
Somos Un Pueblo Unido
Southwest Creations
SouthWest Organizing Project (SWOP)
SPARX/Lorenzo Antonio Foundation
Think New Mexico
Upward Bound
W.K. Kellogg Foundation
Wells Fargo Foundation
Youth Development Incorporated (YDI)
Youth Media Project
2nd Judicial District Pro Bono Committee
Mission Statement

The Enrollment Management Information Technology (EM IT) team is responsible for the implementation and support of computer-based information systems within the division. Software applications, computer hardware, desktop support and security are the main responsibilities of EM IT. Staff, internal and external to the division, rely on these systems to effectively do their jobs. We measure success by providing prompt and professional service with minimal downtime. Our goal is to effectively support staff, so they may efficiently serve the student population. Central to this goal is a reliable desktop PC, systems that have a high percentage of availability, and a secure environment.

Solutions

- Prompt and effective resolution to system issues.
- Industry standard or better system availability to ensure high levels of staff productivity.
- Systems Analysis to offer solutions to complex business needs.

Significant Developments

- Upgrade of Singularity Document Imaging System to version 7.0.6.
  Execute a major upgrade of this critical system that increased functionality, productivity, and performance. Functional improvements included activity based logging, more robust security, and the ability to implement digital signatures, which is a key component to the online forms technology. Considerable training of end users prior to the upgrade.

- Implementation of Singularity online forms utilizing a digital signature.
  Expand the number of Online PDF forms available to students for Financial Aid, Registration and Admissions, and implement a “digital signature”. Every form that is submitted online results in one less document that needs to be delivered, sorted, and scanned. Forms are routed via workflows to the staff resulting in greater productivity.

- Upgrade of Document Imaging Database server.
  Install Windows 2008, configure, and migrate databases to new hardware. This resulted in significantly better system performance.

- Restructured Onestop remote support.
  Utilizing RDP, VNC client, and other remote support technologies, remote access to systems was configured. All EM IT staff were trained to use these tools to resolve issues at off-site locations, resulting in greater productivity.
Cross training for all staff. IT staff continued to be cross trained for backup and improved service.

Data

RightNow CRM Incidents (July 1, 2010 to June 30, 2011)

<table>
<thead>
<tr>
<th>Category</th>
<th>Incidents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desktop Support</td>
<td>821</td>
</tr>
<tr>
<td>Security</td>
<td>1403</td>
</tr>
<tr>
<td>STARRS</td>
<td>318</td>
</tr>
<tr>
<td>WEB Development</td>
<td>147</td>
</tr>
<tr>
<td>No Value</td>
<td>210</td>
</tr>
<tr>
<td>Total</td>
<td>2899</td>
</tr>
</tbody>
</table>

Downtimes for our server systems are .05% per year, with 0.1% and below considered acceptable for e-commerce and other industrial use. We achieve these excellent results by closely monitoring our servers and making configuration changes to avoid issues. Redundancy is built into our systems to mitigate any hardware failures.

Desktop systems have similar high levels of availability. Spare machines, imaging technology, proactive virus detection software, and a secure environment ensure that users have a reliable PC.

Significant Plans and recommendations for the near future

- Upgrade the OCR application to Hyland Transcript Capture.
- Upgrade EM PC systems to WIN 7.
- Implement additional digitally signed online forms.
- Server virtualization.
- Extend system fault tolerance further with the addition of redundant servers.
- Continue to provide exemplary service with minimal downtime.
Appointments to Faculty/staff

None

Separation of faculty/staff

None

Publications of the division; publications of individual faculty/staff

None

Outside professional activities of staff members

EAST
IT Agents
EM Cross Training
Banner Training

Outside sponsored research

None
The University of New Mexico
Internal Audit Department
Annual Report
July 1, 2010 - June 30, 2011

Manu Patel, Internal Audit Director
Table of Contents

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Introduction

The University of New Mexico Internal Audit Department's (Department) mission is to assist personnel in effectively, efficiently, and economically fulfilling their assigned responsibilities by providing objective analyses of the activities reviewed. In doing so, we work together with University departments to develop, improve, and implement policies and procedures, streamline processes for most efficient use of time and resources, and enhance training.

The limited staff resources and investigations resulted in decreased hours spent on risk-based scheduled audits. The Department lacked an audit manager for the year; this also greatly hampered efforts in meeting goals. The size and scope of audits conducted and the time spent on investigating reported fraud and misconduct greatly affected the number of audits completed.

Chart 1 illustrates the percentage of audit work hours performed, by audit type, for FY07 through FY11.
The Department adds audits to the work plan in the following ways:

- The Department includes risk based (planned) audits based on a risk assessment performed by the Department, with input from the University administration.
- Via Management request - special requests made during the fiscal year by the President, Board of Regents, and Management. Because of the source of the request, these audits are also risk based and are high priority.
- The Audit Director adds fraud or misconduct audits - resulting from allegations, which after a preliminary review, may result in a significant risk to the University.

Other services provided include training, consulting, and receiving and reviewing complaints of fraud or misconduct.

Fiscal Year 2011 Audit Plan

The FY11 audit plan included 25 audits, consisting of:

- 7 audits in progress at the end of FY10,
- 14 audits approved by the Audit Committee on the initial FY11 audit plan, and
- 4 audits added to the audit plan during FY11 due to management requests or reported misconduct or fraud.

See Chart 2 below for the status of the FY11 audit work plan. Factors contributing to the 20% completion rate of FY11 audits are:

- Audits were larger in scope than the originally budgeted man hours
- Significant loss of man hours due to staff vacancies

Chart 2 - Status of Audit Work Plan FY11
### Fiscal Year 2011 Audit Plan Detail

<table>
<thead>
<tr>
<th>Report No</th>
<th>Report Name</th>
<th>Audit Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010-04</td>
<td>Provost General Administration</td>
<td>Risk Based</td>
<td>In Process</td>
</tr>
<tr>
<td>2010-07</td>
<td>Audit of Selected Payroll Processes</td>
<td>Risk Based</td>
<td>Final Report Issued</td>
</tr>
<tr>
<td>2010-08</td>
<td>Audit of Real Estate Operations</td>
<td>Risk Based</td>
<td>In Process</td>
</tr>
<tr>
<td>2010-10</td>
<td>HSC Conflict of Interest</td>
<td>Fraud and Misconduct</td>
<td>In Process</td>
</tr>
<tr>
<td>2010-12</td>
<td>Safety and Risk Services Insurance Allocations</td>
<td>Risk Based</td>
<td>In Process</td>
</tr>
<tr>
<td>2010-13</td>
<td>Safety and Risk Services Audit of Operations and Compliance</td>
<td>Risk Based</td>
<td>Final Report Issued</td>
</tr>
<tr>
<td>2010-14</td>
<td>Biology Department Audit of Allegations Regarding Sevilleta Fuel Usage</td>
<td>Fraud and Misconduct</td>
<td>Review Completed</td>
</tr>
<tr>
<td>2010-15</td>
<td>IT Firewalls</td>
<td>Risk Based</td>
<td>In Process</td>
</tr>
<tr>
<td>2011-01</td>
<td>Gallup Bookstore Investigation</td>
<td>Fraud and Misconduct</td>
<td>In Process</td>
</tr>
<tr>
<td>2011-02</td>
<td>Department of Intercollegiate Athletics Men’s Basketball Audit of Undeposited Cash</td>
<td>Fraud and Misconduct</td>
<td>Final Report Issued</td>
</tr>
<tr>
<td>2011-03</td>
<td>Academic Records Management</td>
<td>Risk Based</td>
<td>Deferred</td>
</tr>
<tr>
<td>2011-04</td>
<td>Admissions</td>
<td>Risk Based</td>
<td>Not Started</td>
</tr>
<tr>
<td>2011-05</td>
<td>Registration</td>
<td>Risk Based</td>
<td>Not Started</td>
</tr>
<tr>
<td>2011-06</td>
<td>Gallup Branch Audit of Business Processes</td>
<td>Fraud and Misconduct</td>
<td>Final Report Issued</td>
</tr>
<tr>
<td>2011-07</td>
<td>Health Sciences Center Emergency Medicine</td>
<td>Risk Based</td>
<td>In Process</td>
</tr>
<tr>
<td>2011-08</td>
<td>School of Engineering Deans Office</td>
<td>Risk Based</td>
<td>Deferred</td>
</tr>
<tr>
<td>2011-09</td>
<td>Change Control</td>
<td>Risk Based</td>
<td>Deferred</td>
</tr>
<tr>
<td>2011-10</td>
<td>University Architect</td>
<td>Risk Based</td>
<td>Deferred</td>
</tr>
<tr>
<td>2011-11</td>
<td>HSC Medical Faculty</td>
<td>Risk Based</td>
<td>In Process</td>
</tr>
<tr>
<td>2011-12</td>
<td>Bookstore - Main and Branches</td>
<td>Risk Based</td>
<td>Deferred</td>
</tr>
<tr>
<td>2011-13</td>
<td>Grants Accounting/Research</td>
<td>Risk Based</td>
<td>Deferred</td>
</tr>
<tr>
<td>2011-14</td>
<td>University Services</td>
<td>Risk Based</td>
<td>Deferred</td>
</tr>
<tr>
<td>2011-15</td>
<td>National College Athletics Association Compliance</td>
<td>Risk Based</td>
<td>Deferred</td>
</tr>
<tr>
<td>2011-16</td>
<td>Student Housing</td>
<td>Fraud and Misconduct</td>
<td>In Process</td>
</tr>
</tbody>
</table>
Fiscal Year 2011 Accomplishments

- Included Performance Audit components in the Safety and Risk Services and Payroll audits. Performance auditing helps to determine whether the University is achieving the objectives established by the Board of Regents and is managing its resources in an effective, economical, and efficient manner. The Director and all auditors attended High Impact Performance Audit training in November, 2010.
- Utilized ACL audit software in auditing the Gallup Branch campus.
- Coordinated with and assisted external auditors on UNM Main Campus Bookstore inventory as a cost-saving measure for the University.
- Continued participation with the University of New Mexico Hospital’s internal audit function and in the process of serving on the Selection Committee for the Request for Proposal process for the new UNMH audit contract.
- Streamlined processes and found opportunities to accomplish more with fewer resources, including the current process of gathering information on and comparing multiple electronic work paper software options.
- Identified $250,000 in savings and recoverable expenses. Provided substantial, recurring savings for the University by identifying an opportunity to streamline Payroll processes.

The Department has not accomplished the following prior items due to lack of staff and/or resources:

- Developing and posting online training.
- Offering an overview of Internal Audit processes at employee orientation (for all new employees).
- Increasing awareness of the hot line via listserv, training sessions, and web sites.
- Updating and presenting training modules for fraud and payroll.
- Notifying all complainants within 10 days of action taken.
Plans for Improvement

The Department plans to improve their efficiency and image, assist employees, and enhance internal processes, by:

- Increase emphasis on performance auditing, i.e. search for opportunities to incorporate performance auditing in every appropriate audit performed.
- Further enhance use of ACL audit software to improve audit productivity and efficiency by developing data analysis programs for sampling, stratifying samples, and identifying data outliers. Examples of ACL data analysis functions for audit staff could include the following: duplicate invoice numbers; excessive overtime in a department or by employee; duplicate payments; hourly employee records (to review for excessive pay rates); and matching employee records to vendor records (to identify employees who are also paid as independent contractors).
- Expand coordination with the external auditors to ensure appropriate coverage of audit risk and collectively reduce audit duplication and trim external audit fees.
- Finalize and implement electronic work paper software and related training.
- Expand cost savings and/or revenue enhancements when appropriate and if applicable.
## Performance Goals for Fiscal Year 2011 Completed

### Performance Goal 1 - Provide quality audit reports that are useful to auditee's, management, and the Board of Regents’ Audit Committee.

<table>
<thead>
<tr>
<th>Measure</th>
<th>Target</th>
<th>Results for FY11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audits and reviews are relevant and address risks.</td>
<td>50% of completed audits and reviews originate from the risk-based audit plan.</td>
<td>50%; 2 of the 4 completed audits identified as risk-based on the FY11 audit plan. At fiscal year-end 7 risk-based audits were in process.</td>
</tr>
<tr>
<td>Audits and recommendations add value.</td>
<td>75% of recommendations implemented within specified dates.</td>
<td>71% of recommendations implemented within specified dates.</td>
</tr>
<tr>
<td>After-audit surveys rate value-added at 4 or above (on a 1 - 5 scale).</td>
<td>Average value-added rating 3.3 and average overall rating of 3.8.</td>
<td></td>
</tr>
<tr>
<td>Audits are timely.</td>
<td>Complete 75% of audits within 15% of budgeted hours.</td>
<td>Completed 75% of audits within 13% of budgeted hours.</td>
</tr>
</tbody>
</table>

### Performance Goal 2 - Audits result in more efficient and effective University operations.

<table>
<thead>
<tr>
<th>Measure</th>
<th>Target</th>
<th>Results for FY11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audits and reviews identify potential cost savings and increases to revenue.</td>
<td>Potential savings, cost avoidance, and increased revenues are greater than or equal to 100% of the Department budget.</td>
<td>Identified potential savings, cost avoidance and increased revenues was $250,000 or 37% of approved FY11 budget of $684,371.</td>
</tr>
<tr>
<td>Audit recommendations address University-wide issues.</td>
<td>50% of reports include University-wide recommendation(s).</td>
<td>50% of completed audits include University-wide recommendations.</td>
</tr>
</tbody>
</table>

### Performance Goal 3 - Reduce potential liability to the University by coordination of investigations of allegations of fraud and employee misconduct.

<table>
<thead>
<tr>
<th>Measure</th>
<th>Target</th>
<th>Results for FY11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate investigations and report on allegations.</td>
<td>Work with Human Resources, University Police, University Counsel, and State Auditor to conduct timely investigations.</td>
<td>Improved coordination with other departments. 23 reports of misconduct referred to other departments.</td>
</tr>
<tr>
<td>Increase accountability by assisting University in documenting wrongdoing by employees.</td>
<td>All cases of potential fraud or potential violations of criminal statutes turned over to proper authorities for prosecution.</td>
<td>7 letters to the State Auditor reporting potential violations. Coordination across the University is improving.</td>
</tr>
<tr>
<td>Provide follow-up information to individuals who allege misconduct at the University.</td>
<td>Notify individuals within 10 days of action taken. When investigation is complete, notify complainant within 10 days.</td>
<td>1 out of 10 formal complainants notified within 10 days of action taken. Improvement needed.</td>
</tr>
</tbody>
</table>

### Performance Goal 4 - Prevent potential problems through proactive consulting, training, and communication.

<table>
<thead>
<tr>
<th>Measure</th>
<th>Target</th>
<th>Results for FY11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Present training on various topics to University faculty and staff.</td>
<td>Continue participating in Grants management training.</td>
<td>Performed two Grants Management training seminars.</td>
</tr>
<tr>
<td>Communicate corrective actions University-wide to address systemic problems.</td>
<td>University-wide communications provide Audit Tip of the Month through the list serve, or on Department web page.</td>
<td>Target not met because of other priorities. Limited staff does not allow for this at this time.</td>
</tr>
</tbody>
</table>
The Internal Audit Department's Hours by Category

The Department’s professional staff worked a combined total of 10,486 hours. The Department tracks hours worked on detailed time reports, showing the specific audit or other category where the professional employee spent his or her time. The auditors may work on multiple audit projects at any given time; therefore, auditors track time spent each day on various projects. The table below shows the total hours, with non-audit/investigation classifications of hours subtracted out, leaving a remainder of 6,726 net hours devoted to audit and investigatory work.

<table>
<thead>
<tr>
<th>Average Available Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Available Hours</td>
<td>10,486</td>
</tr>
<tr>
<td>Less: Network and Database Admin</td>
<td>85</td>
</tr>
<tr>
<td>Training Attended</td>
<td>393</td>
</tr>
<tr>
<td>Leave</td>
<td>1,659</td>
</tr>
<tr>
<td>Administrative and Other Duties</td>
<td>1,624</td>
</tr>
<tr>
<td>Net Audit and Investigative Hours Available</td>
<td>6,726</td>
</tr>
</tbody>
</table>

Chart 3 below breaks down the percentage distribution of the audit and investigative hours by category. Detailed explanation of each category follows.

Direct Audit Hours - Direct Audit Hours are the hours the professional audit staff spent on specific audits or projects, including significant work related to reporting misconduct. Hours spent on follow-up procedures are included in this category.

Committee Work - University committees may invite the Department's personnel to participate.
Misconduct and Consulting Work - This category represents hours spent on reports of fraud and misconduct that do not result in extensive work by the Department. Methods to report fraud and misconduct include hotline calls; interviews with complainants; e-mails; letters; concerns expressed by administrators; and other “tips.”

Training Presented - The Department participates in presenting the mandatory Grants Management Program.

Network Administration and Database Maintenance Performed for the Department - The Information Systems Auditor provides support for the Department’s technology and databases.

Staff Training - Each professional staff member in the Department must attend a minimum of 40 hours of continuing professional education each year.

Leave - This category captures sick, annual and holiday leave. Employees take leave in accordance with University policy.

Administrative and Other Duties – Administrative activities include attending Regents’ meetings, attending high-level University meetings, reading professional literature, preparing monthly and quarterly reports, preparing for Audit Committee meetings, preparing correspondence to the State Auditor and other officials, attending Departmental staff meetings, reviewing internal payroll and other financial documents, and other varied duties.
The Internal Audit Department’s Hours by Department/School/College

Chart 4 illustrates a breakdown of the Department’s professional staff hours by category: Department/School/College. The percentage of time spent in these areas varies each year based on the audit plan, audit follow-up, management requests, committee and consulting work, and investigations of fraud or misconduct.

Note: Other hours total 308 hours and consist of hours charged for follow-up, consulting, committee and reviewing reports of misconduct. The areas included under other are Associate VP Student Life, Information Technology Services, School of Medicine, VP Division of Enrollment Management, VP for Student Affairs, VP HSC Administrations and VP Research and the VP Research & Economic Development. Hours charged to these areas range from a high of 107 hours charged to the School of Medicine to a low of 1 hour charged to the VP for Student Affairs.
The Internal Audit Department’s Hours for Fraud, Misconduct, and Consulting

University policy designates the Department as the point of contact for reporting fraud or misconduct. The Department also provides consulting. The amount of Department time spent in FY11 on intake, providing guidance and reviewing reports of fraud and misconduct totaled 1,678 hours. Chart 5 below shows the number of contacts received over the past five fiscal years, and Chart 6 identifies the percentage of contacts by type. The contacts are from e-mails, letters, phone calls, in person visits, or through the University hotline. In FY11, the Department included only fraud or misconduct complaints in the number of contacts, questions or requests for information where excluded.

![Chart 5 - Number of Contacts](chart5.png)

![Chart 6 - Percentage of Contacts by Type](chart6.png)
The misconduct and fraud process is as follows:

- **Intake** - includes interviewing complainant, reviewing e-mails, letters and hotline reports.
- **Review** - includes reviewing information provided by the complainant, interviewing other involved parties, reviewing University documents, and other evidence as necessary.
  The review process includes documenting interviews and analyses.
- **Referral** - in some cases, refer complaints to another University office or to University management for resolution. The Department provides the referred party with the documentation and analysis developed during the review process.
- **Audits** - the Department will perform an audit based on the information received from the complainant, if the information may result in significant risk to the University.
- **Tracking** - the Department tracks referrals from intake through resolution.

<table>
<thead>
<tr>
<th>Internal Audit Department Staffing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Separations of Staff</strong></td>
</tr>
<tr>
<td><strong>Name</strong></td>
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<td>None</td>
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<td><strong>Appointments of Staff</strong></td>
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<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td>Manu Patel</td>
</tr>
<tr>
<td>G. Christine Chavez</td>
</tr>
<tr>
<td><strong>Vacant Positions</strong></td>
</tr>
<tr>
<td><strong>Job Title</strong></td>
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<tr>
<td>Audit Manager</td>
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<td>Auditor III</td>
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<td>Auditor III</td>
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<table>
<thead>
<tr>
<th>Service to the Profession and Public Service</th>
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</thead>
<tbody>
<tr>
<td>Department personnel are dedicated University employees and active members in both their profession and the community. The audit staff members belong to the following professional organizations:</td>
</tr>
<tr>
<td>• Association of College and University Auditors</td>
</tr>
<tr>
<td>• Institute of Internal Auditors</td>
</tr>
<tr>
<td>• Information Systems Audit and Control Association</td>
</tr>
<tr>
<td>• Association of Certified Fraud Examiners</td>
</tr>
<tr>
<td>• New Mexico Society of Certified Public Accountants</td>
</tr>
<tr>
<td>• American Institute of Certified Public Accountants</td>
</tr>
<tr>
<td>• Information Systems Audit and Control Association - Current Board Member/Webmaster</td>
</tr>
<tr>
<td>• Institute of Management Accountants</td>
</tr>
</tbody>
</table>
THE UNIVERSITY OF NEW MEXICO
DIVISION OF ENROLLMENT MANAGEMENT

VETERANS RESOURCE CENTER

ANNUAL REPORT

July 1, 2010 – June 30, 2011

Alex Gonzalez, Registrar
VETERANS RESOURCE CENTER

MISSION

The mission of the Veterans Resource Center is to serve those members of the military and their dependents who have and are serving us so faithfully. We are committed to helping them achieve their life goals by enabling a full network of services, academic and outside veteran services.

OVER ARCHING GOALS OF THE CENTER

• To make the University of New Mexico known as the premier veteran friendly institution in a veteran friendly state.
• To increase the admission, retention and graduation rates of veterans.
• To make the Veterans Resource Center an accessible resource to all of New Mexico’s veterans.
• To ensure that the Veterans Resource Center is effectively and efficiently meeting the needs of New Mexico’s veterans and their dependents.
• To increase access to higher education for veterans and their families.
• To remove social, physical, and psychological barriers through a strong and vibrant network with New Mexico’s vast veteran services, other higher education institutions and internal UNM organizations.

ASSESSMENT OF DEPARTMENTAL GOALS 2010-2011

1. Implement Communication strategy into Hobsons.
   a. Weekly communications go out to all new applicants who checked that they are Veterans, Active Duty, or Dependents of Veterans. These communications highlight their Federal and State Education benefits and that the VRC will assist.
2. Enhance recruitment efforts to Veterans so that the University can enjoy a 25% increase in Veterans joining the UNM family from previous years.
   a. Participated in community events specific to Veterans to highlight university programs and admission requirements to UNM.
   b. Collaborate with CNM to improve transfer process of student veterans from CNM to UNM.
3. Utilize IT to reduce storage requirements and reuse office supplies for inactive VA files.
   a. Will begin to scan documents in 2011-2012 to alleviate the need for storage for paper files.
4. Reduce the use of paper and mailing costs within the Veterans Organization by utilizing on-line technology for VA benefits, transcripts, parent letters, etc.
   a. Will begin to utilize Hobson’s in 2011-2012 to inform students of available benefits rather than sending paper letters.
   b. Will work with EM IT in 2011-2012 to review possibility of students submitting online forms to the VRC.
5. Develop a Peer Mentoring Program for Veterans.
   a. Goal has been moved to 2011-2012.
6. Get a Veterans House/Lounge and relocate all services there.
   a. Created a student lounge at the Mesa Vista Hall office location.
   b. Reviewed possible sites to relocate the VRC services.
7. Enhance the Veterans Resource Center website for better customer services.
   a. Website was updated to ensure accuracy of information.

<table>
<thead>
<tr>
<th>UNM GI Bill Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Summer</td>
</tr>
<tr>
<td>Fall</td>
</tr>
<tr>
<td>Spring</td>
</tr>
<tr>
<td>2008-2009 2009-2010 2010-2011</td>
</tr>
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Separation of Staff
Elise Wheeler, Lt Col, USAF (Ret)

SIGNIFICANT ACTIVITIES
• Developed network services for Veterans available through the VRC are for all UNM and CNM veterans:
  o Work Force Solutions – Assist Veterans and qualified dependents in finding jobs.
  o Disabled American Veterans – Assist Veterans with their disability claims.
  o Home Base – VA psychologist lead group to help Veterans transition into academia
  o Personal counseling on the Pros and Cons of the different GI Bills that a Veteran is entitled to use. This is not limited to people going to UNM and CNM, we work with anyone who asks for assistance.
• Outreach has been a priority for this office due to our direction from President Schmidly. The VRC monthly attends the Transition Assistance Program at Kirtland AFB. Due to the MOU with NM Department of Veteran Service and Work Force Solution the VRC is also present at most Job Fairs and conferences where Veterans are highlighted.
• Partnered with Distance Education on how to reach the Veteran Population. Presented ideas and overview of the Federal Education Benefits, GI Bills, and impact to their staff. Worked with UNM Farmington on advertisements
• Guest presenter at many staff and faculty meetings and functions to help them understand the Ethnic Veteran and ensure they know that the VRC is a resource for them.
• Key team member on the State Wide implementation of Senate Bill 136 with New Mexico Higher Education Department and New Mexico Department of Veteran Services.
• Briefed New Mexico Legislative Committee on the issues facing veterans in academia.

Goals for 2011-2012
1. Utilize IT to reduce storage requirements and reuse office supplies for inactive VA files.
2. Develop a Peer Mentoring Program for Veterans
3. Relocate Veterans Resource Center to a better space to help enhance and improve services.
4. Work with EM IT and VA to explore the possibility of having student veterans submit their forms online.
5. Submit grant proposal for a student Veteran Upward Bound program.
6. Submit proposal to host a Vet Success program on campus.
Mission

The Office of the Registrar is a customer-focused organization whose mission is to preserve academic integrity; ensure adherence to academic policy; safeguard the security of academic records; provide course and classroom management and provide student information and data reporting for students, faculty, staff and external constituencies of the University. The Office does this in a diverse environment utilizing advanced technology and a legacy of commitment in order to create, apply and disseminate knowledge.

Significant Developments during the academic year

- Re-engineered website to make it more user friendly and easily access documents.
- Reviewed business processes and made adjustments to lower the number of “L” courses in transfer articulation to less than 900.
- Launched online university catalog and implemented workflow for editing the catalog.
- Implemented a new grade entry project that now offers three methods of entering grades: WebCT, excel spreadsheet upload and self-service LoboWeb module.
- Began project to electronically transfer records via XML to CNM.
- Implemented online graduate degree audit.
- Implemented multi-term registration with the School of Engineering.
- Implemented pre-requisites into the LoboTrax degree audit.
- Implemented online submission of forms.
- Demised yellow card process with Summer semester.
- Continued to provide curriculum change workflow training to curricula committees, department administrators, and faculty as needed.
- Continued to provide training sessions to academic departments on curriculum approval process, completion of curriculum request forms, and catalog galley submission.
- Provided classroom scheduling services by creating and maintaining section and final exam matrices.
- Produced and communicated schedule build timelines, protocols and procedures to department coordinators and academic staff at Scheduling workshop.
- Coordinated LoboTrax training with the Student Advisor workshop and provided training sessions for the branch campus encoders regarding interactive audit.
- Implemented Transfer Evaluation System (TES) and trained academic advisors on functionality and tracking system.
- Implemented transfer rules for the top 40 feeder institutions.
- Implemented Banner 8.3 & 8.4.
- Continued to participate in Faculty Workload Implementation project.
- Implemented method for staff to print enrollment certifications from Banner.
- Adjusted waitlist feature to allow better functionality.

## Data

### Residency for In-State Tuition Purposes

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<th>Season</th>
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<tr>
<td>Fall</td>
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<tr>
<td>Spring</td>
<td>112</td>
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### Catalog and Curriculum:

- **Curriculum forms for inclusion in 2010-2011 Catalog**

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<td>B</td>
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<td>C</td>
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### Academic Renewal petitions

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<tr>
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### Grade Replacements

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<td>Fall</td>
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<tr>
<td>Spring</td>
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<tr>
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### Grade Petitions

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<tr>
<td>Still in Process</td>
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<td>Total</td>
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### Instructor Initiated Grade Changes

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<tr>
<td>Fall</td>
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<tr>
<td>Spring</td>
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<tr>
<td>Total</td>
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### Registration Exception Cards processed

<table>
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<td>Summer Before Section Census</td>
<td>1272</td>
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After Section Census 283
Fall
Before Section Census 5977
After Section Census 1701

Spring
Before Section Census 2776
After Section Census 1575

AY Total
Before Section Census 10,025
After Section Census 3559
Total 13,584

University of New Mexico Transcript Requests processed
Official 37,554
Unofficial 11,052

University of Albuquerque Transcript Requests processed
Official 190
Unofficial (we do not provide unofficial)

Significant Plans and recommendations for the near future
- Implement Banner workflow to assist with NR grades.
- Implement electronic transfer of records so that UNM is able to receive records and move to the degree audit and Banner.
- Implement auto graduation.
- Waitlist- implement preferences/priorities.
- Provide access for students to print unofficial transcripts from LoboWeb.
- Availability for students to request pdf version of official transcript.
- Continue to work closely with academic scheduling to ensure that we have appropriate classes and sections as reflected by students’ demand.

Appointments to Faculty/staff
Promotions (Competitive)
- Alex Gonzalez, 1/15/2011
- Alice Romero, 4/25/2011
- Suzie Vigil, 6/22/2011

Reclassifications
- Carolyn Gutierrez, 7/1/2010
• Benjamin Smith, 7/1/2010
• Valerie Lacy, 7/1/2010
• Sarah Marinelli, 7/1/2010
• Luke Shipers, 7/1/2010
• Paula Smith-Hawkins, 7/1/2010
• Kathy Pacheco, 9/25/2010
• Virginia Villegas, 9/25/2010

New Hires
• Amanda Dussault, 10/14/2010
• Leslie Myers, 6/3/2011

Separation of Faculty/Staff
• Cynthia Mortensen, 7/31/2010
• Carolyn Cantley, 7/31/2010
• Ben Smith, 7/20/2010
• Sarah Marinelli, 12/7/2010
• Annette Torres, 3/25/2011
• Latkellae Bickham, 6/2/2011

Publications of the division; publications of individual faculty/staff
• Contributor to Enrollment Management’s Quarterly Newsletter

Outside professional activities of staff members:
• Due to budget cuts, professional activities were limited.
• Alec Reber and Carolyn Gutierrez attended Rocky Mountain Association of Collegiate Registrars and Admissions Officers conference.
• Alec Reber, Paula Smith-Hawkins, Suzie Vigil, Annette Torres and Merle Kennedy attended the Advisor’s Institute.
• Alex Gonzalez attended NASPA annual conference.

Outside sponsored research
None
AFRICAN AMERICAN STUDENT SERVICES
The Office of Equity & Inclusion

Submitted by

Wm. Scott Carreathers, Director

MISSION

African American Student Services’ (AASS) mission is to serve all African American Students in successfully matriculating through the university system by providing support and encouraging their academic, personal career, cultural and educational development.

The office is committed to enhancing the cultural experience and social awareness of all students, faculty, staff and administrators as the University of New Mexico, as well as alumni and members of the surrounding communities. As an integral entity serving in concert with the institution’s mission, African American Student Services is strongly committed to the philosophy of equity and inclusion and to the creating of mutual opportunities of exchange. African American Student Services is in support of meeting the goals and objectives of the Division of Equity & Inclusion’s mission and the mission of the University of New Mexico.

GOALS OBJECTIVE/ASSESSMENT OF GOALS

1. AASS will continue dialogue through UNM Development Office and UNM Administration to secure large donation which will enable name change.

Assessment:

Recurring funding was received by way of New Mexico State Legislation. AASS, through the Development Office and the UNM Administration, will have enhanced dialogue to secure a large donation which will possibly provide for a name change.

Mr. Ed Lewis is an alumnus of the University of New Mexico and has guided the ongoing prosperity of one of the country’s largest African American multi-media organizations, Essence Communications, Inc. He is a strong advocate of civil rights and community involvement and contributes both personal time and financial support to a number of civic, educational and arts organizations. In addition, the Director and staff of AASS has prepared a gift proposal for the Development Office and UNM Administration to present in person to Mr. Lewis in the Fall semester of 2011.

2. AASS will continue to maintain strong relationship with the African American community.

Assessment:

AASS did collaborate with the State Office of African American Affairs and Africana Studies to continue our Annual Black Cultural Conference and other programs. In addition to our Annual Program Planning
Retreat, AASS has worked with the NAACP, has established a campus chapter and did register more students as well as elect student officers. AASS has worked and will continue to work with The Sickle Cell Council of New Mexico, the Graduate Chapters of Alpha Kappa Alpha Sorority, Inc., Delta Sigma Theta Sorority, Inc., Alpha Phi Alpha Fraternity, Inc. and Omega Psi Phi, Inc. by assisting with scholarship drives and Educational Conferences.

3. AASS will continue to provide student awards and more scholarships dependent upon funding.

Assessment:

AASS has continued to issue student awards/scholarships to students of the center who fulfilled academic and work-related obligations in conjunction with State Legislative funding and private donation. AASS gave two student awards to students who achieved academic success in conjunction with community service. We also awarded over $9000 in scholarships to students who excelled academically, who were heavily involved in community service and student organizations. We continue to designate a larger portion of our existing budget for money for future scholarships for students groups as well as individual students.

4. AASS will implement our Targeted Population Recruitment Plan.

Assessment:

AASS has and will continue to implement our targeted population recruitment plan.

5. AASS will create assessment tools, which better track our student population and usage of our center.

Assessment:

AASS is a participant in the University wide usage of assessment tools designed to track students' usage of specific areas. AASS is utilizing Advisor Trac and will soon have access to Lab Trac. All these programs help assess and serve the needs of our student population and the usage of our facility and services.

6. AASS will begin dialogue with other Ethnic Centers, OEI and the Planning and Development Office to further explore options of shared resources and shared space.

Assessment:

With continued dialogue of various units, AASS has assisted in securing funding for shared space and resource improvement that will benefit and enhance the experience of all our students.
AASS Academic Advisement: AASS provides academic advisement to students who attend the university. Students are provided with the intrusive, prescriptive, and developmental advisement.

AASS Counseling Services: AASS provides confidential counseling to students who attend the university. Counseling services are provided by Don Trahan, Jr., a licensed mental health counselor in the state of New Mexico.

AASS Database: This program which began in 2002 tracks UNM students of African American descent, demographics and involvement with AASS.

AASS Explosion: This program serves as an informational for all of the student group organizations and BGLO that operate out of this center.

AASS New Student Orientation: This is a component of the general Lobo Orientation, specifically directed toward African American students to help them integrate into campus life at UNM.

AASS Toastmasters: AASS houses a chapter of toastmasters under the direction of Mark Worthy, which fosters ongoing presentation and leadership skills development.

Admissions and Recruitment Services

AASS has a commitment to increase the number of Black students enrolled at UNM. Through our relationship with Recruitment Services, we have quarterly dialogue with the staff in regards to a plan on the recruitment of Black students. They also provide UNM materials to use while we are conducting targeting recruiting of Black students. AASS also has African American Student Day, a program where we partner with Recruitment Services to recruit Black New Mexico high school students. We also serve as a representative on the Special Admissions Committee.

Awards and Recognition Ceremony: This program promotes and recognizes the academic achievements of African American students at UNM. In addition, this program honors outstanding high school students across the state of New Mexico. This is an annual event.

Black Cultural Conference: The purpose of this conference is to affirm that Black culture has a significant presence on campus, in Albuquerque, the State of New Mexico, and the Southwest.

Black Graduate and Professional Student Association (BGPSA): AASS holds monthly workshops covering a variety of different topics under the direction of our graduate student association.

CAPS

AASS houses a satellite component for The Center for Academic and Program Success (CAPS) where it provides tutorial services to our students. Our current collaboration with CAPS replaces our own Tutorial Program, which was eliminated due to budget cuts.

D.I.V.A.S.- (Developing Intellectual Vigilant Ambitious Students)- In conjunction with Tonya Bryant and Cree Gattison, this program serves as a mentorship for African American women on UNM's main campus, addressing a variety of issues that women of color encounter.

Ethnic & LGBTQ Resource CentersAASS has an ongoing relationship with American Indian Students Services, El Centro de la Raza, and the Lesbian, Gay, Bisexual, Transgender, and Questioning Resource Center.
collaborate through regular meetings, serving on program committees, supporting each other's programs and events, and partnering on major events. In addition, our student organizations also collaborate and support the other ethnic student groups.

**Freshman Interest Group:** This UNM freshman academic choice is a one-credit course for freshman taught by AASS staff.

**Mt. Olive Summer Program:** The purpose of this program is to acclimate and expose elementary and middle school children to post-secondary educational opportunities.

**Partnership with Africana Studies**

Our relationship with Africana Studies consists of joint workshops, sitting on planning committees for major programs, and encouraging Black students to major in their degree program.

**University Advisement Center**

AASS provides assistance to the University Advisement Center (UAC) through academic advisement. Our academic advisor attends advisement trainings and assists UAC during peak times of the academic year.

**Winter Roots Festival:** This serves as a celebration of Black culture, honoring the diasporas. This program includes dinner, a historical review of Black culture, tributes, musical entertainment, and dancing. This is an annual event sponsored by AASS, open to all students, staff, faculty, and community members.

**ZEAL Mentor Program:** This program works in conjunction with the UNM Athletic Department and the Albuquerque community. ZEAL's goal is to provide African American student athletes with the opportunity to be successful during their athletic and educational careers at UNM. The students are provided with workshops and mentors to prepare them for community outreach.

**STAFF/PROFESSIONAL ACTIVITIES AND COMMUNITY INVOLVEMENT**

University College Probation & Suspension Committee  
UNM Black Graduate and Professional Student Organization  
Special Admissions Committee  
LOBOrientation – Incoming student advisement with University College  
College Enrichment Program-Freshman Orientation  
Greek Mixer  
Alpha Kappa Alpha Sorority, Inc. Salute to Youth  
Staff Development & Retreat  
College Prep Program  
Alpha Phi Alpha Fraternity, Inc.  
Black Expo  
Black Political Action Committee  
Sickle Cell Annual Gala  
UNM Job Fair  
NSFNS – Houston, Texas  
NSFNS – Denver, Colorado

**CULTURAL AWARENESS PROGRAMS**
Black Cultural Conference  
Annual Welcome-Back BBQ  
Monthly Life Skills Workshops  
Winter Roots Festival  
Black History Month Activities and Programs  
The Perspective – AASS Newsletter  
Martin Luther King, Jr. Ceremony  
Black Political Action Committee  
African American Student Day - February

LIASONS

Albuquerque Public Schools BSU Summits  
Office of African American Affairs  
NAACP – Newly created UNM Chapter, Albuquerque, Rio Rancho and State wide  
LOBO Network  
Recruitment Services – Recruitment meetings  
Martin Luther King Jr. State Commission  
Special Admissions Committee  
Office of Undergraduate/University College  
National Society of Black EngineersBlack Student Union  
Powerful Movement of Educated Sisters  
Rhythm Cartel  
Black Greek Letter Organizations:  
Alpha Phi Alpha Fraternity, Inc.  
Alpha Kappa Alpha Sorority, Inc.  
Delta Sigma Theta Sorority, Inc.  
Kappa Alpha Psi Fraternity, Inc.  
Omega Psi Phi Fraternity, Inc.  
Phi Beta Sigma Fraternity, Inc.  
Zeta Phi Beta Sorority, Inc.  
Sigma Gamma Rho Sorority, Inc.  
Iota Phi Theta Fraternity, Inc.

DIRECTOR'S COMMITTEES

Presidential Search Committee  
Black Chamber of Commerce Board  
Kirtland Community Associate Board  
Police Oversight Commission  
Sickle Cell Commission Board  
Special Admission Committee  
Minority Student Athlete Interest Committee  
Athletic Academic Support Center

LIST OF GRANT AWARDS

Recurring Legislative Funding with the help of Representative Sheryl Williams-Stapleton.
PROPOSED DEPARTMENTAL GOALS 11-12

1. AASS will continue to implement a recruitment plan.
2. AASS will continue dialogue through UNM Development Office, UNM Administration to secure a large donation, which will enable a name change.
3. AASS will enhance our ZEAL Program to better serve our student athletes.
4. AASS will continue to maintain a strong relationship with the African American community.
5. AASS will work with targeted elementary/middle school children to expose them earlier to post-secondary education.
6. AASS will continue to utilize and improve our assessment tools to better track our student population.
7. AASS will be stronger participants of national conferences to enhance our recruitment, retention and graduation of African American students.

STATISTICAL REPORT

MONTHLY TOTALS for July 1, 2010 through June 30, 2011

July

| Total Visitors | 296 |
| Female         | 172 |
| Male           | 124 |

August

| Total Visitors | 583 |
| Female         | 315 |
| Male           | 268 |

September

| Total Visitors | 588 |
| Female         | 321 |
| Male           | 267 |

October

<p>| Total Visitors | 519 |
| Female         | 272 |
| Male           | 247 |</p>
<table>
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<tr>
<td>December</td>
<td>407</td>
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<tr>
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<tr>
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**June**

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<td>162</td>
<td>146</td>
</tr>
<tr>
<td><strong>Female</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>Male</strong></td>
<td></td>
<td></td>
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Most students visit AASS daily but many students visit several times a day and for various reasons each day. Reasons for center visits are included below but are not necessarily limited to these particular options:

- Study
- Computer Use
- Tutoring
- Work/Meeting
- Appointment for Advisement
- Relaxation
- Visit/Other
**Division of Student Affairs**

*El Centro de la Raza* Annual Report 2010-2011

Submitted by *Veronica Mendez-Cruz, Director*

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<td>Table of Contents</td>
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<tr>
<td>Mission Statement</td>
<td>2</td>
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<tr>
<td>Executive Summary</td>
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<tr>
<td>2010 – 2011 Goals and Assessments</td>
<td>8</td>
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<tr>
<td>Fiscal Update</td>
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<tr>
<td>Director training &amp; committees</td>
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<tr>
<td>Staff training &amp; committees</td>
<td>11</td>
</tr>
<tr>
<td>Staffing Update (July 1, 2010–June 30, 2011)</td>
<td>17</td>
</tr>
<tr>
<td>organization chart – <em>El Centro de la Raza</em></td>
<td>17</td>
</tr>
</tbody>
</table>
MISSION STATEMENT

The mission of El Centro de la Raza is “Engaging the Raza community, El Centro de la Raza provides tools for self-determination and resiliency, supports the transformation of students through knowledge, skills and responsibility and challenges self and systems to achieve social justice. Established in 1969, for students by student and community activists, El Centro continues the legacy of advocacy, holistic support and partnerships.”

EXECUTIVE SUMMARY

Departmental Services (brief description of services/programs):
Issues of access to the institution, equitable, educational resources and degree completion continue to face the Hispanic student population. Due to the unique “minority-majority” demographics of our state, UNM has become a Hispanic enrolling institution. In the 2009 freshman cohort; Hispanics are 42.8% and White, Non-Hispanics are 38.7%. Hispanic student enrollment has seen an overall increase of 14.7% in one year as opposed to the approximately 5% decrease in the White student population (2009 UNM Official Enrollment Report – Page 12). Still, Hispanic students fare worse than their White, Non-Hispanic counterparts in 3rd semester retention and 6-year graduation rates. Overall, the university has been successful in enrolling large numbers of Hispanic students but continues to suffer shortfalls in the success of these students. El Centro is committed to continuing its contributions to Hispanic student success, building partnerships and sustaining the community with the development of young leaders. Although El Centro has always been fiscally conservative with funding, fully aware that the money belongs to the people of New Mexico, the current fiscal state dramatically impacted El Centro’s ability to serve.

El Centro focuses on three of the four UNM identified cornerstones of purpose (UNM Strategic Framework) and serves to: to educate and encourage students to develop the values, habits of mind, knowledge, and skills that they need to be enlightened citizens, contribute to the state and national economies, and lead satisfying lives; to discover and disseminate new knowledge and creative endeavors that will enhance the overall well-being of society; and actively support social, cultural, and economic development in our communities to enhance the quality of life for all New Mexicans.

AdvisorTrax, along with operating soon, LabTrac and TutorTrac are the newest improvements to El Centro. El Centro was also able to purchase new student computers for the computer lab, welcome an Internship opportunity for an undergraduate student to perform website maintenance such as scholarship information, Title V was gracious to offer five Mentors to support the Amistades Program, and added Steven Covey’s Seven Habits of Highly Effective People for Students in the Intern curriculum. Through SFRB funding and in partnership with the UNM Service Corp, El Centro recruited seven undergraduates and ten graduate students. Additionally, the Graduate Fellowship Project along with the Latino Faculty Brown Bag events were extremely successful. El Centro also has one Student Intern Community Fellow at the Partnership for Community Action. Our goal is to promote student success and support graduation through service learning, career exploration, and civic engagement. Additionally, El
Centro is partnering with CAPS, Career Services, and Library Services. CAPS have an office in El Centro and provide tutoring in a wide array of classes. El Centro was very fortunate in that Library Services and Career Services provides support for students coming through the ethnic centers requiring assistance in research and identifying critical information for student papers and career exploration. In addition, the ethnic centers share an academic advisor hired through the Provost Committee on Advising. This position is critical to assisting the current El Centro academic advising load. This is strong partnership between the University College Advisement Center, Office of Equity and Inclusion, El Centro de la Raza, African American Student Services, and American Indian Student Services.

El Centro de la Raza continues to improve upon its student success, career, and financial aid advising. El Centro hold early and late evening office hours so that we can accommodate students, who would otherwise not have access to computers, study areas, and a break room during a regular 8-5 day. Additionally, El Centro manages several scholarship programs. Our academic programming and support services are critical for the future of our students and our students dictate what programming and services needs to exist. We will continue to make improvements in the years to come to help meet student needs. At the graduate level, El Centro de la Raza designed an impressive Latino Graduate Initiative entering its third year and directed by El Centro Program Manager, Meriah Heredia-Griego.

Departmental Programming (collaboration with SA departments, campus departments, etc.): The departments that have similar services to El Centro would be the College Enrichment and Outreach Programs, Student Support Services, American Indian Student Services, and African American Student Services, Accessibility Services, University College Advisement Center, Career Services, Financial Aid, and Enrollment Management to name a few. These departments are similar to El Centro because we also offer personalized academic advisement, financial aid advisement, career exploration, recruitment services, admission advice, and cultural support. The noted difference is that El Centro prides itself in that we are a “one stop shop” for all and any forms of issues or concerns impeding the success of our students. Our Program Specialists are cross trained in many areas regarding a student’s journey through higher education. El Centro de la Raza uses a holistic approach in looking at the student’s personal, academic, and cultural needs. As a result, students and the university are encouraged to evaluate the services we provide annually, making the evaluation process unique to El Centro. We have set the standards regarding successful mentoring and leadership programs. El Centro de la Raza has developed model programs that continue to receive attention worthy of presenting at national conferences. El Centro partnered with the UNM Service Corps and is able to offer AmeriCorps Educational Awards to Student Interns. El Centro and its staff are sincerely and genuinely committed to all students. We know that the more students feel that UNM cares about them, the more they will care about UNM and become successful, happy, and productive citizens. El Centro de la Raza also partners with over 50 community organizations from around the state, over 30 UNM service and academic departments, and welcomed over 20 k-12 schools within the academic year of 2010-2011.
Student Support (students, training, opportunities, events/programs, new initiatives, etc.)
In regard to the various outreach activities sponsored through El Centro de la Raza and in partnership with recruitment services, El Centro has reached approximately 5,000 student participants, based on program literature that has been distributed to students who have expressed an interest in El Centro.

Recruitment – Recruitment and retention efforts of El Centro include the following: cultural events, campus tours, school visitations, and supporting UNM Recruitment Services initiatives. Through the Internship, Interns work with many community sites and encourage students to attend UNM. We also have hosted numerous schools that have visited UNM. UNM welcomed over 65 SB students to campus this past fall. Ideally, we would like to start a strong recruitment plan that involves traveling throughout the state and presenting at various high schools or middle schools. El Centro’s Interns have expressed a strong desire to speak to students who are currently attending the high school that they themselves attended. At the graduate level, PNMGC and RGSA have been welcoming of all undergraduates to participate in graduate school programming and networking.

Retention – El Centro’s Program Specialists provide students, in a well-rounded approach, support and advice. Full-time staff, Graduate students, and Student Interns are responsible for putting on several educational and cultural events for UNM and its community. These events are meant to educate and help create a sense of community with the end goal being student retention and college success. All celebrations and events are free. Additionally, most UNM Graduate and Undergraduate Latino based student organizations utilize the center for much of their programming, resources, and advisor support.

El Centro de la Raza encourages student leaders who have been academically, financially, career or personally advised through our services to serve on various campus committees and councils to advocate student needs and concerns, such as students who have participated with our Internship program, Graduate Fellowship, and various Latino student organizations. El Centro has documented approximately 9,000 student visits current through our AdvisorTrac database system. El Centro also documented over 500 students utilizing El Centro services and 20 graduate students. These are students who utilize the centers meeting spaces frequently as well as partners in various campus projects.

AdvisorTrax Data
On February 1, 2010, El Centro began using AdvisorTrax to capture data on student traffic and center usage. The data is collected when students sign-in at the front desk kiosk and indicate reason for the visit. The limitations of this data collect system include: students cannot indicate more than one reason per visit, non-UNM students cannot be tracked, and information on individual students is sometimes incomplete or inaccurate. It is highly likely that the following data does not completely reflect all activity in the center. Nonetheless, the data provide a glimpse at El Centro’s student population and services.
Table 1 is the distribution of self-identified reasons for student visits and the unique students within each category.

### Reasons

**Table 1: Center Usage by Reason for July 1, 2010 thru June 30, 2011**

<table>
<thead>
<tr>
<th>Reason</th>
<th>Visits</th>
<th>Unique Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Admin Services:</td>
<td>586</td>
<td>73</td>
</tr>
<tr>
<td>Copy, Fax, Phone, &amp; Use of Center Facilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advocacy</td>
<td>24</td>
<td>17</td>
</tr>
<tr>
<td>Computer Lab</td>
<td>5152</td>
<td>398</td>
</tr>
<tr>
<td>Advisement</td>
<td>732</td>
<td>472</td>
</tr>
<tr>
<td>Mentoring</td>
<td>171</td>
<td>45</td>
</tr>
<tr>
<td>NSO</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Parent Concern</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Professional Meeting</td>
<td>81</td>
<td>48</td>
</tr>
<tr>
<td>Program Meeting</td>
<td>91</td>
<td>47</td>
</tr>
<tr>
<td>Recruitment</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Socializing; Food, Relaxation</td>
<td>1411</td>
<td>189</td>
</tr>
<tr>
<td>Study</td>
<td>3574</td>
<td>70</td>
</tr>
<tr>
<td>Tutoring</td>
<td>483</td>
<td>174</td>
</tr>
<tr>
<td>Total</td>
<td>12369</td>
<td>1019</td>
</tr>
</tbody>
</table>

### Gender

AdvisorTrac captured 1019 unique students. Table 2 shows the distribution of student who visited the center, by gender. The student population was 58% female and 42% male.

**Table 2: Center Usage by Gender for July 1, 2010 thru June 30, 2011**

<table>
<thead>
<tr>
<th>Gender</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>589</td>
<td>58%</td>
</tr>
<tr>
<td>Male</td>
<td>430</td>
<td>42%</td>
</tr>
<tr>
<td>Total</td>
<td>1019</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Ethnicity

AdvisorTrac reports provide student data that is captured by the university Banner System. Unfortunately it cannot capture the demographics of individuals not in Banner. Student ethnicity is self-identified by students upon admissions. The AdvisorTrac data base does not capture race and ethnicity data in accordance with national race and ethnicity data standards. As expected, a large majority of the students who came in to the center identified their ethnicity as Hispanic.
Table 3: Center Usage by Ethnicity for July 1, 2010 thru June 30, 2011

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prefer not to specify/ Unavailable</td>
<td>34</td>
<td>3</td>
</tr>
<tr>
<td>Hispanic</td>
<td>578</td>
<td>57</td>
</tr>
<tr>
<td>African American – Black</td>
<td>24</td>
<td>2</td>
</tr>
<tr>
<td>American Indian</td>
<td>40</td>
<td>4</td>
</tr>
<tr>
<td>Asian / Pacific Islander</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>White Non- Hispanic</td>
<td>326</td>
<td>32</td>
</tr>
<tr>
<td>Total</td>
<td>1018</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Student Classification

Table 4 illustrates the classification of students who used El Centro during the 2010-2011 academic year. The students served are predominantly undergraduate, with the largest concentration being sophomore students.

Table 4: Center Usage by Classification for July 1, 2010 thru June 30, 2011

![Students by Classification Chart]
Academic College

Table 5 indicates that a large proportion of the students using El Centro’s services are from University College. This can be expected since the most of the students are classified as freshman and sophomores and have not declared a major.

Table 5: Center Usage by College for July 1, 2010 thru June 30, 2011

<table>
<thead>
<tr>
<th>College</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anderson Schools of Management</td>
<td>4</td>
<td>2.2</td>
</tr>
<tr>
<td>College of Arts &amp; Sciences</td>
<td>34</td>
<td>18.5</td>
</tr>
<tr>
<td>College of Education</td>
<td>3</td>
<td>1.5</td>
</tr>
<tr>
<td>Main Campus</td>
<td>1</td>
<td>.5</td>
</tr>
<tr>
<td>School of Engineering</td>
<td>1</td>
<td>.5</td>
</tr>
<tr>
<td>Special Status</td>
<td>58</td>
<td>31.7</td>
</tr>
<tr>
<td>University College</td>
<td>80</td>
<td>43.7</td>
</tr>
<tr>
<td>University Studies</td>
<td>2</td>
<td>1.1</td>
</tr>
<tr>
<td>Total</td>
<td>183</td>
<td>100.0</td>
</tr>
</tbody>
</table>
Internal Database
These following data came from the custom internal database from FY09. The advisement data overlaps with the advisement data from AdvisorTrack between the dates of February 1, 2010 and June 30, 2010. Unlike the AdvisorTrack data, the information from this database is student reported. The information was input by students upon entrance to the center at kiosk at the front desk. This information demonstrates what type of advisement student visit EI Centro for, but not necessarily the service(s) they receive. It is not uncommon for a student to come in seeking academic advisement and also receiving financial aid advisement, career advisement and personal support.

<table>
<thead>
<tr>
<th>Table 7: Student Reported Advisement Session by Fiscal Year Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Sessions</td>
</tr>
</tbody>
</table>

2010 - 2011 GOALS AND ASSESSMENTS

Goal 1: EI Centro will positively impact retention and graduation of undergraduate and graduate/professional students through academic, cultural/personal and professional activities designed to build a sense of community and a supportive environment.
*Assessment: Please see attachment- Goal attainment and Performance Measure

Goal 2: EI Centro will recruit Latino students and provide information to Latino students and their families about UNM and EI Centro programs/activities.
*Assessment: Please see attachment- Goal attainment and Performance Measure

Goal 3: EI Centro will use program evaluation and assessment data for continuous improvement and to ensure its relevance in academic, cultural and professional aspirations of Latino students.
*Assessment: Please see attachment- Goal attainment and Performance Measure

FISCAL UPDATE

EI Centro de la Raza has three primary fund sources; UNM Instruction & General, NM State Legislative RPSP and Student Fee Review Board. The Budget History Chart shown below demonstrates the volatile shift of revenue that changed our fund base dramatically since 2007. In the past, we relied heavily on special project funding through the NM Legislature because it was our most prominent revenue stream and we had minimal revenue increase from UNM I&G since 1996. Budget cuts across the state impacted us and our budget was reduced nearly 100K over the past two fiscal years. Hence, five professional staff in that budget was reduced to 2.5 staff and we were forced to vacate one position and move two professional staff to the UNM I&G budget line. We are now at the mercy of UNM I&G and especially the Student Fee Review Board, in which SFRB accounts for 100% of our operational recurring expenditures now, while UNM I&G is secures four critical professional staff salary lines.
Table 8: *Fund History Chart – 1995-2012*

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995-96</td>
<td>$525,000</td>
</tr>
<tr>
<td>1996-97</td>
<td>$200,000</td>
</tr>
<tr>
<td>1997-98</td>
<td>$0</td>
</tr>
<tr>
<td>1998-99</td>
<td>$50,000</td>
</tr>
<tr>
<td>1999-00</td>
<td>$100,000</td>
</tr>
<tr>
<td>2000-01</td>
<td>$100,000</td>
</tr>
<tr>
<td>2001-02</td>
<td>$0</td>
</tr>
<tr>
<td>2002-03</td>
<td>$100,000</td>
</tr>
<tr>
<td>2003-04</td>
<td>$50,000</td>
</tr>
<tr>
<td>2004-05</td>
<td>$0</td>
</tr>
<tr>
<td>2005-06</td>
<td>$0</td>
</tr>
<tr>
<td>2006-07</td>
<td>$0</td>
</tr>
<tr>
<td>2007-08</td>
<td>$0</td>
</tr>
<tr>
<td>2008-09</td>
<td>$0</td>
</tr>
<tr>
<td>2009-10</td>
<td>$0</td>
</tr>
<tr>
<td>2010-11</td>
<td>$0</td>
</tr>
</tbody>
</table>

Summary of recurring and significant program expenditures for 2010-2011:

- Staff and Professional Salaries and Benefits
- Graduate Assistant Special Projects
- Student Salaries, Office Support
- Student Activities and Cultural Programming- Raza Graduation and Raza Junta
- Internship Program and Service Learning Projects
- Scholarships and Sponsorships *see Table 9*
- Staff Professional Development
- Graduate Student Fellowship – Travel and Conferences
- IT Student Support, Computer Equipment, Printing (Copy Machine) and Paper

**Scholarships (Table 9)**
Budget Reduction Implications
EI Centro anticipates a decrease in funding from University I&G and State Legislative (Special Project) budgets each year and was cut approximately 8% from both respective budgets for the current year. We have been informed that rescission cuts beyond 2010-2011 will be permanent budget cuts and not to expect any increase to our base. Therefore, we are concerned about the upcoming years and the eminent possibility of the termination of all Special Project funding.

As a result of budget reductions, our department reduced the following services: 1) Professional Staff Salaries impacted: IT position/vacant, Program specialist turnover and Program Manager volunteer furlough 2) Staff development reduced.

EI Centro is currently seeking supplemental grant funding to support the department. In years past, the significant nature of department finances has forced EI Centro to rely on the generous contributions of other departments and organizations. The current economic strains have impacted all previous supporters and it has become much more difficult for them to lend necessary financial support. Should EI Centro not receive state funding, this would impact staffing needs required to provide services designed to address retention and graduation challenges. EI Centro would be forced to terminate employment for critical needs staff such as advisors and front line support, whom themselves are UNM students.

DIRECTOR TRAINING & COMMITTEES

Veronica Mendez-Cruz, Director
University Committees
LGBTQ Taskforce
Pre-major Advisor search
UAC Management group
HHC Committee
Chicano/Hispano/Mexicano Studies Advisory Board Member
Departmental Collaboration
Athletic Accreditation Committee
CAPS Satellite office
CHMS Director Search Committee
Mesa Vista Block Party Committee
Federal Race & Ethnicity Code Compliance Project

Professional Involvement
Assisted Nursing Professor completes his Master’s Thesis by providing students for focus groups.
Graduate Student Orientation
Amistades Orientation
Division of Student Affairs
El Centro de la Raza Annual Report 2010-2011
Submitted by Veronica Mendez-Cruz, Director

El Centro de la Raza Intern Training
Dream Act Discussion
IDEAS (Immigrant Dreams for Education Access + Success) Presenter
Communication & Journalism Department Presenter

Community Involvement
LULAC (League of United Latin American Citizens)
HRT (Hispanic Round Table)
Hispanic Women’s Council
MANA (Mexican American National Association-A National Latina Organization)
Hispanic Philanthropic Society
National Hispano Cultural Center
Partnership for Community Action

Development
Latino Summit
Anti-Racism Training
Community and Collaboration Partnership
Webinar session on Support for Undocumented Students
Seven Habits of Highly Effective People
NMSAS Conference
NASPA National Conference – Philadelphia
New Mexico Immigrants Dream Conference

STAFF TRAINING & COMMITTEES

Meriah Heredia-Griego – Senior Program Manager
University Committees
Advisor Management Group
Chicano Hispano Mexicano Studies Advisory Committee

Professional & Community Involvement
2nd Annual Latino Higher Education Summit July 2010
RPSP Data-tracking
Latino Student Needs Assessment
Partnership for Community Action

Development/Doctoral Coursework - Colorado State University - College & University Leadership
EDRM 606 Measurement Concepts
EDOD 672 Change Facilitation
EDRM 700 Quantitative Research Methods
Division of Student Affairs
EI Centro de la Raza Annual Report 2010-2011
Submitted by Veronica Mendez-Cruz, Director

EDRM 708  Narrative Inquiry
EDRM 792B  Seminar- Proposal Development
EDCL 750  Simulated Presidential Cabinet

Special Projects - Latina/o Student Needs Assessment Survey

Christopher Smith-Lopez – Student Programs Specialist

University Committees
Advisor's Network - ongoing
American Indian Junior Day - ongoing
University College Suspension Committee - ongoing
Raza Excellence Committee Chair – ongoing
UNM Marketing Committee-Spring 2008-Present
UNM Regent Scholarship Review Committee-Spring 2011
UNM NSO/TNT Advisement Committee-Spring2011
Raza Junta Planning Committee-Marketing Fall 2011
Lambda Theta Phi, NM Youth Leadership Project- Spring 2011
OEI Men of Color Initiative Planning Meeting- Summer 2011

Professional and Community Involvement
EI Centro de la Raza Internship Program Manager-Summer 2009-Present
Research Service Learning Orientation
Project New Mexico for Graduates of Color – Mentor/Mentee Training
Latino Summit Planning Committee-July 2010
Raza Student Association – Staff Advisor - ongoing
Citizen Schools Education Panel-Wilson Middle School-Fall 2010
Highland High School Counselors Discussion Group-Fall 2010
Transfer Valencia Campus Seminar and Presentation-Fall 2010-Fall 2011
Dia de la Raza and Shadow Day-South Valley Academy-Fall 2010
Fall Frenzy-Fall 2010 and Fall 2011
Joy Junction Volunteering Thanksgiving Dinner-Convention Center, November 2010
EI Rincon Farm, Service Learning Project-Spring 2011-Fall 2011
Hispanic Heritage Month Committee Member – Summer 2007- present
Partnership for Community Action Collaborator –Summer 2007-ongoing

Marketing
EI Centro de la Raza - ongoing
Raza Junta – Fall 2011
Raza Excellence – Spring 2010
RGSA –Fall 2010/Fall 2011
Raza Graduation- Spring 2011
UNM Service Corp-November 2010

Cultural Programs
Raza Junta
Haunted Basement-proceeds going to Ida Romero Scholarship
Dia de los Muertos
El Grito – Mexican Independence Day
International Student Day

Development
Leadership Institute-One-on-One Case Study-Summer 2010
Advisors Institute - Advisors Summit, 2007-Present
Advisor Track Training-Summer 2010
Technology Days Conference-July 2010
Safe Zone Training-September 2010
Seven Habits of Highly Effective College Students-Licensing 2010-Present
Adobe Illustrator Training EOD-Fall 2010

Conferences
NM Student Affairs Symposium – Spring 2011
NASPA Student Leadership Institute – Spring 2011
Human Rights Conference – Fall 2011
Mentors Conference – Fall 2011
Domestic Violence Conference-September 2010
La Cosecha Leadership Conference- Santa Fe, NM, November 2010

Armando Bustamante – Student Programs Specialist

University Committees
Advisor’s Network Planning Committee- ongoing
University College Academic Standing Committee - ongoing
Ida Romero Scholarship Committee – Spring 2011
Graduation Express Committee – Ongoing
UNM NSO/TNT Advisement Committee-Spring2011
Raza Junta Planning Committee- Organizing the day Chair Fall 2011
Research Quest Judge- Fall 2010
OEL Men of Color Initiative Planning Meeting- Summer 2011
Mexican Student Association Advisor – Ongoing
UNM Immigration Coalition – Fall 2010 & Spring 2011
Back 2 School Summit Committee – Fall 2010
Professional and Community Involvement

Project New Mexico for Graduates of Color – Mentor/Mentee Training
Latino Summit Planning Committee – July 2010
El Centro de la Raza - ongoing
Raza Excellence – Spring 2010
RGSA – Fall 2010/Fall 2011
Raza Graduation – Spring 2011
Haunted Basement – proceeds going to Ida Romero Scholarship
Dia de los Muertos
El Grito – Mexican Independence Day
International Student Day
Coalition for Immigration, Race & Social Justice – Fall 2010 & Spring 2011
Red Pro-Emigrante – Fall 2010 & Spring 2011
Presentation to Human Rights Commission – Fall 2010
El Foro Educativo Committee – Fall 2010
Transfer Valencia Campus Seminar and Presentation – Spring 2011
South Valley Academy Intern Host – Spring 2011
Fall Frenzy – Fall 2010
El Rincon Farm, Service Learning Project – Spring 2011-Fall 2011
Partnership for Community Action Collaborator – Summer 2011-ongoing
El Centro de Igualdad y Derechos Collaborator – Ongoing
Somos Un Pueblo Unido Collaborator – Ongoing
Dia Internacional del Trabajador Planning Committee – Spring 2011

Development

Seven Habits of Highly Effective People – Fall 2010
Advisors Institute - Advisors Summit, 2009-Present
Advisor Track Training – Summer 2010
Immigration Rights Training – Fall 2010
Safe Zone Training – Fall 2010

Conferences:

Politics or Race Immigration and Ethnic Consortium Conference – Fall 2010
Human Rights Conference – Fall 2011
Mentoring Institute Conference – Fall 2011
Advisor’s Institute Presentation – Spring 2011
NM Student Affairs Symposium – Fall 2010
NASPA Student Leadership Institute – Spring 2011
Theresa Williams – Program Coordinator

Committees, Professional and Community Involvement

- Project New Mexico for Graduates of Color
- UNM Day at the State Legislature
- Raza Excellence Student Recognition
- RGSA Student Organization
- Raza Graduation Planning Committee
- Raza Junta Planning Committee
- Haunted Basement-Ida Romero Scholarship
- Ralph J. Bunche Academy Volunteer
- La Plazita Institute Board Member
- Footprints Ministry, Inc. Volunteer
- APD Advisory Group
- Underage Drinking Prevention Coalition
- Partnership for Community Action Coalition
- Kirtland Community Neighborhood Coalition
- New Mexico Youth Day
- African American Student Day
- Family Day at UNM
- Martin Luther King Jr. State Commission, Committee and Presentation

Development

- Student Anti-Racism Training
- Internship Training and Orientation
- Health Impact Assessment Training
- Research and Citations Workshop
- One-Note Grad Workshop
- Hate & Bias Training
- Departmental Award Form Test Committee
- New Visions Research Colloquium, Key Presenter
- Lumina Foundation Proposal
- Principal Investigator Eligibility Certificate Program
- Grant Writing Proposal Preparation Certificate Program
- Tearing Down Walls
- Preventing Sexual Harassment
- Ethics: A Framework for Ethical Decision Making

Conferences

- NM Student Affairs Symposium
- Latino Summit
Santa Fe Legislative Forum
Civil Right Symposium

**Master's Course work**
Independent Study – Qualitative Research
Educational Statistics
Epidemiological Principles of Health Education
Research Design in HPER
Group Counseling
Advances Field Experiences

**Katrina Herrera - Administrative Assistant**

**Development**
Service Learning project, Chimayo, New Mexico
Ethics: A Framework for Ethical Decision Making-2011
What To Do When Conflict Happens
Conflict of Interest
Preventing Sexual Harassment-2011
Basic Annual Safety Training-2011
Performance Review for Staff (Online Course)
Civil Rights at Work at UNM
Tearing Down Walls (Web Course)

**Supervision and mentorship** - 2 South Valley Academy and LA Works Interns, 4 Student Office Staff

**Committees, Conferences and Community Involvement**
National Hispanic Youth Symposium, Chair
2010 Raza Graduation, Coordinator
New Student Orientation
Campus Tours – Elementary, Middle and High school
MEXSA Student Organization
School to World

**Coursework**
Brain and behavior
Abnormal behavior
Evolution and human emergence
Evidence based addiction
Social problems
Environmental sociology
STAFFING UPDATE (JULY 1, 2010– JUNE 30, 2011)

Not applicable. No new staff hires or terminations from July 1, 2010 to June 30, 2011.

ORGANIZATION CHART — EL CENTRO DE LA RAZA
UNIVERSITY OF NEW MEXICO
Annual Report for Academic Year 2010-2011
July 1, 2010 – June 30, 2011

Submitted by:
Douglas M. Brown
Dean
The Anderson School of Management
The Anderson School of Management

The Anderson School of Management has continued to see large increases in enrollments for the graduate programs with an average 21% increase for the 2010-2011 academic year. Highlights of the past year are detailed below.

Anderson Successes

- Anderson School’s Business and Accounting Programs were re-accredited by the AACSB (Association to Advance Collegiate Schools of Business) in October of 2010. This was part of their regular review cycle which occurs every five years.
- Anderson’s BBA graduation rate increased from 86% to 91%.
- Anderson retained its #6 ranking in the Hispanic Business magazine in September 2010 for its representation of Hispanic students.
- Employment – U.S. News reports Anderson is 7th in the nation in securing jobs within 90 days of graduation.
- The Career Management Skills course, 398, is now a required course for all Anderson undergraduates.
- An ad hoc Curriculum Review Committee of Anderson faculty and staff met throughout the year. The important work of this committee will move forward to the formal faculty Curriculum & Programs committee for action in 2011-2012 to ensure Anderson’s curriculum is current and relevant for our students.
- An ad hoc Academic Honesty Task Force met throughout the year and developed a school-wide honesty policy. They also developed an implementation plan that has been adopted by the faculty and the advising unit. Based on the input of this committee, the school will pilot the use of Turnitin in Fall 2011; this software assists students in learning how to correctly cite original material and strengthens writing skills and mechanics.
- Internships available to Anderson students have increased, 2009 = 49, 2010 = 77.
- Research productivity has doubled over the last four years. Marketing Professor O.C. Ferrell was honored with the Lifetime Achievement Award by the Macromarketing Society for his work in business ethics education. Dr. O.C. Ferrell also received the Harold Berkman Service Award from the Academy of Marketing Science. Accounting Professor Joni Young received the Notable Contributions to Accounting Literature Award from the American Accounting Association.
- The Anderson Alumni Council is active and the Anderson Alumni Office is establishing connections with alumni through a series of events including a 10th and 25th year reunion.
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

- A new initiative for 2010-2011 was the establishment of the Sandia Labs Lecture Series, a collaborative effort between Anderson's Alumni Relations and Development Offices and Sandia National Laboratories.

- Anderson students continue to participate in local, national, and international competitions. This year's winning awards included the Evolve 2010 NM Entrepreneur Summit Elevator Pitch Contest, the Deloitte National Best Practices Competition, ALPFA Student Regional Chapter of the Year recognition, an Area Toastmaster's competition, a national marketing case study competition sponsored by the American Petroleum Institute, and a national marketing competition for the National Highway Traffic Safety Administration.

- Through the Daniels Fund grant, Anderson hosted in conjunction with New Mexico State University the 1st Semi-annual Bill Daniels Teaching Business Ethics Workshop. This workshop focused on how higher learning institutions can effectively deliver business ethics education. The event was attended by 70 educators from more than 50 colleges and universities across New Mexico.

The highly successful UNM Technology Business Plan competition continued for the sixth year. This competition supports the creation of high technology businesses and encourages UNM students from a variety of colleges to collaborate on teams that commercialize technology products developed at UNM, Sandia National Labs, Los Alamos National Lab and other organizations. Teams compete for $40,000 in start-up funding, and Anderson faculty directly mentor many of the teams participating in the competition. Anderson launched a second competition, the UNM Entrepreneurial Challenge, to support new businesses which cannot be funded through conventional investment.

Anderson's commitment to economic development in New Mexico continued through a variety of outreach efforts including the Fifth Annual Native American Career Fair sponsored by Anderson and the American Indian Business Association (AIBA). This event builds bridges with the Native American business community and allows Native and Non-Native organizations recruitment opportunities with Anderson students.

In 2010-2011, Anderson continued to sponsor direct engagement opportunities with and for UNM faculty, students, staff, local business leaders, the business community and leading experts in various business fields. Anderson hosted the first "Access means Business Conference" to focus on the important contribution that individuals with disabilities make to the workforce and marketplace. The Distinguished CEO Lecture Series continued with a presentation by J. Michael Shepherd, Chairman and CEO of Bank of the West and BancWest Corporation, who presented on the current financial crisis. For the third year, Anderson hosted the Business-to-Business Breakfast Series to bring lectures about current issues relevant to the business community. This year the series received sponsorship for two years through the generous support of Sibilla and
George Boerigter. Throughout the year, Anderson faculty and student organizations sponsored numerous speakers and panel discussions on a variety of topics related to research, business, and their areas of expertise.

Anderson Fundraising ended the year at over $7 million, almost four times its annual goal. This effort was highlighted by a $5 million gift from Ian and Sonnet McKinnon, designated for a new building for Anderson.
Statement of Mission and Goals

Mission

Anderson School of Management develops management leaders with high ethical standards who contribute to the economic and social vitality of their communities.

Goals

• Complete curriculum review and implement first phase, including re-definition of Anderson strategy.

• Gain full commitment to proceed with a new building for Anderson – determine site, begin planning, identify timetable, outline funding sources.

• Continue growth in graduate enrollment and improvement in diversity at that level.

• Exceed annual fundraising goal of $2.57M.

• Support the expansion of Anderson’s multi-disciplinary programs, such as Nano-Science and Diversity Management.

• Coordinate with University Advisement to produce improved pre-major advising.

• Improve EMBA enrollment at Management Development Center to 60 for 2012-2013 class.

• Implement Honesty Task Force recommendations.

• Develop Departmental AOL standards and processes.

• Take leadership role in providing opportunities for workers with disabilities.

The Anderson School comprises four departments: Accounting; Department of Organizational Studies (DOS); Finance, International, Management of Technology, and Entrepreneurship (FITE); and Marketing, Information and Decision Sciences (MIDS). The individual departments' annual reports follow.
DEPARTMENT OF ACCOUNTING
(JULY 1, 2010-JUNE 30, 2011)

Chair: Craig White

Full-time faculty: Philip D. Bougen, Associate Professor
Rich Brody, Professor
Ann K. Brooks, Lecturer
Michele Chwastiak, Associate Professor
Norman Colter, Lecturer
Robert Gary, Assistant Professor
James Hansen, Assistant Professor
Reed McKnight, Assistant Professor
Leslie S. Oakes, Associate Professor
Robert J. Tepper, Lecturer
Dennis F. Togo, Professor
Joni Young, Professor

Part-time faculty: Dawn Addington, Jason DeShayes
Martin Epstein, James Maes
Janice Moen, Alvan Romero
Timothy Sanchez-Brown, Jeanine Steffy
Dennis Sterosky, Charles Williamson

SIGNIFICANT DEVELOPMENTS FOR ACADEMIC YEAR, 2009-2010
DEPARTMENT OF ACCOUNTING

AACSB Accreditation

The year 2010-2011 was a very successful year for the department. One of the major accomplishments of the year was maintaining AACSB accreditation. Accreditation is an ongoing process requiring learning outcomes assessment, documentation of faculty scholarly productivity, and monitoring of the academic and professional qualification of faculty instructing students. The process culminates in a site visit by an AACSB accreditation team for review of outcomes. The department maintained its accreditation without any significant findings.
The year included important recognition for Accounting Department faculty:

Professor Joni Young was awarded the American Accounting Association’s “Notable Contribution to Accounting Literature Award”. This award is the top research recognition from the academic accounting profession.

Professor Young was also awarded an honorary “Visiting Professor” position at the London School of Economics.

Professor Leslie Oakes was named the recipient of the Anderson School of Management’s “2011 Faculty Community Leadership” Award.

Professor Craig White was named the “2010 New Mexico Accounting Educator of the Year” by the New Mexico Society of CPAs.

The year also included recognition for Accounting Department student groups:

The Anderson School’s chapter of Beta Alpha Psi, the accounting honorary society, won the Deloitte National Best Practices Competition.

The Anderson School’s chapter of ALPFA, the organization for Latino professionals in finance and accounting, was named the “Student Regional Chapter of the Year” at the national convention in Anaheim, CA.

Research Recognition for the Accounting Department:

A recent Brigham Young University study examined the research productivity of accounting departments and faculty from universities around the world by measuring the number of publications that appeared in 11 elite academic accounting journals over a span of 20 years.

Over this period of time, Anderson ranked first in the world for publications that focus on financial accounting using qualitative methods, fourth in the world across all topics using qualitative methods, and 88/670 for total publications in these journals.

Accounting Student Credit Hours

Demand for Anderson School accounting graduates is strong. Accounting students have benefited from new and expanding employment including with the U.S. Forest Service, Fidelity Investments, Sandia National Laboratories, the State of New Mexico, and public accounting firms (KPMG, Moss Adams, Clifton Gunderson, and REDW among others). Per the New Mexico State Board of Public Accountancy, the Anderson School graduates 55% of the New Mexico candidates for the CPA exam (NMSU graduates 34%).

The opportunity available in accounting is driving enrollment growth, especially at the graduate level. The Fall/Spring AY 10-11 graduate accounting enrollment was up 25% relative to the
same period in AY09-10. This level of enrollment growth and even this level of enrollment are unsustainable with the current number of accounting faculty. For the fall 2010 and spring 2011, the average enrollment for each full-time faculty member section was 39.70 and 39.82 students; respectively.

SIGNIFICANT PLANS AND RECOMMENDATIONS
DEPARTMENT OF ACCOUNTING

The department is in the process of searching for two new tenure-track faculty members. The new faculty will allow the department to meet the needs of growing student credit hours, increase research productivity, and adapt curriculum to the evolving needs of the professional environment.

The department expects to see continued growth in its information assurance program. An Information Assurance concentration has been added to the Masters of Accounting program. This concentration enhances the existing cross-functional area in the MBA program. The IA program produces graduates in demand in external audit, internal audit, data analysis, and internal control functions.

The department continues to implement and update its “learning outcomes assessment” process. It identifies outcome competencies and the courses that address those competencies. Measurement rubrics are put in place to assess the achievement of the instructional metrics. This feedback process results in adjustments to content and instruction.

The development of the Accounting Practicum course was a result of this process. This course is an online review of basic accounting principles. Students can complete the course between taking MGMT 202 (Basic Accounting) and MGMT 340 (Intermediate Financial Accounting). The purpose of the course is to improve the completion rate of intermediate accounting.

The department also expects to continue addressing recommendations from the AACSB site visit report. For instance, the department has expanded the Accounting Advisory Council and is in the process of developing a newsletter in response to these recommendations. The department will further follow up with strategic planning discussions as we enter the spring semester.

PROMOTIONS, SABBATICALS, SEPARATIONS, AWARDS
DEPARTMENT OF ACCOUNTING

Leave Without Pay:
Alistair Preston, 2010-2011
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

**PUBLICATIONS**

**DEPARTMENT OF ACCOUNTING**

**Phillip Bougen**

**Refereed Articles**


**Presentations**


**Richard Brody**

**Refereed Articles**


**Presentations**


**Honors/Awards**

**Award**

2010-2011: Douglas Minge Brown Professorship, Anderson School of Management.
Michele Chwastiak
Honors/Awards
Award
2010-2011: Baldridge Lumber Co Lectureship, Anderson School of Management.

Robert Gary
Refereed Articles


Presentations

Honors/Awards
Award
2010-2011: REDW Lectureship, Anderson School of Management.

James Hansen
Refereed Articles


Reed McKnight
Refereed Articles

Presentations

Robert Tepper
Presentations
Tepper, R. (2011). *Teaching Coordinated Classes, 6th Annual Success in the Classroom: Sharing Practices that Work*. Sixth Annual Community Conference for Faculty by Faculty, Albuquerque, New Mexico.
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

Dennis Togo

Proceedings


Presentations


Craig White

Presentations


Honors/Awards

Award

2010-2011: Grant Thornton Professorship, Anderson School of Management.
2010-2011: Accounting Educator of the Year, New Mexico State Society of CPAs

Joni J. Young

Referenced Articles


Presentations


Honors/Awards

Award

2010-2011: KPMG Professorship, Anderson School of Management.
2010-2011: Visiting Professor, London School of Economics.
SERVICE ACTIVITIES
DEPARTMENT OF ACCOUNTING

Philip Bougen
Service: Professional
Reviewer: Ad Hoc Reviewer for a Journal
2010-2011: Accounting, Organizations and Society

Service: University
College assignments:
Faculty Advisor:
2010-2011: Beta Gamma Sigma
2010-2011: Lectureships and Professorships Committee

Richard Brody
Service: Professional
Board Member: Advisory Board
2010-2011: Franklin Publishing Company
2010-2011: Institute of Internal Auditors
2010-2011: Association of Certified Fraud Examiners, Fraud Magazine

Member: Committee/Task Force
2010-2011: American Accounting Association
2010-2011: American Institute of Certified Public Accountants
2010-2011: American Psychological Society
2010-2011: Institute of Internal Auditors
2010-2011: New Mexico Society of CPAs
2010-2011: White Collar Crime Research Consortium (WCCRC)

Reviewer - Article / Manuscript
2010-2011: American Accounting Association, Annual meeting
2010-2011: American Accounting Association, Mid-Year AAA Auditing meeting
2010-2011: American Accounting Association, Mid-Year AAA ABO meeting

Reviewer: Ad Hoc Reviewer for a Journal
2010-2011: Advances in Accounting Behavioral Research
2010-2011: Behavioral Research in Accounting

Service: University
Department Assignments
Faculty Advisor:
2010: Anderson White Collar Crime Internship: Coordinator

Member:
2010-2011: Department of Accounting Search Committee
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

University Assignments
Member:
2010-2011: UNM Library Committee
2010-2011: UNM Academic Freedom and Promotion committee

Other Institutional Service Activities:
2010-2011: UNM Center for Information Assurance Research and Education: Associate Director

Service: Community

Other Community Service Activities
2010-2011: District Attorney Expert Witness (volunteer)
2010-2011: Attorney General Expert Witness (volunteer)
2010-2011: Legislative Education Study Committee, School Finance Work Group, Chair of Internal Controls Subgroup

Ann Brooks
Service: Professional

Board Member: Advisory Board
2010-2011: New Mexico Educators Federal Credit Union, New Mexico Educators Federal Credit Union, Board Member - Review and approve credit union policies and procedures; review and approve annual budget and capital expenditures; develop 2-year strategic goals, objectives and benchmarks for management; review and approve monthly financials and management reports, review and approve monthly minutes of ALM, investment and compensation committees as well as serve on board policy, compensation and supervisory committees., Albuquerque, New Mexico.

2010-2011: Institute of Management Accountants, Responsible for meeting monthly to review financials, technical meeting evaluations and suggestions and planning monthly technical meetings.

Board of Directors: Substantial Involvement
2010-2011: New Mexico Educators Federal Credit Union, Board Member - Review and revise credit union policies in preparation for Board review at monthly meeting. Research CEO compensation packages and make recommendation annually to entire Board. Review and revise CEO's contract. Albuquerque, New Mexico.

Member: Committee/Task Force
2010-2011: New Mexico Educators Federal Credit Union, Supervisory Committee - Review and supervise Internal Audit Director and internal audit outsourcing; review internal control questionnaires and standardized audit plans' prepare requests for proposals of specialized audits; review and approve audit reports; report audit results to Board of Directors; review and respond to member complaints., Albuquerque, New Mexico.

Officer: Organization / Association
2010-2011: Institute of Management Accountants, VP of Finance and Administration - report monthly CPE requirements and review monthly membership reports for errors and add to local listing.
Other Professional Service Activities
2010-2011: Credit Union National Association (CUNA), Attended annual 5 day Board training workshops.

Reviewer: Book / Textbook
2010-2011: Reviewed accounting textbooks

Service: University
Department Assignments
Other Institutional Service Activities:
2010-2011: Accounting Dept Meetings: Regularly attend department meetings for updates, hiring and other specific purposes.

2010-2011: ASM and Accounting Career Fairs: Regularly attend fall career fairs and started spring career fairs

College Assignments
Chair:
2010-2011: NM Business Articulation Accounting Committee: Chair the Accounting Committee which is responsible for reviewing course objectives for equivalent courses of 202, 303 and 340. Attend Articulation meeting semi-annually.

Member:
2010-2011: IT Committee (Task Team): Create a technology vision for the school designed to enhance the use of technology by students, faculty and staff in learning, research and operational endeavors.
2010-2011: Beta Alpha Psi Faculty Advisor
2010-2011: ASM Scholarship Committee
2010-2011: Statewide Business Articulation Group

Other Institutional Service Activities:
2010-2011: DL Faculty Liaison: Assist ASM faculty in developing online courses.
2010-2011: ASM Faculty meetings: Regularly attend ASM faculty meetings.
2010: ASM Graduation: Attended May and/or December graduations on stage or in audience to support graduating students.

University Assignments
Chair:
2010-2011: Faculty Senate Budget Committee: Work with VP of Budget Planning to review current budget and create a database of useful budgetary information for faculty use, perform horizontal analysis of current budget to prior years and follow-up with UNM administration for explanations, attend Regents' F&F and Audit Committee meetings, represent Faculty Senate at numerous administrative budgetary meetings throughout the year.

Member:
2010-2011: NMEL Online Best Practice Task Force: Committee responsible for developing best practices and documentation for online faculty to incorporate into their online courses.
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

2010-2011: NMEL Online Standards Committee: Committee responsible for developing online policies and standards for UNM online courses
2010-2011: Extended University's DL Committee: To develop a mission, vision, strategic plan and goals for UNM's distance education.

2010-2011: Presidential Task Force: Responsible for recommending cost containment and revenue generating initiatives to the President to respond to legislative budget cuts.

Michele Chwastiak
Service: Professional
Board Member: PRJ Editorial Review Board
2010-2011: Accounting Forum
2010-2011: International Journal of Critical Accounting
2010-2011: Accounting and the Public Interest

Board of Directors: Moderate Involvement
2010-2011: New Mexico Teen Pregnancy Coalition

Reviewer - Article / Manuscript
2010-2011: International Journal of Critical Accounting
2010-2011: Accounting and the Public Interest
2010-2011: Critical Perspectives on Accounting
2010-2011: Accounting History

Service: University
Department Assignments
Member:
2010-2011: Curriculum & Programs Committee

Norman Colter
Service: Professional
Board of Directors: Moderate Involvement
2010-2011: Cleveland High School Boys Basketball Booster Club
2010-2011: 2001- Present, Association of Latino Professionals in Finance & Accounting, Professional Chapter, Director of Student Affairs

Other Professional Service Activities
2010-2011: Association of Latino Professionals in Finance and Accounting, CPE Credits (8 hours), Orlando, Florida
2010-2011: American Accounting Association Southwest Region Annual Meeting, Dallas, Texas
Service: University

College Assignments
Faculty Advisor:
2010-2011: Association of Latino Professionals in Finance & Accounting

Mentoring Activities:
2010-2011: KPMG Case Study Competition: Competition at the Association of Latino Professionals in Finance & Accounting annual meetings

Student Placements:
2010-2011: Attend Anderson School Career Fair and Accounting Career Fair

Service: Community

Other Community Service Activities
2010-2011: IMA Student Night Dinner/Presentation, Attended
2010-2011: Association of Latino Professionals in Finance and Accounting Holiday Event, Hosted Charity Event, Toys for Tots

Robert Gary

Service: Professional

Other Professional Service Activities
2010-2011: New Mexico Tax Research Institute, Attended 5th Annual Legislative Outlook Conference, Albuquerque, New Mexico
2010-2011: American Accounting Association Attended Annual Meeting, San Francisco, California
2010-2011: New Mexico Tax Research Institute, Attended 8th Annual New Mexico Tax Policy Conference, Santa Fe, New Mexico

Service: University

College Assignments
Member:
2010-2011: UNM, Academic Honesty Committee

Reed McKnight

Service: University

College Assignments
Member:
2010-2011: Policy and Planning Committee
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

**Leslie S. Oakes**

Service: University

**College Assignments**

Member:
2010-2011: Curriculum Review Committee

**Department Assignments**

Member:
2010-2011: Accounting Advisory Council

Service: Community

**Chair of a Committee**

2010-2011: Healthcare for the Homeless

**Robert Tepper**

Service: Professional

**Other Professional Service Activities**

2010-2011: Faculty Training for Becker CPA Review Course.

**Presentation**

2010-2011: U.S. District Court-DNM--Panelist and Coordinator, Legal research and writing panel.

Service: University

**College Assignments**

Member:
2010-2011 ASM Library Committee

**University Assignments**

Member:
2010-2011 Online Education Advisory Council

Service: Community

**Speech / Presentation at a Community Meeting**

2010-2011: Anderson Accounting Graduate Students, CPA Exam and Careers in Accounting
2010-2011: Anderson Accounting Students, CPA Exam and Careers in Accounting and Exam Review Courses

**Dennis F. Togo**

Service: Professional

**Officer: Organization / Association**

2010-2011: American Accounting Association Southwest Region, President
Craig G. White
Service: University
College Assignments
Faculty Advisor:
2010-2011: Beta Alpha Psi

Other Institutional Service Activities:
2010-2011: Chair, Department of Accounting

Joni J. Young
Service: Professional
Board Member: Advisory Board
2010-2011: Beta Alpha Psi Advisory Board
2010-2011: SSRN History of Accounting eJournal

Board Member: PRJ Editorial Review Board
2010-2011: Accounting, Organizations and Society
2010-2011: Accounting Auditing and Accountability
2010-2011: Accounting and the Public Interest
2010-2011: Accounting History
2010-2011: Accounting Historian's Journal
2010-2011: Accounting History Review
2010-2011: Critical Perspectives on Accounting
2010-2011: Contemporary Accounting Research

Member: Committee/Task Force
2010-2011: Critical Perspectives on Accounting Conference

Other Professional Service Activities
2010-2011: American Accounting Association, Public Interest Section

Reviewer: Ad Hoc Reviewer for a Journal
2010-2011: Critical Perspectives on Accounting

Service: University
Department Assignments
Faculty Advisor:
2010-2011: MBA Accounting Concentration
2010-2011: MACC Advanced & Professional Concentrations

Member:
2010-2011: Accounting Advisory Council
College Assignments
Member:
2010-2011: Anderson Learning Assurance Evaluation Committee

SPONSORED RESEARCH
DEPARTMENT OF ACCOUNTING

New Mexico Small Business Assistance Program – 2010-2011 Amount – approximately, $150,000

Principal Investigators – Sul Kassicieh, Steve Walsh, Craig White
Purpose of the grant is mentoring and supervising students working with small businesses to assess market opportunities.

The grant is ongoing – renewed from year-to-year at the option of the sponsor.
DEPARTMENT OF ORGANIZATIONAL STUDIES

(JULY 1, 2010-JUNE 30, 2011)

Chair: Jacqueline N. Hood Professor

Full-time faculty:
- Michelle Arthur Associate Professor
- Shawn Berman Associate Professor
- David Cavazos Assistant Professor
- Ann Cunliffe Professor
- Robert DelCampo Assistant Professor
- Maria Gondo Assistant Professor
- Kathryn Jacobson Assistant Professor
- Jeanne Logsdon Professor
- Amelia Nelson Lecturer
- Karen Patterson Assistant Professor
- Sarah Smith Lecturer
- Scott Taylor Assistant Professor
- Harry Van Buren Assistant Professor

Part-time faculty:
- Chamiza Atencio-Pacheco Christy Brundage
- Nancy Brune Autumn Collins
- Jens Deichmann Kim Gilmore, Sr.
- Sitara Harvey-Cook Randy Hill
- Holly Hitzemann Ryan Jacobson
- Dennis Lester Kelly Marino
- Christopher Nguyen Willow Parks
- Tiffany Pegues Rebecca Rigney
- Karen Ross Paul Sandoval
- Corrina Smith James Toya
- Angela VanArsdale Dennis Wallace

SIGNIFICANT DEVELOPMENTS FOR ACADEMIC YEAR, 2010-2011

DEPARTMENT OF ORGANIZATIONAL STUDIES

Dr. Ann Cunliffe served as Past Division Chair for the Critical Management Studies Division (CMS) of the Academy of Management and was a member of the CMS Executive Board. She is the Editor-in-Chief of Management Learning and the Associate Editor of the International Journal of Qualitative Research in Organizations and Management. She continued as an Editorial Board member of: Organization Studies, Human Relations, Academy of Management Learning and Education, the Journal of Organizational Change Management, the Scandinavian
Journal of Management, the Canadian Journal of Administrative Sciences, the Employee Responsibilities and Rights Journal, and the Organization Management Journal. In addition, she was co-guest editor for the QRM 2010 Conference Special issue in Qualitative Research Methods in Organizations and Management.

Dr. Shawn Berman served was elected to serve as the Division Chair for the Social Issues in Management (SIM) division of the Academy of Management. This position also requires him to serve as the chair of the Executive Board of SIM. Dr. Berman also served on the Editorial Review Board of the Business & Society. He also served as the advisor to the undergraduate chapter of Net Impact, a student group focused on promoting corporate responsibility.

Dr. David Cavazos continues to serve as Associate Editor at the Journal of Management Inquiry. He additionally has served as a reviewer for The American Review of Public Administration, Human Relations and Organization Science. In addition to the published work below, David has two manuscripts in press as well as two under their second revision.

Dr. Jacqueline Hood served as Department Chair and Interim Director of the Management Development Center. She also serves on the UNM Athletic Council and the UNM Faculty Senate Policy Committee. In the past year, Dr. Hood has served on the Editorial Review Board for Equal Opportunities International and has reviewed for Human Relations; Organization Studies; Equality, Diversity and Inclusion: An International Journal and several academic conferences.

Ms. Amelia “Amie” Nelson, Esq. was appointed to the Rio Grande National Contract Management Association (NCMA) board of directors as the Faculty Advisor for the Student Contract Management Association (SCMA) – UNM. The SCMA-UNM is one of five student chapters in the nation and serves to promote and substantiate contract management as a career. As part of her work with the SCMA, Ms. Nelson coordinated a presentation at the ASM wherein Officers Sara Brown and Matthew Jefferies gave a presentation to the Anderson School of Management students discussing the foundation of the NCMA.

In November 2010- Ms. Nelson prepared and presented at the Rio Grande Chapter NCMA Educational training event. In January 2011, Ms. Nelson escorted three (3) SCMA- UNM student members to the NCMA National Mid-Year Leadership Summit in Las Vegas, Nevada. She assisted in the student participation in a national discussion panel regarding student chapters. In April 2011 Ms. Nelson presented at the Rio Grande NCMA Nuts Bolts and Beyond Educational Event. Also in April 2011, Ms. Nelson as faculty advisor for the SCMA-UNM arranged to have Ina Merson, Contracts Specialist, present to Anderson School of Management and SCMA-UNM about contract work and the FAR/DFAR.

Ms. Nelson continues to participate as a Member of the State of New Mexico Volunteer Attorneys Program assisting individuals with a multitude of legal issues and concerns.
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

Ms. Nelson presented a seminar on Creating and Marketing Small Law Firms, and has assisted several small business owners with creation and maintenance of the business ventures.

Ms. Nelson and Dr. Arthur traveled to Budapest, Hungary to attend the Rezler Foundation Scholarship selection board meeting, where they selected three Hungarian student professionals to study at the Anderson School of Management for Fall 2010 and Spring 2011. This selection was made possible by the Rezler Scholarship in an effort to provide education in the areas of Dispute Resolution to Hungarian academics.

Amelia Nelson, Esq. taught the first online courses for MGMT 310 in the fall semester 2010 and continues the online instruction. She is also creating an online elective course for MGMT 463 (Employment Law). Significant work and organization were put into the creation and instruction of these online courses.

Dr. Karen Patterson continues to serve as a reviewer for several journals and on the review board of the Journal of Management Inquiry.

SIGNIFICANT PLANS AND RECOMMENDATIONS
DEPARTMENT OF ORGANIZATIONAL STUDIES

The Department of Organizational Studies prepares people to lead socially responsible organizations in diverse contexts through education, scholarship, and service, by focusing on:
  • Personal, professional, and organizational development
  • Ethical decision-making and behavior
  • Business growth and economic development

The Department and the Anderson School intends to sponsor the third bi-annual Qualitative Research in Management Conference in April 2012. At the last conference, there were over 200 conference attendees. The conference goal is to create a space where qualitative scholars doing research in on and around organizations using a multiplicity of methods, voices, and ways of writing qualitative work, can exchange ideas and engage in critical discussion.

The Department intends to continue to encourage activities related to achieving recognition for the Beyond Grey Pinstripes Award. Beyond Grey Pinstripes is a biennial survey and alternative ranking of business schools. Its mission is to spotlight innovative full-time MBA programs that are integrating issues of social and environmental stewardship into curricula and research. In 2007-2008, the Anderson School of Management was ranked 18th of 112 schools surveyed and 6th for small schools, in 2009 the School was ranked 19th, and in 2011 the School was ranked 51st.

Finally, the Department hired Dr. David Cavazos as a tenure-track faculty member in strategic management to ensure that Anderson students are able to think strategically and critically and become responsible top level decision makers.
PROMOTIONS, SABBATICALS, SEPARATIONS, AWARDS
DEPARTMENT OF ORGANIZATIONAL STUDIES

Dr. Jeanne Logsdon retired after 22 years of service with the Anderson School. Dr. Ann Cunliffe was promoted to Full Professor.

PUBLICATIONS
DEPARTMENT OF ORGANIZATIONAL STUDIES

Michelle Arthur
Refereed Articles

Honors/Awards
Award
2010-2011: Albert and Mary Jane Black Professorship in Economic Development, Anderson School of Management.

Shawn Berman
Chapter, Cases, Readings, Supplements


Honors/Awards
Award
2010-2011: Anderson Foundation Fellowship, Anderson School of Management

David Cavazos
Refereed Articles


Book Chapter

Presentations

Ann Cunliffe
Refereed Articles

Proceedings


Chapters, Cases, Readings, Supplements


Other Publications


Presentations


Invited Presentations


Honors and Awards

Visiting Professor, Escola de Administração da Fundação Getulio Vargas, Brazil, June-July 2011.
Visiting Professor, University of Hull, 2007-2012.
Visiting Professor, University of Strathclyde, UK. 2007-2012.

Award

2010-2011: Anderson Alumni Endowed Professorship, Anderson School of Management.
2010-2011: Organizational Research Methods article 'Retelling Tales of the Field.' was one of the most downloaded articles of 2010.
Rob DelCampo
Refereed Articles


Books, Monographs, Compilations, Manuals


Other Publications

Textbook Supplements


Presentations

Invited Presentations

DelCampo, R.G. (2011). (Keynote Speaker) “Health Science Generational Issues.” Presented to the University of New Mexico Health Science Center; Domenici Center, Albuquerque, NM, May 24, 2011.


Del Campo, R.G. (2011). (Featured Speaker) “Generational Issues.” Presented at the University of New Mexico Health Sciences Center Staff Mentorship Program; Albuquerque, NM, January, 2011.


Press

Honors/Awards
Award
2010-2011: Rutledge Endowed Professorship, Anderson School of Management.

Maria Gondo
Chapters, Cases, Readings, Supplements


Presentations


**Jacqueline Hood**

**Refereed Articles**


**Proceedings**


**Presentations**


**Invited Presentations**

“My Leadership Journey,” invited presentation to the Young Professionals Association, June 14, 2011.


“Dysfunction Junction: Getting Your Team on Track,” invited presentation for the Albuquerque Chapter of Credit Unions (ACCU), March 29, 2011.
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean


“Bullying in the Workplace,” invited presentation (with Wendy Shannon) for the New Mexico Federal Executive Board, Albuquerque, August 4, 2010.


Honors/Awards

Award

2010-2011: Advisory Professorship Anderson School of Management.
2010-2011: Bill Daniels Ethics Fellow.

Kathryn Jacobson

Refereed Articles


Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

Proceedings


Presentations

Honors and Awards
Award
2010-2011: Foundation Fellowship, Anderson School of Management

Ryan Jacobson
Refereed Articles


Refereed Proceedings

Presentations

Jeanne Logsdon
Refereed Articles


**Presentations**


**Honors and Awards**

**Award**

2010-2011: Rust Professor of Business Ethics, Anderson School of Management.

**Amelia Nelson**

**Honors and Awards**

**Honor**

2010-2011: Admitted into the 2011 Emerge New Mexico class. Emerge New Mexico.

**Karen Patterson**

**Refereed Articles**


**Presentations**


Sarah Smith
Honors and Awards

Award
2010-2011: Rust Professor of Business Ethics, Anderson School of Management.

Honor
2010-2011: Bill Daniels Business Ethics Fellow

Scott Taylor
Refereed Articles


Presentations


Taylor, S.N. (2010, November). Leadership: What really matters? Brown Bag Lunch Session with the Health Science Center’s staff mentorship program at the University of New Mexico. Albuquerque, NM.

Taylor, S.N. (2010, October). Coaching and mentoring with compassion: Helping others develop social and emotional competence. Plenary session address at the Mentoring Conference of the University of New Mexico’s Mentoring Institute. Albuquerque, NM.

Honors and Awards

Award
2010-2011: American Indian Student Services STARS Award.
2010-2011: Foundation Fellowship Anderson School of Management
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

**Honor**
2010-2011: Bill Daniels Business Ethics Fellow.
2010-2011: Nominated for the New Faculty Teaching Award University of New Mexico.

**Harry Van Buren III**

**Refereed Articles**


**Presentations**


**Honors/Awards**

*Award*

2010-2011: Albert and Mary Jane Black Professorship in Economic Development, Anderson School of Management.

**Service Activities**

**Department of Organizational Studies**

**Shawn Berman**

Service: Professional

**Board Member: PRJ Editorial Review Board**

2010-2011: Business and Society (International).

**Chair: Committee / Task Force**

2010-2011: Academy of Management, Social Issues in Management Division, I was elected to serve as the 2011 SIM Division Chair-Elect, therefore I was responsible for making sure that the winners of all divisional awards were recognized at the conference in San Antonio. Election to this position also entails serving on the SIM Executive Board.

**Reviewer: Ad Hoc Reviewer for a Journal**

2010-2011: Journal of Business Ethics
2010-2011: Business Ethics Quarterly, Ad hoc reviewer

**Reviewer: Conference Paper**

2010-2011: Academy of Management, Ad Hoc Reviewer
2010-2011: International Association of Business and Society, Ad Hoc Reviewer

**Service: University**

**Department Assignments**

**Faculty Advisor:**

2010-2011: Policy and Planning Concentration: I served as a co-advisor to Policy and Planning Concentrators with Jeanne Logsdon and Harry Van Buren.

**College Assignments**

**Faculty Advisor:**

2010-2011: Net Impact Committee: I was Faculty Advisor for the Undergraduate Chapter in the academic years 2008-2009 & 2009-2010. During 2010-2011 I served as the co-advisor for the club with Jeanne Logsdon.
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

Member:
2010-2011: Curriculum Review Task Force: In the Fall of 2010, I served as an at-large rep, co-representing DOS with Harry Van Buren. In the Spring of 2011, I serve as the DOS representative to the Curriculum Review Task Force.
2010-2011: Anderson Faculty

Other Institutional Service Activities:
2010-2011: Daniels Fund Grant for Teaching Business Ethics: Daniels Fund Fellow

University Assignments
Member:
2010-2011: Conflict of Interest Committee - D: This is the Conflict of Interest Committee covering the main campus.
2010-2011: Research Ethics and Integrity Program: This is the University Research Ethics committee.

Dissertation Assignments
Member:
2010-2011: Dissertation Committee: Elise Perrault, Bentley College. Elise is working towards her PhD.

David Cavazos
Service: Professional

Editor: Associate Editor
2010-2011: Journal of Management Inquiry

Ad hoc Journal Reviews
Reviewer for Human Relations
Reviewer for Academy of Management Journal
Reviewer for Organizational Science
Reviewer for American Review of Public Administration

Ann Cunliffe
Service: Professional

Chair: Conference / Track / Program
2010-2011: Academy of Management, Pat Division Chair: Critical Management Studies Interest Group

Editor: Editor of Journal
2010 - 2011: Management Learning, Editor-in-Chief
2010-2011: Associate Editor, International Journal of Qualitative Research in Organizations and Management.

Editorial Board Member
Human Relations
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

Organization Studies
Academy of Management Learning and Education
Journal of Organizational Change Management
Scandinavian Journal of Management
Canadian Journal of Administrative Sciences, CMS Division
Employee Responsibilities and Rights Journal
Organization Management Journal.

Professional Committees and Boards
2010-2011: Executive Committee, Critical Management Studies Division, Academy of Management

Ph.D. Examination
Universiteit voor Humanistiek, Utrecht, Netherlands, 2011.

Program Evaluation
External Examiner for Organizational Behaviour, Management and Information Technology Degree Program, Lancaster University, UK. 2008-11.

Ad Hoc Reviewing
Organizational Research Methods
Organization
Journal of Management Education

Other Professional Service Activities
2010-2011: Organizational Behavior Teaching Society Conference, Site Coordinator of the 2010 OBTS Teaching Society for Management Educators Conference, University of New Mexico (International).

Service: University
2010-2011: ASM Policy and Planning Committee

Rob DelCampo
Service: Professional
GDO Division Doctoral Consortium Mentor, Academy of Management, 2011.

Board Member: Advisory Board
2010-2011: McGraw-Hill Higher Education
2010-2011: Wiley Publishing

Board Member: PRJ Editorial Review Board
2010-2011: Administrative Sciences

Editor: Academic PRJ
2010-2011: Administrative Sciences
Service: University

**Department Assignments**

Faculty Advisor:
2010-2011: Anderson School of Management HR Undergraduate Concentration Advisor
2010-2011: Anderson School of Management OB/HR Graduate Concentration Advisor

**College Assignments**

Member:
2010-2011: Anderson School of Management Scholarship Committee

**University Assignments**

Member:
2010: University of New Mexico E-Mail Steering Committee
2010: University of New Mexico Clauve Outstanding Senior Award Committee

Maria Gondo

Service: Professional

**Reviewer - Article / Manuscript**
2010-2011: Academy of Management Journal
2010-2011: Qualitative Research in Organizations and Management
2010-2011: Journal of Management Studies

**Reviewer - Book / Textbook**
2010-2011: Qualitative Research in Organizations and Management

Service: Community

**Member of a Committee**
2010-2011: Energy, Renewables and Water Planning Council

Jacqueline Hood

Service: Professional

**Editorial Board Member**
2010-2011: Equal Opportunities International

**Reviewer: Ad hoc Reviewer for a Journal**
2010-2011: Human Relations
2010-2011: Organization Studies

**Reviewer: Conference Paper**
2010-2011: International Association for Business and Society
2010-2011: Transportation Research Board Conference
2010-2011: Academy of Management, Gender and Diversity in Organizations Division
2010-2011: Academy of Management, Social Issues in Management Division
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

Service: University

Department Assignments

Other Institutional Service Activities:
2010-2011: Chair, Department of Organizational Studies

College Assignments

Member:
2010-2011: Leadership Council

Other Institutional Service Activities:
2010-2011: Director of the Management Development Center
2010-2011: Anderson School of Management Convocation Attendee

University Assignments

Member:
2010-2011: Faculty Senate Policy Committee
2010-2011: Athletic Council

Other Institutional Service Activities:
2010-2011: Graduation Marshall
2010-2011: Marshall for Freshman Convocation

Dissertation Assignments

Member:
2010-2011: Organizational Learning and Instructional Technologies - Ali Green Dissertation Committee

Service: Community

Speech / Presentation at a Community Meeting
2010-2011: New Mexico Neurological Society
2010-2011: ASTD New Mexico Conference
2010-2011: New Mexico Federal Executive Board
2010-2011: Human Resources Management Association
2010-2011: New Mexico Business Weekly Smart Readers Seminar
2010-2011: Hispanic Business Student Association
2010-2011: Albuquerque Chapter of Credit Unions (ACCU)
2010-2011: Diversity Leadership Council
2010-2011: Young Professionals Association

Kathryn Jacobson

Service: University

Department Assignments
2010-2011: Anderson School of Management DOS Teaching Evaluation Committee
2010-2011: Anderson School of Management Library Committee
University Assignments
Ronald E. McNair Scholar Post-Baccalaureate Achievement and Research Opportunity Program
Mentor; Yzeta, M. V.

Ryan Jacobson
Service: Professional
Reviewer: Ad hoc Reviewer for a Journal
2010-2011: Journal of Personality and Social Psychology
2010-2011: Social Psychology Quarterly
2010-2011: Social Psychological and Personality Science

Jeanne Logsdon
Service: Professional
Reviewer - Article / Manuscript
2010-2011: Academy of Management, Social Issues in Management Division, Reviewer of manuscripts for the annual meetings
Reviewer: Conference Paper
2010-2011: IABS Conference

Service: University
Department Assignments
Faculty Advisor:
2010-2011: Policy and Planning Concentration
2010-2011: Net Impact/Students for Responsible Business (student club)

College Assignments
Member:
2010-2011: Dean's Advisory Review Committee

Other Institutional Service Activities:
2010-2011: Volunteer to Coordinate Anderson's submission to the Beyond Grey Pinstripes survey
2010-2011: Anderson Representative to the Washington Campus Board of Directors

Amelia Nelson
Service: University
College Assignments
Chair:
2010-2011: Academic Honesty Committee: Leader of the Academic Honesty Committee, Section 3, regarding sanctions and prevention of academic honesty violations.

Faculty Sponsor:
2010-2011: Rezler Foundation - ASM Committee: Assist in ASM selection of Hungarian scholar to receive the Rezler scholarship to attend ASM. Travel to Hungary to assist in face to face
selection, assist in student's travel and stay in New Mexico, provide instruction related to US Alternative Dispute Resolution.

**Member:**
2010-2011: Ethics Committee: Assist in promoting and continuing a Statement of Professional Ethics.
2010-2011: OBTC 2010: Committee to organize and prepare for the OBTC 2010 Teaching Conference for Management Educators (Exploring Difference).

**University Assignments**

**Faculty Advisor:**
2010-2011: NCMA-Rio Grande Chapter Board of Directors: Advisement position on NCMA Rio Grande Chapter BOD.
2010-2011: Student Contract Management Association - UNM: Assist in creation of student organization, provide faculty guidance to student driven organization. This organization is the Student Chapter of the National Contract Management Association - Rio Grande, NM Chapter.

**Other Institutional Service Activities:**
2010-2011: Guest Instructor - UNM: Teach a class on general business management legal concepts to Management Concepts in Health & Fitness Settings

**Service: Community**

**Positions Held in Civic Organizations**
2010-2011: TAFI, Treasurer on Board of Directors for organization focused on providing services to individuals with disabilities.

**Karen Patterson**

**Service: Professional**

**Academic Conference: Discussant**
2010-2011: European Group of Organization Studies (EGOS), Lisbon, Portugal

**Board Member: PRJ Editorial Review Board**
2010-2011: Journal of Management Inquiry

**Sarah Smith**

**Service: Community and Professional**

**Committee Memberships**
2010: Samaritan Counseling Center, Steering Committee for the NM Ethics in Business Awards Program
2010: New Mexico Ethics Alliance, Programs and Best Practices Committee
2010: New Mexico Ethics Alliance, Executive Committee, VP and Secretary
2010: PEO – Executive Committee, VP

**Other Community Service Activities**
2010: New Mexico Ethics in Business Awards – year-round responsibility to direct Anderson’s involvement in the New Mexico Ethics in Business Awards, including the efforts of student
teams which each fall research the 30+ nominees for Awards. In 2010, the Bill Daniels Ethics in Entrepreneurship Award was introduced into this complement of distinguished award categories, with Smith responsibility to manage this process.

2010: Ethics Best Practices in New Mexico – directs Anderson involvement in an on-going student study of ethics best practices in New Mexico businesses in this large-scale community service project.

2010: Ethics in Organizations, Freshman Learning Communities - the Jack and Donna Rust – sponsored seminar, prep for 2011 seminar - featuring extensive community outreach, field trips and notable community leaders as guest presenters.

Speeches/Presentations at Community/Professional Meetings
New Mexico Ethics in Business Awards Steering Committee – Presentation: Orientation on Business Ethics and the NMEBA Student Project (July 22, 2010)

New Mexico Ethics in Business Awards Screening Committee – Presentation: Orientation on Business Ethics and the NMEBA Student Project (August 12, 2010)

Daniels Teaching Business Ethics “Boot Camp” – brief presentation on teaching module (Albuquerque Hyatt Regency Hotel, October 22, 2010)

New Mexico Ethics Alliance – Transparency Workshop – Presenter: “Transparency vs. TMI – Are there Limits?” (November 18, 2010)

New Mexico Ethics in Business Awards Selection Committee – Presentation of student reports and orientation on process (December 15, 2010)

Service: University
College assignments:
Chair:
2010-2011: Anderson Academic Honesty Task Force

Member
2010-2011: Anderson Curriculum and Programs Committee

University assignments:
Member:
2010-11: Freshman Learning Communities – faculty participant

Scott Taylor
Service: Professional
Board Member: Advisory Board
2010-2011: University of the Pacific, Advisory Board Member for the Center for Social and Emotional Competence
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

**Invited Lecture**
2010-2011: University of New Mexico, Taylor, S.N. (2010, October). Coaching and mentoring with compassion: Helping others develop social and emotional competence. Plenary session address at the Mentoring Conference of the University of New Mexico's Mentoring Institute. Albuquerque, NM.

**Member: Committee/Task Force**
2010-2011: Academy of Management
2010-2011: American Psychological Association
2010-2011: Organizational Behavior Teaching Society
2010-2011: Society for Industrial and Organizational Psychology
2010-2011: Consortium for Research on Emotional Intelligence in Organizations

**Other Professional Service Activities**
2010-2011: HayGroup, Emotional Competence Inventory, Certified Executive Coach

**Reviewer: Conference Paper**
2010-2011: Ad Hoc Reviewer, Academy of Management Conference, OB and MED Divisions

**Service: University**

**College assignments:**
2011: Internship Concentration Advisor -- Organizational Leadership.
2011: Member, Anderson School of Management Information Technology Committee.

**Faculty Advising**
2011: Doctorate of Organizational Behavior Committee Member (External Reviewer), Ellen Van Oosten (Case Western University, Cleveland, OH).
2011: Doctorate of Management Dissertation Committee Member (External Reviewer), Nicholas Spezza (Case Western University, Cleveland, OH).
2011: PhD Dissertation Committee Member (External Reviewer), Denise Alison Jackson (The University of Western Australia; Dissertation Title: *Profiling industry-required non-technical competencies in university business graduates*).

**Other Institutional Service Activities:**
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

DEPARTMENT OF FINANCE, INTERNATIONAL, TECHNOLOGY MANAGEMENT, AND ENTREPRENEURSHIP (FITE)
July 1, 2010 – June 30, 2011

Chair: Raul de Gouvea Neto

Full-time Faculty:
- Leslie Boni, Associate Professor
- Hsuan-Chi Chen, Assistant Professor
- Dante DiGregorio, Associate Professor
- Suleiman Kassicieh, Professor
- Rajankumar Mahto, Assistant Professor
- Manuel Montoya, Assistant Professor
- Emmanuel Morales-Camargo, Assistant Professor
- John Schatzberg, Professor
- Douglas Thomas, Associate Professor
- Gautam Vora, Professor
- Steven Walsh, Professor

Part-time Faculty:
- David Agustin, Orlando Andrade
- Marvis Aragon, Paula Blacher
- John Brown, Luis Brown
- Albert Cherino, Jim Cormier
- Maria Fidalgo, George Friberg
- Douglas Hellie, Howard Hickey
- Tom Hunsaker, Chris Krahling
- Orlando Lucero, Len Maleczynski
- Deborah Pierson, David Robbins
- Carlos Romero, Paul Sandoval
- George Sanzero, Linda Shul
- Kevin Stevenson, Lawrence Waldman

SIGNIFICANT DEVELOPMENTS FOR ACADEMIC YEAR, 2010-2011
DEPARTMENT OF FINANCE, INTERNATIONAL, TECHNOLOGY AND ENTREPRENEURSHIP

Suleiman Kassicieh
- Last year, Professor Kassicieh collaborated with Co-PIs in the NanoScience program at UNM to get $700,000 from the National Science Foundation to start a NanoScience/Business Masters. His
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

belief is that we have a model of future programs that link technology to business for economic development.

• The success in the UNM Technology Business Plan Competition has been leveraged into starting an “Entrepreneurial Challenge” where 14 non-technology entrepreneurial teams competed in February 2011 for prizes. The McCune Foundation has partially funded the Challenge and we received the prize money from other donors such as UNM regent Don Chalmers, Anderson School Foundation Board Chair Ned Godshall and Anderson School Board Advancement committee chair Ben Miller.

• Sandia and Los Alamos National Laboratories funded the Management of Technology program for projects performed under the Small Business Assistance program. They provided $195,000 for 23 projects in 2011. Our student groups are mentored by the faculty to provide assistance in market analysis, financial projections and commercialization activities to these small companies.

• The $5 million from New Mexico’s State Investment Council to the Anderson student-run investment fund was reinstated and adds to the $2,000,000 that is invested on behalf of the UNM Regents’ endowment.

• The UNM Technology Business Plan Competition (TBPC) has been one of our most visible and successful program activities. Students from across the university compete for prizes: a $25,000 first prize (funded this year by Lockheed Martin/Technology Ventures Corporation/ Sandia National Laboratories), a $10,000 second (funded this year by PNM) and a $5000 third prize (funded by The City of Albuquerque Economic Development Department). Some of our business plan teams have won at other international competitions and have presented at the Technology Ventures Corporation Symposium.

Raul DeGouvea
• Created, organized and chaired the Legal and Institutional Implications of the Green Economy (LIGE) 2011 Conference, June 2011
• Created, organized and chaired the Fostering Indigenous Business and Entrepreneurship in the Americas (FIBEA) 2010 Conference, September 2010
• Co-organized the 5th Anderson School of Management Native American Career Fair 2010

Steven Walsh
• Coordinated the funding of grants which supported over 30 students in earning faculty mentored internships as well as providing funding for national and international travel for students. Professor Walsh has mentored and supported a number of student groups for the technology business plan competition. Professor Walsh’s international standing and project funding supported 9 students to further their interests by funding their presentations at regional and international conferences. He mentored one of the winning groups of the Camino Real Challenge in El Paso, TX. He mentored groups that presented at the international moot court review of business plan development in Austin, TX, as well as a student group winning a best paper prize at the international COMS Conference in North Carolina. In supporting student development, he was able to financially support a student for an international internship in India. Professor Walsh serves on the CNM electronics board, board member for the Bi-National Sustainability Lab in Santa Teresa, NM and El Paso, TX and serves on the Board of Directors of the International Micro and Nano Technology Education Foundation among others.
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

Douglas Thomas
• In May 2011, 15 Anderson students (BBA and MBA) spent two weeks in Leon, Mexico at ITESM and Centro Fox. The visit included site visits to GM and several other local plants. In addition former President of Mexico, Vicente Fox, lectured students for two hours. This is the 8th year that Professor Doug Thomas has led such short term study abroad trips to Mexico; these trips build on earlier visits in the 1990s led by Professor Dante Di Gregorio.

Dante Digregorio
• Italy 2011 summer program – Global Entrepreneurship in Cultural Industries
• US Department of Education Business and International Education grant. The main activity supported by this grant was a series of international internships for students; 13 students received funding for completing internships in Mexico, Kenya, El Salvador, Germany, Korea, Brazil/Argentina, Japan, and Israel.
• Fulbright Iraqi Visiting Scholars grant – UNM hosted 4 scholars over the summer
• Youth Entrepreneurship Program in South Valley – joint program w/UNM School of Architecture & Planning for preparing an entrepreneurship curriculum for local youth, focusing on the South Valley and Southwest Mesa areas.

Leslie Boni
• In 2011, the first trades were placed for a $5 million portfolio for the New Mexico State Investment Office (SIO). The portfolio is managed under the supervision of FITE faculty members as part of the students’ course work in finance. This portfolio is in addition to a $2 million equity portfolio that the Board of Regents of the University of New Mexico made available in 2006 to establish the first investment portfolio to be managed by Anderson School of Management students. The new SIO portfolio is a mixed-asset portfolio with a 60/40 equity/fixed-income benchmark. The main reason for the establishment of the SIO Portfolio was to extend the program to the management of a multi-asset portfolio that includes fixed-income securities. The addition of the SIO portfolio to the student-managed funds program also provided the opportunity to extend the curriculum for the program. Starting in 2010-2011, the program now consists of a 4-course sequence which is offered at both the undergraduate and MBA level. The courses are Investments, Equity Security Analysis, Fixed-Income Securities, and Applied Investments Management.

Rajankumar Mahto
• Last year SBI managed 35 different projects for 32 different organizations. The organizations receiving SBI help had positive feedback about student work. The SBI also reached out to Accion, Bankers doing SBI loans, WESST, Hispanic Chamber of Commerce, Albuquerque Chamber of Commerce, City of Albuquerque Economic Development department, Santa Fe Economic Development Department, Bernalillo County, NM Economic Development Department, SCORE Albuquerque Chapter, and others to create awareness about our program. In addition, Professor Mahto is involved with the New Mexico Family Business Alliance as a board member. Professor Mahto has served as expert speaker for their quarterly breakfast event and annual symposium. Professor Mahto is involved in UNM Entrepreneurial Challenge, and advises Entrepreneurship students.
Manuel Montoya

- International Business Students Global: Shaping the Global Agenda through Excellence in Management. IBSG was formed in 2010 as a group of high-achieving students at the Anderson School of Management who wanted exposure to previously unavailable skills and opportunities they felt were essential for engaging a global economy. Few students had practice performing case-study interviews, and exposure to careers and opportunities in international management were difficult to find. Today, IBSG has organized six programs that provide students from all over the University of New Mexico with opportunities to become highly-trained practitioners of global management through focused, collaboration-friendly programs, built on student interests and careful, rigorous support from faculty and a growing network of global stakeholders in the public and private sectors.

  Our programs include:

- **The Consulting Consortium** – dedicated to providing at least 20 hours of case study interview experience for each participating member.
- **The Ivan Karp Emerging Economies Program** – this program began with a group of students performing consulting services in the summer of 2011 to a diverse group of businesses in Nairobi, Kenya.
- **The Poetics Project** – a project started by a philosopher student interested in the value of handmade goods throughout the world, this project has cultivated a relationship with the world’s largest folk art market in providing a way to research and support the promotion of handmade goods from artists throughout the world.
- **The Conflict Minerals Consortium** – initially designed to study the Kimberly Process and conflict diamonds, this consortium has evolved into its own rigorous curriculum, designed to study the circumstances that produce conflict minerals while discussing policy implications with stakeholders who directly influence these issues.

**Significant Plans and Recommendations**

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

Native American Career Fair – Spring 2012
WITS (Water Innovation, Technology, and Sustainability) Conference - Fall 2012
LIGE (Legal and Institutional Implications of the Green Economy) Conference - Fall 2012
SUDI (Sustainability and Disability) Conference - Summer 2012
FIBEA (Fostering Indigenous Business and Entrepreneurship) Conference – Spring 2012
Spring 2012 Technology Business Plan Competition
Spring 2012 Entrepreneurial Challenge

**Promotions, Sabbaticals, Separations, Awards**

**Department of Finance, International, Technology and Entrepreneurship**
Department Awards

Hsuan-Chi Chen
Outstanding Research Award

Manuel Montoya
Outstanding Teaching Award

Leslie Boni
Outstanding Service Award

Steve Walsh
Outstanding Service Award

Suleiman Kassicieh
Outstanding Service Award

Publications

Department of Finance, International, Technology and Entrepreneurship

Leslie Boni
Refereed Articles


Hsuan-Chi Chen
Refereed Articles


Honors/Awards

Award

2010-2011: Sandia Federal Lectureship, Anderson School of Management.
2010-2011: Outstanding Research Award FITE Department, Anderson School of Management, University of New Mexico.
Dante Di Gregorio

Presentations


Honors/Awards

Award
2010-2011: Albert & Mary Jane Black Professorship in Economic Development Anderson School of Management, University of New Mexico.

Raul Gouvea

Refereed Articles


Presentations


Honors/Awards

Award

Sul Kassicieh

Refereed Articles


Presentations

Honors/Awards

Award
2010-2011: Anderson Endowed Chair for Economic Development, Anderson School of Management.

Raj Mahto
Honors/Awards

Award
2010-2011: Foundation Fellowship, Anderson School of Management.

Manuel Montoya

Presentations


Honors/Awards

Award
2010-2011: FITE Department Teacher of the Year Award
2010-2011: University of New Mexico Office for the Study of Effective Teaching -- New Faculty Teacher of the Year Nomination.

Emmanuel Morales-Camargo

Presentations

John Schatzberg

Refereed Articles
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

Honors/Awards

Award
2010-2011: Sandia Federal Lectureship, Anderson School of Management.

Doug Thomas
Refereed Articles


Honors/Awards

Award
2010-2011: Anderson Alumni Endowed Professorship, Anderson School of Management.

Steve Walsh
Refereed Articles


Proceedings


Books, Monographs, Compilations, Manuals


Presentations


Honors/Awards

Award
2010-2011: Black’s, Ed Chevrolet Professorship, Anderson School of Management.
SERVICE ACTITIES
DEPARTMENT OF FINANCE, INTERNATIONAL, TECHNOLOGY AND ENTREPRENEURSHIP

Hsuan-Chi Chen
Service: Professional
  
  Reviewer: Ad Hoc Reviewer for a Journal
  2010-2011: Journal of Banking and Finance

Service: University
  
  College Assignments
  Member:
  2010-2011: IT Committee: served as a committee member of the IT committee

Other Institutional Service Activities:
  2010-2011: Anderson convocation - Fall
  2010-2011: Instructor for Advanced Math Skills Workshop (Anderson School of Management): Teaching basic statistics at Advanced Math Skills Workshop offered at the beginning of each semester

Writing Student Recommendations:
  2010-2011: Writing recommendation letters for students or graduates: Writing recommendation letters for students or graduates for employment or admission into advanced degree programs

University Assignments
  
  Faculty Advisor:
  2010-2011: Faculty advisor to Taiwanese Student Association at UNM

Dante DiGregorio
Service: University
  
  College Assignments
  Chair:
  2010-2011: Curriculum and Programs Chair

Other Institutional Service Activities:
  2010-2011: Co-Project Director Title VI-B grant for Business and International Education program, US Department of Education

Raul de Gouvea Neto
Service: University
  
  College Assignments
  Chair: Committee / Task Force
  2010-2011: Native American Career Fair, Albuquerque, New Mexico
Chair: Conference / Track / Program
2010-2011: FIBEA Conference, Fostering Indigenous Business & Entrepreneurship in the Americas, Manaus, Brazil
2010-2011: Legal and Institutional Implications of the Green Economy, Creator, Organizer & Chair, Manaus, Brazil
2010-2011: WITS, Co-Creator, Co-Organizer & Co-Chair, Sao Paulo, Brazil

Suleiman Kassicieh
Service: Professional
Associate Editor
2010-2011: International Journal of Social Ecology and Sustainable Development
2010-2011: International Journal of Innovation and Technology Management
2010-2011: International Journal of the Knowledge Economy

Service: Community
Board Member: Advisory Board
2010-2011: Women Self Sufficiency Economic Team (WESST) where Professor Kassicieh chairs the incubator admissions committee and Share Your Care, a local provider of services for Physically and Mentally Disabled New Mexicans and boards of many small tech startups

Manuel Montoya
Service: University
College Assignments
Faculty Sponsor:
2010-2011: International Business Student Association: Responsible for assisting charter members rewrite and re-introduce charter, which will be converted into a world class consulting firm for the most aspiring and high-potential students at ASM and UNM.

Member:
2010-2011: Curriculum Review Committee

University Assignments
Member:
2010-2011: Tom L. Popejoy Prize Jury Member
2010-2011: National Securities Studies Program Advisory Committee: Serves as administrative body for the NSSP program, a federally funded program to incorporate national security issues into UNM’s service mission to minorities and to New Mexico residents.
2010-2011: Honors College Task Force: Will undertake the strategic planning for a proposed Honors College at UNM.
2010-2011: Grants Committee, Latin American and Iberian Institute,: Grants selection committee member. Small research grants and dissertation grants provided for by UNM allocation for LAII grants.
2010-2011: Service Fellow, Vice President of Student Affairs Fellows Program: Serve on committee to assist with recruitment and retention of International students and minority students. Strategy and policy analysis.
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

2010-2011: National Scholarship Committee: Trained students for national scholarships, including the Rhodes, Truman, Marshall, and Goldwater scholarships

**Mentoring Activities:**
2010-2011: McNair Program, 2010 Annual Conference Panelist: Served as a respondent for two conference panels, October, 2010

**Other Institutional Service Activities:**
2010-2011: International Studies Program: Affiliated professor to ISP.

**Service: Community**

**Speech / Presentation at a Community Meeting**
2010-2011: Presentation to New Mexico Highlands University youth mentorship program, Speech on achievement possibilities for minority youth in Northern New Mexico

**Emmanuel Morales-Camargo**

**Service: Professional**

**Board Member: Advisory Board**
2010-2011: National Society of Hispanic MBAs New Mexico Chapter

**John Schatzberg**

**Service: University**

**Department Assignments**
Member:
2010-2011: Faculty Recruitment Committee

**College Assignments**
Member:
2010-2011: Policy and Procedures Committee

**Douglas Thomas**

**Service: University**

**College Assignments**
Faculty Sponsor:
2010-2011: UNM-Anderson Mexico Summer Program

Member:
2010-2011: Study Abroad Task Force

**Other Institutional Service Activities:**
2010-2011: UNM-Centro Fox summer Program: Director

**University Assignments**
Member:
2010-2011: UNM Provost's Academic Program Prioritization Task Force
2010-2011: President's Strategic Advisory Team

Steven Walsh
Service: Professional
Board of Directors: Substantial Involvement
2010-2011: Board of IAMOT (International Association of Management and Technology)
Editor: Special Issue of a PRJ
2010-2011: Technological Forecasting and Social Change, Creative Enterprise, emerging technology and nanotechnology
2010-2011: Technovation, Nanotechnology the future of Commercialization
2010-2011: Journal of Business Ethics, Co-editor - Nanotechnology Policy
Reviewer - Article / Manuscript

Service: University
Department Assignments
Other Institutional Service Activities:
2010-2011: Director of Technology Entrepreneurship
2010-2011: Management of Technology Program Co-Director

College Assignments
Faculty Advisor:
2010-2011: Technology Commercialization Association

Member:
2010-2011: C&P committee

Service: Community
Member of a Committee
2010-2011: TVC
Other Community Service Activities
2010-2011: New Mexico Small Business Assistance Program, PI
2010-2011: High Desert Discovery District, founding Creative Board Member
2010-2011: Management of Technology Center Business community outreach
2010-2011 Horizon AG Grant, PI
2010-2011 Sandia National laboratories New Mexico Business Program, Co-PI
2010-2011 Office of Naval Research Grant
SPONSORED RESEARCH
DEPARTMENT OF FINANCE, INTERNATIONAL, TECHNOLOGY AND ENTREPRENEURSHIP

New Mexico Small Business Assistance Program – 2010-2011 Amount – approximately, $150,000
   Principal Investigators – Sul Kassicieh, Steve Walsh, Craig White, Rajankamur Mahto
   Purpose of the grant is mentoring and supervising students working with small businesses
to assess market opportunities. The grant is ongoing – renewed from year-to-year at the
option of the sponsor.

Widening the Scope of UNM’s International Business Education Programs – 2010-2011 Amount
   – $94,655
   Principal Investigators – Dante DiGregorio, Douglas Thomas
   Sponsor – Department of Education

Sustaining Rural Communities in North America via Entrepreneurship Education – 2010-2011
Amount - $31,934
   Principal Investigator – Dante DiGregorio
   Sponsor – East Tennessee State University
Chair: Steven A. Yourstone, Associate Professor

Full-time faculty:  
Gerald Albaum, Research Professor  
John D. Benavidez, Lecturer  
Ranjit Bose, Professor  
Stephen D. Burd, Associate Professor  
Linda Ferrell, Professor  
O.C. Ferrell, Professor  
Dimitri Kapelianis, Assistant Professor  
S. Howard Kraye, Lecturer  
Xin Luo, Assistant Professor  
Mary Margaret Rogers, Associate Professor  
Catherine Roster, Associate Professor  
Laurie Schatzberg, Associate Professor  
Alessandro F. Seazzu, Lecturer II  
Douglas M. Stewart, Associate Professor

Half-time Faculty: Nick Flor (IF&DM Director), Associate Professor

Part-time faculty:  
James Constand  
William Epler  
Peter Jurkat  
Linda Merewether  
Stacy Sacco  
Linda Shul  
John Eberly  
Susan Hershberger  
Elaine McGivern  
Eugene Rooney  
Josh Saiz

SIGNIFICANT DEVELOPMENTS FOR ACADEMIC YEAR, 2010-2011

DEPARTMENT OF MARKETING, INFORMATION AND DECISION SCIENCES

Professor Howard Kraye, and his students from two marketing classes recently gave the United Way of Central New Mexico a check for the amount of $25,028.73. Professor Kraye tasked one of his marketing classes to design, manufacture and sell for a profit a product using two international suppliers and tasked the other to create and successfully put on a charity event. Each class was given starting capital from Professor Kraye and had 16 weeks to complete their goals. His students this past spring also raised money for: Make a Wish Foundation, Cibola High School, West Mesa High School, and New Mexico Supporting Japan. We are saddened by the passing of Professor Howard Kraye in May 2011.
Two additional MBA concentration courses in Marketing and Operations Management are now offered online to extend our reach to working professionals.

**SIGNIFICANT PLANS AND RECOMMENDATIONS**

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

RECOMMENDATION: We must hire a new assistant professor of Marketing to cover core classes in order to reduce our heavy use of adjuncts. MIDS plans to once again make a compelling case to hire a new assistant professor of Marketing.

We have been approved to hire a new assistant professor of Operations Management and will actively recruit to obtain the best candidate. We will be making a strong effort to recruit a minority.

**PROMOTIONS, SABBATICALS, SEPARATIONS, AWARDS**

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

O.C. Ferrell received the title of UNM distinguished professor in May 2011. Linda Ferrell was promoted to the rank of professor in May 2011.

**PUBLICATIONS**

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

**Gerald Albaum**

**Refereed Articles**


**Proceedings**


**Ranjit Bose**

**Refereed Articles**


**Honors/Awards**

**Award**

2010-2011: Regent’s Lectureship, Anderson School of Management.

**Steve Burd**

**Refereed Articles**


**Proceedings**


Books, Monographs, Compilations, Manuals

**Linda Ferrell**

Referred Articles


Books


Presentations

September (2010) "Research, Teaching & Service: Integration, Synergy & Outreach," Presentation to the Regents' Academic/Student Affairs & Research Committee University of New Mexico (with O.C. Ferrell).


Presentations to hundreds of students and many faculty in 2010 and 2011 to New Mexico Highlands classes and faculty, Luna Community College, San Juan College, CNM, NMSU, Colorado State, Metro State, and to many UNM Anderson School classes (with O.C. Ferrell).

Honors/Awards

Award
2010-2011: Creative Enterprise Endowed Fellow, Anderson School of Management.

Honor
2010-2014: $1.25 million grant over 5 years for business ethics outreach in New Mexico and collaboration with: NMSU, CSU, UNCO, CU-Colorado Springs, Wyoming and DU. Daniels Fund: Bill Daniels Teaching Business Ethics Grant.

O.C. Ferrell

Refereed Articles


Books


Anderson School of Management, 2010-2011, Douglas M. Brown, Dean


**Presentations**


Presentations to hundreds of students and many faculty in 2010 and 2011 to New Mexico Highlands classes and faculty, Luna Community College, San Juan College, CNM, NMSU, Colorado State, Metro State, and to many UNM Anderson School classes (with Linda Ferrell).

**Honors/Awards**

*Award*

2010-2011: Creative Enterprise Endowed Fellow, Anderson School of Management.

*Honor*

2010-2014: $1.25 million grant over 5 years for business ethics outreach in New Mexico and collaboration with: NMSU, CSU, UNCO, CU-Colorado Springs, Wyoming and DU. Daniels Fund: Bill Daniels Teaching Business Ethics Grant.

of Business Ethics articles, in terms of citations, over the past 30 years (over 100 volumes). The article will be republished in a book with short comments from the author(s).

**Nick Flor**

**Honors/Awards**

**Honor**

2010-2011: Inducted into the Phi Kappa Phi honor society. Phi Kappa Phi.

**Dimitri Kapelianis**

**Presentations**


**Xin Luo**

**Proceedings**


Lu, Yong, Xin Luo, and Xubin Cao, “The Roles of Bridging and Bonding in Online Communities in the Aftermath of a Natural Disaster,” *Proceedings of Decision Sciences Institute*, San Diego, California, November 2010


**Chapters, Cases, Readings, Supplements**


**Honors/Awards**

**Award**

2010-2011: Foundation Fellowship, Anderson School of Management.
Mary Margaret Rogers

Refereed Articles


Proceedings

Catherine Roster

Proceedings

Presentations
Roster, C.A. (2010, Sept.). *Chronic Disorganization Research Updates*. Presentation to the National Study Group on Chronic Disorganization, Austin, TX.

Honors/Awards

Award
2010-2011: Regents' Lectureship Award

Laurie Schatzberg

Refereed Articles

Books, Monographs, Compilations, Manuals

Presentations

Other Research
2011: Newsletter. AIS SIGProjMgmt newsletter (Volume 2, Issue 2)
Alessandro F. Seazzu

Refereed Articles


Proceedings


Douglas Stewart

Proceedings


SERVICE ACTIVITIES

DEPARTMENT OF MARKETING, INFORMATION AND DECISION SCIENCES

Gerald Albaum

Service: University

Other Institutional Service Activities:
Research methods mentoring to Anderson faculty.

John Benavidez

Service: University

Department Assignments
2010-2011: Marketing Management Course Coordinator

Faculty Advisor:
2010-2011: UNM Collegiate Chapter of the American Marketing Association
College Assignments
2010-2011: Curriculum Review Committee

University Assignments
Board Member
2010-2011: Student Union Building Board
2010-2011: Student Union Building Retail and Marketing Committee

Ranjit Bose
Service: Professional
Board Member: PRJ Editorial Review Board
2010-2011: Journal of Computer Information Systems
2010-2011: Journal of International Technology and Information Management

Service: University
Department Assignments
Faculty Advisor:
2010-2011: MIS Concentration Coordinator, Student Adviser and Course Waiver Coordinator

College Assignments
Member:
2010-2011: ASM Curriculum and Programs Committee

University Assignments
2010-2011: Faculty Senate Admissions and Registration Committee

Steve Burd
Service: Professional
Reviewer - Article / Manuscript
2010-2011: International Journal of Biomedical Engineering and Technology
2010-2011: Journal of Information Technology Education

Reviewer: Conference Paper
2010-2011: Americas Conference on Information Systems
2010-2011: Hawaii International Conference on System Sciences

Service: University
College Assignments
Chair:
2010-2011: Anderson Policy & Planning Committee

Service: Community
Positions Held in Civic Organizations
2010-2011: Board member, secretary, and treasurer, New Mexico Telehealth Alliance
Linda Ferrell

Service: Professional

Other Professional Service Activity

2010-2011: Fulfill the expectations and grant initiatives outlined in 2010-2015 $1.25 million Daniels Fund grant for the Bill Daniels Teaching Business Ethics initiative in New Mexico and supporting the 4-state consortium.

2010-2011: Established the Bill Daniels Ethical Entrepreneurship Award in collaboration with the Samaritan’s Counseling Center.

2010-2011: Second Semi-Annual Bill Daniels Teaching Business Ethics workshop held in Santa Fe, NM May 5-6, 2011 (over 60 attendees-mostly from NM Community Colleges).

2010-2011: Met with BBB in Fort Collins for a meeting to work with UNCO, UW and CSU to assist them in expanding their partnership in business ethics with area schools (April, 2011).

2010-2011: Teach the Business Ethics Certificate class offered through the MDC. The course assists in training educators and others nationally how to teach business ethics, including providing resources and tools to effectively teach the course.

Officer: Organization/Association

2010-2011: Vice-President of Programs for the Academy of Marketing Science.

Member: Committee/Task Force


Chair: Conference/Track/Program


Teach the Business Ethics Certificate class offered through the MDC. The course assists in training educators and others nationally how to teach business ethics, including providing resources and tools to effectively teach the course.

Service: University

University Assignments

Chair:

2010-2011: UNM University Ethics Committee

O.C. Ferrell

Service: Professional

Other Professional Service Activity

2010-2011: Fulfill the expectations and grant initiatives outlined in 2010-2015 $1.25 million Daniels Fund grant for the Bill Daniels Teaching Business Ethics initiative in New Mexico and supporting the 4-state consortium.
2010-2011: Established the Bill Daniels Ethical Entrepreneurship Award in collaboration with the Samaritan’s Counseling Center.

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2010-2011: Met with BBB in Fort Collins for a meeting to work with UNCO, UW and CSU to assist them in expanding their partnership in business ethics with area schools (April, 2011).

Chair: Conference/Track/Program
2010-2011: Program Co-Chair for the 40th Anniversary Academy of Marketing Science Annual Conference, May 2011, Coral Gables, FL.

Officer: Organization/Association
2010-2011: Vice-President of Programs for the Academy of Marketing Science

Chair: Conference/Track/Program
2010-2011: American Marketing Association Summer Educator’s Conference, Ethics and Social Responsibility Track, Summer 2011

Board Member
2010-2011: National Associations of State Boards of Accountancy
2010-2011: Center for the Public Trust
2010-2011: Board of Visitors for the Nicholson School of Communication, University of Central Florida

Service: University
College Assignments
Member:
2010-2011: Deans Advisory Review Committee

Nick Flor
Service: Professional
Associate Editor
2010-2011: Journal of Digital Forensics Security and Law

Service: University
College Assignments
Member:
2010-2011: Policy & Planning Committee

University Assignments
Director
2010-2011: Interdisciplinary Film & Digital Media Program
Reader
2010-2011: University Commencements
Dimitri Kapelianis
Service: Professional
Chair: Conference / Track / Program
2010-2011: Academy of Marketing Science

Reviewer: Ad Hoc Reviewer for a Journal
2010-2011: Journal of Marketing, 2005 to present
2010-2011: Journal of the Academy of Marketing Science

Reviewer: Conference Paper
2010-2011: AMA Winter Marketing Educators

Service: University
College Assignments
Member:
2010: Academic Honesty Committee, Taskforce Team B: Chartered to 'establish, or explore the possibility of, a formal academic honesty policy with standards for behavior and obligation to report suspected misconduct.'

Dissertation Assignments
Assurance Of Learning - Institutional Service:
2010: External Examiner for the Graduate School of Business at the University of Cape Town

Xin Luo
Service: Professional
Guest Editor
2010-2011: Guest Editor for Journal of Global Information Technology Management (special issue on ICT Development China)

Reviewer: Ad Hoc Reviewer for a Journal
2010-2011: MIS Quarterly
2010-2011: European Journal of Information Systems
2010-2011: Decision Support Systems
2010-2011: Journal of Organizational Computing and Electronic Commerce
2010-2011: Electronic Commerce Research and Applications
2010-2011: Journal of Computer Information Systems

Reviewer: Ad Hoc Reviewer for a Conference
2010-2011: International Conference on Information

Program Co-chair for International Conferences
2010-2011: Joint Conference on eServices and Business Intelligence

Program Committee for International Conferences
2010-2011: International Conference on Accounting and Information Technology
2010-2011: 5th Midwest Association for Information Systems Conference
Mary Margaret Rogers

Service: Professional

**Academic Conference: Moderator / Facilitator**
2010-2011: Decision Sciences Institute, Session Chair

**Board Member: PRJ Editorial Review Board**
2010-2011: Industrial Marketing Management

**Presentation**
2010-2011: Decision Sciences Institute Conference

**Reviewer - Article / Manuscript**
2010-2011: Decision Science Institute, San Diego, California

Service: University

**Department Assignments**
2011-2012: Operations Management Search Committee

**Faculty Advisor:**
2010-2011: Internship advisor for Marketing
2010-2011: Evaluate transfer credit for Operations Mgmt students
2010-2011: Evaluate transfer credit for Marketing students
2010-2011: Advisor for Marketing students, MBA, BBA

2010-2011: Advisor of Operations Management MBA, BBA

**Mentoring Activities:**
2010-2011: Revision of Teaching Review document
2010-2011: Peer Review of Teaching, Steve Yourstone, spring 2010
2010-2011: Peer view of teaching, John Benavidez, spring 2010

**Other Institutional Service Activities:**
2010-2011: Developed Fall 2010 class schedule

**College Assignments**

**Faculty Advisor:**
2010-2011: MBA open house--Spring semester

**Member:**
2010-2011: Scholarship Committee

**Mentoring Activities:**
2010-2011: Bill Daniel's Fellow for MIDS

**Other Institutional Service Activities:**
2010-2011: Attended Research Seminars: Jerry Albaum’s research seminars--attended 2
University Assignments
Member:
2010-2011: Teaching Enhancement Committee
2010-2011: Teaching Grants Allocation Committee

Mentoring Activities:
2010-2011: OECD class on using WebCT in the classroom
2010-2011: Daniel's Grant Conference--October: Presented review of sustainable supply chain material
2010-2011: Created PowerPoint presentation for Daniel's grant: Created PowerPoint presentation about sustainable supply chains to be posted on Daniel's website. The material will be available to other university professors interested in this area.

Other Institutional Service Activities:
2010-2011: Daniel's Grant Conference--May

Catherine Roster
Service: Professional
Board Member: PRJ Editorial Review Board
2010-2011: Journal of Business Research

Board of Directors: Substantial Involvement
2010-2011: Institute for Challenging Disorganization, Board Member and Research Director

Reviewer - Book / Textbook
2010-2011: Kendall-Hunt Publishing, Marketing Research in Practice

Service: University
College assignments:
2010-2011: Anderson School of Management Faculty Chair

Laurie Schatzberg
Service: Professional
Advisor
2010-2011: Flatworld Knowledge (academic text publisher), Was among the first 30 faculty members (across all disciplines) nationwide to serve as faculty advisors and consultants, as this publisher had introduced disruptive technology in the academic publishing world.

Chair: Committee / Task Force
2010-2011: New Mexico Technology Council - Women in Technology Celebration, Member of planning committee; chair, scholarship committee, scholarship judge, Albuquerque, New Mexico

Editor: Associate Editor
2010-2011: International Journal of E-Politics, Publication of Information Resources Management Association (IRMA)
Other Professional Service Activities

Presentation
2010-2011: Project Management Institute; Rio Grande Chapter

Service: Community
Other Community Service Activities

Positions Held in Civic Organizations
2010-2011: Juvenile Diabetes Research Foundation, International (JDRF), Board member for JDRF in NM. Significant & active involvement in planning & implementing annual Walk to Cure Diabetes; minor involvement in the annual Golf Tournament; moderate involvement in the Adult Outreach committee

Alessandro F. Seazzu
Service: Professional
Reviewer: Conference Paper
2010-2011: Hawaii International Conference on System

Service: University
College Assignments
Chair:
2010-2011: IT Committee
Faculty Sponsor:
2010: Internship Committee
Member:
2010-2011: Action Team
2010-2011: C&P Committee

Service: Community
Member of a Committee
2010-2011: New Mexico Regional Computer Forensics Lab (FBI), Senior UNM representative.
Member of the National Advisory Board.

Speech / Presentation at a Community Meeting
2010-2011: Anti-Terrorism Advisory Council / Terrorism Working Group
2010-2011: TracerFIRE
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

2010-2011: CFO Academy

**Douglas Stewart**

**Service: Professional**

**Reviewer: Ad Hoc Reviewer for a Journal**

2010-2011: Journal of Service Management

**Service: University**

**College Assignments**

**Member:**

2010-2011: Anderson IT Committee

**Service: Community**

2010-2011: Unpaid Consultant to The Loan Fund, assisted with developing a performance measurement system.

**Steven Yourstone**

**Service: Professional**

**Board Member**

2010-2011: American Production and Inventory Control Society—Albuquerque chapter.

**Service: University**

**Board Member**

2010-2011: UNMH Family Medicine Community Advisory Board

**Committee Member**

2010-2011: UNM Faculty Senate Computer Use committee
2010-2011: UNM Main Campus Housing committee
2010-2011: UNM Learning Environments committee
2010-2011: Anderson new building planning committee
2010-2011: UNM Faculty Senate representative
2010-2011: UNM Campus Development Advisory committee
2010-2011: Needs Assessment Committee Collaborative Teaching and Learning Building.
ANDERSON SCHOOL STAFF PROFESSIONAL ACTIVITIES
July 1, 2010 – June 30, 2011

Tina Armijo, Unit Administrator
Service: Community
Executive Committee, Coaches vs. Cancer, American Cancer Society

Deborah Bower, Academic Operations Officer
Service: Professional
Conference Workshop, “Presenting Financial Information Effectively”, The Western Association of College and University Business Officers, October 6-8, 2010
Conference Workshop, “Intermediate College and University Accounting”, The Western Association of College and University Business Officers, October 6-8, 2010

Douglas M. Brown, Dean
Service: Professional
AACSB Dean’s Conference, February 9-10, 2011
Southwest Business Dean’s Conference, June 5-7, 2011
Daniels Fund Ethics Consortium, December 1 & 2, 2010
Daniels Fund Ethics Workshops, January 6 & 7, 2011
Daniels Fund Ethics Consortium, June 26 & 27, 2011
Albuquerque Economic Forum meetings, 2010/2011

Service: University
Anderson Foundation Board, Member, 2010/2011
Anderson Alumni Council, Member, 2010/2011
UNM Dean’s Council, 2010/2011
UNM It Cost Containment Committee, January 12-14, 2011

Service: Community
Santa Fe Chamber Music Festival, President, 2010/2011
NM State Investment Council, Vice Chair, 2010/2011
California Water Service Board, Lead Director, 2010/2011
Science and Technology Corporation Board, Member, 2010/2011
Yates Petroleum Board, Advisory Director, 2010/2011
Stanford University Alumni Council, Member, 2010/2011
MIOX Board, Member, Member, 2010

Nicole Capehart, Student Success Manager
Service: Professional
Conference Participant/Presenter, Regional National Academic Advising Association Conference, March 1-2, 2011
Megan Conner, Manager Academic Advisement
Conference Participant/Presenter, Regional National Academic Advising Association Conference, March 1-2, 2011

Janet Francis, Administrative Assistant III
Service: University
Presentation, “Business Relates to Everything”, American Indian Science & Engineering Society University Site Visit for High School Students, Anderson School of Management, November 11, 2010

Service: Professional
Coordinator, American Indian Business Association, Anderson School of Management, 2010-2011
Recruiter/Liaison, Native American Student Recruitment, Anderson School of Management, 2010-2011

Gregory Gaillard, Manager IT Technical Support
Service: University
Committee Member, IT Committee, Anderson School of Management

Laura Hines, Senior Alumni Relations Officer
Service: Professional
CASE District Conference, New Orleans, LA, March 2011

Greg Molecke, Program Specialist
Service: Professional
Conference Participant, Executive MBA Council Conference, October 24-27, 2010
Workshop Participant, Marketing Workshops, American Marketing Association – New Mexico Chapter, 2010/2011
Workshop Participant, Advertising Workshops, American Advertising Federation – New Mexico Chapter, 2010/2011
Anderson School of Management, 2010-2011, Douglas M. Brown, Dean

**Service: University**
- University Governance, UNM staff Council Representative, Co-chair of Compensation Committee, Member of Executive Committee, Staff Council Liaison to Anderson School of Management, UNM Staff Council, 2010/2011

**Eugene Rooney, Analyst/Programmer 3**

**Service: Professional**
- Professional Faculty, Anderson School of Management, Fall 2010
- EDUCAUSE West/Southwest Regional Conference, EDUCAUSE, Feb. 2011

**Service: University**
- Project Team, Top 200 Drug Application for Students, UNM College of Pharmacy, 2010/2011
- Committee Member, UNM Identity Management Group, UNM, 2010/2011
- Committee Member, UNM College Academic Reporting Group, UNM, 2010/2011
- Committee Member, UNM IT Agents, UNM, 2010/2011
- Committee Member, UNM Information Architects, UNM, 2010/2011
- Project Team, UNM Schedule Data in XML Format, UNM College of Pharmacy, 2010/2011
- Analyst/Programmer 3, UNM Center for Development and Disability, UNM College of Pharmacy, 2010/2011

**Joshua Saiz, Analyst/Programmer 3**

**Service: Professional**
- Professional Faculty, Anderson School of Management, Fall 2010

**Service: University**
- Grade 14 Representatives, UNM Staff Council, 2010/2011
- Committee Member, Staff & Rewards Committee, UNM Staff Council, May 2011-present
- Committee Co-chair, UNM Digital Signage Committee, 2010/2011
- Committee Member, UNM College Academic Reporting Group, UNM, 2010/2011
- Committee Member, UNM Information Architects, UNM, 2010/2011
- Information Technology Officer, UNM Provost’s Committee for Staff, UNM, 2010/2011
- Student Group Advisor, Hispanic Business Student Association, Anderson School of Management, 2010/2011

**Service: Community**
- Web Developer, Griegos Elementary School, APS, 2010/2011
UNM
SCHOOL OF PUBLIC ADMINISTRATION

ANNUAL REPORT

July 1, 2010 – June 30, 2011

Dr. Uday Desai
Director
1. Significant Developments During the 2010-11 Academic Year
   - Approval of new concentration in Health Policy & Administration
   - Development of five year (3+2) BA in Economics – MPA Program
   - Development of five year (3+2) BUS – MPA Program
   - Received approval to hire new faculty member with specialization in Native American Governance

2. Significant Plans and Recommendations for the Near Future
   - Hire new faculty member with specialization in Native American Governance
   - Hire new faculty member in Public Administration
   - Continued examination of SPA goals and direction

3. Appointments, Promotions, Separations
   - Mara Kristin Pierce was hired as a full time Graduate Academic Advisor
4. Publications, Outside Professional Activities, Outside Sponsored Research, Student Info

PUBLICATIONS

Dr. Chih-Wei Hsieh:

Dr. Kun Huang:

Dr. Gao Liu:

Dr. Mario Rivera:
Publications:


Book Chapter:

Dr. Stephanie Smith:

Roli Varma:


OUTSIDE SPONSORED RESEARCH

The School of Public Administration Faculty received the following grants to fund their research during this academic year.

**Dr. Kun Huang**

"Agency Strategic Orientation and Inter-Agency Collaboration in a Mixed-Sector Behavior Health Service Network in Bernalillo County"

Robert Wood Johnson Foundation Center for Health Policy, at the University of New Mexico
May 2010 - May 2011
$10,000.00

"Agency Strategic Orientation and Inter-Agency Collaboration in a Mixed-Sector Behavior Health Service Network in Bernalillo County"

Research Allocation Committee of The University of New Mexico (Grant 10-27)
March 2010 - September 2010
$3,500.00

**Dr. Stephanie Smith**

Professor Stephanie Smith is a senior researcher on the “Global Health Advocacy and Policy Project.” The grant provided summer salary support for Professor Stephanie Smith in 2010.

*Funded by: Global Health Advocacy & Policy Project (GHAPP)*

$1.1 million grant to Syracuse University by the Bill and Melinda Gates Foundation.
2009 – 2013

Professor Stephanie Smith is the lead researcher on case studies in Nepal and Bolivia for a project entitled “Generating Global and National Political Priority for Newborn Survival.” The grant provided summer salary and field research support for Professor Stephanie Smith in 2009 and 2010.

*Funded by: Save the Children*

$365,000 grant to Syracuse University by Save the Children, USA.
2008-2011

**Dr. Roli Varma**

“Lessons from Precollege Mathematics Teaching in India"

Research Allocation Committee of the University of New Mexico (Grant 10-05)
November 1, 2009 – September 30, 2010
$4,000.00

“Retaining U.S. Educated Foreign-born Scientists and Engineers: A Case Study of Return migration to India”

Research Allocation Committee of the University of New Mexico (Grant 11-06)
October 15, 2010 – September 30, 2011
$4,000.00

STUDENT INFORMATION

Master of Public Administration Degree Conferred

**Summer 2010:**

- Karel V. Bhakta
- Joseph D. Escobedo
- Kim D. Thornton
- Sheryl L. Wilkeson
**Fall 2010:**

<table>
<thead>
<tr>
<th>Lori A. Baca</th>
<th>Brian J. Martin</th>
</tr>
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<tbody>
<tr>
<td>Roberta J. Burson</td>
<td>Ana-Lisa M. Montoya</td>
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<tr>
<td>Carrie K. Colquitt</td>
<td>Lisa C. Romero</td>
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<tr>
<td>Joni K. Deniston</td>
<td>Dodi L. Sedillos</td>
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<tr>
<td>Paul J. Feist</td>
<td>Deborah L. Lucero</td>
</tr>
<tr>
<td>Danielle L. Gilliam</td>
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<tr>
<td>Isaiah L. Lopez</td>
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**Spring 2011:**

<table>
<thead>
<tr>
<th>Abdulaziz S. Abumilha</th>
<th>Thomas R. Grover</th>
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</thead>
<tbody>
<tr>
<td>Javier R. Benavidez</td>
<td>Clara F. Holguin</td>
</tr>
<tr>
<td>Lora M. Church</td>
<td>Eri Hoshi</td>
</tr>
<tr>
<td>Brian R. Curley</td>
<td>Norman E. Lieber</td>
</tr>
<tr>
<td>Katherine M. Dorn</td>
<td>Craig M. Sadberry</td>
</tr>
<tr>
<td>Taona A. Enriquez</td>
<td>Elizabeth Schomburg</td>
</tr>
<tr>
<td>Matthew J. Gallegos</td>
<td>Glenda G. Winn</td>
</tr>
<tr>
<td>Robert J. Grimes</td>
<td>Melinda S. Mike</td>
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</tbody>
</table>

**Pi Alpha Alpha Inductees**

2010-2011 Academic Year

<table>
<thead>
<tr>
<th>Jordan Bailey</th>
<th>Maria Goergen</th>
<th>Huong Nguyen</th>
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</thead>
<tbody>
<tr>
<td>Roberta Burson</td>
<td>Thomas Grover</td>
<td>Teresa Ryan</td>
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<tr>
<td>Douglas Calderon</td>
<td>Martin Gutierrez</td>
<td>Jacqueline Buckman Snow</td>
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<td>Jacqueline Castro</td>
<td>Ybeth Iglesias</td>
<td>Ezra Spitzer</td>
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<tr>
<td>Hyekyung Sohn Clark</td>
<td>Dane Lauritzen</td>
<td>Kymbra Williams</td>
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<tr>
<td>Carrie Kathryn Colquitt</td>
<td>Isaiah Lopez</td>
<td>Christina Woodlee</td>
</tr>
<tr>
<td>Kelley Cuellar</td>
<td>Nicole Miller</td>
<td>Joeteshna Zenos</td>
</tr>
<tr>
<td>Jose Luis Flores</td>
<td>Catherine Montoya</td>
<td>Gwendolyn J Zon</td>
</tr>
</tbody>
</table>

**Ferrel Heady Award for Outstanding Professional Papers**

2010 – 2011 Academic Year

Glenda G. Winn (Kodaseet) – “In Pursuit of a Computing Degree: Cultural Implications for American Indians”
ANNUAL REPORT TABLE OF CONTENTS

COLLEGE OF ARTS AND SCIENCES
July 1, 2010—June 30, 2011

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I. Introduction and Overview

The College of Arts and Sciences is both the oldest (established in 1898) and the largest College at the University of New Mexico. Its goal is to provide the classic liberal arts education to its students in academic departments disseminated across the humanities, the social sciences, the physical sciences and the mathematical sciences. The College offers almost the entire core curriculum and supports students enrolled in all other Colleges including Business, Engineering, Fine Arts, etc. The scope and depth of scholarly activity encompassed by the Departments, Programs and Centers in the College constitutes in large part the excellence UNM has in the areas of teaching, research, and academic service.

The College of Arts & Sciences consists of 20 academic departments (7 humanities, 5 sciences & mathematics, 8 social sciences) and 10 interdisciplinary study programs with their own curricula. They offer 103 degree programs: 56 undergraduate majors, 26 masters programs, 21 doctoral programs, and 10 interdisciplinary majors. Three departments (Psychology, Communications & Journalism and Speech & Hearing) operate programs that are accredited by national associations. There are also 10 research centers and institutes and 3 museums (Table 1 lists all College centers, institutes, and museums and their chairs or directors). In 2010-11 there were 370 tenure-stream faculty members and 64 lecturers across most of the departments in the College. The College supported 303 administrative and research staff members. There were also approximately 42 research professors and post-doctoral appointments, 250 part-time instructors for Fall 2010 and 260 part-time instructors and this includes on-line, 19 visiting professors, and close to 858 teaching and graduate assistants.

In the core areas of teaching, scholarship and service, the College of Arts and Sciences extended in 2010-11 its tradition of excellence and outstanding productivity. Once again, the College taught more students than any other college or school in the University, with official registrations figures showing a 6% increase in student credit hours (SCH) over the previous year. Although 20 departments and 9 study programs are in the College, six of them produce nearly half the total student
credit hours. The College continued to serve students who were not only majoring in a degree program within the College, as approximately 75% of the courses in the University Core Curriculum were also covered by College departments.

College faculty members continued to excel in their classroom instruction and the mentoring of students. Professor Christine Sauer (Economics) was awarded the prestigious Presidential Teaching Fellow Award. Also at the level of University teaching awards, Les Field (Anthropology) and Melissa Bokovoy (History) were both recipients of the Outstanding Teacher of the Year Award. Assistant Professors Tema Milstein (Communications and Journalism) and Melanie Moses (Biology Department and Computer Sciences) were the recipients of the 2010-11 Outstanding New Teachers of the Year Award. Bruce Hofkin (Biology) and Myra Luna-Lucero (Communications and Journalism) were each awarded Outstanding Lecturer or Affiliated Teacher of the Year recognition. The College recognized faculty members, Jesse Aleman (English), Maria Velez (Sociology), Christopher Butler (Political Science), and Yuri Bosin (Political Science), for its own Award for Teaching Excellence. In addition, the following Teaching Assistants were recognized for their contributions: Kiley Jeanelle Guyton Acosta (Spanish & Portuguese), Daniel Abeyta (Spanish & Portuguese), Jeremy Ricketts (English), Tessa Margett (Psychology) and Carolyn Hushman (Earth & Planetary Sciences).

The College continued to contribute substantially and significantly to UNM's reputation as a Carnegie Very High Research (Research 1) institution. Faculty members in the College generated almost $45 million in new sponsored research grants, renewed research grants, and contracts, some $2 million more than the year before. The sources for these monies varied across the range of national agencies, private foundations, and various governmental bodies. The faculty members in each of the physical and mathematical science departments led the way in generating external resources for their research projects. A number of the specialized centers and institutes were also leaders in the state for bringing direct and indirect research support to the University. Faculty members and their student research assistants, who were significantly supported by faculty members' successful grant activity,
disseminated the fruits of their research through a number of outlets besides publications, including national and international symposia, professional associations, and as invited guests to other high-achieving research institutions. Many of the hundreds of research grants awarded to College faculty members support research laboratories, equipment and training facilities for graduate students.

As we have reported in previous years, public service has always formed a major commitment among the College's departments and other sub-units. Faculty members in the Departments of Mathematics & Statistics, English, Biology, Earth and Planetary Sciences, and Physics & Astronomy continued with their efforts to enhance the pipelines from K-12 to higher education through such programs as teacher education, student competitions, and student visitor's events. The College museums carried out their standard, high-quality, programming. The Maxwell Museum and the Museum of Southwestern Biology maintained their permanent exhibits and organized special activities, such as archaeological tours for public school students and special adult groups. The Institute for Medieval Studies put on its popular annual conference, attracting, as usual, substantial community, as well as academic, audiences. The Sustainability Studies Program focused on local food production by putting on farmer's fairs for the community at large. The Peace Studies Program held its annual Peace Studies Fair, involving extensive participation by local community service organizations. Clinical services to students and the general public continued to be provided in the Departments of Psychology and Speech & Hearing, as well as the Agora Crisis Center (suicide prevention).

The serious budgetary issues that impacted the College during the 2011 fiscal year were part of the larger rescission across the University and higher education in the state. Although budgets were cut across all units, the College made every attempt to provide flexibility for chairs and directors as to how they would meet budget targets. Despite this, the consequences may last far beyond this one year.

II. Administration

Dr. Brenda J. Claiborne completed the fourth year—and what was to be her last year—of her
appointment as Dean of the College. Dr. Felipe Gonzales continued as Associate Dean for Faculty and
Senior Associate Dean. After four years in providing invaluable service to the College in these
positions, Dr. Gonzales returned to the Sociology Department and much-deserved sabbatical. Dr. Janet
Cramer, Associate Professor of Communications & Journalism, served as the Associate Dean for
Curriculum and Instruction and Dr. Philip Ganderton continued on as Associate Dean for Research. He
held this position as a half-time appointment and continued as Co-Director of the Combined BA/MD
Program.

The Dean served on many university-wide committees and was appointed to the Board of
Regent's Academic/Student Affairs & Research Committee. The Dean made a small number of
appointments of Chairs within the College, having standardized somewhat the negotiations and
parameters of the offers made to Chairs for their four year appointments.

The staff remained relatively stable, with Rick Goshorn joining the Dean's Office as Chief
Financial Officer, and Shirley Rey Lovato joining at the same time as Senior Academic Operations
Officer, both at the beginning of the academic year. Two accountants joined the Dean's Office staff in
2011: Mark Maddaleni as an Accountant III and Rebecca Rendon de Gonzales also an Accountant III
working with the Associate Dean of Research exclusively. Gabriel Pacheco also joined in 2011 as the
Operations Manager of the newly created Arts and Sciences Service Center, providing accounting, IT
and other administrative support for departments in need and Programs, few of which have their own
administrative staff. Three staff left the Dean's Office after making substantial contributions to the
operation of the Office over many years: Sterling Coke, Robert Castillo and Christine Smith.

The new Science and Mathematics Learning Center building was officially opened on March 4,
2011. The building contains offices for the Mathematics and Statistics Department faculty and staff as
well as state of the art learning facilities and laboratories for chemistry and the biological sciences.

III. Research and Scholarly Activities
The College of Arts and Sciences is home to 10 inter-disciplinary programs and 10 research centers and institutes that report to the Dean and another 10 research centers with reports to department Chairs in addition to the 20 discipline-focused departments. Almost every faculty member is currently undertaking research, whether funded by outside agencies, internally through UNM's Research Allocations Committee, or as part of their regular responsibilities during the academic year. Faculty researchers' work with graduate students as instructors, mentors, advisers and ultimately as co-PIs and coauthors of research papers. Faculty researchers in the College of Arts and Sciences work with other faculty and research staff in every other College or School on campus, including the UNM Health Sciences Center. There is almost no area of research activity at UNM that does not involve researchers from the College of Arts and Sciences.

The Deans Office, acting as the College administration, supports research of all faculty by first and foremost encouraging and recognizing faculty research through the appointment, promotion and annual review processes. The College provides competitive start-up packages to new faculty members, and in Fiscal Year 2011 provided over $423,000 in start-up funds to faculty, which represents the College's share of about $1,000,000 in start-up funds provided to College faculty by the university as a whole.

Researchers in the College of Arts and Sciences attracted almost $45 million in new and renewed contracts and grants to support research from external agencies in the fiscal year ending June 30, 2011. This represents a 3.5% increase over the value of new and renewed sponsored research awards in the previous year ($43m). The number of awards was 386 compared to 342 the previous year. A substantial proportion of College faculty received support from outside sources during the year, and these grants supported many post-doctoral students, graduate students and undergraduate students. They supported research staff and administrative staff throughout the College.

Departments accounted for nearly 67% of the $45 million in new research grants over the year while research centers and institutes in the College accounted for the other 33%. When combined,
researchers in the Physical Sciences and Mathematics cluster were awarded 85% of the total value of new grant money in the last year, researchers in the Social Sciences disciplines accounted for almost 12% of the new grants and those in the Humanities received the remaining 3%. The largest new or renewed awards during the year were over $2 million to Physics and Astronomy and to the CETI program within Biology, and there were 7 other grants of amounts over $1 million awarded to researchers in the College.

The research centers and institutes in the College remain a strong force promoting excellence in research by providing opportunities for faculty and graduate students to work on critical projects with well-developed infrastructure to support research. Combined they brought in nearly $11 million in sponsored research funds to support their own activities and generate valuable Facilities and Administration (F&A) funds to the university as a whole.

During the year, the Associate Dean of Research implemented a new policy on research-funded course buyouts which will release funds to support research and other activities in departments at a time when the economic recession and associated state funding rescissions have severely cut into each department’s ability to continue to support their teaching and research missions.

IV. Curriculum, Teaching and Enrollment Management

The College of Arts and Sciences is responsible for the majority of the General Education instruction for all UNM students and each year graduates more students than any other college. Tables 8 and 9 summarize the total number of degrees awarded and degrees awarded by department. Over the past decade, the total number of full-time faculty members has not risen while the SCH production for the College has grown substantially. Thus, an ever-increasing fraction of the College’s teaching load is being born by part-time instructors and graduate students.

Despite general budget reductions in FY 11, the College continued its commitment to the classroom by maintaining its PTI instructional budget at its previous level (approximately $3 million).
Two highly successful Teaching Assistant Programs, The Interdepartmental TA Program (ITA) and the Excellence TAships funded by the Office of Graduate Studies, have been major components in our PTI budget. These programs benefit both undergraduate and graduate programs by allowing Arts and Sciences departments with insufficient TA budgets. Programs can augment the number of assistantships they offer within their program (through the excellence Program). Programs are required to show that these additional TA ships will be used to improve instruction (particularly in the core curriculum). The ITA Program allows academic programs to secure support for their qualified graduate students by finding them teaching assistantships in departments that have sufficient support but not enough graduate students to meet their instructional needs. In FY 2011, the ITA program funded 22 TA lines this time in three departments (English, Spanish & Portuguese, and Foreign Languages & Literatures).

Extended University: A&S departments significantly accelerated the growth in the number of online courses offer by the College resulting in a substantial increase in total on-line SCH production (113% over AY10 levels). The number of SCH generated by College ITV and “in-person” courses taught by the College decreased slightly as the instructional emphasis switched to on-line offerings. As the number of on-line offerings has increased, the College has made a concerted effort to oversee the systematic development of on-line pedagogy and curricula. John Oetzel (the former Chair of C and J) was appointed as the Special Assistant for On-Line Development and a team of departmental liaisons was created to aid faculty in developing new on-line courses that were well integrated into programmatic degree completion plans. The majority of these newly created on-line offerings were upper division courses within disciplines. In addition, to help the University achieve the goal of reaching out to more New Mexicans, several departments (including American Studies, Communications & Journalism, Foreign Languages & Literatures, Psychology, and Sociology) have begun developing degree-completion programs that can be satisfied entirely online.

Assessment: Compared to the enormous progress achieved for assessment in previous years, activities during 2010-11 were maintained at a constant level. Virtually all of the degree granting units
in the College have completed satisfactory assessment plans for their degrees/certificates during the past two years, and a substantial number of these programs have now been moved into a three year reporting cycle. The College will continue to work toward 100% compliance and, more important, toward developing a culture of assessment across the College.

**Enrollment Management Initiatives:** The College continued an aggressive program of enrollment management to address increasing enrollment pressures in high demand courses. In 2010-11 we again supported intersession courses in the Fall Semester. Intersession has proven to be a highly successful collaboration between the College and the Office of the Provost, providing a means for student to complete courses necessary for their timely graduation and scholarship eligibility. During fall intersession, 32 courses were offered in 13 departments. These courses were well received by the students and most filled to within 90% of capacity.

**Summer Session:** A total of approximately $820,000 was allocated to the College to support the 2010 Summer Session. Much of this funding was used to offer courses that required graduation (University Core and “gateway” courses). Offering them in the summer session has a positive effect on both graduation and retention rates. The College actively collaborated with the Office of the Provost to increase the availability of what have been traditionally high demand laboratory courses and support unique summer programs including the German Summer School in Taos, field schools in Anthropology and Geology, and the English Department’s Summer in London program.

V. Advising and Student Success

Advisement Center

The advisement and academic guidance of 8000-plus undergraduate majors and pre-majors is the most important responsibility of the College's Advisement Center. The Center (under the supervision of Mark Ondrias as Associate Dean and Stephanie Hands, Director of Advisement) not only serves the entire undergraduate population of the College; it also coordinates the advising
activities with the individual academic programs. It admits undergraduate students to the College of Arts and Sciences and coordinates the monitoring of their academic progress, certifying their graduation and updating their intended course of study. Approximately 1600 Arts and Sciences baccalaureate graduates were certified this past academic year, this is an increase of 200 degrees more than last year.

Interactions with Students: The number of students enrolled in a major of the College of Arts and Sciences during 2010-2011 was Fall 2010 – 6145, Spring 2011 – 6259, and Summer 2011 – 2302. Most of these students have direct contact with the Advising Center at least once a year. Many of them have multiple contacts per semester. The Center operates on an appointment-based system Monday through Thursday, with Friday the walk-in day, to accommodate the students’ need to seek assistance on “deadline days”. A total of 12,861 student visits to the Advisement Center occurred during 2010-2011. This is an increase of approximately 2500 visits. This does not include out of office advisement sessions or electronic communications (see below). Mandatory group advisement sessions for transferring into Arts and Sciences and graduation planning now account for 3524 of the student visits. These seminars are offered several times a week throughout the semester. We have added many more sessions with the acquisition of our new facilities. This and the increased participation of the University College Pre-Major advisors in presentations resulted in an increase of over 900 mandatory student visits.

Contact with the undergraduate population is not limited to face-to-face interactions. Advisement has developed and is always looking for ways to improve other modes of communication. Students appreciate the ability to contact their advisor via email. Advising email traffic has grown from just under 700 in 2005-06 to over 9000 for the last academic year. The general advisement email has responded to over 7500 emails alone.

The center is also responsible for evaluating and completing paperwork for all students in the college. We have made a concerted effort to electronically process student requests whenever possible.
Through this effort we have decreased the amount of paperwork from over 5000 requests last year to less than 3800 for the 2010-2011 academic year. These requests have turnaround times that range from 24 hours to 5 business days. In an effort to streamline some of these processes, the center now requires students to attach their degree audit and highlight significant areas that are related to their request.

Enhance the Connections between Student Support Services, Department, and College

Advisement: As the Center continues strengthening the relationships with the Departments; there have also been creative innovation student processes that involve both areas. The Center has partnered with the Biology Department offering the first of many proactive transfer initiatives. Instead of waiting for eligible students to visit with up to three different advisement centers to transfer into A&S, we identified these students and accepted them to Biology and A&S in mass. Students were then required to attend a departmental orientation. The session includes presentations from the College, the Department and Career Services. These were offered at several different times throughout a 3-week period. The initial pilot group was 52 students and will increase both in number of students and departments by next year. This builds a teamwork atmosphere and allows advisors to hold “joint” advising seminars where students can get one stop advising for the College and their major. Departmental advisors have been invited to participate on the College Suspension and Probation Committees this year. The College Center continues to host CAPS walk-in labs for both Math and Writing.

Another new endeavor worthy of mention is the College’s collaboration with the newly formed Graduation Express Initiative. The Advising Director sits on the steering committee and has dedicated a full time advisor to this project. Not only has the college contributed to the programmatic improvements to the graduation process but we have also proactively initiated changes within the college to make a measured impact for the current graduating cohort.

VI. College Academic Committees
College of Arts and Sciences Graduate and Undergraduate Committees: These committees were intended to serve in an advisory capacity to the Dean of Arts & Sciences and the Office of Graduate Studies and represent the graduate program interests of the College. During the 2010-11 AY, they were superseded by a suite of Ad-Hoc Committees created by Dean Claiborne that were designed to focus on specific College initiatives. The Ad-Hoc Committee for Student Success became the primary vehicle for College wide discussion of both Graduate and Undergraduate issues. This committee met regularly to advise the Dean on inter-unit collaboration with the Office of Graduate Studies and inter-College coordination of advising initiatives (see above).

College of Arts and Sciences Curriculum Committee: This committee is composed of 6-8 faculty members (at least two each from Natural Sciences/Math, Social Sciences and Humanities) and is chaired by the Associate Dean for Curriculum and Instruction. It is responsible for reviewing all proposed changes in courses and programs of study within the College. The committee met regularly during the year to review changes in individual courses or programs and make recommendations about their acceptability to the Faculty Senate Curriculum Committee. Academic Year 2010-11 was not a particularly busy one for the Curriculum Committee. A new Museum Studies Program was approved and the implementation of the International Studies major was completed.

College Scholarships: The College awards a variety of small scholarships to deserving students each year. In 2010-11, the College of Arts and Sciences received over 100 applications for nine available awards (see below). Applicants are reviewed by the College Scholarship Committee (Deborah Evans; Chair, Laura Crossey, Mark Ondrias, Diane Marshall, Sherman Wilcox, and Charlie Steen). This year we added two new awards. The first is the Fred M. Calkins, Jr. and Rose Ellen Calkins Scholarship. This scholarship award is for outstanding undergraduate resident scholars. The second is the Bruce R Erdal Endowed Scholarship. This award is given to full-time undergraduate students enrolled within the College of Arts and Sciences with combined interests and actively pursues education in both the sciences and the arts. In summary, the College awarded 11 scholarships and
awards totaling over $23,000 for the 2010-11 academic year. The scholarship award recipients for 2010-11 were following:

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Recipient</th>
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</thead>
<tbody>
<tr>
<td>Charles E. Brown and Katherine M. Brown Scholarship</td>
<td>Andre Archuleta</td>
</tr>
<tr>
<td>Fred M. Calkins, Jr. and Rose Ellen Calkins Scholarship</td>
<td>Nicole Thomas</td>
</tr>
<tr>
<td>F.P. Clements Endowed Scholarship</td>
<td>Hannah Wood</td>
</tr>
<tr>
<td>Ralph W. Douglass Memorial Scholarship</td>
<td>Laura Fish</td>
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<tr>
<td>Bruce R Erdal Endowed Scholarship</td>
<td>Gary Ferrell</td>
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<tr>
<td>George A. Kaseman Memorial Scholarship</td>
<td>Nicole Wilson</td>
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<tr>
<td>Nathanial Pitman Weber Endowed Scholarship</td>
<td>Megan Chatterton</td>
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<tr>
<td>Dr. Harry Vanderpool Endowed Scholarship</td>
<td>Jennifer Gammage</td>
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<tr>
<td>Marjorie Yepsen &amp; Carleen F. Farnam Endowed Scholarship</td>
<td>Aaron Wagner</td>
</tr>
<tr>
<td></td>
<td>Vanessa Peake</td>
</tr>
</tbody>
</table>

The College also maintains a Dean’s List to recognize our exceptional students. This list is displayed on the College website. 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. For 2010-11, 1490 students achieved this honor, over 495 of which were recognized in both semesters. Dean’s List students receive a notation on their transcript and an email of appreciation and congratulations signed by the Dean.

VII. Development

Despite an uncertain economy and significant staffing vacancies, the Arts & Sciences Development Team of Jeffrey MacNutt and Yolanda Dominguez had a very successful year securing private funds and pledges totaling 7.75 million dollars, exceeding their goal of 7 million. Significant milestones and accomplishments include:

- A major gift of 1.8 million to fund faculty and student support in Foreign Languages & Literature
- A 1 million dollar bequest top support Political Science
- A bequest to fund Native American Studies
- 50% growth in annual giving
- Development of a planned giving pipeline, identifying top bequest prospects throughout the
nation

- Development of a partnership with University Libraries to share and coordinate development resources
- A working discovery process with Turner Enterprises to collaborate on research opportunities utilizing approximately 1 million acres of privately held ranch and open lands.
- Development of a formal development staffing plan, fundraising strategy, and pipeline improvement process to more effectively allocate time and resources

At the conclusion of the fiscal year, Jeffrey MacNutt was promoted to the vacant Director of Development position. In conjunction with UNM Foundation’s Changing Worlds- A Campaign for UNM, the new Director has developed an aggressive travel and communication outreach program that he will implement college-wide. The goal is to identify fundable initiatives in each department and coordinate effective contact with alumni and friends. By continuing to research, cultivate and make effective proposals to our most qualified prospects, we believe that the development team can continue to increase private support for the college. Having identified a strong administrative coordinator hire, the entire College Development team is looking to drive the campaign forward in 2012.
The faculty in American Studies continues to operate as a committee of the whole in setting policy and implementing its curriculum for undergraduate and graduate students. During the 2010-2011 year, Professor Alex Lubin served as Chair of the Department, Professor Alyosha Goldstein served as Graduate Director, and Professor Rebecca Schreiber served as undergraduate Director.

I. Significant Developments

This fall the Department welcomed Dr. Jennifer Denetdale to the American Studies faculty. Dr. Denetdale is a Diné historian who joined the faculty at the rank of Associate Professor. She will offer courses in Native American history and culture, with a particular focus on Native feminism. The Department began the year for the first time in a long time without the services of Dr. Vera Norwood, who became a retired emeritus professor. Dr. Norwood continued to work for the University as a special assistant in the Office of the VP for Research.

Despite trying economic times that have significantly slowed the pace of new faculty hiring, the Department took part in three academic searches and succeeded in adding two additional FTE (one full time, and two half-time). We were able to fill the Environment, Science, and Technology line made available by Dr. Norwood’s retirement. After a long and detailed national search, the faculty successfully hired Dr. David Correia at the rank of Assistant Professor. Dr. Correia will offer our core course in EST, as well as graduate courses in Environmental Justice. In addition, the Department benefitted from searches taking place in two
related programs. We will share half of the line of Dr. Irene Vasquez, who joins UNM as the Director of Chicano, Hispano, Mexicano Studies at the rank of Associate Professor. In addition, we will share half of the line of Dr. Kathleen Holscher, who will become the endowed Roman Catholic Chair, in the program of Religious Studies. Dr. Holscher will begin her appointment in Fall 2012.

This year the Department continued to develop international initiatives. We, along with the Department of Foreign Languages and Literature, hosted Kebir Mustafa Ammi, a prolific novelist of Moroccan and Algerian descent. Ammi offered American Studies courses on North African politics and on Islam in the West. In addition, with the help of American Studies affiliated faculty, Peter White, the Department began planning discussions on the formation of an international MA program, which will serve as a platform for international students to study American Studies at UNM. We are piloting this program with a summer graduate course, offered by Peter White, at the University of Graz in Austria.

This year the National Research Council (NRC) released long-awaited data on doctoral student rankings. For the first time, American Studies doctoral programs were included in the rankings. There will be ongoing scholarly debate about the utility and accuracy of the rankings. American Studies received the highest ranking, in one measure, of any PhD program at UNM. In one statistical measure we rank fifth in the nation, placing UNM’s program in the top-25% nationally.

In addition to the excellent outcome of the NRC rankings, we also witnessed clear outcomes of our admissions and graduate education mission with the success of many of our graduate students this year. Two American Studies PhDs won the prestigious Ford Foundation Predoctoral Fellowship. Only 40 awards were granted nationally. In addition, American Studies
graduate students found placements in a tenure track job at UNM, a post-doc at the University of Illinois Urbana Champaign, and in staff positions at the University of Florida and Brown University. In addition, one of our graduate students won the outstanding TA of the year award.

While the Department adds new faculty in Fall 2011, it will also have two faculty on leave. Dr. Alex Lubin and Dr. Laura Gómez are each on leave without pay for AY 2011-2012. Dr. Lubin will be in residence at the American University of Beirut in Beirut, Lebanon and Dr. Gómez will be in residence at the UCLA Law School.

As the spring semester came to a close, the Department moved to new office space in the Humanities Building. We will share the renovated fourth floor with the Programs of Women Studies and Religious Studies, as well as the International Studies Institute and the Feminist Research Institute. In moving to the Humanities Building, the Department will gain much needed office space, including workstations for graduate TA’s.

II. Significant Plans and Recommendations for the Near Future

The Department continues to work towards achieving its strategic priorities and goals, including: 1) Recruiting faculty, graduate students, and undergraduates of color; 2) Ensuring that the undergraduate and graduate programs train students in all of the areas that are important to the department and that we continue to build on the success of faculty excellence in research and publishing; 3) Recruit faculty as well as students at every level of the department and increase administrative support staff; 4) Maintain the Department’s faculty staffing levels as well as build on our strength in the areas of Environment, Science, and Technology; 5) Build community within the Department, across campus, and outside of the University.

We continue to work with the College to recruit new faculty, particularly in areas we see as central to the University’s strategic goals. We have submitted a hiring plan asking for two new
faculty; one in the area of popular culture studies and a second in an emerging Departmental research area we are calling the U.S. in the world.

III. Faculty Appointments

The Department hired Dr. David Correia at the rank of Assistant Professor, with specialization in Environment, Science, and Technology. In addition, we hired, two half-time FTE’s: Dr. Irene Vasquez (who will direct Chicano, Hispano, Mexicano Studies), and Dr. Kathleen Holscher, who will serve as Endowed Roman Catholic Studies Chair in the program of Religious Studies.

Dr. Alyosha Goldstein was successfully granted tenure and promotion to the rank of Associate Professor. Dr. Amy Brandzel passed her third year mid-probationary review.

IV. Separations of Faculty

Two faculty (Laura Gómez and Alex Lubin) went on leave without pay, but have not separated from the University.

V. Summary of Faculty Publications, Research, and Service

Dr. Alyosha Goldstein


Dr. Alex Lubin

“Liberation Geographies,” a paper delivered in the Walter Mignolo Symposium, University of New Mexico, 2011

Department Chair, American Studies Department, University of New Mexico

Member, Provost Committee on Academic Priorities

Dr. A. Gabriel Meléndez


Speaker, “Competing Images of Mexican Americans in Cold War Films in the Southwest,” Latino/a Faculty Lecture Series, El Centro de la Raza, University of New Mexico, March 24, 2011.


Co-Organizer (with Gabriel Sánchez), “Navigating Tenure: Challenges for Junior Minority Faculty,” Title V Committee Workshop, University of New Mexico, November, 2010.

Member, Search Committee for CHMS Director (2010-2011)

Member, Chicano/Hispano/Mexicano Studies (CHMS) Advisory Committee (2010-2011)

Member, UNM Diversity Post-Doctoral Awards Committee (August, 2010)

Dr. Rebecca Schreiber

Organized a talk by Professor John Hartigan (UT, Austin) in collaboration with the Anthropology Dept.

Member of Working Group, Latino/a Literary Imagination Conference, a collaborative conference between UNM and Rutgers that will take place in April 2011.
Reviewed manuscript for Rutgers University Press; reviewed article for *Journal of Transnational American Studies*.


Evaluator for New Mexico Humanities Council Grant awarded to 516 Arts, a gallery in Albuquerque, for a symposium related to their show on Counter-culture Artwork.

**Dr. Michael L. Trujillo**


Readings from *Land of Disenchantment*, Hispanics and Education graduate course, University of New Mexico. Albuquerque, NM. (April 2011).

Organizer and Participant, “Decoloniality and the Southwest: A Workshop with Walter Mignolo,” Sponsored by the Southwest Hispanic Research Institute, Division of Student Affairs, American Studies, Institute for American Indian Research, and Anthropology.

Keynote Panel, University of New Mexico Anthropology Graduate Student Union. Annual Research Symposium. University of New Mexico. Albuquerque, NM.


2010 Readings from *Land of Disenchantment*. National Hispanic Cultural Center. Albuquerque, NM.


Reading from *Land of Disenchantment*. El Centro de la Raza, University of New Mexico. Albuquerque, NM.


Discussion of *Land of Disenchantment*. Anthropology of the Southwest undergraduate course, University of New Mexico. Albuquerque, NM.

Invited Lecture, “Qualitative Research Methods.” McNair Program, University of New Mexico. Albuquerque, NM.


Gerald Vizenor


"Writing the Constitution of the White Earth Nation," Keynote Lecture, New York University, April 2011.


"Native American Literature: Survivance and Victimry," Keynote Lecture, Departamento De Filologia Inglesa, Universidad de Salamanca, Salamanca, Spain, March 2011.


"Creative and Narrative Writing," lecture and discussion, *New York State Writers Institute*,
Albany, New York, November 2010.


"Survivance in Native American Literature,” Keynote Lecture, United States Department of State, International Summer Institute of Contemporary American Literature, Santa Fe, New Mexico, July 2010.


"Native Survivance,” Keynote Lecture, New Sun Conference, Carleton University, Ottawa, Ontario, Canada, February 2010.

"Native Literature and Art,” lecture and discussion with Robert Houle, Trent University, Peterborough, Ontario, Canada, February 2010.


The Bancroft Library, University of California, Berkeley, manuscripts, letters, and other literary material acquired for the Rare Books and Manuscripts Collection, 2008 through 2010.

Elected Member, Executive Council, Minnesota State Historical Society, Saint Paul, Minnesota, November 2011.

Native Traces, Series Editor with Deborah Madsen, State University of New York Press.

Native Storiers: A Series of American Narratives, Series Editor with Diane Glancy, University of Nebraska Press.

Faculty Review Committee, Professor Promotion Committee, College of Arts and Sciences, University of New Mexico, 2011.

Distinguished Professor Review Committee, College of Arts and Sciences, University of New Mexico, April 2011.
DEPARTMENT OF ANTHROPOLOGY

College of Arts and Sciences

University of New Mexico

ANNUAL REPORT

JULY 1, 2010-JUNE 30, 2011

Prepared by:
Jennifer George
Department Administrator and
Michael Graves, Department Chair

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Anthropology is the most inclusive discipline in the arts and sciences encompassing the breadth of interests studied in the humanities, social and natural sciences. The field is a microcosm of disciplinary diversity encompassing much of the human experience. Anthropologists do this by virtue of the long time depth (in the millions of years), geographic span (the entire planet), and variety of peoples and environments studied.

The three subfields of Archaeology, Ethnology, and Evolutionary Anthropology provide the organizational structure by which Anthropology's breadth is expressed at the University of New Mexico. UNM Anthropologists share a common goal of assessing and refining ideas about human culture and biology in view of their roles within the discipline.

Simultaneously, these subfields encompass a variety of perspectives and methods through which the lens of culture is applied to human diversity and change in the past, present and future. This diversity strengthens the discipline providing anthropologists with several different frameworks for their studies. The Department shares a tradition of empirically based field and laboratory work across Archaeology, Ethnology, and Evolutionary Anthropology that enlivens research, reinforces commitments to diversity, and provides opportunities for students to learn in realistic settings.

The Department's subfields have identified a set of theories and methods by which its faculty will prepare students to assume their duties as citizens and to pursue professional careers. These include, among others, political economy, evolutionary, historical ecology, and critical theory approaches to anthropological data. Each subfield faculty has identified core issues and topics within which they will concentrate their efforts. There are also a number of points of articulation across the subfields (and with other disciplines) where, for the purposes of student training and faculty research, the Department will seek to reinforce studies and potential collaborations. Areas of overlap include advancing public anthropology through the Alfonso Ortiz Center; describing the interactions of land use and water and resource distributions on human communities and natural environments; studying bio-cultural evolutionary outcomes involved in different economic, social, and demographic conditions; and furthering the understanding of the transmission and expression of culture through art, music, craft, tradition, and performance. Anthropology at UNM makes good use of its geographic location—in the culturally diverse American Southwest and near an international border—to concentrate on the indigenous and Hispanic cultures of the Americas and Europe, plus areas of the Pacific and Africa.
Variety and breadth of approaches, focus and emphasis on key topics, a critical examination of
the human condition past, present, and future, and regional strengths, define the characteristics of
Anthropology at the University of New Mexico. These constitute a collective and dynamic vision
that embraces diversity.

**DEPARTMENT ACTIVITY BY SUBFIELD**

**Subfields**

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

**Archaeology**

**Focus** Archaeology at UNM is a national and international leader in archeological theory and
practice. Archaeology's mission is to build on existing strengths, which include unusual depth
and breadth of faculty, all of whom have active, funded projects involving student researchers in
the Americas, Western Europe, and in the Pacific.

**Strengths** Archaeologists contribute to the comparative study of agriculturally based societies
and of the development of both early and more recent complex societies, often in fragile physical
environments in both the New and Old Worlds and including consequential questions of culture
contact. UNM Archaeology is known for its research on prehistoric foraging systems including
colonization and subsequent cultural changes under both Pleistocene and early to late Holocene
environmental conditions. All archaeologists are involved in on-going research on human
interactions with diverse environments and adaptations to change, both cultural and non-cultural.
The Archaeology program includes cutting edge field techniques and laboratory analyses.
Students receive training in historical and evolutionary ecology; lithic and ceramic technology;
archaeological unit definition and construction; interpretation of prehistoric style and identity;
paleo-environmental reconstruction; and the study of past belief systems.

**Educational Programs** Undergraduates in Archaeology are taught broadly in theory, method,
and the archaeological records of various world culture areas, and are afforded the opportunity to
participate in research through our field schools, laboratories, and other research sites in New
Mexico and elsewhere. The graduate program provides intensive education in archaeological
theory and training in the methods of field and laboratory research.

**Articulation** Archaeology is committed to linking its focus, strengths, and educational
objectives with both Ethnology and Evolutionary Anthropology. Some points of intra-
departmental articulation include contemporary and historical studies of: the political economy
and challenges faced by societies and peoples of the Greater Southwest, as well as Latin America
and Iberia; behavioral strategies among foraging groups and cross-disciplinary paleo-
anthropology; behavioral and evolutionary ecology applications; public and community anthropology; and the material expression of cultural identity and transmission.

The Archaeology program has major areas of cross-disciplinary collaboration, including research and teaching with geologists, geospatial analysts, biologists, paleo-ecologists, soil scientists, demographers, modelers, and material scientists, at UNM and other institutions worldwide.

Faculty
The Archaeology faculty consists of 9 regular faculty members: 2 distinguished professors (Crown, Straus), 4 full professors (Boone, Dixon, Graves, and Wills), and 2 associate professors (Hayashida, Prufer). There are 4 participating research faculty from the Maxwell Museum (Chapman, Hogan, Huckell, Phillips).

Research and Outreach Projects
UNM/Chaco Project (New Mexico)
Patricia Crown and Wirt Wills ran the Chaco Research Semester in Fall 2010 with 8 undergraduate and 4 graduate students excavating at the Wetherill Homestead historic site next to Pueblo Bonito. With funding from the National Park Service, Wills and three graduate students conducted site survey from May 24-June 18, 2011. Crown and Wills are writing a three volume report on the excavations of the Pueblo Bonito trash mounds conducted with funding from NSF.

Cacao Exchange in the American Southwest (New Mexico)
Patricia Crown and her collaborator (Dr. Jeffrey Hurst of the Hershey Corporation) received funding from the National Science Foundation. The funding supported an Anthropology Graduate Student, Ellen Sieg for one year. Crown spent much of her research time writing proposals to museums to obtain samples for the study, overseeing the preparation of samples for analysis, and coordinating the analysis of samples at a lab in Mississippi.

Ice Patch Archeology (Alaska)
James Dixon received two grants for his ongoing research in central Alaska: one each from the National Science Foundation for “Ice Patch Archeology” and from the National Park Service for “Lake Clark Ice Patch Archeology”. These grants support 4 Anthropology PhD students: Kelley Monteleone, Michael Grooms, Nicholas Jarman, and Mark Williams. Dixon, Jarman, Grooms, and Martin Callanan (Norwegian University of Science and Technology), and local community members participated in the fieldwork. This research contributes to better understanding high latitude/altitude cultural adaptations and climate change.

Ynalche Archeological Project (Peru)
With support from the National Science Foundation, Frances Hayashida continued analyses of material collected by the Ynalche Archaeological Project (north coast of Peru) with collaborators at the Universidad Peruana Cayetano Heredia, Technische Universitat Munchen, Arizona State University and the Universities of Missouri, South Carolina, Arizona and Washington. Working with researchers at the University of Missouri and the University of Michigan, and with the
assistance of a graduate student from UNM, she also began the analysis of paleoethnobotanical remains excavated from sites in the Chilca Valley on Peru's central coast.

**Coronado National Memorial (Arizona)**
Bruce Huckell and four UNM graduate students conducted archaeological survey and assessment at several Archaic and historic sites within Coronado National Memorial in southeastern Arizona. The fieldwork took place in September of 2010, and January and May of 2011, with the goals of revisiting known sites, identifying new ones, and assessing the impacts of illegal border activities such as undocumented alien traffic on them.

**UNM Southwest Archaeological Field School (New Mexico)**
Bruce Huckell directed the UNM Archeological Field School at two sites: Los Gavilanes, a Cody complex site on Albuquerque’s West Mesa and the Martin site, a Folsom camp in the Estancia Basin near Moriarty. The work consisted of 5 weeks of excavations and survey, funded by UNM and student fees. This involved 11 UNM students and a full-time volunteer.

**Beach Clovis Cache (North Dakota)**
Bruce Huckell directed two weeks of investigations at the Beach Clovis Cache in North Dakota, including geophysical prospection and limited excavation. The work was funded by the Maxwell Museum.

**Uxbenka Archaeological Project (Belize)**
Keith Prufer directed 3.5 months of field work at the Uxbenka Maya site in Belize, supported by the National Science Foundation and the Alphawood Foundation. Research involved four UNM graduate students as well as PhD students (including two UNM alumni) from the University of Oregon, Stanford University, and Texas A&M. In 2011 100 km² of prehistoric settlement was mapped using aerial LiDAR (Light Detection and Ranging) to aid in modeling the evolution of the physical and cultural landscape. This was done in collaboration with the NSF group NCALM (National Center for Airborne Laser Mapping). Ongoing analytical research, including detailed paleoclimate reconstruction, involves collaboration with UNM-EPS faculty (radiogenic isotope lab, NSF co-PI Y. Asmerom), the Swiss Federal Technical Institute (climate geology), Durham University, UK (climate geology), the University of Oregon (Archaeometry Facility), Pennsylvania State University (Institutes of Energy and the Environment), the University of California, Davis (Graduate Group in Ecology) the University of California, Irvine (Keck AMS Facility), the University of Houston (NCALM), and Bruckner Scientific.

**El Miron Cave (Cantabria, Spain)**
Lawrence Straus, together with his Spanish co-director, completed their 15th season of excavations in El Miron Cave (Cantabria, Spain), excavating in Mousterian, Gravettian, Solutrean and Lower Magdalenian levels ¹⁴C-dated between 41,000 and 15,500 BP. In the latter they recovered more bones from the first human burial of the Magdalenian period ever to have been found in the Iberian Peninsula. Remains were sampled by Svante Paabo of the Max Planck Institute for Evolutionary Studies (Leipzig, Germany) for DNA & stable isotope analyses, and AMS C14 dating. The research was funded this year by the L.S.B.Leakey Foundation and the Regional Government of Cantabria and involved 2 UNM graduate students and 1 undergraduate,
as well as students from Canada and several Spanish universities. Analyses of materials from the site are underway in labs throughout Europe, as well as at UNM and the University of Georgia.

_Hawaii Archaeological Research Project (Kohala, Hawai'i Island)_
Michael Graves continued his National Endowment for the Humanities funded research project in the District of Kohala on Hawai'i Island. This work involves the integration of remote sensing, survey and mapping, and excavations of irrigated agricultural features in the smaller valleys and ridge tops in the eastern portion of the District. In August, Graves was joined by four graduate students from UNM for a fieldwork program focused on the area of the eastern gulches of windward Kohala.

**PhD Alumni Professional Appointments**
- Richards-Rissetto, Heather, PhD 2010, Post-doctoral Research Associate, HUMlab and Department of Historical, Philosophical and Religious Studies, Umeå University, Umeå, Sweden
- Schleher, Kari L, PhD 2010, Senior Laboratory Manager, Crow Canyon Archaeological Center, Cortez, CO
- Hamilton, Marcus, PhD 2008, Post Doctoral Fellow, Program for Interdisciplinary Biological and Biomedical Sciences, Department of Biology, University of New Mexico, Albuquerque, and Santa Fe Institute, Santa Fe, NM
- Stone, Elizabeth Ann, PhD 2011, Visiting Professor, Departamento de Antropología, Universidad de las Americas, Cholula, Puebla, Mexico
- Michael Petraglia, PhD 1987, Promoted to Professor of Human Evolution and Prehistory, School of Archaeology, University of Oxford, Oxford, UK

**Ethnology**

*Focus* The Ethnology Program supports inquiry into sociocultural perspectives, the anthropology of language, and public anthropology. Key interests include art and visual culture, cultural revitalization, historical consciousness, language and communication, politics of identity, ritual, and tourism. There is a focus on cultural resurgence and globalization in the Americas, primarily the US Southwest and Latin America.

*Strengths* Ethnological studies, which emphasize working with participant communities, include: the transformation of cultural and linguistic heritages; identities (racial, ethnic, indigenous, religious, and gendered); inequalities and the social movements that address them (indigenous rights, human rights, democracy movements, access to health and legal rights); land, water and the politics of place; narrative and memory; expressive culture and cultural poetics; and media and representation.

*Educational Programs* Ethnology offers a broad liberal arts education in the understanding and appreciation of human cultural and linguistic diversity with regional strengths in the Americas,
especially the Southwest and Latin America. Graduate and undergraduate students build a foundation for careers in a global, transnational world. Their training at all levels (BA through PhD) prepares them to research issues that confront local, national and international communities and governing bodies with respect to conflict, identity, inequality, development and cultural representation. It emphasizes rigorous and theoretically diverse approaches to sociocultural phenomena, the development of strong writing skills, and the use of a broad range of research methods including interviewing, life-history, video and photographic documentation, and participant observation.

**Articulation** Ethnology’s areas of specialization set the anthropological agenda for larger disciplinary conversations about ethnicity and race, health, the use of resources, systems of inequality, culture history, and the material manifestations of expressive culture. Work in the US Southwest and Latin America complements that of the Archaeology subfield, particularly with respect to the study and analysis of material culture, ritual theory, sociocultural theory, place and space, intellectual and cultural property rights, cultural resource management, and the representation of indigenous peoples in media, museum and public culture. Ethnology, Archaeology and Evolutionary Anthropology also share a focus on human knowledge and management of ecology and environment through history and cross-culturally as well as the dynamically changing manifestations of human diversity.

**Retirement and Re-building**

The subfield saw the retirement of Dr. Marta Weigle, former Department Chair, and longtime subfield convener at the end of Spring classes 2011. Her retirement was the latest in a series marking a dramatic generational turnover in the subfield. Rebuilding was underway even as she retired. Dr. Erin Debenport began a tenure track position in fall of 2010. Another search begun in fall of 2010 did not result in a new permanent appointment. Rather, the Department appointed Dr. Christobal Valencia-Ramirez to the position of Visiting Assistant Professor. The search will resume in the Fall of 2011 for a permanent appointment.

**International Workshops**


- “Autobiographical and Biographical Narratives In Lowland South America: Unexpected Relations Between Persons, Language, And History.” Suzanne Oakdale and Magnus Course, Co-Organizers. Workshop held September 2010 at the University of Edinburgh. Wenner-Gren Foundation International Workshop; British Academy Small Research Grant.

**Field School**

- “Technologies of Settler-Colonialism in Israel-Palestine.” Field school organized by Les Field and Alex Lubin and co-sponsored by the Department of Anthropology and the Department of American Studies, May 15-29, 2011.
Ph.D. Alumni Professional Appointments

- Adler, Kristen, PhD, 2011, Assistant Professor, Cultural Anthropology, Antioch College, Yellow Springs, OH
- Ahlberg Yohe, Jill, PhD 2008, Mellon Fellow, St. Louis Art Museum, St. Louis, MO
- Coffee-Kellet, Nicole, PhD, 2009, Assistant Professor, Department of Anthropology and Sociology, University of Maine, Farmington, ME
- Jolie, Ruth, PhD 2010, Assistant Professor, Archaeological Institute, Mercyhurst College, Erie, PA
- Ramirez de Arellano Pagan, Adriana, PhD 2009, Post-doctoral Fellow, UNM-Mellon Foundation Program, University of New Mexico, Albuquerque, NM
- Laverty, Philip, PhD 2010, Tribal Historian, Ohlone Costanoan Esselen Nation, Monterey, CA

Evolutionary Anthropology

Focus Evolutionary Anthropology at UNM takes a broad, synthetic approach to understanding the interrelated effects of human biology and behavior in an evolutionary and cultural framework. Because of this perspective, faculty members are recognized for their research nationally and internationally and the program is highly competitive in attracting and placing graduate students. Evolutionary Anthropology faculty make use of systematic comparisons of the behavior, physiology, anatomy and genetics of great apes, human ancestors and living humans (with an emphasis on modern foragers and small scale societies) in order to understand the process of human evolution and the specific selection pressures that shaped the unique traits that characterize our species.

Educational Program Evolutionary Anthropology offers an educational experience recognized for its high quality, serving the needs of a general education curriculum, anthropology concentrators and graduate education. Faculty employ novel teaching methods and technologies to help students understand how and why anthropologists apply an evolutionary perspective to study the nature, causes and implications of human biological variation. Training prepares students for citizenship today with the ability to analyze the complex nature of global, national and local issues. It also provides knowledge of theory, data and methods in evolutionary anthropology to facilitate entry into graduate school or NGO employment in development, health, and social programs.

The Evolutionary Anthropology graduate program provides an in-depth education in the theory, methods and data used to test hypotheses about the nature, evolutionary causes, and scientific and social implications of human biological and behavioral variation. Areas of specialization include human behavioral ecology, life history theory, non-human primate behavior, paleo-anthropology, human biology and genetic anthropology. The Evolutionary Anthropology graduate program is uniquely configured with a focus on theoretical models based on evolutionary theory, testable predictions using empirical data sets, and high level training in
skills. Faculty members place high priority in teaching each student a professional-level configuration of skills that is identified as most appropriate for the chosen dissertation project and career trajectory; such as analytic design and data analysis, endocrinology, or analysis of genetic, isotopic, geological or skeletal data.

Articulation Evolutionary Anthropology has a strong relationship with several archaeology faculty members whose research is informed by human behavioral ecology. These archaeologists are informally affiliated and collaborate in graduate training and research projects. The recent establishment of the Center for Human Evolutionary Science (CHES) formalizes a collaboration that has been in place for the last decade among Evolutionary Anthropology faculty and members of Biology and Psychology on the evolution of human behavior including shared curricula and graduate students. Current activity is focused on obtaining a training grant that would support graduate students, post doctoral fellows and research initiatives of new faculty. Evolutionary Anthropology shares with Ethnology a focus on the global problems of the 21st Century: fertility and population growth, limits on energy and food supply, global epidemics and modern, aging and degenerative diseases, intergroup conflict and genocide, and environmental protection and regeneration. Such global issues are complex problems requiring multiple approaches and interdisciplinary collaborative research. Promising collaborations include evolutionary medicine, public health and medical anthropology.

Extended University
Evolutionary Anthropology has enthusiastically embraced the concept of the Extended University as an adjunct to our on-campus teachings. These EU courses are mirrors of key courses already taught regularly on campus and taught by the same instructors. The EU offerings provide two services. The first is to offer the core of a minor concentration in Evolutionary Anthropology to students living too far from the University to commute. The second is to provide electives for students taking the major part of their training on campus but providing them the option of a course online so that they can reduce the number of days commuting to campus. So far we have presented three regular semesters and two summer sessions of EU courses. Our offerings include two introductory 100 level courses each semester (Evolution and Human Emergence, Human Life Course) and two more advanced 300 level courses each year (Human Biology, Human Behavioral Ecology). We also offer two electives (Forensics, Human Adolescence). Our experience with the Extended University has been very positive. We are teaching students we have not been reaching before without any loss in our regular enrollments. EU also has provided us with more, large enrollment sections where our graduate students can find employment and teaching experience.

Faculty
Evolutionary Anthropology was established as subfield in UNM's Department of Anthropology in 2008 and was formed by joining the faculty of Biological Anthropology with Human Evolutionary Ecology. The subfield has a total of nine participating faculty, including three full professors (Kaplan, Lancaster, Long), three associate professors (Hunley, Muller, Pearson) and two assistant professors (Edgar, Nelson) as well as one research assistant professor (Emery Thompson). Edgar who had been a research assistant professor joined the Department as a regular tenure track appointee in 2010.
Research

Cultural and Biological Significance of Ethnic Substructure in New Mexican Hispanics (New Mexico)
This project, which was initially funded by a UNM RAC grant and then by the NSF in AY 2009, is a collaborative effort between two subfield faculty, Keith Hunley and Heather Edgar. The research represents a first step in understanding the relationships between genetics, morphology and culture in New Mexicans of Spanish-speaking descent. The grant supports one undergraduate and two graduate students. To date, they have enrolled 300 participants. They are currently developing two related collaborative studies, one to study reactions to genetic ancestry testing, and a second to identify genetic polymorphism that may be associated with diabetes.

Computational Genetics Research Laboratory.
This laboratory, directed by Dr. Jeff Long, is a 300 sq. ft. lab equipped with four well-equipped PC computers, and a phased purchase plan for more computers. There is direct intranet access for data transfer and storage. The machines run Windows 64 and one machine boots with Linux. There is software for word processing, data bases, programming languages, statistics, graphics, and DNA sequence analysis.

The Hominoid Reproductive Ecology Laboratory, University of New Mexico
The Hominoid Reproductive Ecology Laboratory was established in 2008 with co-directors Drs. Martin Muller and Melissa Emery Thompson. The laboratory focuses on analysis of biomarkers of stress, reproductive function, and health, and has a particular emphasis on non-invasive methods and comparisons across hominoid species. Our central work concerns the endocrinology of wild chimpanzees in the Kibale National Park in Uganda, a project for which we are currently funded by the Leakey Foundation and the National Science Foundation for studies of social and energetic stress. We are also working under a second National Science Foundation grant to study the energetics of reproduction in several populations of wild orangutans. Our laboratory has initiated a long-term NIH-funded collaboration with Dr. Hillard Kaplan to monitor health and immune function over the life course in Tsimane hunter-gatherers of Bolivia. During the year, we participated in several collaborative projects with Dr. Vladas Griskevicius (U. Minnesota) examining the physiological correlates of consumer behavior, with PhD candidate Grainne McCabe (UTSA) on the effects of maternal energetic on infant mortality, and with PhD candidate Angela Garbin (USC) on adolescent chimpanzee physiology. The lab is also a resource for graduate and undergraduate student training in laboratory methods. Graduate students Megan Workman, Louis Alvarado, and Erin Fitzgerald, and undergraduates Kamden Cornell, Jayda Patterson, and Danielle Boudreau received training in laboratory methods for thesis research or independent study coursework.

The Kibale Chimpanzee Project (Uganda)
This project is a long-term study (23+ years) focusing on the behavioral ecology and health of wild chimpanzees in the Kanyawara community of Kibale National Park, Uganda. Dr. Martin Muller is co-director of KCP, and Dr. Melissa Emery Thompson is a senior researcher with the project. KCP is currently funded by grants to UNM from the LSB Leakey Foundation and the
US National Science Foundation. KCP provides opportunities for UNM graduate students to conduct summer projects or dissertation research at an established research camp. Students can also supplement their own research with long-term data from the project.

Orthodontic Web-Based Archive (United States)
The recently completed J.K. Economides Orthodontic case file is now available to researchers. The web-based portion of the collection can be searched at http://hsc.unm.edu/programs/ocfs and provides researchers in anthropology, dentistry, and growth and development with free, instant access to an invaluable research tool. Development and management of the collection was funded by a grant from the National Library of Medicine (Heather Edgar, P.I.) Several papers have already been published or are in press that report on the research that went into developing this resource, and several researchers are already making use of it for original work.

Paleoecology Laboratory
This laboratory, directed by Dr. Sherry Nelson, focuses on reconstructing paleoecologies and paleoclimates for fossil apes and hominids. During the year, the lab involved three undergraduates in independent research, including an honor’s thesis. The undergraduates involved received numerous awards for their research efforts, including an Anthropology Honors Grant, John M. Campbell Research Grant, Archeological Society of New Mexico Research Award, two Sigma Xi Undergraduate Research awards/grants, and the New Mexico Geological Survey Lucille H. Pipkin Undergraduate Research Award, as well as first place presentation awards at the Anthropology Graduate Symposium and UNM Science and Research Conference, and a presentation at the professional meetings of the Society of Vertebrate Paleontology. The lab also engaged in collaborative research on isotopic analyses of New Mexico mummy remains with Dr. Heather Edgar in UNM Anthropology Osteology Laboratory and Maxwell Museum. The mummy research involved five graduate students, one of whom presented results at the professional meeting of the American Association of Physical Anthropologists. Collaborations outside of UNM this year included paleoecological reconstructions for Oreopithecus, the last ape found in Europe, with a colleague at the University of Florence, Italy; paleoecological reconstructions for a German Miocene locality with colleagues at Howard University; and isotopic analyses of chimpanzee fruits with colleagues at Harvard University.

Tsimane Research Project (Bolivia)
Dr. Hillard Kaplan continued his research in Bolivia with a bridge grant to continue the Tsimane Research project. With Co-PI, Michael Gurven, former UNM graduate and Associate Professor at UCSB, he has obtained a new five-year grant from the NIA to continue the Tsimane research. Four new proposals to develop new laboratory methods, to conduct research on cardiovascular disease, and to conduct research training in Bolivia have also been submitted this fall. The Tsimane research has already produced four dissertations (three from UNM) with four more to follow this coming year.

The Primate Enrichment Program, Rio Grande Zoo, Albuquerque (New Mexico)
This program was founded by Dr. Tanya Mueller and has been in existence since December of 2002. Initially designed to provide enrichment to all of the primates at the zoo, including ape species (Gorillas, Chimpanzees, Orangutans, and Siamangs) as well as monkey species (multiple
species of Tamarins, Spider Monkeys, Capuchin Monkeys, Howler Monkeys, Wolf's Guenons, DeBrazza's Monkeys, and several species of Lorises), the program has now grown to include Cats and Carnivores, Polar Bears, and singly housed bird species (including Parrots, Cockatoos, Crows, Ravens, and Macaws). In addition to providing valuable cognitive stimulation to these species, the program has also provided quantifiable data on how the enrichment program has benefited the animals. For example, the polar bears had over 150 hours of baseline data collected before the program began providing enrichment for them. During this time stereotypical behaviors occupied more than 40% of their activity budget. The implementation of enrichment has dropped these undesirable behaviors down to less than 15% of their activity budget, while increasing investigative and play behaviors. A similar approach took place this past summer with the seals and sea lions, with enrichment scheduled to start in the fall. Additionally, the program has led to full time employment with the zoo for four of the students that volunteered with the program.

PhD Alumni Professional Appointments
• Steiglitz, John, PhD 2009, Post-Doctoral Fellow, Department of Anthropology, University of New Mexico, Albuquerque, NM
• Gurven, Michael, PhD 2000, promoted to Full Professor, Department of Anthropology, University of California, Santa Barbara, CA
• Rucas, Stacey, PhD 2004, promoted to Associate Professor, California Polytechnic State University, San Luis Obispo, CA
• Daneshvari, Shamsi, PhD 2011, Biomedical Informatics Fellow, Health Sciences Library and Informatics Center, University of New Mexico, Albuquerque NM
• Potter, Wendy, PhD 2010, Post-Doctoral Research Associate, Forensics and Investigative Genetics, University of North Texas, Denton, TX
• East, Anna, PhD 2008, Assistant Professor, Department of Math, Science, and Engineering, Central New Mexico Community College, Albuquerque, NM
• Peterson, Timothy, PhD 2010, Research Coordinator, Department of Anesthesiology, Health Sciences, University of New Mexico, Albuquerque, NM
• Wilbur, Alicia, PhD 2005, Appointed as Research Scientist, National Primate Research Center, University of Washington, Seattle, WA

Department Committees

Graduate: The committee oversees all graduate student matters, including curriculum, scheduling, allocation of GA/TA/RAships and Department-wide scholarships and fellowships, outcomes assessment and nominations for various UNM scholarships and awards. The Coordinator of Graduate Program Advisement is also a committee member.

Undergraduate: The committee oversees all undergraduate matters, including curriculum, scheduling, 101, outcomes assessment and advising. The Coordinator of Undergraduate Education Support is also a committee member.
Resources Committee: The committee meets annually in the Fall semester and periodically as needed to coordinate and oversee all matters related to the instructional use of computers, media, renewable and permanent laboratory supplies, and field equipment. It maintains an inventory of current resources and reviews and makes recommendations on all equipment expenditures (laboratory, computer, field, etc.). The committee coordinates and oversees all matters related to the allocation and use of space. It makes recommendations on office and laboratory use and prepares proposals for minor and major capital improvements. In consultation with the Graduate and Undergraduate Committees, the Instructional Resources Committee develops a comprehensive, visionary, long- and short-term plan for instructional programs. This plan helps inform Department grants, equipment requests, policy and future directions. The Department Administrator and the User Support Analyst II are also committee members.

Post-Tenure and Salary Review: Three senior faculty members evaluate and rank each tenure-track faculty member's calendar-year record of teaching, scholarly work and service for the Chair's use in post-tenure reviews and salary decisions. The Department adopted a "Merit/Productivity Scoring System" in October 1994 and this has been modified at various times since. Post-tenure review was instituted in 1996-97. Before 2007 the Post Tenure Faculty Evaluation Committee was elected by the faculty. Membership now rotates with one person appointed and one dropped each year.

Annual Review, Mid-Probationary Review, Tenure and/or Promotion Review: These committees are appointed annually or periodically as appropriate.

Non-Tenure-Track Faculty Review: Three tenured faculty members conduct annual, academic-year reviews of each continuing non-tenure-track faculty member (Lecturer III, Research, Adjunct) for the Chair's use. The Associate/Assistant Chair chairs the committee.

Student Committees

Anthropology Graduate Student Union (AGSU): AGSU represents the Department's graduate students in the Department and on campus in order to promote their academic, professional and social interests. It meets monthly as needed. There is representation from AGSU at faculty meetings, on some faculty review and hiring committees, and in the University-wide Graduate and Professional Student Association (GPSA), an independent service organization established in 1969 to serve all part-time and full-time graduate students. The GPSA budget comes from student fees. It supports various campus organizations and through its Student Research Allocation Committee (SRAC) funds student research projects (thesis and dissertation) and travel to research-associate conferences.

2011 AGSU Symposium
The University of New Mexico's Anthropology Graduate Student Union held its 15th annual Graduate Research Symposium on February 25-26, 2011. The symposium was advertised across disciplines at UNM, and both undergraduate and graduate students from the University Honors Program, History, English, and Biology participated as well as students from all subfields of the Anthropology program. The symposium started Thursday evening with the
Kennedy Award Lecture titled *Effects of Genetic Ancestry and Sociocultural Factors on Active Tuberculosis Susceptibility in a Northeastern Mexican Population* by Bonnie Young (Evolutionary Anthropology). Friday evening began with the Butler Award Lecture by UNM Anthropology PhD Candidate Kelly Monteleone (Archaeology) entitled *Lost Worlds: Locating Submerged Archaeological Sites in Southeastern Alaska* and was followed by the undergraduate and graduate student poster presentation. Saturday morning began with a poster presentation session from 9-11 am. Following the poster presentations, Elise Trott presented the New Mexico Folklore Lecture entitled *Representing Tradition and Reclaiming Locality: Acequia Identities and Activism*. In the afternoon, there was a keynote panel discussion moderated by Dr. Erin Debenport. Graduate student research presentations took place throughout the day and evening. The evening closed with a dinner reception in the Hibben Center foyer.

**Undergraduate Anthropology Society (UAS):** UAS is open to all students regardless of concentration. Students join by being added to the UAS e-mail list. Its purpose is to promote the study, appreciation and advancement of anthropology as the science that studies humankind in all of its aspects and to foster the use of anthropological knowledge in addressing human problems and conditions. UAS encourages a multidiscipline academic approach as well as involvement in the campus and surrounding communities.

**Hibben Allocation Committee**

Since 2004 the Frank C. Hibben Charitable Trust has donated over $1,150,000 to UNM in support of Anthropology and Native American Students in the Department, the Museum and the College of Arts and Sciences. The Hibben Allocation Committee is chaired by the Museum Director with the Department Chair, the Dean (or designee), the Provost/Vice President for Academic Affairs (or designee) and the President (or designee) as members. The committee makes recommendations to the Trust each year on the following year’s funding level and distribution for graduate student support in Anthropology. Recipients are designated annually by the Hibben Selection Committee, the Graduate Committee and one representative from the Museum appointed by the Director.

**Joint Standing Committees**

**Board of Archaeologists:** The Board of Archaeologists is made up of Archaeology subfield faculty, the director and associate director of the Office of Contract Archeology, and the director and archaeological curators of the Maxwell Museum of Anthropology. Constituted by UNM President William E. Davis in 1979, the Board is authorized to represent the University in implementing and enforcing policy governing archaeological research on University lands in order to assure that University cultural resources are utilized in the most conservative and productive manner possible and to insure that information and data recovered from University cultural resources are preserved for future research. It is also charged to play a helpful role in furthering the quality of archaeological research and to make recommendations concerning permission to conduct archaeological research on University lands. The most prominent University-owned archaeological properties include the Kuaua Site presently administered by...
New Mexico State Monuments as the Coronado Monument, the Paa-ko Site (LA 162), and the Pottery Mound Site (LA 416). Until recently the University also owned the 9550-acre Cañada de Cochiti Grant, commonly known as the Jim Young Ranch tract, which contains over a thousand prehistoric and historical archaeological sites.

**Clark Field Archive & Library (CFAL) Policy Committee:** The Clark Field Archive & Library is housed in the Anthropology Building and jointly operated by the Department, Maxwell Museum and the Maxwell Museum Association (MMA) with oversight by the Policy Committee, which has representation from each of the three units. Almost all of its collections of about 12,000 books and over 25 active journal titles have been donated, with the exception of most of the journal subscriptions which are supported by the MMA and proceeds from the annual book fair. CFAL houses a complete collection of Department doctoral dissertations and masters’ theses, and an extensive collection of reprints. About half of these collections are unique on the UNM campus; the books and journals are catalogued on Libros, UNM’s computerized system. It also serves as a repository for field notes and records that have been donated to the Museum by faculty and associates. The main source of CFAL funding is the MMA’s annual Albuquerque Antiquarian Book Fair, the oldest and largest such event in the state, usually held during the first full weekend in April.

**Convocation**

The 13th Annual Departmental Convocation took place on Saturday, May 14, 2011 in Anthropology Lecture Hall 163 at 1:00 pm. Convocation was hosted by Dr. Michael Graves, Chair. Our special guest speaker was Dr. Louise Lamphere, Distinguished Professor Emerita of the UNM Department of Anthropology. Dr. Les Field presented the Bachelor of Arts and Bachelor of Science degrees, while Dr. Suzanne Oakdale 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 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**

**Endowments**

Endowments for Anthropology at the UNM Foundation grew in 2010-11 both the result of improvements in investments and the establishment of new endowments. The Ann Ramenofsky Undergraduate Honors Scholarship was established in 2010 made its first spending distribution this year. The A. Maxine Graves Undergraduate Endowment has grown to over $8,000. The Department received a new endowment, the Harvey and Sarah Moore Graduate Student Endowment, funded at $300,000. With the new Moore Endowment, Anthropology’s total will 2012 should be more than $1,700,000. In addition to UNM Foundation Endowment activity, the Department is supported by regular or annual gifts from the Hibben Trust (in support of graduate students) and the Alphawood Foundation (in support of archaeological fieldwork in Belize).
Anthropology Endowments, UNM Foundation

<table>
<thead>
<tr>
<th>Scholarship/Endowment</th>
<th>7/1/2010</th>
<th>6/30/2011</th>
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<tbody>
<tr>
<td>A. Maxine Graves Undergraduate Scholarship (funding under development)</td>
<td>$4,000</td>
<td>$8,297</td>
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<tr>
<td>Alfonso Ortiz Center Fund</td>
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<tr>
<td>Alfonso Ortiz Center Fund</td>
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<td>Ann Ramenofsky Scholarship</td>
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<td>Anthropology Graduate Student Support</td>
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<td>Barbara MacCaulley Scholarship</td>
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<td>Frieda Butler Scholarship</td>
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<td>Karl Schwerin Fellowship</td>
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<td>NM Folklore Scholarship (shared with English)</td>
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<td>Snead/Wertheim Lectureship (shared with History)</td>
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<td>Snead/Wertheim Lectureship Match</td>
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<tr>
<td>Harvey and Sarah Moore Graduate Scholarship (newly established, Sept 2011)</td>
<td></td>
<td>$300,000</td>
</tr>
</tbody>
</table>

**Student and Faculty Support**

Other UNM Foundation funds include those to support the activities of the Department (Anthropology Fund), undergraduate scholarships and awards (John C. Campbell Research and Alfonso Ortiz Indigenous Undergraduate funds), graduate fellowships (Frank C. Hibben Trust fund), and faculty research (Stone Age Research, TIDES, and Lamphere funds).

**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 PhD dissertations and master’s theses from the Anthropology Department, and an extensive collection of reprints. All these materials deal with anthropological subjects and serve the entire UNM anthropology community, including the Anthropology Department, Maxwell Museum and its Association, and the Office of Contract Archaeology. Many of the materials housed in the Clark Field Archive have been donated by Department of Anthropology faculty over the years.

Almost all of CFAL’s materials have been donated, with the exception of a couple dozen journal subscriptions supported by the MMA and proceeds from the annual book fair. About half the CFAL’s collections are unique on the UNM campus, and many are unique 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.

The MMA’s annual Albuquerque Antiquarian Book Fair is the main 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**

**Ortiz Door to Anthropology Department Opens**

Ortiz Center hired Anthropology PhD candidate, Gwendolyn Saul as the Ortiz Associate for the Ortiz Center Gathering Space located in the Maxwell Museum. Gwen will be active in the Ortiz Gathering Space by greeting visitors that come through the Anthropology hallway door 10:00 - 2:00 pm Tuesday - Friday. She interacts with visitors and talks about the exhibit and the Ortiz Center programs and projects, as well as assists with Ortiz special events and programs. The Ortiz Associate may also develop an independent project or build upon an aspect of their graduate degree research committed to the mission of the Ortiz Center. The Ortiz Center will provide limited funds to the Ortiz Associate for approved projects.

**Navajo Blanket and John Collier Exhibition Research**

The Maxwell Museum is currently organizing an exhibit on mid-20th Century Navajo textiles and photographs from the John Collier, Jr. from the Maxwell Museum collections. This exhibit will open in 2012 in commemoration of the New Mexico Centennial. Sixteen Navajo textiles and 42 photographs for the exhibit have been selected by the co-curators for the exhibition, Maxwell’s Curator of the Photo Archive, Catherine Baudoin and the Ortiz Associate, Gwendolyn Saul.

The Ortiz Center is supporting the research and development of the exhibit and co-hosting with the Navajo Nation Museum, a small gathering of Navajo weavers at the NNM on June 29, 2011. Textiles and photographs for the exhibit were taken to the Navajo Nation Museum for the event. Local weavers had the opportunity to view and discuss the textiles and photographs while
observances, opinions and reflections about these materials were recorded to include their voice in the exhibit. The exhibit may travel to the Navajo Nation in the future.

**Ortiz Center Passport to People Family Program**

This Ortiz Center Passport to People Family program supports community and family involvement associated with current exhibitions and research. On March 5th 2010 “Project Runway: Designing Divas Maya Style,” A revised evaluation form for the program was filled out by all the adult participants of the program. During the June 18th Passport event, “A Marvelous Maya Mercado,” families learned about marketing and creating their own crafts and by selling them in the “Maya game of life.” 310 visitors served.

**LAII US Department of Education Grant**

A teachers advisory committee has been formed and met on April 5th to develop pre- and post-curricula for the k-12 classroom based on the “Weaving Generations Together: Evolving Creativity of the Maya in Chiapas.” The curricula will be based on national standards and benchmarks and will be distributed along with the exhibit once it travels to other museums throughout the country. Targeted Albuquerque schools include bi-lingual (Spanish/English) public schools and schools with predominantly Native American student populations.

In return for assistance in developing the curricula, teachers will receive the following compensation from the US Dept Education Grant: (1) a stipend to support bringing their classes to visit the exhibit and purchase reading materials for their classes; (2) a document certifying the number of professional development credits that may be earned through participation; and (3) their name listed as contributing authors in the final, published document. Author and co-curator Patricia Greenfield will be giving a gallery talk about the exhibition for the Ortiz teacher’s advisory committee as a special guest in October 2011.

**The Ortiz Center Supports Puebloan Weaving Workshop at the Indian Pueblo Cultural Center**

March/April 2011

This workshop taught by Louie Garcia (Tiwai/Piro) explores a brief history of Pueblo textiles from the ancestral period to the present. Participants will have a guided museum walk through the Gathering of the Clouds exhibit at the IPCC in a rare opportunity to examine and study the textiles. The instructor will share textiles from his own collection to examine Pueblo weaving styles and design. Participants will spin their own yarn on a traditional Pueblo hand spindle as well as have the opportunity to learn to card and spin both wool and cotton with traditional Pueblo hand spindles. Students will warp their own loom to make a traditional Pueblo hair tie using the warp-faced method. Students will also have the opportunity to experiment with other techniques also common in Pueblo textile arts such as Pueblo embroidery, knitting, or crochet.

The Ortiz Center is supporting fifteen scholarships for members of Puebloan communities to attend the weaving workshop, including Jemez, Tamaya, San Felipe, Santa Clara, San Ildefonso, Ohkay Owingeh, Hopi, Piro-Manso-Tiwa of Guadalupe Pueblo, Santo Domingo, and Isleta. The Ortiz Center continues to support projects that enhance the conservation of cultural identity and heritage. The Ortiz Associate Director, Kathryn Klein, plans to continue to support this
meaningful project during the next year and develop a co-curated exhibit with Louie Garcia at the Maxwell Museum of Anthropology.

**Documentary Development**
The Ortiz Center is supporting the Emmy award winning Director, Lena Carr (War Code: Navajo) to do development research for her next documentary film on the Navajo Long Walk. Her research on her project will be used to apply for an NEH grant to support the development of the production of the film.

**Zuni Day School Project**
Finalization of 10 panels for the exhibition the Zuni Day School Project are being designed in collaboration with the staff at the A:shiwi A:wan, the Zuni Community Curators, and the Museum Maxwell Museum staff with an introductory statement from the Director, Jim Enote. The exhibition includes a touchscreen presentation in the gallery of the Zuni Day School materials in depth. The exhibition opened at the A:shiwi A:Wan Museum in Zuni in July 2011. 75-100 visitors served.

**Mayordomo Project Report**
The Mayordomo Project came into being in September 2008 as a collaboration between the New Mexico Acequia Association and the UNM Ortiz Center for Intercultural Studies. Its purpose is to address a situation the NMAA calls the “mayordomo crisis,” involving knowledge loss, attrition, and inadequate replacement of New Mexico’s *mayordomos de las acequias*. The mayordomo or ditch boss is essential to the practice of acequia irrigation. Today the old mayordomos are dying and taking their knowledge with them, and they are not being replaced by younger individuals who know how to manage and deliver the water and maintain the ditches in a given community. The Mayordomo Project seeks to investigate and record the practical local knowledge of living mayordomos in order to develop a method and program for the transmission of this knowledge to a new generation of mayordomos. It aims to identify, describe, understand, and transmit knowledge that is common among all mayordomos as well as particular to a specific individual and location. This project is coordinated for the Ortiz Center by Professor Emeritus, Sylvia Rodriguez.

**NM Adjudication Symposium**
On March 18, 2011, the Ortiz Center sponsored a symposium on the New Mexico Water Adjudications, held in the Department of Anthropology. The adjudications are complex legal processes with far-reaching political, economic, social, historical, cultural, and ecological ramifications. A holistic, comparative understanding of their import calls for a multidisciplinary approach. Hence the purpose of this symposium was to bring together a small group of attorneys and scholars from different disciplines to engage in an open, informal exchange of ideas, insights, and questions about the adjudications. Participants included: Albuquerque attorney Herb Becker; Darcy Bushnell of the UNM Utton Center of the Institute of Public law; Leslie Kryder, a technical assistance provider with Rural Community Assistance Corporation; Eric Perramond, Associate Professor of Environmental Science & Southwest Studies at Colorado College; Sylvia Rodriguez, Professor Emerita of Anthropology and Department Coordinator of the OC; and Melanie Stansbury, PhD Candidate at Cornell University in the Department of
Development Sociology. Also in attendance were UNM graduate students Sam Markwell and Elise Trott. Jack Loeffler, a well-known aural historian who has produced radio programs on land and water issues in the Southwest, recorded the session. Several participants are working on a special issue of the *Journal of the Southwest* about the adjudications. This project is coordinated for the Ortiz Center by Professor Emeritus, Sylvia Rodriguez.

**UNM-Mellon Foundation Program**

*Building Future Leadership for the Advancement of Native American and Latino Humanistic Social Science at the University of New Mexico*

In 2008 UNM received a $700,000 grant from the Andrew Mellon Foundation to fund a cohort-based fellowship program focused on advanced doctoral students from under-represented or disadvantaged groups who will be earning doctoral degrees in one of six social science or humanities departments at the University of New Mexico. The program's objectives are to increase the rate at which these students complete their doctorate and enter the workforce, particularly as college and university faculty. The program began awarding fellowship for 2008-09 and will continue for four years, until 2012. UNM has backed this program with matching funds that total nearly $300,000.

During the Spring of 2010, the second cohort of six UNM-Mellon Fellows was selected by the Program's Advisory Board. Miguel Gandert, Professor in the Department of Communications and Journalism, agreed to Chair the Advisory Board. The Advisory Board has one member from each of the participating departments, all having interest in ethnography, qualitative research, and the Hispano and Native American cultures of the Southwest. Board members are:

- Miguel Gandert- Chair, Professor, Communications and Journalism: Photographer and Oral Historian of Chicano and Mexicano Culture and Ritual Performance
- Gabriel Melendez- Professor and Former Chair, American Studies: Southwest Studies, Ethnic and Cultural Representation in Film, Autobiography, Ethnopoetics, Ethnocritical Theory
- Beverly Singer- Associate Professor, Anthropology and Native American Studies: Native American Film and Video
- Nancy Lopez- Associate Professor and Graduate Advisor, Sociology: Race/Ethnicity, Education, Gender, Latino Studies.
- Maria Velez- Assistant Professor, Sociology: Criminology, Race/Ethnicity
- Melissa Axelrod- Professor, Linguistics: Native American Languages, Sociolinguistics
- Barbara Reyes- Assistant Professor, History: Chicano History, Southwest
- Andrew Sandoval-Strausz, Associate Professor, History

New fellows during the 2010-11 academic year were:

• Claudia Anguiano, 2 year Fellowship; Communication and Journalism. Dissertation Topic: "Latino/a Undocumented Youth Student Activism Movement for DREAM Act legislation." (Mentor: Ilia Rodriguez, Communication and Journalism).


• Rebeca Jasso Aguilar, 2 year Fellowship; Sociology. Dissertation Topic: Comparative Study of Social Movements in 2000 in Cochabamba, Bolivia, Against the Privatization of Waste and the Social Movements that Emerged in Mexico in the Summer of 2006 against the Presidential Electoral Fraud. (Mentor: Linda Hall, History).

• Stephanie Sanchez, 3 year Fellowship; Anthropology. Dissertation Topic: Women and Cultural Production: Fiestas, Families, and Foodways in San Rafael, New Mexico (Mentor: Michael Trujillo, American Studies)

• Jaelyn deMaría, 2 year Fellowship; Communication and Journalism. Dissertation Topic: Oral histories pertaining to strategies of resistance and models of sustainability to genetically engineered varieties of seed and corporate control of land, water and life within the context of globalization and free trade. (Mentor: Rose Díaz, Researcher and Oral Historian, University Libraries)

• Sean Gantt, 2 year Fellowship; Anthropology. Dissertation Topic: A current study of the Mississippi Choctaw Nation’s negotiations with capitalist economic development and western cultural forms as a dialectical interaction. (Mentor: Lloyd Lee, Native American Studies)

• Nydia A. Martinez, 3 year Fellowship; History. Dissertation Topic: The transnational political and cultural connections between Chicano activists in the United States and leftists activists in Mexico during the 1960s-1970s, illuminating key historical processes like the international struggles of the Cold War, ethnic activism in the United States, as well as the Mexican “Dirty War.” (Mentor: Brian E. Herrera, Theater and Dance)

• Andrea L. Mays, 1 year Fellowship; American Studies. Dissertation Title: “Undoing American Pathologies: Representations of Black Domesticity and National Belonging 1915-1945” (Mentor: Teresa Córdova, Architecture and Planning)

• Elaine M. Nelson, 1 year Fellowship; History. Dissertation Title: “Dreams and Dust in the Black Hills: Contested Identities in America’s Land of Promise” (Mentor: Ann Massman, CSWR, University Libraries)
• Karen Roybal, 1 year Fellowship; American Studies; Dissertation Topic: A comparative analysis of Hispana/Mexicana testimonios, or “texts” across historical contexts to uncover their shared history of struggle and strategies of resistance, examining how Hispanics/Mexicanas use hybrid methodological strategies such as ethnography, autobiography, historiography and literary theory to re-imagine traditional conceptions of identity, gender, history, and cultures as these areas relate to land-related struggles in the Southwest. (Mentor: Manuel Garcia y Griego, History).

JAR Distinguished Lectures, Colloquia and Brown Bag Series

September 9, Dr. Peter Furst and Dr. C. Jill Grady, Anthropology Colloquium Series, *Huichol Art and Culture: Balancing the World*. Hibben 105


October 1, 2010, Dr. Olivia Navarro-Farr, Brown Bag Lecture, *Late to Terminal Classic Transitions at the Ancient Maya City of El Perú-Waka*: Investigations at Structure M13-1 Anthropology 248

November 5, Dr. Patrick Wolfe, Anthropology Colloquium Series, *Where Did the Vanishing Indian Vanish To?: Settler Colonialism and U.S. Indian Policy, 1823-1834*. 4 pm, Hibben 105.

November 11, Dr. Melinda A. Zeder, JAR Distinguished Lecture, *Pathways to Animal Domestication*. Anthropology 163

November 19, Dr. Steve Lekson, Anthropology Brownbag Series, *Chimney Rock & Chaco, Pinnacle Ruin & Mesa Verde, Black Mountain & Paquime: The Rhythm of Regional Interaction in the American Southwest* Hibben 105

December 2, Dr. Dick Blau, Anthropology Colloquium Series, *Skyros Carnival*. Hibben 105

December 10, Paul Hooper, Anthropology Brownbag Series, *Leadership: A double-edged Sword* Anthropology 248

January 21, Dr. Kari Schleher, Anthropology Brownbag Series, *Pottery Production, Specialization and Social Networks: Rio Grande Glaze Ware and San Marcos Pueblo* Anthropology 248

February 4, Dr. Jessica R. Metcalfe, Anthropology Brownbag Series, *Native Designers of High Fashion: Expressing Identity, Creativity, and Tradition in Contemporary Clothing Design* Anthropology 248
Anthropology 248

February 17, Dr. David Price, JAR Distinguished Lecture, How the CIA and Pentagon Harnessed Anthropological Research during the Cold War. Anthropology 248

April 1, Ivy L. Pike, Anthropology Colloquium Series, Embodying Context and the Biocultural Approach: What can nomadic herders from Northern Kenya teach us about linking context to global health disparities? Hibben 105

April 14, Dr. Norman Yoffee, Anthropology Colloquium Series, Early Cities and Comparative History. Hibben 105

April 15, Lisa Fontes, Anthropology Brownbag Series, Designing and Maintaining a Personal and/or Research Website Workshop Anthropology 248

April 20, Dr. Douglas W. Schwartz, Uncovering Arroyo Hondo Pueblo and the Stories It is Revealing. Hibben 105
This period included the fourth year of Professor Michael Graves’ term as Chair of Anthropology. Regents Professor Marta Weigle served as Associate Chair in the year. Drs. Suzanne Oakdale and Keith Hunley served as Graduate Director and Undergraduate Director, respectively.

This year saw continued change in the Department of Anthropology. We welcomed new faculty members, assistant professors Erin Debenport (Ethnology) and Heather Edgar (Evolutionary Anthropology), and saw two senior faculty retire: Regents Professor Marta Weigle and Associate Professor Joseph Powell.

In an effort to place the funding for the Department of a firmer, more predictable basis, we now have a comprehensive budgeting process that includes state funds, extramural and intramural contract and grants, and UNM Foundation payouts. The annual budget for the Department in 2010-11, including all funds, was approximately $4.0 million. The Department received approximately $660,000 in new extramural awards this year. UNM also approved an addition to the recurring allocation to support the Ortiz Center. Course fees contributed to the upgrading or creation of media systems in the Hibben Center and the Department of Anthropology. The Department developed new course offerings through Extended University’s On-Line Program; a portion of the tuition revenues from this program are returned to the Department.

The Academic Program Review for Anthropology was fully completed in 2010. The Department has prepared an Action Plan for the next 5 years that includes new faculty hires, strengthening support for the graduate and undergraduate programs, and planning for the renovation of key facilities (Anthropology Annex).
DEPARTMENT OF ANTHROPOLOGY
JULY 1, 2010-JUNE 30, 2011

APPOINTMENTS AND SEPARATIONS,
CURRENT FACULTY AND STAFF

APPOINTMENTS

Faculty
None

Staff
Roberta Mendez, Research Assistant/Staff (February 2011)

SEPARATIONS

Faculty
Joseph Powell, retirement (May 2011)
Marta Weigle, retirement (May 2011)

Staff
None

CURRENT FACULTY AND STAFF

Faculty*:

Associate Professors: David Dinwoodie, Larry Gorbet, Frances Hayashida, Keith Hunley, Martin Muller, Suzanne Oakdale, Osbjorn Pearson, Joseph Powell, Keith Prufer, Beverly Singer

Assistant Professors: Ronda Brulotte, Erin Debenport, Heather Edgar, Sherry Nelson

Staff*:
Ann Braswell, Coordinator, Technical Publications/Business Manager JAR (.25 FTE JAR)
Jennifer George, Department Administrator/Building Coordinator
Erika Gerety, Coordinator, Program Advisement/Graduate Advisor/Policy Database Manager
Joanne Kuestner, Administrative Assistant (.25 FTE EU)
Carla Sarracino, Coordinator, Educational Support/Undergraduate Advisor
Matthew Tuttle, User Support Analyst (IT)
Graduate Students*:

Kristin Adler (I&G and Provost funded)
Quinn Bailey
Ilse Biel (I&G and EU funded)
Jennifer Cardinal (I&G and EU funded)
Daniel Cummings (I&G and A&S funded)
Shamsi Daneshavari (A&S, EU and Provost funded)
Helen Davis
Laura DeFrank
Brandon Drake
Natalie Farrell
Elizabeth Eadie (A&S and Provost funded)
Nicole Easterday (A&S and Provost funded)
Erin Fitzgerald (I&G and A&S funded)
Cheryl Fogle (A&S and Provost funded)
Lisa Fontes (I&G and A&S funded)
Olga Glinskii
Alaina Goff (A&S funded)
Lara Gunderson
Megan Healy (I&G and EU funded)
Shirley Heying
Maria Hronchich (A&S funded)
Miria Kano (A&S funded)
Crystal Kieffer
Katina Krasnec (I&G and EU funded)
Christina Mello
Chris Merriman
Carmen Mosely (I&G and EU funded)
Lavinia Nicolae (A&S and Provost funded)
Meghan O’Leary
Mark Oxley (I&G and A&S funded)
Corey Ragsdale
Matt Rosset
Susan Ruth (I&G and EU funded)
Anne Santos (I&G and EU funded)
Beth Stone (A&S and Provost funded)
Vitale Sparacello
Kyle Spurgeon
Geneva Smith (EU funded)
Anna Theodoropolous
Amy Thompson (I&G and EU funded)
Natasha Tworski
Megan Workman (EU funded)
Anthropology Annual Report
July 2010-June 2011
Submitted by: Michael Graves, Department Chair;
Jennifer George, Department Administrator

*All listed paid under I&G unless otherwise noted.

Part Time Instructors:
Jocelyn DeHaas (A&S funded)
Gil Greengross (A&S funded)
Melissa Emery Thompson (A&S and EU funded)
Lisa Huckell (A&S funded)
Nicole Kellett (Provost funded)
Tanya Mueller (A&S, EU and Provost Funded)
Tim Petersen (A&S, Provost and EU funded)
Adriana Ramirez de Arellano (Provost funded)
Kari Scheleher (A&S and EU funded)

Post Doctoral Research Associates, Visiting Professors, and Other Staff:
Melissa Emery Thompson, Post Doctoral Fellow (1.0 FTE Grant Funded)
Paul Hooper, Post Doctoral Fellow (1.0 FTE Grant Funded)
Olivia Navarro Farr, Post Doctoral Fellow (1.0 FTE Provost Funded)
Adriana Ramirez de Arellano, Post Doctoral Fellow (.50 FTE Mellon Grant Funded)
Cristobal Valencia Ramirez, Visiting Assistant Professor (1.0 FTE A&S Funded)
Jon Stieglitz, Post Doctoral Fellow (1.0 FTE Grant Funded)
Roberta Mendez, Research Assistant/Staff (.75 FTE Grant Funded)
Faculty members and graduate students in Anthropology at UNM published more than 110 papers, books, articles, abstracts, and reports or developed audio or visual materials in the year reported here. This is a high level of publication with major journals represented such as, *American Ethnologist, American Journal of Human Genetics, Antiquity, Behavioral Ecology & Sociobiology, Biodemography and Social Biology, Current Anthropology, Ethnology, Evolutionary Anthropology, International Journal of the Sociology of Language, Journal of Archaeological Science, Journal of Human Biology, Journal of Human Evolution, Journal of Theoretical Biology, Latin American Antiquity, Nature, Paleodiversity, Proceedings of Royal Society B, Quaternary International, Radiocarbon, Science,* among others. (Student authors indicated it italics)


42. Huckell, L.W. and **B. Huckell.** A Possible Clovis Biface from West-Central North Dakota. *Current Research in the Pleistocene* 27: 98-100. 2010


77. Oakdale, S. The Formation of a Kaiabi Leader in the Mid-Twentieth Century Brazilian Frontier, Published in the *Proceedings of the Tenth International Congress of the Brazilian Studies Association,* Brasilia, July 22-24, 2010.


81. Pearson, O. M. Entries for: ADU-VP-1/3 (Aduma cranium), Ahmariian, Anthropogenic sediments, Art mobilier, Aurignacian, Berg Aukas, Blind River, Bodo, Bodo 1, Boskop, BOU-VP-16/1, Buia (Uadi Aalad), Buia cranium (UA 31), Buia pubis (UA 466), Die Kelders, Eliye Springs (KNM-ES 11693), Equus Cave, Eyasi, Fish Hoek, Fish Hoek 1, Florisbad, Florisbad 1, Foliate points, Gawis cranium, Gneiss inselberg, Gravettian, Halibee, Herto, Hoedjiespunt, Hofmeyr, Hofmeyer skull, Hohle Fels, Iberomarusian,


95. Straus, L. Institutional obituary for Lewis R. Binford, University of New Mexico, Department of Anthropology website (http://news.unm.edu/?=1389). 2011.

110. **F. Scott Worman**, 2011 *Cultural Resources Inventory of the NMARNG Alamogordo Readiness Center, Otero County, New Mexico.* Office of Contract Archeology, University of New Mexico.


Faculty (including affiliated faculty with the Maxwell Museum) and students in Anthropology held 37 active grants during the year. Most awards come from governmental organizations such as the National Science Foundation, with additional grants from the National Park Service, and the National Institutes of Health. Awards from private organizations include: Wenner Gren Foundation for Anthropological Research, Leakey Foundation, and Andrew P. Mellon Foundation. Thirteen new grant awards were received by Anthropology faculty and students in 2010-2011.

Faculty Grants (total $5,175,479, new grants total $660,291):

1. **On-Going.** National Science Foundation, Investigating the Material Culture of the Pueblo Bonito Trash Mounds, PI: Patricia Crown, 08/15/07 – 07/31/10, $328,510
3. **On-Going.** National Science Foundation, Award #0703980, Gateway to the Americas, Marine Archeological Survey, SE Alaska, Office of Polar Programs, Arctic Social Sciences, PI: James Dixon, 05/15/09-10/31/11, $43,914.
4. **On-Going.** National Science Foundation, The Ynalche Project: Political Ecology of Late Prehispanic Agriculture on the North Coast of Peru, PI: Frances Hayashida, 09/01/08 – 08/31/12, $259,048.
5. **New.** National Parks Service, Archeological Site Condition Assessments for FMSS and Visitor Interpretation in New Boundaries on the Chacra Mesa PI: Wirt Wills, 09/30/10 – 06/15/12, $93,817.
6. **New.** UC Santa Barbara, The Human Life Course and Biodemography, PI: Hillard Kaplan, UCSB primary with NSF, UNM sub award, 09/15/10 – 08/31/12, $450,364.
7. **On-Going.** University of Southern California, Preparations of Samples for Investigation of Biological Aging Among the Tsimane, PI: Hillard Kaplan, primary with NSF, UNM sub award, 06/01/08 – 05/31/10, $198,533.
8. **On-Going.** University of California-Davis, ARRA-The Biodemographic Determinants of Life Span, NSF primary, UNM & UCD subs, PI: Hillard Kaplan, 09/30/09 – 09/31/12, $206,095.
9. **On-Going** National Endowment for the Humanities/National Foundation on the Arts and Humanities, An Integrative Archaeological and Historical Study of the Rise to Power of Kamehameha the Great, PI: Michael Graves, 09/01/09-08/31/10, $73,969.
10. **On-Going.** Andrew Mellon Foundation, Building Future Leadership for the Advancement of Native American and Latino Humanistic Social Science at the University of New Mexico, PI: Louise Lamphere and Michael Graves, 01/01/08 – 07/31/13, $700,000.
11. **On-Going.** National Science Foundation, Collaborative Research: (AOC) Development
and Resilience of Complex Socioeconomic Systems: A Theoretical Model and Case Study from the Maya Lowlands, PI: Keith Prufer, 09/15/08 – 02/29/12, $280,354.

12. On-Going. National Science Foundation, The Cultural and Biological Significance of Ethnic Substructure in New Mexican Hispanics, PI: Keith Hunley and H. Edgar, 05/15/10-04/30/12, $252,937.

13. On-Going. Boston University, Understanding the Role of Ecology in Orangutan Reproduction, PI: Melissa Thompson, BU primary with NSF, UNM sub award, 09/01/08 – 08/31/12, $119,727.

14. New. Leakey (Louis SB) Foundation, Anthro Stratus Magdalenian Burial in El Miron Cave, Cantabria, Spain, PI: Lawrence Straus, 02/01/11 – 05/30/12, $20,000.

15. On-Going. Yale University, Dynamics of Hunter-Gatherer Language Change, PI: Keith Hunley, 11/01/08-02/28/12, $49,270.


20. On-Going. National Science Foundation, Pattern and Process in Human DNA Sequence Variation, PI: Jeffrey Long, 09/01/09-08/31/12, $265,322.


22. On-Going. Leakey (Louis S.B.) Foundation, Causes and Consequences of Stress in Wild Female Chimpanzees, PI: Melissa Thompson, 06/01/12-06/30/12, $21,700.


30. On-Going. National Science Foundation, The Uxbenka Archaeological Project, PI: Keith
Prüfer, 09/18/07 – 11/30/10, $87,507.

**Student Grants** (total $91,142, new grants total $7,640):

1. **On-Going** Wenner-Gren Foundation, Dissertation Grant: Effects of Genetic Ancestry and Socio-cultural Factors on Susceptibility to Tuberculosis in Mexico PI: Keith Hunley and Bonnie Young, 01/01/2010-01/31/2011, $12,969.

2. **On-Going** National Science Foundation, Dissertation Improvement Grant: Feeding Ecology and Life History Strategies of White-faced Capuchin Monkeys, PI: Jane Lancaster and E Eadie, 09/01/09-08/31/10, $15,000.

3. **New.** National Science Foundation, Doctoral Dissertation: Language Socialization and Revival at the Jicarilla Apache Nation, PI: Les Field and Mariann Skahan, 09/01/10-08/31/12, $7,640.

4. **On-Going.** National Science Foundation, Doctoral Dissertation Improvement Grant: Exploring Migration and Social Identity in the Albuquerque Area during the Late Developmental to Coalition Period Transition, PI: Patricia Crown and Dorothy Larson, 11/15/09-10/31/11, $13,064.

5. **On-Going.** National Science Foundation, Doctoral Dissertation Improvement Grant: Learning Networks and Social Diversity in the Chaco System, A.D. 850-1140: An Analysis of Basketry Technological Style, PI: Wirt Wills and Edward Jolie, 03/01/09-12/31/10, $15,000.


7. **On-Going.** National Science Foundation, Doctoral Dissertation Improvement Grant: The Social Value of Ornaments from Pueblo Bonito and Aztec Ruins, PI: Patricia Crown and Hannah Matson, 02/01/10-01/31/12, $14,469.
DEPARTMENT OF ANTHROPOLOGY
JULY 1, 2010-JUNE 30, 2011
GRADUATES

The Department of Anthropology provides baccalaureate degrees in both arts and sciences, along with masters and doctoral degrees. In 2010-11, 114 students graduated in Anthropology. This includes 86 who earned baccalaureate degrees, 18 earned Masters, and 10 earned the doctorate. Over the past ten years (2002-2011) more than 1,000 students have earned degrees in Anthropology at UNM.

<table>
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</table>

Bachelor of Arts and Bachelor of Science

**Summer/Fall 10**
- Michael A. Abatemarco (BA)
- Jessica E. Abbott (BA)
- Venacio F. Aragon (BA)
- Jim S. Chanel (BS)
- Aaron C. Chavez (BA)
- Rebecca J. Clark (BA)
- Thomas A. Depree (BA)
- Amy E. Efrud (BA)
- Andrea A. Faeth (BA)
- Melanie A. Fortgang (BS)
- Lauren E. Guilmette (BA)
- Alice M. Hollow Horn (BA)
- Valerie J. Horton (BS)
- Shana A. Juarez (BS)
- Pieter M. Leffers (BS)
- Taylor B. Lewis (BS)
- Patricia Ann Lopez-Ray (BA)
- Katie E. MacCallum (BA)
- Rebekah C. Montgomery (BA)
- Jason R. Neel (BA)
- Leonard P. Perez (BA)
- Pamela G. Price (BA)
- Daleen D. Raynor (BS)
- Daniell Reyna (BA)
- Jessie H. Schimmel (BA)
- Matthew R. Schwartz (BS)
- Timothy B. Shaw (BS)
- Aaron J. Smith (BA)
- Agatha J. Weatherbie (BA)
Anthropology Annual Report
July 2010-June 2011
Submitted by: Michael Graves, Department Chair;
Jennifer George, Department Administrator

Sarah L. Wilebski (BS)
Steven M. Williams (BA)
Rachel L. Zakrzewski (BA)

Spring/Summer 11
Jeffrey D. Aiken (BS)
Crystiana M. Baca-Bosiljevac (BA)
Shannon Bermea (BS)
Jenny O. Bick (BA)
Ben R. Bowen (BA)
Jesse I. Brundige (BS)
Keary T. Buttrill (BS)
Julian C. Chavez (BS)
Ashley Davis (BS)
Danyelle L. Dosunmu (BA)
Miriam P. Duncan (BA)
Stephanie A. Fincke (BS)
Amy E. Foust (BA)
Ann M. Gamache (BA)
Alfred A. Garcia (BA)
Lindsay E. Gillenwater (BA)
Christina M. Glick (BA)
Ariana D. Goertz (BS)
Danielle L. Griego (BA)
Tricia L. Gunther (BS)
Adele N. Hartswick (BA)
Takeo Ichihara (BA)
Alexander E. Jacobs (BA)
Julia Jurado (BA)
Monika M. Kubicek (BS)
Valerie A. Lipinski (BS)
Samantha M. Lorenz (BS)
Amanda C. Macewen (BA)
Courtney J. Martin (BS)

Holly A. Mares (BA)
Brittany L. Marfia (BA)
Jessica E. Maynard (BA)
Tylor S. Nelson (BA)
Eva A. Padilla (BS)
Emmett J. Paul (BA)
Shahana Sophie Rjan (BS)
Elizabeth S. Rodriguez (BS)
Travis G. Simis (BA)
Samantha T. Sonntag (BA)
Erica R. Stamm (BA)
Jamie A. Stephens (BS)
Jennifer M. Verranault (BS)
Kandi A. Voss (BA)
Ryan P. Wienpahl (BA)
Amanda F. Wilson (BA)
Christina M. Wolf (BA)
Bachelor of Arts and Bachelor of Science with Honors

Fall 10

Stefanie Ilana Michaels (BS) Biological Anthropology
Honors Thesis: Forgotten Valor on the Western Frontier: Identification of Union Army Soldier Remains at the Old Military Cemetery, Fort Craig, New Mexico

Spring 11

Ahmed Fethi Benhalim (BA) Ethnology
Honors Paper: Rhetorics and Ideologies of Non-Acknowledgement: The Case of Palestine
Mentor: Les Field

Felice A. Lamorux (BA) Ethnology
Honors Paper: Making the American Dream Achievable for All: Educational Reform Through Culture Creation
Mentor: Les Field

Heather L. MacInnes (BS) Evolutionary Anthropology
Honors Paper: Dimensions of the Birth Canal and Age at Death in Prehistoric New Mexican Women: A Test of Evolutionary Optimality
Mentor: Osbjorn Pearson

Arielle Rose Nylander (BA) Ethnology
Honors Paper: Purity and Danger? Reframing Spirituality, Purity, and practice Among a South Indian Community in Diaspora
Mentor: Les Field

Raoul Justis Paisner (BA) Ethnology
Honors Paper: Shrimp & Oil: The BP Disaster and a Way of Life at Risk
Mentor: Ronda Brulotte

Clayton Dean Pilbro (BS) Biological Anthropology
Honors Paper: New Mexico Proto-Prosimians and True Primates: A study of the variation in NM fossil teeth showing trends in early Prosimian and Primate Evolution
Mentor: Sherry Nelson

Roudina Rajha (BA) Ethnology
Honors Paper: What will people say? Social Reputation in a Damascus Community
Mentor: Les Field
ANTHROPOLOGY, July 1, 2009-June 30, 2010
Prepared by: Jennifer George, Department Administrator

Master of Arts and Master of Science

Summer/Fall 10

Zachary E. Braun (MA)
Jagna Cyganik (MA)
Felipe J. Estudillo Colon (MA)
Michael R. Gibbons (MS)

Spring/Summer 11

Valorie V. Aquino (MS)
Kevin Brown (MA)
Anna Cabrera (MA)
Natalie Farrell (MA)
Lisa M. Fontes (MA)
Lillian Greenawald (MS)
Lara Michele Gunderson (MA)
Sarah R. Joyce (MA)
Katina Krasnec (MS)
Catherine Mitchell (MS)
Daniel Gene Shattuck II (MA)
Amy Thompson (MS)
Natasha M. Tworski (MS)

Doctor of Philosophy

Summer/Fall 10

John Y. Anderson (PhD)
Dissertation: The Human Skull: Definition by Integrationist and Modular Models
Chair: Joseph Powell

Ruth B. Jolie (PhD)
Dissertation: We’re Parents, Too: An Urban Ethnography of Father Involvement Among Middle Class Dual-Worker Couples
Chair: Louise Lamphere, Co-Chair: Ronda Brulotte

Philip B. Laverty (PhD)
Dissertation: Recognizing Indians: Place, Identity, History and the Federal Acknowledgement of the Ohlone/Costanoan-Eselen Nation
Chair: Les Field

Wendy E. Potter (PhD)
Dissertation: Evidence for a Change in the Rate of Aging of Osteological Indicators in American Documented Skeletal Samples
Chair: Osbjorn Pearson, Co-Chair: Jane Buikstra
Spring/Summer 11
Kristen Adler (PhD)
Chair: David Dinwoodie

Connie Constan (PhD)
Dissertation: Ceramic Resource Selection and Social Violence in the Gallina Area of the American Southwest
Chair: Patricia Crown

Shamsi Rebecca Daneshavari (PhD)
Dissertation: Predicting body mass from the skeleton with an application to the Georgia Coast
Chair: Osbjorn Pearson

Lois Ellen Frank (PhD)
Dissertation: The Discourse and Practice of Native American Cuisine: Native American Chefs and Native American Cooks in Contemporary Southwest Kitchens
Chair: Karl Schwerin, Co-Chair: Steven Feld

Elisabeth A. Stone (PhD) with Distinction
Dissertation: Through the Eye of the Needle: Investigations of Ethnographic, Experimental and Archaeological bone Tool Use War from Perishable Technologies
Chair: Ann Ramenofsky

Amanda J. Veile (PhD)
Dissertation: The Evolutionary Ecology of Human Infancy
Chair: Hillard Kaplan, Co-Chair: Jane Lancaster
Undergraduate Student Awards, 2010-2011

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 2010-2011: Katherine Addington

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. Recipients in 2010-2011: Lauren Alberti

John Campbell Undergraduate Research Scholarship
Dr. John Martin Campbell, former Chair of the Department of Anthropology, has established a research scholarship for undergraduates. The funding is designated to support research costs for students, including travel support for students who are attending and participating in professional meetings. Recipients in 2010-2011: Christine DuBois & Patrick Harjo

Ortiz Undergraduate Indigenous Scholarships
The Indigenous Scholarships are $1500 awards to undergraduate students who are members of officially recognized indigenous groups, including Native Americans and Pacific Islanders. Recipients in 2010-2011: Anjetta Hawk and Eudora Claw
Graduate Student Awards, 2010-2011

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 2010-2011: Kelly Monteleone
Lecture: Lost Worlds: Locating Submerged Archaeological Sites in Southeastern Alaska

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 2010-2011: Erin Tooher

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.
Recipients in 2010-2011: Olga Glinskii

James and Helen McCaig Spuhler Graduate Fellowship
James N. Spuhler, who died in 1992 at the age of 75, is considered by many in the field to be the founder of anthropological genetics. Spuhler was the first physical anthropologist to be rigorously trained in human genetics, and he was the one who inspired the consistent introduction of a full understanding of modern genetic analysis into anthropological teaching and research. His wife, Helen McCaig Spuhler, endowed the Spuhler Graduate Fellowship in Biological Anthropology through her
will. This award is given annually to an outstanding graduate student in Biological Anthropology. Recipient in 2010-2011: None Given

**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 2010-2011: Bonnie Young

*Lecture: Effects of Genetic Ancestry and Sociocultural Factors on Active Tuberculosis Susceptibility in a Northeastern Mexican Population*

**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 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 the $1,000 award delivers a public lecture during the spring semester. Recipient in 2010-2011: Elise Trott

*Lecture: We are People of the Land: Identity and Agricultural Activism in New Mexico*

**Ortiz Public Policy Fellowship**
The Alfonso Ortiz Center for Intercultural Studies awarded the first Louise Lamphere Public Policy Grant in 2006-2007. Eligible candidates for this award must be in the Ethnology Program and at the stage of writing up the dissertation, and should be conducting research that is both collaborative and relevant to a policy issues. Ideally, they will also be resident in Albuquerque. Possible policy areas include, but are not limited to health care, immigration, education, labor or workplaces issues, human rights, and the environment. The grant carries a stipend of $10,000. Recipient in 2010-2011: Shirley Heying

**The Frank Hibben Charitable Trust Fellowships**
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 PhD 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.

Hibben Recruitment Scholarships
Recipients in 2010-2011: 1st year students: Daniel Cummings, Marge Homko, Ellen Sieg; 2nd year students: Kevin Brown, Anna Cabrera, Corey Ragsdale

Hibben Recruitment Award (Maxwell):
Recipients in 2010-2011: 1st year students: Jana Morehouse; 2nd year students: Lillian Greenawald,

Hibben Doctoral Research Awards (Department):
Recipient in 2010-2011: Marilyn Riggs

Hibben Doctoral Research Awards (Maxwell):
Recipients in 2010-2011: Adam Okun

Hibben Tuition Award
Recipients in 2010-2011: 3 hrs: Ellen Sieg, Marge Homko, Mark Williams, Corey Ragsdale, Kevin Brown, Anna Cabrera, Lillian Greenawald,

Public Anthropology Award
Recipients in 2010-2011: Daniel Cummings

Graduate Dean’s Dissertation Fellowship
Provided through the Office of Graduate Studies, this $8000 award is intended to provide support to students completing their doctoral dissertations.
Recipient in 2010-2011: None
$1000 recipient: Connie Constan

Binford Fellowships
Recipients in 2010-2011: Laura DeFrank, Meghan O Leary, Amy Thompson, Lisa Fontes, Natalie Farrell, Elise Trott, Daniel Cummings

Field Site Development Grants
Provides financial support for graduate field work. An award of $2000 is disbursed among successful candidates.
Recipients in 2010-2011: Vitale Sparacello, Sandra Arazi Coambs, Lara Gunderson

Arts and Sciences Special Recruitment Award
An award of $5000 is provided to students to recruit and retain them during their doctoral coursework.
Recipient in 2010-2011: Anna Cabrera
Higher Education Development (HED) Graduate Fellowship
The Graduate Scholarship Program was created to increase graduate enrollment at public post secondary institutions, particularly among those students who are minorities and women. The maximum award amount is $7,200 per year. This award may be renewed annually based on academic standing. Recipient must serve 10 hours per week in an unpaid internship or assistantship. Recipient must also be provided with 10 hours per week of paid internship or assistantship, including tuition waiver and health insurance. These scholarships are intended for full-time students from groups traditionally underrepresented in their field who have financial need. Recipients in 2010-2011: Carmen Mosley, Valorie Aquino, Kevin Brown, Kelly Sawyer

Graduate Student Travel Award
The Department provides travel funding on a competitive basis to graduate students who will attend and present at professional meetings. Awards are generally $300 each. Recipients in 2010-2011: Judith Van der Elst, Lara Noldner, Erin Tooher, Catherine Mitchell, Dorothy Larson, Ethan Kalosky, Corey Ragsdale, Sean Gantt, Olga Glinski

Interdepartmental Teaching Assistantship
Recipients in 2010-2011: Caroline Gabe, Erin Tooher, Jillian Jordan, Elise Trott (English); Maria del Pilar, Sandra Bernal (Spanish and Portugues)

LAIIFellowship
Recipients in 2010-2011: Roberto Herrera, Bonnie Young

Robert Wood Johnson Foundation Center Fellowship
Recipients in 2010-2011: Sean Bruna, Andrea Lopez, Elvira Pichardo

UNM-Mellon Foundation Fellowship
Recipient in 2010-2011: Sean Gantt (2 yrs)

3% Scholars Award
Recipients in 2010-2011: Cheryle Fogle, Anne Santos, Christopher Lynch, Daniel Cummings, Christina Mello

PIBBS/HEB Fellowship
Recipients in 2010-2011: Sarah Joyce, Catherine Mitchell, Jennifer Cabotage
Anthropology Faculty Activities, Service, and Honors

Faculty members in Anthropology contribute to and participate in a number of professional activities at all levels: departmental, university, state, national, and international. Anthropology faculty members delivered more than 110 professional and public presentations at meetings, conferences, and colloquia in 2010-2011. A partial listing of these and other activities or honors is provided below:

Boone, James

- Member of Editorial Board, *Human Nature*
- UNM Senate and Graduate Professional Committee, Arts & Sciences Representative (Fall 2009-Current)
- Curriculum and New Programs Committee, Arts & Sciences (Fall 2009-Current)
- Tenure & Promotion Committee (Senior) Arts & Sciences (Fall 2010-Current)
- Snead-Wertheim Award Committee (conjointly with the History Department)
- Currently chairing 11 dissertation committees
- Member of 10 additional dissertation committees

Brulotte, Ronda

- Co-Chair: Ruth Jolie (Ethnology), Ph.D. 2010, co-chair of committee with Dr. Louise Lamphere Dissertation: "We're Parents Too!" Changes in Father Involvement in Domestic Labor Among Urban Middle Class Dual-worker Couples"
ANTHROPOLOGY, July 1, 2009-June 30, 2010
Prepared by: Jennifer George, Department Administrator

- Faculty Supervisor: Siegrid Guillaumon (School of Administration, Universidade Federal de Bahia, Brazil), Ph.D. 2011, faculty supervisor while completing an inter-institutional doctoral program at UNM Dissertation: "Gestão do turismo em territories de grande densidade religiosa: o caso do Novo México"
- Undergraduate Advisement: Raoul Paisner (Ethnology), honors paper, Topic: Socioeconomic impacts of the Gulf oil spill in Louisiana
- Reviewer: Research in Economic Anthropology
- Reviewer: Journal of Anthropological Research
- Reviewer: Journal of Latin American and Caribbean Anthropology
- Book review editor: the Journal of Anthropological Research
- Member: Maxwell Museum of Anthropology Exhibit Selection and Review Committee
- Faculty Mentor: Ronald E. McNair Scholars Program
- Member: National Endowment for the Humanities, Humanities Institute Initiative Planning Committee
- Member: Instructional Resources and Space Committee
- Member: Ethnology Graduate Admissions Committee
- Presentation Reviewer: 14th Annual Graduate Research Symposium (AGSU)
- Member: Ethnology Graduate Comprehensive Exams Committee
- Faculty Advisor, Undergraduate Anthropology Society

Crown, Patricia
- Invited Public Talk: Aztec National Monument lecture series (July 2010)
- Invited Public Talk: Petroglyph National Monument lecture series (July 2010)
- Invited Public Talk: Center for Desert Archaeology lecture series (September 2010)
- Invited Public Talk: Keynote Speaker for Crow Canyon Annual Meeting (October 2010)
- Invited Talk: UNM Alumni Austin Chapter Lobo Day Speaker (February 2011)
- Invited Public Talk: Santa Fe Institute Colloquium speaker (March 2011)
- Invited Public Talk: Arizona Archaeological and Historical Society Lecture Series (March 2011)
- Invited Public Talk: Snead Wertheim Lectureship lecture (April 2011)
• Invited Public Talk: Cynthia Irwin Williams Lectureship lecture Eastern New Mexico University (April 2011)
• Invited Public Talk: Maxwell Museum of Anthropology Food and Life Lecture (April 2011)
• Invited Public Talk: Crow Canyon Distinguished Lecture (May 2011)
• Invited Public Talk: Chaco Culture National Historical Park Lecture Series (May 2011)
• Invited Public Talk: Aztec National Monument Lecture Series (June 2011)
• Snead-Wertheim Lectureship in Anthropology and History
• Research Associate, Smithsonian Institution National Museum of Natural History
• Cynthia Irwin Williams Distinguished Lecturer in Anthropology, Eastern New Mexico University
• National Science Foundation, panelist, Archaeology (reviewed 32 proposals)
• Convener, Archaeology Subfield, Department of Anthropology
• Department of Anthropology Faculty Evaluation Committee
• College of Arts and Sciences Distinguished Professor Evaluation committee
• External Reviewer for Tenure/Promotion: Texas A&M, Brigham Young University, University of California, Riverside, New Mexico State University
• Director, Society for American Archaeology Board of Directors
• Editorial Board JAR
• Review panel for American Philosophical Society (reviewed six proposals)

Debenport, Erin
• Reviewer: Journal of Anthropological Research
• Reviewer: Fellowship applications. School for Advanced Research, Santa Fe, NM.
• Project reviewer: Newberry Library Consortium, “Uncovering Early American Indian Literary History.”
• Reviewer: Language & Communication
• Board Member: UNM Women Studies Executive Board
• Reviewer: Journal of Anthropological Research
• Reviewer: National Science Foundation, Cultural Anthropology and Linguistics Outside reviewer, UCLA Dept. of Anthropology, Tenure and Promotions Committee
• Reviewer: Journal of Linguistic Anthropology
Dinwoodie, David

- 2009-10 Robert F. Heizer Award Committee Chair, American Society for Ethnohistory.
- Search Committee Chair: UNM Dept of Anthropology Ethnology Assistant Professor

Dixon, E. James

- Member: SPARC: Snow Patch Archaeology Research Cooperation (Advisory Committee),
- Norwegian University of Science and Technology and the Museum of Natural History and Archaeology, Trondheim, Norway.
- Teaching: Anth 586 Museum Practicum, 3 credit hours (1 student). Fall 2010
- Teaching: Anth 698 Advanced Research, 3 credit hours (3 students). Fall 2010
- Teaching: Anth 699 Dissertation, 3 credit hours (2 students). Spring 2011
- Graduate Student Advisor: Kelley Monteleone, Anthropology, UNM
- Graduate Student Advisor: Michael Grooms, Anthropology, UNM
- Graduate Student Advisor: Nicolas Jarman, Anthropology, UNM
- Graduate Student Advisor: Mark Williams, Anthropology, UNM
• Graduate (Ph.D.) Committee Member: Cheryl Fogle, Anthropology, UNM
• Graduate (Ph.D.) Committee Member: Christopher Merriman, Anthropology, UNM
• Graduate (Ph.D.) Committee Member: Brian Naze, Anthropology, University of Colorado at Boulder
• M.A. Graduate Committee: Lillian Greenawald, Public Anthropology, UNM (Completed, Spring 2011)
• Chair: Museum Studies Curriculum Committee. A proposal (Form D) for a new interdisciplinary graduate degree program in Museum Studies.
• Interview: Miller McCune Magazine. Interview article by published October 2010 issue.
• Interview: Public Radio Interview with Jacqueline Estus KNBA radio, Koahnic Broadcast Corporation (KBC) is a nonprofit, Alaska Native governed and operated media center located in Anchorage, Alaska. Interview. Broadcast and web (April).
• Exhibit: On site interpretative panels and mammoth skull (cast) display for the Lamb Spring Archaeological Preserve, Douglass County, Colorado.
• Chair: Exhibit Review Panel, Maxwell Museum of Anthropology, University of New Mexico
• Member: Clark Field Library and Archive Committee
• Member: Board of Directors, Ortiz Center.
• Chair: University of New Mexico Museum Council
• Member: College of Arts and Science Budget Committee.
• Member: Mid-probationary Review Committee for Dr. Sherry Nelson, Department of Anthropology, University of New Mexico, Albuquerque
• Member: Lamb Spring Archaeological Preserve, Board of Directors
• Member: Maxwell Museum Association, Board of Directors
• Member: Maxwell Museum Association, Executive Committee
• Member: Maxwell Museum Association, Strategic Planning Committee
• Member: UNM Board of Archeologists
• Chair: Hibben Allocation Committee
• Member: Search Committee, Interim Dean of the College of Arts and Sciences, University of New Mexico (June).
• Reviewer: Journal of Archaeological Science
• Reviewer: American Antiquity
• Reviewer: Quaternary International
Edgar, Heather

- "Dental Morphology of a Juvenile Mummy from the Shelton Expedition: Observations and Measurements Made from CT scans and Stereolithography." 7th International Mummy Congress, 2011.
- "Using a Biohistorical Approach to Trace Population Change in the US." Presented in the University of Tennessee Anthropology Visiting Lecture Series, 2010.

Emery Thompson, Melissa

- Co-chair: Anthropology Colloquium Committee, Department of Anthropology, University of New Mexico
Co-director: Hominoid Reproductive Ecology Laboratory, University of New Mexico

Member: International Union for Conservation of Nature, Species Survival Commission (IUCN-SSC) Primate Specialist Group

Member: Scientific Committee, International Primatological Society 23rd Congress.


Reviewer: AGE

Reviewer: American Journal of Human Biology

Reviewer: American Journal of Physical Anthropology

Reviewer: American Journal of Primatology

Reviewer: Animal Behaviour

Reviewer: Behavioral Ecology

Reviewer: Behavioral Ecology & Sociobiology

Reviewer: Current Anthropolog

Reviewer: Folia Primatologica

Reviewer: Hormones and Behavior

Reviewer: International Journal of Primatology

Reviewer: Physiology and Behavior

Reviewer: Primates

Reviewer: The Leakey Foundation

Website development: Yayasan Palung Orangutan Conservation (http://www.saveGPorangutans.com),

Website development: Gunung Palung Orangutan Project (http://people.bu.edu/orang/)

Website development: Kibale Chimpanzee Project (http://www.fas.harvard.edu/~kibale)

Feld, Steven

- Invited Lecture: Jazz Cosmopolitanism in Accra, invited lecture, Dept. of Anthropology, New School for Social Research, Colloquium, October 2010.
- Invited Lecture: Acoustemic Stratigraphies: Recent Work in Urban Phonography, Concert and Conversation, Sensory Anthropology Laboratory and Film Studies Center, Harvard University, October 2010.
- Invited Lecture: Performances with Ghanaian master percussionist Nii Otoo Annan, School for Advanced Research, Santa Fe; Outpost Performance Space, Albuquerque, October 2010
- Invited Lecture: A Por Por Funeral for Ashirifie, screening/discussion of video documentary, Society for Ethnomusicology, Los Angeles, November 2010
- Invited Lecture: Hallelujah!, screening/discussion of video documentary with NEA Jazz Master Randy Weston and writer Willard Jenkins, New Mexico Jazz Festival, Albuquerque, July
- Member: Board of Managers, School for Advanced Research
- Member: Board of Directors, Acoustic Ecology Institute,
- Member: Board of Advisors, Foundation for Contemporary Art, Accra, Ghana
- Member: Academic Coordinating Committee
- Member: Critical World (Université de Montréal) Editorial Board
- Member: Journal of Anthropological Research Editorial Advisory Board
- Member: Asia Pacific Journal of Anthropology Editorial Advisory Committee
- Member: Perfect Beat Editorial Panel, Popular Musicology Online

Field, Les
- Award: Outstanding Teacher of the Year, OSET-UNM
- Award: Fulbright Research/Lecturing Fellowship (final year)
- Invited Presentation: "Illicit Excavation, Archaeology, Communities And Museums: An International Workshop On Complex Relationships And Future

- Field Work: Ethnology Field School in Palestine, May 2011
- Director: Peace Studies Program
- Chair: Undergraduate Committee, Department of Anthropology
- Member: Grants and Awards Committee, Latin American and Iberian Institute
- Member: National Panel, Fulbright-IIE Fellowships for the Andean Zone
- Member: UNM Panel, Fulbright-IIE Fellowships
- Editorial Board: Journal of Anthropological Research
- Editorial Board: Collaborative Anthropologies

Graves, Michael

- Graves, M.W., *Anthropology Graduate Student Success: Measures and Prospects*. Presentation made at the Anthropology Graduate Student Union Brownbag, University of New Mexico, Albuquerque, April 22, 2011.
- Graves, M.W., *A Preliminary Analysis of Scores Provided by the National Research Council for PhD Granting Programs in Anthropology*. Presentation made to the Anthropology Graduate Student Union, University of New Mexico, Albuquerque, October 29, 2010.
- Panel Member, Predoctoral Research Fellowship, Archaeology and Physical Anthropology, National Science Foundation, Arlington, VA
- RESEARCH ASSOCIATE, Department of Anthropology, Bernice P. Bishop Museum, Honolulu, HI.
- Ex-Officio Member, Advisory Board, Alfonso Ortiz Center for Intercultural Studies, Department of Anthropology and Maxwell Museum of Anthropology, University of New Mexico, Albuquerque, NM
- WORKSHOP PANEL MEMBER FOR NEW CHACO CULTURE HISTORICAL CENTER EXHIBIT, 2011, School for the Advanced Research on the Human Experience, Santa Fe, NM.

Hayashida, Frances

- Search Committee: Ethnology Position, Department of Anthropology, Fall 2010-Spring 2011
- Undergraduate Advisor: Department of Anthropology, Archaeology Subfield, Spring 2011
- Master’s Exam Committee: Department of Anthropology (Archaeology), Spring 2011
- Grants and Awards Committee: Latin American and Iberian Institute, Spring 2011
- External reviewer: tenure and promotion (one review)
- Reviewer: Current Anthropology
- Reviewer: Journal of Archaeological Science
- Reviewer: Journal of Anthropological Research
- Reviewer: National Science Foundation
- Reviewer: National Geographic
- Reviewer: Missouri University Research Reactor Archaeometry Program
- Member: Asociación Amigos de Museo Sicán, advisory group for the Museo Nacional Sicán, Peru

Hunley, Keith

- Program Committee: American Association of Physical Anthropologists.
Undergraduate Advisor: Evolutionary Anthropology. Department of Anthropology. UNM

Member: Maxwell Museum Publication Committee, Department of Anthropology. UNM

Member: Non-Tenure Track Faculty Review Committee. Department of Anthropology. UNM

Director: Undergraduate Committee, Department of Anthropology. UNM

Huckell, Bruce

Invited Presentation: Advances in Great Basin and Southwestern Archaeology: Papers in Honor of Don Fowler symposium at the 77th Annual Meeting of the Society for American Archaeology, Sacramento, California. *(West of the Plains: Paleoindians in the Southwest).* 2011

Radio interview: with Dan Gerrity, KSFR, Santa Fe, on the Waters et al. Science article concerning the Debra L. Friedkin site and its implications of understanding Clovis and pre-Clovis. 2011

Media: Assisted UNM Communications and Marketing with the filming of an institutional promotional commercial featuring “Discovery” at a mock archaeological site. 2011

Reviewer: *American Antiquity*

Reviewer: *Journal of Archaeological Science*

Reviewer: *Quaternary International*

Reviewer: National Science Foundation

External Reviewer: tenure and promotion case of Dr. Jason LaBelle, Department of Anthropology, Colorado State University.

Contract: National Park Service, Southwestern Region, Colorado Plateau Cooperative Ecosystem Studies Unit; *Documentation of Archeological Sites Impacted by Illegal Border Activities with the NPS Units of Chiricahua (CHIR) and Coronado (CORO)* ($94,983). 2010

Contract: National Park Service, Southwestern Region, Colorado Plateau Cooperative Ecosystem Studies Unit: *Continuing Documentation of Archeological Sites Impacted by Illegal Border Activities within the NPS Unit of Coronado (CORO)* ($59,636)

Member: Anthropology Department newsletter committee

Maxwell Museum representative to the Graduate Committee on Hibben scholarship matters

Chair and member of the University of New Mexico Press Committee

Investigation of the Beach Clovis Cache, southwestern North Dakota

Archaeological survey and assessment of site in Coronado National Monument, southeastern Arizona

Director: UNM Southwestern Archaeological Field School

Kaplan, Hillard

Served on National Academy of Sciences Panel for the Committee on Population to advise the National Institute on Aging on future directions for
the sociology and social epidemiology of aging, including meetings in Washington, D.C., and site visits to Harvard University

- Reviewer: National Science Foundation
- Editorial Board: *Human Nature*
- Editorial Board: *Biodemography and Social Biology*
- Reviewer: *PNAS*
- Reviewer: *Human Nature*
- Reviewer: *Proceedings of the Royal Academy*
- Reviewer: *American Economic Review*
- Reviewer: *Human Behavior and Evolution*

**Lancaster, Jane**

- Mentor: Sherry Nelson, Assistant Professor in Evolutionary Anthropology
- Secretary: National Alliance on Mental Illness, Albuquerque NM Chapter, 2002-date.
- Board of Directors: El Ranchito de Moncito, a sanctuary for non-human primates, especially small-bodied Old and New World monkeys, 2009-to date.
- Board of Directors: *True Acceptance*, a national dating website for individuals with mental illness.

**Long, Jeff**

- Ad hoc member: NIH Genetics Variation and Evolution Study Section - June meeting, Washington DC.
- Ad hoc member: NIH Genes and Genomes Study Section - March meeting, Washington DC.
- Poster presentation: Meeting of the American Association of Physical Anthropologists, Minneapolis Minnesota, April 2011
- Invited Presentation: Speaker Faculty Seminar, Department of Anthropology, University of Illinois, Urbana-Champaign, Talk Title: Archaic admixture in contemporary non-African human populations, September 17, 2010.
- Invited Presentation: Speaker Faculty Seminar, Department of Human Genetics, University of California at Los Angeles, Talk Title: Archaic admixture in contemporary non-African human populations, October 18, 2010.
- Invited Presentation: Speaker Faculty Seminar, Department of Human Genetics, University of Miami Medical School, Talk Title: The Aimless Genome, December 8, 2010.
Muller, Martin
- Member: Graduate student committee
- Editorial consultant: Human Nature
- Reviewer: Science
- Reviewer: University of Chicago Press
- Reviewer: Leakey Foundation
- Reviewer: American Journal of Human Biology
- Reviewer: Human Nature
- Reviewer: Animal Behaviour

Nelson, Sherry
- Presentation: Stable Isotopic Analyses of New Mexico Mummies with Multiple Tissues; Mitchell, Kieffer, Kitagawa, Mosley, Naranjo, Nelson, Atudorei, and Edgar; American Association of Physical Anthropologists; Minneapolis, Minnesota. 2011.
- Manager: University of New Mexico Anthropology cast collection
- Reviewer: Palaeogeography
- Reviewer: Palaeoclimatology
- Reviewer: Palaeoecology
- Reviewer: Quaternary International
- Reviewer: Human Nature

Oakdale, Suzanne
Narratives In Lowland South America: Unexpected Relations Between Persons, Language, And History,” Edinburgh, September 2010.


- Workshop Organizer: “Autobiographical And Biographical Narratives In Lowland South America: Unexpected Relations Between Persons, Language, And History.” Suzanne Oakdale and Magnus Course, Co-Organizers. Workshop held September 2010 at the University of Edinburgh.

- Workshop Organizer: Wenner-Gren Foundation (Workshop Grant), US$7,718

- Workshop Organizer: British Academy (Small Research Grant), 3,924.00 British Pounds

- Invited Presentation: "As possibilidades das narrativas autobiográficas na etnografia indígena na Amazônia;" Paper presented as invited speaker at Seminários ameríndios, Instituto de Filosofia e Ciências Sociais, Universidade Federal do Rio de Janeiro, June 20, 2011.

- Editorship: Member of a four-person group functioning as the book review editor for the Journal of Anthropological Research

- Member: Advisory Board for Tipiti: Journal of the Society for the Anthropology of Lowland South America

- Member: At-large board member of the Society for the Anthropology of Lowland South America

- Reviewer: University of Nebraska Press

- Reviewer: Journal of Anthropological Research

- Reviewer: National Science Foundation

- Reviewer: University of California Press

- Graduate Advisor: Ethnology

- Member: Graduate Committee

- Graduate Director 2010

- Member: Advisory Committee (2010)

- Member: ICLAS Committee at the Latin American and Iberian Institute

Pearson, Osbjorn

- Invited Presentation: Pearson, O., K. Krasnec, S. Daneshvari, and P. Holck. A possible case of acromegaly: the Viking chieftain buried in the Gokstad ship,


- Fieldwork: Participated in the Southeast Ethiopia Cave Survey’s excavation of Buticha Cave, May-June, 2011, directed by Dr. Zelalem Assefa, Smithsonian Institution.
- Local Arrangements Chair: 2010 annual meeting of the American Association of Physical Anthropologists, held in Albuquerque, New Mexico from April 13-17, 2010.
- International Referee: Journal of Anthropological Sciences (Rivista di Antropologia), Italy.
- Assistant Editor: Journal of Human Evolution
- Review Editor: Physical Anthropology, Journal of Anthropological Research
- Reviewer: Revista Española de Antropología Física
- Reviewer: Proceedings of the National Academy of Sciences
- Reviewer: Human Nature
- Reviewer: American Journal of Physical Anthropology
- Reviewer: Nature Education (Biological Anthropology)
- Reviewer: Evolutionary Anthropology
- Reviewer: The Anatomical Record
- Reviewer: American Journal of Physical Anthropology
- Reviewer: Wenner-Gren Foundation
- Reviewer: Leakey Foundation
- Reviewer: National Science Foundation
- Member: Institutional Review Board (IRB)
- Member: Annual Review Committee, Dr. Ronda Brulotte

Prufer, Keith
- Paper Presentation: Recent Results of Settlement Survey and Hinterland Household Excavations at Uxbenka, Toledo District, Belize. Ethan Kalosky and Keith M. Prufer. (Belize Archaeology Symposium: Archaeological Investigations in the Eastern Lowlands, Belize City, Belize) 2011

• Paper Presentation: Political Dynamics Reflected in Settlement Patterns and Household Archaeology at Uxbenká, Belize. Amy Thompson, Keith Prufer and Douglas Kennett. (76th annual meeting of the Society for American Archaeology, Sacramento CA.) 2011


• Director: Uxbenká Archaeological Project: Fieldwork in Belize March – July 2010

• IHOPE (Integrated History and Future of People on Earth) Maya working group: Organized meetings ASU, February 2010; Amerind Foundation August 2010.

• Member: UNM Press Committee
• Member: UNM Anthropology Colloquia Committee
• Member: UNM Anthropology, Archaeology Undergraduate Advisor
• Reviewer: Journal of Archaeological Science
• Reviewer: Latin American Antiquity
• Reviewer: Current Anthropology
• Reviewer: National Science Foundation

Singer, Beverly

• Search Committee: Interim Dean, University of New Mexico, Summer 2011
• M.A. Advisor: Anna Lapera, LAII, UNM, March 7, 2011
• Panelist: Democracy, Meritocracy and Academic Texts: Challenges for African, Latino, Asian and Native American Writers, Text and Academic Authors Association Conference, Albuquerque, NM, June 25, 2011
• Invited Lecture: “Race, Class and Cinema.” American Studies, UNM, November 15, 2010
• Keynote Speaker: American Indian Symposium, Grand Valley State University in Grand Rapids, Michigan, November 8, 2010
• Review: University of Arizona Press, *Skin Flicks: Native American Studies Scholars Look at the Indigenous Film Experience*, edited by Tom Holm and Steve Pavlik, September 2010
• Sabbatical - June 2010-July 2011
• Academic Authors Panel” “Claiming the Word: Indigenous Book Festival," Institute for American Indian Research, UNM SUB, November 18, 2010
• 3rd Year Review for Dr. Kristin L. Dowell, Assistant Professor of Anthropology, Department of Anthropology, University of Oklahoma, August 30, 2011

**Straus, Lawrence**

• Field Work: 15th excavation campaign at El Miron Cave (Cantabria, Spain), funded by grants from LSB Leakey Foundation and Government of Cantabria, summer 2011.
• Symposium Organizer/Chair: “The Magdalenian Settlement of Europe”. Congress of the International Union for Quaternary Research (INQUA), Bern, Switzerland (with D. Leesch & T.Terberger).
• Paper Presentation: The Magdalenian occupations of the Cantabrian Cordillera (No.Spain): the view from El Mirón Cave, 18.5-12 ky cal BP. INQUA Congress, Bern, Switzerland (with M.González Morales).
• Paper Presentation: La ocupación gravetiense de la Cueva del Miron y el contexto del arte arcaico de la cuenca del Asón. Coloquio Internacional sobre el Gravetiense Cantábrico, Estado de la Cuestión. Museo de Altamira, Santillana del Mar (with M.González Morales).
• Public Lecture: on El Mirón Cave, Southwest Seminars, Santa Fe, NM.
• Chair: Clark Field Library & Archive Policy Committee
• Library Liaison: Anthropology
• Member: Board of Archeologists
- Member: Faculty Evaluation Committee
- Reviewer: 7 manuscripts for professional journals (other than JAR)
- Reviewer: 3 grant proposals for funding agencies (private and public).
- Member: U.S. National Committee for INQUA (National Academy of Sciences).
- Member: INQUA Commission on Humans and the Biosphere.
- Chair: INQUA Working Group on Human Adaptations to the Late Last Glacial.
- Editorial Board Member: Trabajos de Prehistoria
- Editorial Board Member: Zephyru
- Editorial Board Member: Munib
- Editorial Board Member: Saguntum
- Editorial Board Member: Promontoria
- Editorial Board Member: Journal of Iberian Archaeology
- Editorial Board Member: Préhistoire Européenne
- Editorial Board Member: Monografías Arqueológicas (Universidad de Zaragoza).
- Consultant: Paleolithic art to Nutopia TV for a Discovery Channel program on human evolution.
- Interviewee: Nature commentary on an article by W.Roebroeks & P.Villa on early fire.
- Author: several “Insider Tips” for the National Geographic Traveler, Spain.

Wills, Wirt
- Presenter: Santa Fe Institute
- Presenter: Society for American Archaeology
- Presenter: Conference on Archaeoastronomy of the American Southwest
- Presenter: National Geographic Society Committee on Research and Exploration Site Inspection, India, January 2011.
- Fieldwork: Excavations at Wetherill Trading Post, Chaco Canyon (October)
- Fieldwork: Site Condition Assessment Survey, Chaco Culture National Historic Park (Funding: $93,000.00) ongoing year-round
- Museums Research: Smithsonian Institution (currently a Research Associate), periodic work with Chaco collections
- Member: National Geographic Society Committee on Research and Exploration (elected)
- Reviewer: National Science Foundation
- Reviewer: American Antiquity
- Reviewer: Journal of Anthropological Archaeology
- Reviewer: Journal of Archaeological Science
- Reviewer: Proceedings of the National Academy of Sciences
- Reviewer: *Thames and Hudson*
- Tenure review: Tulane University
- Consultant: Chief of Naval Operations Strategic Studies Group
- Member: Provost’s Task Force on Developing an Honors College
- Chair: Department of Anthropology Resources Committee
- Chair: Annual Review Committee for Heather Edgar
During the 2010-2011 publication year, *Human Nature* received a total of 85 submissions, a decrease of 10% over the previous year. Of these 59 were rejected, 21 were accepted, 5 are still in the review process. This gives a rejection rate of 61%, approximately the same as last year's.

Altogether in 2010 Springer. Science published 442 pages of *Human Nature* in four issues, for a total of 23 articles distributed in three general issues and one special issue: *Extrinsic Risk* edited by Dawn Neill. The special issue originated as a volunteered session at the 2008 Evolutionary Anthropology Section of the AAA meetings. Special issues for 2011 were: *Kinship: Quantitative and Evolutionary Approaches*, a double issue edited by Mary Shenk and Siobhan Mattison, that includes the 2009 EAS Best Student Award paper by Brian Wood entitled “Hadza Kinship and its Role in Residence Patterns and Food Sharing”. A second special issue is *Middle Childhood in Comparative Perspective* edited by Benjamin Campbell. Special issues forthcoming in 2012 are *The Evolution of Human Aggression*, edited by Elizabeth Cashdan and Steven Downes, and *Effects of Risk and Uncertainty in the Social and Physical Environment* edited by Carol Ember.

Circulation of the journal continues to grow. In 2010 *Human Nature* had 73 Institutional subscriptions as well as 237 online agreements (consortia, multi-site licenses, and site licenses). In total, as the result of the online deals, 6,676 more institutions have exposure to *Human Nature* according to the following demographic breakdown:

<table>
<thead>
<tr>
<th>Region</th>
<th>Number of Agreements</th>
<th>Institutional Exposure Type</th>
<th>2010</th>
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<td>Africa</td>
<td>2</td>
<td>Institutions with exposure via online deals</td>
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<tr>
<td>Australasia</td>
<td>87</td>
<td>Institutions with exposure via online deals</td>
<td>1,617</td>
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<td>Americas</td>
<td>67</td>
<td>Institutions with exposure via online deals</td>
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<tr>
<td>Europe</td>
<td>81</td>
<td>Institutions with exposure via online deals</td>
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<tr>
<td>Grand Total</td>
<td>237</td>
<td></td>
<td>6,676</td>
</tr>
</tbody>
</table>

Springer also reports Full-Text Downloads of 30,367 for 2010.
The Scimago Journal Rank for Human Nature in 2010 is 9th out of 368 Social Science (miscellaneous) journals. Its SJR rating is 0.104 and its H Index is 29. SJR is a measure of the journal’s relative impact on its field, based on the number of citations and number of articles per publication year as well as the ranking of the citing journals. The Journal Citation Reports ranking for 2010 is 9th out of 75 Anthropology journals and 7th out of 33 Social Science/Biomedical journals. The recently announced 1-year impact factor is 1.915 and the 5-year Impact Factor is 2.482.
In calendar year 2010, JAR received and reviewed 51 manuscripts. Each manuscript was read by the editor and two to four specialists. 42 manuscripts were received between January and June 2011. We have continued to note an 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 international exposure.

JAR has maintained its subscription base with ca. 1000 paying subscribers 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, Dean of Arts & Sciences, President, Zimmerman Library, Clark Field Archive, as well as indexing agencies both in the U.S. and abroad.

Volume 66, 2010 contained 588 printed pages: 16 articles, an Editor’s note, plus obituaries, 124 book reviews, and an index.

Volume 67, 2011, nos. 1, 2 and 3 have been published and no. 4 is in production.

JAR already has assigned articles for Volume 68, nos. 1 and 2, 2012.

As in past years, JAR has donated books to various UNM libraries:

Zimmerman (28)  Native American Studies (6)
Clark Field Archive (30)  LAII (3)
LGBT Center (2)  Art History Library (1)
Asian Studies (10)  Peace Studies (7)
Anthropology Students (40)  Dept of Anthropology (2)
Linguistics (6)

Subscription to JAR On-Line continued to increase from an initial 63 subscribers in 2006 to 208 currently. A pay-per-download feature for non-subscribers has been added to our electronic access hosted by MPublishing. We have renewed our contract with the MPublishing at the University of Michigan for a further 4 years. MPublishing charges a 15% hosting fee based on our on-line subscription pricing.

**JAR Distinguished Lectures 2010/2011**

Dr. Melinda A. Zeder (Smithsonian Institution).
Pathways to Animal Domestication.  
November 11, 2010

Dr. David Price (St. Martin's University)  
How the CIA and Pentagon Harnessed Anthropological Research during the Cold War.  
February 17, 2011

Editor:  
Lawrence G. Straus, Distinguished Professor

Editorial Board:  
Philip K. Bock, Patricia Crown, Steven Feld, Les Field, Louise Lamphere, Carole Nagengast, and David Stuart, together with Lawrence G. Straus.

Associate Editors: Steven Churchill (Duke University), John Comaroff (University of Chicago), Raymond DeMallie (Indiana University), E. Paul Durrenberger (Pennsylvania State University), Donald K. Grayson (University of Washington - Seattle), Michael Herzfeld (Harvard University), Jane Hill (University of Arizona), Barbara Mills (University of Arizona), Mary Moran (Colgate University), Jeremy A. Sabloff (Santa Fe Institute), Maureen Trudelle Schwarz (Syracuse University), Bruce Smith (Smithsonian, National Museum of Natural History), Mary C. Stiner (University of Arizona), Stephen A. Tyler (Rice University)

Book Reviews:

Committee for Ethnology and Linguistic Anthropology: Ronda Brulotte, David Dinwoodie, and Suzanne Oakdale with occasional assistance from Les Field

Archaeology and Paleoanthropology: Lawrence G. Straus

Physical and Biological Anthropology: Osbjorn Pearson

Copy Editor: June-el Piper*

Layout: Donna Carpio*

Employees: Ann Braswell, Business Manager/Book Review Copy Editor; Ethan Kalosky, Student Book Review Coordinator (Anth grad student)

Web Page:  
Upgraded and maintained since 2009 by Sean Bruna, Anthropology graduate student.
The **University of New Mexico Press** represented JAR at the Society of American Archaeology. The **School of Advanced Research** represented JAR at the Society of American Archaeology, Southwestern Anthropological Association, and the Society for Cultural Anthropology meetings.

Both entities represented JAR at the American Anthropological Association Meeting. For this service both were given back page advertising space on two issues (each) free of charge. An advertisement for JAR was placed in the October 2010 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

**JAR On-Line:** Hosted by MPublishing, University of Michigan

**Back Issues:** From 1945-2008 can be accessed through JSTOR

**Subscription Rates** for hard copy were increased in 2011 due to increases in USPS charges to $75.00 for institutions and $35.00 for individuals. The subscription fee for on-line access for institutions remained the same at $25.00 if combined with a hard copy order. On-line access only for institutions is $70.00. UNM students are offered a special annual rate of $25.00. Postage fees were raised to $12.00 for foreign subscriptions and a $10.00 postal surcharge was initiated on late foreign subscriptions. This will cover losses incurred in mailing individual copies rather than bulk mailing. Individual copies remain $18.00 for institutions and $14.00 for individuals (pricing includes postage).

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*includes a postal surcharge of $12.00

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<td>US Institution $100.00</td>
<td>Foreign Institution $112.00</td>
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MAXWELL MUSEUM OF ANTHROPOLOGY

ANNUAL REPORT

Fiscal Year 2011
JULY 1, 2010 – JUNE 30, 2011
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<td>Appendix 5: Maxwell Image Use</td>
<td>39</td>
</tr>
<tr>
<td>Appendix 6: Public Programs</td>
<td>40</td>
</tr>
<tr>
<td>Appendix 7: Professional and Public Service</td>
<td>44</td>
</tr>
</tbody>
</table>
EXECUTIVE SUMMARY

HIGHLIGHTS FROM THE MAXWELL MUSEUM - JULY 1, 2010 TO JUNE 30, 2011

OVERVIEW

- 15 full-time employees at Maxwell Museum and 12 in Office of Contract Archeology (OCA)
- 86,000 visitors to the Museum: 28,000 visitors to the Maxwell Museum and 58,000 to Hibben Center
- 47 volunteers provided 5,704 hours of service to the Museum
- The website (maxwellmuseum.unm.edu) had 1,893,172 hits, 84,767 sessions, and 714,913 pageviews
- The Museum installed a camera security surveillance system and a laser visitor counter system

TEACHING, STUDENT SUPPORT, AND CURRICULUM DEVELOPMENT

- The Maxwell continued its leadership role in advancing a proposal for Museum Studies graduate degree and undergraduate certificate program in Museum Studies. It is anticipated that the program proposal will be presented to the Faculty Senate and Board of Regents in the Fall semester, 2011.
- 12 courses were taught in Anthropology Department by Museum and OCA faculty and staff
- Museum faculty and staff assist graduate students in the Department of Anthropology by serving as:
  - Advisor for 8 graduate students
  - Chair or co-chair of dissertation committee for 10 graduate students
  - Member of dissertation committee for an additional 17 graduate students
  - Supervisor for 15 internships or individual research projects
- $356,550 in financial support was provided to 54 UNM students
  - Maxwell Museum employed 23 students from I&G and other unrestricted funds totaling $37,792
  - 5 graduate students received fellowships from the Hibben Trust totaling $55,937
  - 18 graduate students received a total of $143,833 in financial support through research grants to Museum faculty
  - 8 UNM students received financial support through employment by the Office of Contract Archeology for a total of $141,410

RESEARCH

- $2,094,368 in new funding from research grants and contracts awarded to Maxwell Museum and OCA faculty and staff in FY11, see Appendix 2.
  - 57 grants and contracts active during FY11
  - 40 research proposals submitted
  - 45 new grant and contract awards or extensions ($2,094,368):
    - 15 new grant or contract extensions awarded to Museum faculty and staff ($484,433)
    - 30 new contracts awarded to the Office of Contract Archeology ($1,609,935)
• Publications and Presentations: 15 chapters and articles in books and refereed journals, 15 papers/poster/abstracts at professional meetings, 24 technical reports, 1 book review, 3 articles for newsletters, and 3 presentations and publications by student assistants at the Maxwell.

CURATION, COLLECTIONS AND EXHIBITS

• New Exhibits:
  o Look Close See Far: A Cultural Portrait of the Maya Exhibit, opened December 3, 2010 – Central Gallery
  o Chaco Uncovered: The Field Schools 1929 to the Present, opened February 9, 2011 – Hibben Center Gallery

• Collaborative projects with tribes:
  o Pueblo of Acoma: Haak'u – A Plan to Prepare: The Sky City Cultural Center and Museum Initiative
  o A:shiwi A:wan Museum and Heritage Center at Pueblo of Zuni: Zuni Day School collection
  o Diné and Puebloan Intertribal Representation Meeting
  o Hopi Agricultural Photo Exhibit at the Hopi Health Care Center and the Moenkopi Elderly Center
  o Tribal participation and coordination in field research with the Ahtna Heritage Foundation (Athapaskan)
  o Research collaboration Sealaska Heritage Institute (Tlingit, Haida and Tsimshian)

• 266 new collections were added to the Museum (excluding collections by OCA)

MAXWELL MUSEUM ASSOCIATION

• The Maxwell Museum Association (MMA) concurred with the Museum’s proposed allocation of $1,326 from the UNM Foundation MMA Endowment to support public programs.
• The MMA awarded $500 to the Ruth Kennedy Lecture.
• The MMA provided a $1,200 sponsorship to the Maxwell’s annual Navajo Rug Auction.
• The 2011 volunteer recognition event was combined with the MMA Annual Meeting.

PUBLIC PROGRAMS AND EDUCATION

• 3,425 primary and secondary school students, teachers and chaperones attended 137 educational programs

• 4,300 people participated in Museum Public Programs

• 173 students in UNM classes used museum collections for educational purposes

• 6 public lectures provided by Museum and OCA staff

• 41 public events were implemented by the Maxwell

UNIVERSITY, PROFESSION, AND COMMUNITY SERVICE HIGHLIGHTS

• Richard Chapman, Director of the Office of Contract Archeology, chaired the UNM Historic Preservation Committee and chaired the UNM Board of Archaeologists.
- E. James Dixon, Museum Director, chaired the UNM President's Museums Council and Presented the Keynote address at “Frozen Pasts”, an international conference held in Trondheim, Norway

- Heather Edgar, Curator of Osteology and Assistant Professor, served as Executive Officer for the Dental Anthropology Association

- Mary Beth Hermans, Curator, Public Programs, served as Treasurer of the Albuquerque Museum Cooperative Council

- Bruce Huckell, Senior Research Coordinator, chair and member of the University of New Mexico Press Committee, served as Secretary for Phi Beta Kappa, Alpha of New Mexico chapter

- Kathryn Klein, Curator of Ethnology and Associate Director of the Ortiz Center, served as Museum Advisor to Acoma Haak’u Museum Foundation Board of Trustees

- David Phillips, Curator of Archeology, hosted the 2011 annual winter SiteWatch
INTRODUCTION

The mission of the Maxwell Museum of Anthropology is to increase knowledge and understanding of the human cultural experience across time and space. The museum serves this mission by collecting, maintaining, researching, and interpreting anthropological materials. The mission is based on recognition that material objects, as manifestations of the practical and symbolic lives of human groups, represent a tangible and irreplaceable source of information for the study of human behavior. A core concept of the Maxwell is the recognition that humans and human cultural systems differ biologically, materially, socially, and ideologically. The Museum celebrates the rich diversity of past and contemporary human achievement.

Numerous programs are located in 3 facilities that the Maxwell Museum manages: the Anthropology Building (11), the Hibben Center (15) and the Office of Contract Archeology (Lomas Blvd & University Blvd). The Museum offers permanent and temporary exhibits describing and interpreting anthropological subjects for all interested persons. The exhibit area is free of charge.

The Maxwell Museum is accredited by the American Association of Museums (AAM) and seeks to maintain the highest professional and ethical standards. The Maxwell's collections provide the primary source for its varied educational and exhibitions programs. Acquisitions are guided by ethical and legal considerations and existing strengths in the collections accumulated over the past 78 years. Priorities and procedures for accepting new acquisitions to the permanent collections are specified in the Museum’s Collections Policies. Accepted collections are accessioned, catalogued, and placed in appropriate storage areas of the Museum. The Museum’s human osteological and dental collections are an important resource to the anthropology, biology, and health science programs. Repatriation of objects in the Museum collections to Native American tribes or Native Hawaiian organizations is done in accordance with the procedures set forth by federal law and anthropological ethics.

In addition to exhibits and collections, the Maxwell Museum faculty conduct research, teach in the Department of Anthropology, and serve on graduate student committees. The Office of Contract Archeology (OCA) is on the “front line” of historic preservation in the State of New Mexico. Under contracts with state agencies and others, OCA identifies and preserves the state’s irreplaceable cultural resources. The Alfonso Ortiz Center for Intercultural Studies is administered jointly by the Maxwell Museum and Department of Anthropology.

The reputation of the Maxwell is enhanced by scholarly achievement, service to the community, and public programming in partnership with diverse cultural groups, including Native American tribes. The Maxwell is a well-known public extension of UNM and nationally recognized for its collections, scholarship, and relevance to its diverse constituents. By engaging young students in university activities, the Maxwell enhances their formal learning and develops a local pipeline for UNM undergraduate applicants. UNM student recruitment is enhanced by the Maxwell Museum’s international programming in partnership with the Department of Anthropology and the Alfonso Ortiz Center for Intercultural Studies.
ADMINISTRATION

Personnel
The Museum employs 15 full-time faculty and staff and 12 in the Office of Contract Archeology.

Maxwell Museum Personnel

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Martha Barnhart, BA</td>
<td>Accountant 2</td>
</tr>
<tr>
<td>Catherine S. Baudoin, MA</td>
<td>Archivist</td>
</tr>
<tr>
<td>E. James Dixon, PhD</td>
<td>Director, and Professor of Anthropology</td>
</tr>
<tr>
<td>Heather J. Edgar, PhD</td>
<td>Curator of Osteology</td>
</tr>
<tr>
<td>Amy L. Grochowski, MS</td>
<td>Assistant Professor of Anthropology (promoted 8/1/10)</td>
</tr>
<tr>
<td>Amy Hathaway, BFA</td>
<td>Curator, Education</td>
</tr>
<tr>
<td>Mary Beth Hermans, MA</td>
<td>Unit Administrator</td>
</tr>
<tr>
<td>Bruce B. Huckell, PhD</td>
<td>Curator, Public Programs</td>
</tr>
<tr>
<td>Kathryn K. Klein, PhD</td>
<td>Senior Research Scientist 1</td>
</tr>
<tr>
<td>Dorothy L. Larson, MA</td>
<td>Curator 3, Associate Prof Anthropology and Art History, Associate Director of Ortiz Center</td>
</tr>
<tr>
<td>David A. Phillips, PhD</td>
<td>Data Manager</td>
</tr>
<tr>
<td>Michael A. Rendina</td>
<td>Curator of Archeology</td>
</tr>
<tr>
<td>Shelley M. Simms, MFA</td>
<td>Preparator</td>
</tr>
<tr>
<td>George (Ian) Wagoner, MFA</td>
<td>Administrative Assistant 3</td>
</tr>
<tr>
<td>Joseph Williams</td>
<td>Exhibits Manager (retired 6/30/11)</td>
</tr>
<tr>
<td></td>
<td>Security Guard, JLS Security &amp; Investigations Inc.</td>
</tr>
</tbody>
</table>

Office of Contract Archeology

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Casey Bock</td>
<td>Administrative Assistant</td>
</tr>
<tr>
<td>Richard Chapman, PhD</td>
<td>Director, Research Assoc Professor of Anthropology</td>
</tr>
<tr>
<td>Leslie Cohen, MA, MS</td>
<td>Archaeologist</td>
</tr>
<tr>
<td>Robin Cordero, MA</td>
<td>Senior Archaeologist</td>
</tr>
<tr>
<td>Brian Cribbin, MA</td>
<td>Archaeologist</td>
</tr>
<tr>
<td>Peggy A. Gerow, PhD</td>
<td>Senior Archaeologist</td>
</tr>
<tr>
<td>Patrick Hogan, PhD</td>
<td>Assoc Director, Research Asst Professor of Anthropology</td>
</tr>
<tr>
<td>Alex Kurota, MA</td>
<td>Senior Archaeologist</td>
</tr>
<tr>
<td>Donna Lasusky, BA</td>
<td>Unit Administrator</td>
</tr>
<tr>
<td>Rebecca Melsheimer, MS, MA</td>
<td>Administrative Assistant</td>
</tr>
<tr>
<td>Ronald Stauber, BA</td>
<td>GIS/Cartography Specialist</td>
</tr>
<tr>
<td>F. Scott Worman, MS</td>
<td>Project Assistant</td>
</tr>
</tbody>
</table>

The Exhibits Manager retired on June 30, 2010, and a search for a replacement will be conducted in FY 12. The Museum hired, trained and supervised 24 students in academic year 2010-11, and 8 students were employed by OCA. The Museum had 47 volunteers who contributed 5,704 hours of service to the museum.
Visits to the Maxwell Museum by the Public
Approximately 28,630 people visited the Maxwell Museum in FY11.

In order to accurately record the number of visitors to the museum, laser counters were installed at entry/exit points in the Maxwell Museum and Hibben Center prior to July of 2010. The counters were monitored and recorded daily by gallery attendants. Research established a baseline average for In addition to entering and exiting the museum, visitors exiting and reentering to place parking passes on vehicles, lavatory access, and staff entry/exit. These statistics were subtracted from the laser count totals accurately record visitation.

Demographic information is requested when visitors sign in. Visitor demographics document visitation from the Albuquerque Metro area (including University faculty, staff, and students) was 56% and 13% from New Mexico outside Albuquerque. Visitation from the remaining 49 United States was 28%, and international visitors accounted for 3%.

Hibben Center
Approximately 58,600 people visited the Hibben Archaeological Center. The Hibben Center is an extension of the Maxwell Museum and used primarily for curation, education and research. Graduate and undergraduate Anthropology classes and labs are scheduled Monday through Friday. The Center houses the offices of Maxwell staff and includes a public gallery. Maxwell public programs including lectures, conferences, tours and other special events are held in the atrium, lecture hall, seminar rooms and collections area. The National Park Service occupies the upper floors of the Hibben Center where the archaeological collections of the Chaco Culture National Historical Park are housed.

Visitor counts are taken daily at each of three doors in the Hibben Center. Deductions are taken to allow for staff and the total count is divided by two.

Equipment, Facilities, and Remodeling Projects
David Phillips, Ian Wagoner, Amy Hathaway, and Michael Rendina were primarily responsible for building maintenance and safety coordination. Improvements include:

- Revised Donation Box strategy implemented with new cabinets.
- Exhibits Survey Station installed in Hibben Center Gallery.
- First phase of cost-effective, in-house Plexiglass display case replacement program completed.
- Gallery lighting upgraded with existing supplies to enhance visitor experience and reduce power consumption.

Security System
Installation was completed for a five-camera security system to cover the Maxwell Museum. This proposal addressed UNM Security and Information Technology (IT) concerns and specifications related to a centralized, camera network. In the future we will campaign for funds for camera installation of the Hibben Center.

Technology
New computer equipment and software acquired:
- Two netbooks – one for the Museum Store and one for Kathryn Klein
- Server (26 terabytes) purchased for the NMCADRe IMLS grant project for storage/replication of digital assets—installed at the Palace of the Governors Photo Archive in Santa Fe, summer 2011.

Museum Store
The Store had gross sales of $43,610. All items defined under Unrelated Business Income Tax (UBIT) criteria were eliminated from the store inventory. This massive effort was necessary to address past deficits resulting from the carry forward of excessive inventory acquired prior to FY 08, and FY 09 and UBIT fees. A deficit reduction plan is now in place and the museum store is projected to generate a profit on an annual basis that will be used to continue to reduce the deficit and support museum functions.

Maxwell Museum Association
The Museum continues to work with the 35-year-old non-profit Maxwell Museum Association (MMA) that provides funding to support Museum programs, exhibit production and openings, and facilitates volunteerism. Every year, the MMA provides recognition to Museum volunteers with longevity awards and MMA memberships. This year the MMA elected to no longer provide the membership awards. The 2011 volunteer recognition event was combined with the MMA Annual Meeting, held at the Maxwell Museum. The Museum presented James Vaughn an award in recognition of his service service as MMA Treasurer. Re-elected officers are Judith Lavender, President and Leslie Cohen, Secretary. New officers are James Vaughn, Vice President and Dennis Cox, Treasurer. In cooperation with the Museum Staff and under the leadership of MMA Board Member Alan Shalette, the Association produced and distributed one issue of “The Maxwell” sharing museum research, programs, student participation, and activities with museum constituents and the public. The MMA contributed $500 to the Ruth Kennedy Lecture award and provided a $1,200 sponsorship to the Maxwell’s annual Navajo Rug Auction. In addition, the MMA’s annual Book Fair to support the Maxwell Archives & Library Fund was held under the leadership of Board Member Alan Shalette.

COLLECTIONS AND EXHIBITS

EXHIBITS

New Exhibition Installation
- **Look Close See Far: A Cultural Portrait of the Maya Exhibit**, opened December 3, 2010 – Central Gallery
  - Guest Curator: Bruce T. Martin
- **Chaco Uncovered: The Field Schools 1929 to the Present**, opened February 9, 2011 – Hibben Center Gallery
  - Co-curators: Catherine Baudoin, Curator of Photographic & Digital Collections and Wendy Bustard, Curator of Chaco Culture National Historical Park Museum Collection.

Continuing Exhibitions
  - Co-curators: Kathryn Klein, Patricia Greenfield (author of publication), Amy Grochowski, Curator of Education, and Ruth Burgette-Jolie, Graduate Student Assistant in Ethnology

- Ian Wagoner, Director of Exhibits

- Elements of the Earth: Potters from Ohkay Owingeh Past and Present – Ortiz Center Gathering Space
  - Co-curators: Kathryn Klein and Clarence Cruz
  - Ian Wagoner, Director of Exhibits

Exhibitions Removed
- Slinging the Bull in Korea: An Adventure in Psychological Warfare, opened December 4, 2009 – Central Gallery
  - Guest Curators, John M. Campbell and Katherine Kallestad
  - Ian Wagoner, Director of Exhibits

- Exploring Museum Storage: The Maxwell Collection of Chimú Pottery – Hibben Center
  - Curator: Dragana Damijanovic
  - Ian Wagoner, Director of Exhibits

Exhibits Planned for FY 12
- Collier Navajo Photographs and Navajo Rug Collection exhibit, to be installed in Maxwell Museum, Central Gallery scheduled to open in May 2011
  - Curator: Catherine Baudoin

- Open Exhibits touchtable, to be installed in Central Gallery scheduled to open in December 2011
  - Co-curators: Catherine Baudoin, Curator of Photographic & Digital Collections and Amy Grochowski, Curator of Education

Exhibit Development
- Testimony of Hands Exhibit, Planning Committee for a National Endowment for the Humanities planning grant
- Collier Navajo Photographs and Navajo Rug Collection Exhibit
- Archeology Lab Bench, People of the Southwest, Southwest Gallery
  - Collaborators: Bruce Huckell, Amy Grochowski, and Ian Wagoner
- “We Evolve” Ancestors Planning Committee for a National Science Foundation Grant proposal for new Ancestors Gallery
- Mary Beth Hermans is working with Cheo Torres/Office of Student Affairs developing the Curanderismo: Healing and Ritual exhibit

The Maxwell Museum held a staff retreat on 1/24/11 at the Indian Pueblo Cultural Center. Debbie Howard from UNM Employee Organizational Development served as facilitator. The session objectives included reaching consensus on the criteria to determine future exhibits, the process for selecting exhibits and developing a process for inclusive, successful implementation.

As a result of this retreat, an Exhibit Panel was established consisting of faculty from the Anthropology department, a faculty member from the Music department, and faculty and staff from the Museum. The Maxwell Museum Exhibit Review Panel met on April 11, 2011. Eight proposals were distributed to the Panel reviewers prior to and at the meeting. The Panel discussed and refined the proposal
evaluation criteria based on their professional expertise and the outcomes of the Maxwell Museum’s staff retreat. The panelists submitted their evaluations of each proposal in May and letters were sent to proposers in July 2011.

ETHNOLOGY CURATION

Weaving Generations Together: Evolving Creativity in the Maya of Chiapas Mexico
Based on the book by Guest Curator, Patricia Greenfield. The exhibition includes built-in educational family activities to enhance visitor experience by learning about the transmission of knowledge and the process of learning weaving in contemporary Maya family life in Chiapas, Mexico. (Lead curator, K.Klein.) Opening event held in October 2010. 210 Attended opening event.

Look Close See Far: A Cultural Portrait of the Maya
Based on the book, By Bruce Martin, the photographic exhibition concentrates on symbols representing the eternal cycles of Maya life, religion, and their relationship to the land, sixteenth century Spanish conquistadors and modern life between then and now. (Lead Curator, K. Klein) Opening event held December 3, 2010. 230 attended opening event.

The Zuni Day School Experience
Finalization exhibition text and panels for the exhibition the Zuni Day School Project were designed in collaboration with the staff at the A:shiwi A:wan Museum, the Zuni Community Curators, and the Museum Maxwell Museum staff with an introductory statement from the Director, Jim Enote. The exhibition includes a touchscreen presentation in the gallery of the Zuni Day School materials in depth. The exhibition opened at the A:shiwi A:Wan Museum in Zuni in July 2011. 75-150 attended opening event in Zuni.

Support for Researchers
- 6 research requests for assistance from outside scholars for ethnology

Conservation/Collections Management
Each of the following items were given a condition survey (and cleaned), cataloged (i.e. given a new location and/or additional information was entered into the database) and then re-housed (in archival materials):

- 271 baskets from the Hatfield collections were cleaned, had conditions recorded, were rehoused in B16, and managed in the database.

- 219 kachinas from various donors (but predominantly Maxwell collection) were cleaned, had conditions recorded, were rehoused in newly cleaned cases were relabeled, and managed in the database.

- January 2011 all the campus loans were renewed and examined, including processing returned loans. This included doing condition reports on all items, and rehousing returned artwork. Total of 30 items.
During the Spring of 2011, an inventory of the B30 print room was completed and all of the item locations were added into the database as this information was missing or incorrect in oracle. total of 144 items

Last Fall 2010, Archaeological collections that were stored in the Ethnology basement, were consolidated including returning items to the Hibben Center and moving items to either the Flat file unit in B18 or Cab 28 in B17, and managing the database. total of approx. 600 items

The rolled textile storage room (B15) condition survey was completed in May 2011. This was an ongoing 10 year project that involved slowly replacing all the old textiles tubes with new acid free tubes that were cut to fit and textiles were rerolled, and rehoused.

New Acquisitions
There were 143 new acquisitions. All of which were donated:

2010.159 Robert Holzapfel donation of textiles from Guatemala and Bolivia, 6 items total
2010.170 Deneb Teleki donation of baskets from the Eastern US, 39 items total
2011.4 Hal Bell donation of dolls from around the world, 44 items total
2011.214 Marc Thompson donation of weaving tools and rain coat from Mexico, 18 items total
2011.215 Ed Gifford donation of a Navajo rug from the early 19th cent., 1 item total
2011.216 Hal Behl donation of textiles from around the world, 34 items total
2011.236 Jim Boone donation of a headdress from the Amazon, 1 item total

The Alfonso Ortiz Center for Intercultural Studies
The Alfonso Ortiz Center for Intercultural Studies program opened the Ortiz Center Gathering Space at the Maxwell Museum in September 2008. This space is located in the north gallery of the museum and is dedicated to the memory of the late UNM Anthropology Professor, Alfonso Ortiz. In partnership with the Anthropology Department, Kathryn Klein, Curator of Ethnology for the Maxwell Museum and Associate Director of the Ortiz Center, develops annual operations budgets and provided fiscal direction as it pertains to Ortiz Center endowment funds and other financial resources as well as report to an Advisory Board of National Scholars.

Ortiz Door to Anthropology Department Opens
Created a new student position for an Anthropology PhD candidate, to become the Ortiz Associate for the Ortiz Center Gathering Space located in the Maxwell Museum. The door leads to the Anthropology main hallway. The associate is active in the Ortiz Gathering Space by greeting visitors that come through the Anthropology hallway door. They interact with visitors and talk about the exhibit and the Ortiz Center programs and projects, as well as assist with Ortiz special events and programs. The Ortiz Associate may also develop an independent project or build upon an aspect of their graduate degree research committed to the mission of the Ortiz Center. The Ortiz Center will provide limited funds to the Ortiz Associate for approved projects.

Ortiz Center Passport to People Family Program
This Ortiz Center Passport to People Family program supports community and family involvement associated with current exhibitions and research. On March 5th 2010 “Project Runway: Designing Divas Maya Style,” A revised evaluation form for the program was filled out by all the adult participants of the
program. During the June 18th Passport event, “A Marvelous Maya Mercado,” families learned about marketing and creating their own crafts and by selling them in the “Maya game of life

Navajo Nation
The Ortiz Center is supporting the research and development of the exhibition and co-hosting with the Navajo Nation Museum, a small gathering of Navajo weavers at the NNM on June 29, 2011. Textiles and photographs for the exhibit were taken to the Navajo Nation Museum for the event. Local weavers had the opportunity to view and discuss the textiles and photographs while observances, opinions and reflections about these materials were recorded to include their voice in the exhibit. The exhibit may travel to the Navajo Nation in the future.

Puebloan Weaving Workshop at the Indian Pueblo Cultural Center, March - April 2011
The Ortiz Center is supporting fifteen scholarships for members of Puebloan communities to attend the weaving workshop at the IPCC (Jemez, Tamaya, San Felipe, Santa Clara, San Ildefonso, Ohkay Owingeh, Hopi, Piro-Manso-Tiwa of Guadalupe Pueblo, Santo Domingo, and Isleta). The workshop has eight sessions and is taught by Louie Garcia (Tiwa/Piro). Participants will spin their own yarn on a traditional Pueblo hand spindle as well as have the opportunity to learn to card and spin both wool and cotton with traditional Pueblo hand spindles. Students will warp their own loom to make a traditional Pueblo hair tie using the warp-faced method. Students will also have the opportunity to experiment with other techniques also common in Pueblo textile arts such as Pueblo embroidery, knitting, or crochet. The Ortiz Center continues to support projects that enhance the conservation of cultural identity and heritage. 16 people served.

Archeology Curation
Curator, David Phillips received 198 requests for assistance, and these are detailed in Appendix 1.

Osteology Curation
- Research Use of Collections: 2 UNM researchers and 5 researchers outside UNM
- Instructional Use of Collections: 47 uses of collections, plastic casts, and equipment
- Accessions: 19 accessions with 100 objects this year
- Deaccessions: Three individuals in the Office of the Medical Investigator (OMI) Doe collection were identified and returned to their families. Additionally, the Osteology Lab responded to 15 requests for temporary return to the OMI of unsolved case material for additional analyses. At the end of the fiscal year, full data had been catalogued for 3,495 individuals in the J.K. Economides orthodontic collection. Orthodontic data for 5,795 individuals are now available online at http://hsc.unm.edu/programs/ocfs. Data entry for the project is nearing completion with only 115 individuals left to catalogue.

Photo Archives

Support for Researchers
- 37 research requests from outside scholars for photo archives

Curator of Photo Archives, Catherine Baudoin, supervised:
• Received donation of Professor Ann Ramenofsky’s archaeological excavation photos from Comanche Springs.

• Continued to acquire digital images from the Archaeology & Ethnology collections, and more objects for the Testimony of Hands online exhibit (3,054 archaeology pots, 829 images of other archaeological material, and 330 objects from the ethnology collection). Over 2,522 high-resolution scans were created from photographs in various collections in the archive.

• Three volunteers working on: photographing collections; re-housing, adding new accession numbers and conserving Collier Collection; and re-cataloging Pottery Mound kiva mural images – 657 hours. One student intern volunteer working on numbering and re-housing Florence Hawley Ellis photo collections – 160 hours.

DATA MANAGEMENT

Data Manager, Dorothy Larson, assisted store staff in reconfiguring the POS system to comply with new UNM security guidelines. She also researched, made recommendations for membership development and provided technical support for 23 personal computers in collections/research department as well as additional computers in other departments as needed. Other accomplishments:

• 95 new collections were added to the collections database
• 4,800 object catalog records added to the collections database
• 15,850 records updated location information
• 102 requests for collection data (to support outside research, NAGPRA, and in-house data needs)

NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION ACT (NAGPRA)

• Ensured that the Maxwell Museum is in compliance with federal NAGPRA law, which requires bi-annual reports for tribes on new NAGPRA materials added to the collection.

• Working with students in the osteology laboratory, I completed a corrected inventory for the Jemez Notice of Inventory Complete (N1233), which was accepted for publication by the National NAGPRA office in Washington, D.C.

• Responded to a request from Santa Ana Pueblo for an inventory of all possibly affiliated NAGPRA collections added since 2008.

UNIVERSITY TEACHING

CURRICULUM DEVELOPMENT

Museum Studies Working Group
E. James Dixon, Director of the Maxwell Museum, continued to chair the campus-wide Museum Studies Working Group to develop a proposal and curriculum for a graduate degree and graduate and undergraduate certificate program in Museum Studies. The Executive Summary: Proposal for a Master
of Arts and Master of Science program in Museum Studies 2008, was reviewed and approved by the Provost, Dean of the College of Arts and Science, and two committees of the UNM Faculty Senate. Program review will continue review throughout FY 12.

Room 320 in the Hibben Center will serve as the administrative area for the Museum Studies Program and will include a departmental library and reference material and a seminar room. PPD Remodel began construction in Spring 2010 of the first phase and should be completed by Fall 2011. The first phase is estimated at $25,000.

COURSES TAUGHT AT THE UNIVERSITY OF NEW MEXICO

Anthropology 699: Dissertation (E. James Dixon)
Anthropology 698: Advanced Research (E. James Dixon)
Anthropology 586: Museum Practicum (E. James Dixon)
Anthropology 586/486: Museum Practicum, Fall 2010 and Spring 2011 (Kathryn Klein)
Anthropology 592: Managing Cultural Resources (Richard C. Chapman and Patrick Hogan)
Anthropology 593: Cultural Resource Management Archaeology (Richard C. Chapman and Patrick Hogan)
Anthropology 450/550: Disease and Human Evolution (Heather Edgar)
Anthropology 450/550: Advanced Osteology (Heather Edgar)
Anthropology 522: Lithic Analysis (Bruce Huckell)
Anthropology 375/575: Southwestern Archaeological Field School (Bruce Huckell)
Problems classes with three students (Heather Edgar)

GRADUATE STUDENT ADVISING AND DOCTORAL COMMITTEES

<table>
<thead>
<tr>
<th>Museum/OCA Staff</th>
<th>Advisor</th>
<th>Chair or Co-Chair of Dissertation Committee</th>
<th>Member Dissertation Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>E. James Dixon</td>
<td>4</td>
<td>3 and 1 MA</td>
<td></td>
</tr>
<tr>
<td>Richard Chapman</td>
<td></td>
<td>4 and 1 MA</td>
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</tr>
<tr>
<td>Heather Edgar</td>
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<td>3</td>
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</tr>
<tr>
<td>Bruce Huckell</td>
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<td>6 and 2 MA</td>
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<tr>
<td>Dave Philips</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>8</td>
<td>10</td>
<td></td>
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<tr>
<td>Total</td>
<td></td>
<td>17</td>
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</tr>
</tbody>
</table>

SUPERVISION OF STUDENT INTERNSHIPS, PRACTICUMS, AND COURSE RESEARCH

Catherine Baudoin
- One Hibben scholar – Fall 2010/Spring 2011

Bruce Huckell
- 7 students conducting individual research or readings classes (Fall 2010)
- 6 students conducting individual research or readings classes (Spring 2011)
- 1 student conducting individual research or readings classes (Summer 2011)
David Phillips
- Supervised museum practicums for credit, for three undergraduate students.

STUDENT FINANCIAL SUPPORT

Maxwell Museum provided $378,972 in financial support to UNM students in FY11, including scholarships, research assistantships, Office of Contract Archaeology employment, and work-study employment. Not only did these 54 students receive funding, but they also made contributions to the Museum and were provided a learning experience.

Maxwell Museum Financial Support for University of New Mexico Students

<table>
<thead>
<tr>
<th>Source of Support</th>
<th># of students</th>
<th>Total Funding</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hibben Trust</td>
<td>5</td>
<td>$55,937</td>
<td>All received tuition and health insurance.</td>
</tr>
<tr>
<td>Research Grants</td>
<td>18</td>
<td>$143,833</td>
<td>Majority received tuition and health insurance.</td>
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<td>OCA Employment</td>
<td>14</td>
<td>$141,410</td>
<td></td>
</tr>
<tr>
<td>Student Employment</td>
<td>23</td>
<td>$37,792</td>
<td>$2,051 in direct University funding (I&amp;G) and $35,740 from other funding sources such as non-endowed and endowed.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>54</strong></td>
<td><strong>$378,972</strong></td>
<td></td>
</tr>
</tbody>
</table>

ASSISTANCE PROVIDED TO TEACHING DEPARTMENTS AT UNM

Richard Chapman
- Invited Lecturer for the Science Colloquium class, UNM Gallup Branch (Paula Watt, Instructor)
  4/22/11

Amy Grochowski
UNM class visits to the People of the Southwest exhibition from the Department of Education
- UNM Honors Program – 27 students (Spring 2011)
- Provided program on object-based learning to 40 teachers in the Picturing America program given by the UNM Art Museum education department, September 2010
- Established partnership with LAII to develop a teacher’s curriculum for the Weaving Generations Together exhibition and cover the cost for buses needed to bring classes to see the exhibition.

Mary Beth Hermans
UNM class visits to the People of the Southwest, Look Close See Far and Weaving Generations Together exhibits
- Dr. Bridget Mullins – Spanish 101 – 50 students (Fall 2010)
- Dr. Bridget Mullins – Spanish 102 – 40 students (Fall 2011)
Patrick Hogan
- Research lecture for new Anthropology graduate students, November 2010

Bruce Huckell
- Assisted the Department of Anthropology to modify and refine the organization of the Public Archaeology MA program

Kathryn Klein
UNM class visits to collections from the department of Art and Art History and Anthropology:
- Anthropology of Heritage class – 15 students (Fall 2010)
- Honor students – 25 students (Spring 2011)
- Clarence Cruz – Ceramics class – 16 students (Summer 2010)

David Phillips
- Invited Lecturer on “Pottery Mound: A Pueblo IV Village in Central New Mexico” for UNM continuing education evening class (Spring 2011)

F. Scott Worman
- Fall 2010/Spring 2011: Mentor for the Albuquerque Public Schools Gifted Mentorship Program.

EDUCATION PROGRAMS FOR CHILDREN AND FAMILIES

School Programs
The Education Division served 3,425 primary and secondary school students, teachers and chaperones, giving 137 programs. Also, Heather Edgar provided tours of the Osteology lab with middle school, high school, and UNM students.

Bus Program
The Maxwell in Motion School Bus program provided one program for two classes in October 2010 with the plan that a representative from Wells Fargo Bank would observe and report back to the bank on the need for funding to allow this program to continue. Unfortunately the bank representative could not make it. Education curator Amy Grochowski submitted a $9,081 proposal to the McCune Foundation; however this proposal was not funded. The partnership established with the LAII has secured funding for a limited bus program in FY12.

Passport to People Family Days
The Education Division co-developed, implemented and facilitated 3 Passport to People Family Days in the 2010/2011 academic year featuring the exhibition Weaving Generations Together. Event titles, dates and attendance were as follows: Hearth and Home with a Maya Family, 10/9/2010 - 60 attending, Project Runway – Designing Divas Maya Style, 3/5/2011 - 35 attending and A Marvelous Maya Market, 6/18/2011, 150 attending.

Community Science Connections: The Museum education division is part of the Community Science Connections (CSC) partnership, funded by IMLS and administered by the NM Museum of Natural History and Science (NMMNHS), completed its second year in FY11. One Passport to People Family Day event,
one State Fair science and technology day and one Science of Sound and Music library kit was developed and funded by the project. The CSC partnership has built and strengthened collaboration among museums and community libraries that will be useful to both entities in the future.

**Cosmic Serpent project**
The Cosmic Serpent (CS) project ended with a culminating conference May 3-5, 2011 in Taos, NM. This conference brought participants together from each targeted region, Pacific Northwest, California and the Southwest, to share ideas, best practices, projects, programs and partnerships with all other participants. Curator of Education Amy Grochowski presented *Connecting the Dots: Astronomy Connecting Cultures and People* at one session with collaborator Laurel Ladwig, former planetarian at NMMNHS planetarium. Meeting the main goal of the Cosmic Serpent project, Curator Amy Grochowski has been invited to partner with informal science educators at the Center for Science Education at the Space Sciences Laboratory at the University of California-Berkeley to assist with the NASA funded Calendar in the Sky project. Outcomes of this project will include launching a website (Sept 2011) and providing professional development workshops at museums/science centers in 6 US metropolitan areas and on-line training for informal educators covering indigenous science, Maya culture, archaeoastronomy, NASA science and misconceptions regarding 2012 doomsday prophesies.

**Weaving Generations Together resource kit and guide**
Educational resources that will travel with the *Weaving Generations Together* exhibition are currently under development. These resources include Gallery Guides (completed in FY11), teacher’s pre- and post-visit curriculum (1st draft completed in FY11), exhibition tour outline (completed in FY11), suggested family day activities and events (and associated materials developed for family days), self-guided visit activity guide, and a resource kit guide for educators at other hosting venues to use with the hands-on materials associated with the exhibition. Eventually (by exhibition closing date) all written resources will be compiled and assembled in a binder, graphically designed to match the exhibition and be included in a trunk of hands-on resource materials that will travel with the exhibition.

**Open Exhibits**
The Education Division is involved with an NSF sponsored project managed by the exhibit development company Ideum to develop and install two touch screen exhibits in the museum. A large multi-gesture, multi-touch table will be developed as a collections viewer of many objects from the museum’s collections and a kiosk style touch screen exhibit will be developed for the *People of the Ancient Southwest* “lab bench” exhibit. In addition to installation of the touch screen, the lab bench exhibit will be completely updated using funds from PNM. Curators Amy Grochowski and Catherine Baudoin have met several times with Bruce Huckell and David Phillips to develop content and identify objects for this exhibit. Also, Curators Amy Grochowski and Catherine Baudoin have been reviewing the collections database and identifying objects that represent our collections and the overall mission of the museum for inclusion on the touch table exhibit.

**LAII project**
In partnership with the Latin American and Iberian Institute (LAII) and with funding from the US Department of Education (USDOE), Curators Amy Grochowski and Kathryn Klein have assembled and met with a development committee of APS and Belen School teachers to develop and test a pre- and post-visit curriculum to use in conjunction with a class visit to the *Weaving Generations Together* exhibition. In exchange for the work on the curriculum, teachers will receive funding for bus transportation and classroom resources, paid for by funds from the USDOE grant. This curriculum, once
tested and evaluated, will be part of a multi-resource education guide that will travel with the exhibition for use by educators throughout the country.

Pottery Mound site tours
David Philips, Curator of Archeology, provided 12 tours of collections areas and the Pottery Mound site, with approximately 100 people participating.

Paa-ko Site Tour
Richard Chapman, OCA Director, led two tours of the UNM-owned Paa-ko site for representatives of Santa Ana Pueblo and the Galisteo Basin Archaeological Sites Protection Act working group and UNM Continuing Education class “Old Pueblos of the Albuquerque Area.”

Community Events
The Education Division was in attendance at a number of community events throughout the year. Estimated numbers of people served:
- Celebra la Ciencia at the State Fair – 1,000
- Teacher’s Open House – 700
- Solar Sunday at the New Mexico Museum of Natural History Science Starlab – 55

Children’s Summer Camp program
The education division implemented one week of summer camp serving 21 children ages 8-12 July 19-23, 2010.

Volunteer Activities
Orientation for 5 potential new docents occurred on August, 30, 2010. Training began on September 13, 2010 and continued until February 21, 2011.
A draft curriculum for a Navajo and Apache culture trunk was completed in FY11. Artifacts for the trunk were reviewed by Navajo and Apache advisors. The program will be piloted and evaluated in FY12.
A training highlight this past year was a docent field trip to the Bosque Redondo Memorial State Park and subsequent ranger program about the history of the sight. Also on that trip, docents visited the Blackwater Draw locality, met and toured with Site Archaeologist George Crawford who also provided a private tour of the anthropology museum at Eastern NM University. Education docents and volunteers served 288 hours for the museum in FY 11.

PUBLIC PROGRAMS FOR ADULTS AND FAMILIES

Visitors to the museum: 86,000 (28,000 to the Maxwell Museum and 58,000 to the Hibben Center)
Visitors to Museum Programs: 4,300
41 events were coordinated and implemented

The Public Programs Division is charged with providing meaningful activities that contribute to the public’s understanding of the human cultural experience while enhancing the image of the museum within the local, state and international communities. The overall goal of the Public Programs division is to provide diverse educational programs that serve its various public constituencies. The division presents a variety of programs independently and in collaboration with University and community partners; conducts strategic planning and assessment; maintains and expands outreach efforts; and supports the museum through fundraising.
Mary Beth Hermans is the Public Programs Coordinator and directs a staff of four work study students and approximately 10 (as needed) community volunteers.

Strategic planning of public programs proposed that focused educational opportunities rather than the sheer number of events could result in increased attendance while providing deeper informal learning opportunities for museum audiences. Public programs were initiated that aligned with current national issues (Food & Life) while continuing some existing programs with supporting partners (Ancestors & Southwest lectures). The strategy resulted in over 3,825 university and community participants of all ages attending 41 free or minimally priced events, doubling attendance records from 2010. Public Programs served approximately 500 students, staff, and faculty at UNM Health and Wellness fair, Welcome Back Days, and the Earth Day Sustainability Fair.

Programs include exhibit openings, lectures, demonstrations, lunches, collections tours, and excursions. Public programs enhance visitor experience by offering educational experiences that support exhibits. The division also presents original programming: the Art & Life series pairs demonstrations of a traditional art with lectures on the culture that originated it; the Food & Life series which explores the cultural significance of traditional foodways and the archaeological, historic, and modern uses of regional botanical foods in health applications. In addition, Public Programs served approximately 500 people at university outreach fairs. (See appendix 6 for a roster of public programs)

Community Outreach

The public programs division conducts outreach and participates in collaborative program opportunities with University and New Mexico communities. These relationships include coordinated planning and publicity efforts and have the effect of strengthening ties within the constituencies served by the Maxwell.

University Collaborations

Coordination of programming in association with:
- Dept of Anthropology:
  - Anthropology Colloquia series
  - Anthropology Graduate Student Union
  - Hibben Scholars program
  - Journal of Anthropological Research
  - Ortiz Center for Intercultural Studies
- Dept. of Student Affairs
- Dept. of Student Activities
- Robert Wood Johnson Center for Health Policy at UNM
- Latin American and Iberian Institute
- UNM Human Resources
- Alumni Relations

Community Collaborations

FY11 collaborations include:
- Albuquerque Convention and Visitors Bureau
• Museum Cooperative Council of Albuquerque (Mary Beth Hermans served as Treasurer)
• Maxwell Museum Association (Ms. Hermans serves as the main liaison and co-chair of the Membership Committee)
• New Mexico Archeological Council
• Conference on Archaeoastronomy of the American Southwest

**Media Outreach**

Public Programs produces promotional publications for museum events that are widely distributed throughout New Mexico:

• Maxwell Museum of Anthropology Calendar published three times per year, distributed to over 1,500 community and state residents, and placed throughout the University and Albuquerque community
• UNM listserves:
  o Anthropology Undergraduate
  o Anthropology Graduate
  o Art & Art History
  o Chicano, Hispano, Mexicano Studies
  o Education
  o International Studies
• Flyers to Albuquerque Senior Centers, Community Centers and Libraries
• The University of New Mexico Office of Communication and Marketing features events through UNM channels
• Albuquerque Arts
• Albuquerque Journal
• Albuquerque the Magazine
• Weekly Alibi
• Prime Time Monthly
• Local IQ, Wild New Mexico
• New Mexico Kids!

**Program Evaluation**

Public Programs monitors visitor experience through data collection and assessment. Information gathered from visitors includes quantitative data on attendance both daily and at special events and demographics.

**Visitor Demographics FY11:**

• 56% Greater Albuquerque
• 13% In-State outside of Albuquerque
• 28% Within the United States
• 3% Foreign
Qualitative information on visitor preference is gathered using a survey instrument distributed at museum events. In FY11 public programs designed a survey instrument for Maxwell exhibits that can be used to inform future exhibits.

Development

Public Programs applied and was awarded $500 from the Ortiz Center for Intercultural Studies to support the Food & Life series. Fundraising excursions to the Dittert Site and Petroglyph National Monument were carried out in October and May, raising $1,200 for the division.

Navajo Rug Auction

In FY11 public programs initiated a major fundraiser to support general museum expenditures. The second annual Navajo Rug Auction (FY11) raised $10,000. It is an annual event under the direction of the Public Programs Division.

CLARK FIELD ARCHIVE & LIBRARY (CFAL) POLICY COMMITTEE

Clark Field Archive & Library is housed in the shared Anthropology and Maxwell Museum Buildings and jointly operated by the Anthropology Department, Maxwell Museum and the Maxwell Museum Association (MMA) with oversight by the Policy Committee, which has representation from each of the three units. Almost all of its collections of about 12,000 books and over 25 active journal titles have been donated, with the exception of several journal subscriptions supported by the Department and MMA. CFAL houses a complete collection of Department doctoral dissertations and selected masters’ theses, a map collection and an extensive collection of reprints. About half of these collections are unique on the UNM campus and are cataloged on Libros, UNM’s computerized system. It also serves as a repository for field notes and records that have been donated to the Museum by faculty and associates. The main source of CFAL funding is the MMA’s annual Albuquerque Antiquarian Book Fair, the oldest and largest such event in the state, usually held during the first full weekend in April.

As of June 30, 2011, the MMA elected to no longer manage or fund the Clark Field Archive. The Maxwell Museum Archives and Library fund was established at the UNM Foundation with donations totaling $27,000 from funds raised by museum volunteers Alan and Joyce Shallette through the annual Antiquarian Book Fair. This fund will be used to maintain museum archival efforts such as purchases for equipment, journal subscriptions, student support and book conservation supplies. An additional $24,747 was donated from this same fund to help remodel of Hibben room 320 to establish a reference library and study area for the proposed Museum Studies program students. UNM will now be the recipient of the selected book donations for both the Clark Field Library and the Museum Studies Reference Collection. The library donations will be state property and the books that are not selected will be surplus property. It is anticipated the Albuquerque Antiquarian Book Fair will still serve as the main fundraiser.

PUBLIC LECTURES BY MAXWELL MUSEUM STAFF

E. James Dixon
• “Frozen Pasts – Warm Futures,” Keynote address, 2nd International Glacial Archaeology Symposium, Norwegian University of Science and Technology, October 2010, Trondheim, Norway.

Peggy Gerow
• “The Fence Lake Mine Project: Researching Homesteads,” Talk given to Catron County Historical Society, Quemado, NM; June 2011

David Phillips

MAXWELL MUSEUM WEBSITES

• The Maxwell Museum website (maxwellmuseum.unm.edu) had 1,893,172 hits, 84,767 sessions, and 714,913 pageviews.
• The American Image: Photographs of John Collier, Jr. website (americanimage.unm.edu) had 460,307 hits, 58,448 sessions, and 219,596 pageviews.
• Two Flickr sites for the museum: John Collier Jr. and the Maxwell Museum site with the Soil Conservation photographs – continued to monitor and update. David Phillips maintains a UNM website (http://www.unm.edu/~dap/) based on his research. During the 2010-2011 academic year the site experienced 25,382 sessions and 93,773 hits. Bibliographic, archival, and collections-based research on the archaeology and prehistory of northwest Mexico are featured on this website.

A ‘Session’ is defined as a series of clicks on the site by an individual visitor during a specific period of time. A ‘Pageview’ is defined as a request from a visitor’s browser for a displayable web page, generally an HTML file. A ‘Hit’ is simply a successful request to the web server from a visitor’s browser for any type of file, whether an image, HTML page, an MP3 file, or any other type.

OFFICE OF CONTRACT ARCHEOLOGY (OCA) CONTRACTS

OCA primarily serves government agencies and their contractors in addition to private corporations. A complete list of OCA contracts is provided in Appendix 2. The following is a summary of OCA contractual activities in FY11.

• New contracts awarded: 30
• Total value of new contract awards: $1,609,935
The National Park Service tasks are encumbered through the Rocky Mountain Cooperative Ecosystem Study Unit (CESU) Agreement between certain Federal agencies and universities including The University of New Mexico, and reflect work being done for several different units within NPS including Fort Union National Monument, Pecos National Historical Park, White Sands National Monument, and the Long Distance Trails program for the NPS Southwest Region. The NM Department of Military Affairs tasks are being performed for the NM Army National Guard and reflect surveys, excavations, historical building studies and Tribal consultations for different National Guard armory facilities and training areas throughout the state. The GSRC tasks continue to reflect different survey and excavation projects in the southwestern part of New Mexico related to construction of the U.S. – Mexico border fence by U.S. Customs and Border Protection, although one project has involved survey of numerous communication cell tower facilities throughout the state for the CBP.

We have established a new relationship with White Sands Missile Range to conduct significance assessments and data recovery for several sites which should provide sustained work through FY 2012, and we were able to secure another large pipeline survey project from EPCO Holdings Inc. to conduct a cultural resources inventory along another 254 miles of pipeline corridor. This should translate into a multiyear data recovery and monitoring program when pipeline construction begins.

Significant developments affecting OCA's future financial status

- As noted in the last three year's reports, future planning must take into consideration that our service to State agencies (Dept. of Military Affairs, NMDGF), public school systems (APS), colleges (CNM), municipalities (Cities of Gallup and Santa Fe) and National Park Service units, generate between 17.5% and 20% IDC rather than the 50%-54% rate generated by Federal Government (DOD) and Private contracts. Work done for UNM generates no IDC at all. Our ability to off-set the lower IDC rates for these organizations with work from private and Defense clients has declined over the last four years, and at the end of FY 2010, our IDC budget was nearly zeroed out. Late in FY 2011 however were able to secure a new contract from EPCO Holdings for survey of a statewide pipeline expansion, and work from another private client (GSRC) has continued at a steady though lower volume pace. Coupled with this is significant new work encumbered from White Sands Missile Range, with the result our extremely low value of encumbered contracts in FY 2010 ($0.6 M) was raised to $1.6M for FY 2011, with an associated increase in estimated value of encumbered IDC ($112 K in FY 2010 to $392 K in FY 2011). Our actual IDC accrual rate for FY 2011 was still alarmingly low (only $172K) and reflects the high proportion of work being done at the lower State, Municipality and CESU IDC rates.

- Apropos of this reduction in IDC revenue caused by the changing nature of our client base, the continued erosion of IDC return to the College of Arts and Sciences and Departments implemented by the OVPR continues to be profoundly disturbing. The effective return rate of IDC generated by OCA during calendar year 2010 was 35% of IDC dollars generated by our department, reflecting a continued downward spiral of returned IDC which has been ongoing for several years. IDC return is a critical component of our ability to survive as a self-supporting division, especially in supporting the senior staff involvement in instruction and student advisement.
• We also suffered the second of two major setbacks in encumbering new contracts related entirely to difficulties Pre-Award introduced in contract language negotiations, and by the refusal of Controller to validate the leave benefit rates OCA must charge for senior staff leave eligible employees. NMDOT had awarded OCA a contract with a total value of $450K in April 2010, but because of disagreements between NMDOT and UNM Pre-Award over wording of particular contract clauses, negotiations delayed implementation into November 2010. After the contract wording issues were resolved, NMDOT requested a letter from the Controller’s office requesting an updated validation of the leave accrual rate we have been using since 1999 (last validated in a memo from CGA dated 10/18/99). Controller refused to re-validate, and NMDOT subsequently cancelled the procurement in January 2011. The work was then awarded to another firm. At this time, we are still operating under the original 1999 validation memo for all contracts. This issue must be resolved with Controller before it results in another failed negotiation.

RESEARCH

Research Publications and Professional Presentations

Professional publications and presentations by Maxwell Museum and Office of Contract Archeology include 15 chapters and articles in books and refereed journals, 15 papers/poster/abstracts at professional meetings, 24 technical reports, 1 book review, 3 articles for newsletters, and 3 presentations and publications by student assistants at the Maxwell. A list of publications is provided in Appendix 4.

In addition, the photo archives provided images from the Maxwell collections that were included in 19 publications and exhibitions. A complete list is provided in Appendix 5.
Appendix 1

Summary of Requests to Curator of Archeology

The attached table summarizes requests received by the archaeology program during the 2010-2011 fiscal/academic year. To prevent duplication, the table does not include requests received in previous years but still open in 2010-2011. The table also excludes requests routinely addressed during the initial telephone call or by return e-mail.

The table includes columns for previous fiscal and academic years, beginning in August 2003. In addition to requests by the general public, outside requests in 2010-2011 were from the following institutions, organizations, tribes, government agencies, and private firms:

Albuquerque Academy
Albuquerque Archaeological Society
Albuquerque Police Department
Amerind Foundation
Archaeological Conservancy
Arizona State University
Ask (magazine)
California Museum
CARTA (Russian teachers)
Colorado State University
Eastern New Mexico University
El Paso Museum of Archaeology
Friends of Coronado State Monument
Friends of Tijeras Pueblo
Furman University
Harvard-Radcliffe Club of New Mexico
Isleta Pueblo
KRQE (television station)
James Madison University
Manzano High School
Museum of Idaho
New Mexico History Museum
New Mexico Museum of Art
New Mexico State University
North Dakota State University
Office of Archaeological Studies

Project Hope
Public Defender’s Office, Albuquerque
Republic of Mexico
Site Steward Foundation
Site Stewards, Santa Fe National Forest
Southern Illinois University, Carbondale
SRI Foundation
Texas A & M University
Torrance County Archaeological Society
Universidad de Guadalajara
University of Arizona
University of Delaware
University of Leicester
University of Michigan
University of Oklahoma
University of Texas, Austin
University of Texas, San Antonio
University of Utah
University of Washington
US Army, Corps of Engineers
USDA Cibola National Forest
USDA Santa Fe National Forest
USDI Bureau of Land Management
USDI National Park Service
Village of Anaturuv Pass
Wheelwright Museum
### Appendix 1 continued

Maxwell Museum Archaeology Program, Summaries of Requests Made

<table>
<thead>
<tr>
<th></th>
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<td>Scholarly collections use and other assistance, UNM</td>
<td>16</td>
<td>11</td>
<td>9</td>
<td>18</td>
<td>19</td>
<td>9</td>
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<tr>
<td>Scholarly collections uses and other assistance, non-UNM</td>
<td>49</td>
<td>48</td>
<td>34</td>
<td>38</td>
<td>43</td>
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<td>Student uses and activities, UNM</td>
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<td>11</td>
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<td>4</td>
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<td>Student uses and activities, non-UNM</td>
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<td>3</td>
<td>0</td>
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<tr>
<td>Acquisitions or potential acquisitions, archaeological repository activities</td>
<td>23</td>
<td>17</td>
<td>20</td>
<td>13</td>
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<td>Loans or potential loans and returns of materials</td>
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<td>3</td>
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<td>NAGPRA, ARPA, and general repatriation</td>
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<td>1</td>
<td>5</td>
<td>1</td>
<td>3</td>
<td>2</td>
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<tr>
<td>Tours of collection areas or Pottery Mound</td>
<td>12</td>
<td>14</td>
<td>15</td>
<td>14</td>
<td>7</td>
<td>11</td>
</tr>
<tr>
<td>New volunteers</td>
<td>12</td>
<td>8</td>
<td>1</td>
<td>5</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Identify artifacts or provide information, mostly to public</td>
<td>51</td>
<td>59</td>
<td>44</td>
<td>40</td>
<td>67</td>
<td>49</td>
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<tr>
<td><strong>TOTAL</strong></td>
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<td><strong>175</strong></td>
<td><strong>144</strong></td>
<td><strong>145</strong></td>
<td><strong>173</strong></td>
<td><strong>151</strong></td>
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### Appendix 2

**Outside Sponsored Research In Force for Fiscal Year 2011 (7/1/10 – 6/30/11)**

Maxwell Museum and Office of Contract Archeology, University of New Mexico

<table>
<thead>
<tr>
<th>PDS NO.</th>
<th>Agency</th>
<th>Project</th>
<th>Award Duration</th>
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<td>185-994B</td>
<td>National Park Service</td>
<td>Fort Union National Monument Archeological Resources Inventory and Evaluation - Year 3 Funding</td>
<td>4/1/2010 - 12/31/2012</td>
<td>$30,000</td>
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<td>185-1018</td>
<td>Acoma Tribal Government</td>
<td>Cultural Resources Survey of 800 Acres on the Pueblo of Acoma Red Lake Ranch, Cibola County, New Mexico</td>
<td>6/16/2010 - 9/30/2010</td>
<td>$41,879</td>
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<td>185-1032</td>
<td>National Park Service</td>
<td>Cultural Resources Survey of the Pigeon’s Ranch Subunit of the Gorieta Unit of Pecos National Historical Park</td>
<td>9/30/2009 - 7/31/2010</td>
<td>$44,324</td>
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<tr>
<td>185-1034</td>
<td>New Mexico Military Affairs Department</td>
<td>Section 106 Consultations and Historic Building Documentation, Deming Readiness Center, Luna County, New Mexico</td>
<td>8/26/2009 - 12/31/2011</td>
<td>$42,028</td>
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<tr>
<td>185-1037</td>
<td>New Mexico Military Affairs Department</td>
<td>Cultural Resources Management Support Services</td>
<td>9/1/2009 - 12/31/2011</td>
<td>$71,375</td>
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<tr>
<td>185-1039</td>
<td>National Park Service</td>
<td>Cultural Resources Survey, Capulin Volcano National Monument, Union County, New Mexico</td>
<td>9/30/2009 - 1/30/2011</td>
<td>$11,750</td>
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<tr>
<td>185-1039A</td>
<td>National Park Service</td>
<td>Cultural Resources Report, Capulin Volcano National Monument, Union County, New Mexico, Supplement</td>
<td>4/15/2010 - 1/30/2011</td>
<td>$4,450</td>
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<td>185-1048</td>
<td>New Mexico Game and Fish Department</td>
<td>Class II Cultural Resources Inventory near Tierra Amarilla, Rio Arriba County, New Mexico: Final Report</td>
<td>8/2/2009 - 7/31/2010</td>
<td>$6,818</td>
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<td>185-1050</td>
<td>National Park Service</td>
<td>Cultural Inventory of the Canoncito Subunit of the Gorieta Unit, Pecos National Historic Park</td>
<td>8/1/2010 - 5/31/2011</td>
<td>$35,301</td>
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<td>185-1051</td>
<td>Gulf South Research Corporation</td>
<td>Cultural Resources Survey of Two Alternative Parcels for US Customs and Border Protection Station near Las Cruces, New Mexico</td>
<td>7/6/2010 - 5/1/2011</td>
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<td>City of Santa Fe</td>
<td>Cultural Resources Survey of Prairie Dog Relocation Tracts on BLM Land</td>
<td>7/1/2010 – 6/30/2011</td>
<td>$10,079</td>
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<td>185-1060</td>
<td>National Park Service</td>
<td>Archeological Survey at La Bajada Segment, Camino Real</td>
<td>9/30/2010 – 6/30/2014</td>
<td>$40,000</td>
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<td>185-1067</td>
<td>White Sands Missile Range</td>
<td>WSMR Five Sites Archaeological Study</td>
<td>9/30/2010 – 9/29/2011</td>
<td>$120,000</td>
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<tr>
<td>185-1069A</td>
<td>Gulf South Research Corporation</td>
<td>Cultural Resources Inventory and Reporting for CBP Communication Towers, Supplemental Funding</td>
<td>1/14/2011 – 7/31/2011</td>
<td>$37,889</td>
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<tr>
<td>185-1072</td>
<td>New Mexico Game and Fish Department</td>
<td>Cultural Resources Survey on Kewa Pueblo</td>
<td>11/17/2010 – 7/31/2011</td>
<td>$14,718</td>
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<td>PDS NO.</td>
<td>Agency</td>
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<td>Central New Mexico Community College</td>
<td>Archaeological Monitoring of Phase III Construction, CNM Westside Campus</td>
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<td>185-1080</td>
<td>Gulf South Research Corporation</td>
<td>Archeological Monitoring of Road Construction at La 125753 on BLM Lands in Luna County, New Mexico</td>
<td>3/4/2011 – 12/31/2011</td>
<td>$12,115</td>
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<td>185-1080A</td>
<td>Gulf South Research Corporation</td>
<td>Archeological Monitoring of Road Construction at LA 125753 on BLM Lands in Luna County, New Mexico Supplemental Funding</td>
<td>4/29/2011 – 12/31/2011</td>
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<td>185-1082</td>
<td>New Mexico Game and Fish Department</td>
<td>Archeological Testing at Three Sites near Lake Roberts, New Mexico</td>
<td>4/1/2011 – 7/31/2011</td>
<td>$30,120</td>
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<td>21320</td>
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<td>Archeological Curation</td>
<td>10/01/2005 – 9/30/2010</td>
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<td>30684</td>
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<td>Gateway to the Americas</td>
<td>5/15/2009 – 10/31/2011</td>
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<td>30728</td>
<td>Mississippi State University</td>
<td>Maxwell Museum Subaward from University of Tennessee: Isotopic and Elemental Analysis of the William Bass Donated Skeletal Collection and Other Modern Donated Collections</td>
<td>1/1/2011 – 3/31/2012</td>
<td>$22,526</td>
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<td>31038</td>
<td>National Science Foundation</td>
<td>Ice Patch Archeology</td>
<td>7/1/2008 – 6/30/2012</td>
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<td>31074</td>
<td>National Park Service</td>
<td>Lake Clark Ice Patch Archeology</td>
<td>8/1/2008 – 8/1/2013</td>
<td>$94,548</td>
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<td>31110</td>
<td>Department of Defense</td>
<td>Ongoing Curation of Kirtland AFB Archaeological Documents and Collections</td>
<td>9/25/2008 – 9/24/2011</td>
<td>$21,000</td>
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<td>35640</td>
<td>National Science Foundation</td>
<td>War During the Early Agricultural Period in the North American Southwest: Evaluating the Role of Material Need and Status</td>
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<td>Army Corps of Engineers</td>
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<td>PDS NO.</td>
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<td>8/30/2010 – 12/1/2011</td>
<td>$94,983</td>
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<td>36200</td>
<td>National Park Service</td>
<td>Archaeological Assessment of the Hidden Ridge Site in Tonto National Monument</td>
<td>5/1/2010 – 1/31/2012</td>
<td>$29,737</td>
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<tr>
<td>36479</td>
<td>National Park Service</td>
<td>Lake Clark National Park and Preserve Ice Patch</td>
<td>6/15/2010 – 8/1/2013</td>
<td>$107,000</td>
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<td>36582</td>
<td>National Park Service</td>
<td>Catalog Chaco Protection Sites Archaeological Collections (PMIS 42556)</td>
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<td>36599</td>
<td>Ideum Inc.</td>
<td>Open Exhibits</td>
<td>9/15/2010 – 9/15/2013</td>
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<td>36662</td>
<td>National Park Service</td>
<td>Sampling of Structural Wood at Montezuma Castle National Monument</td>
<td>2/14/2011 – 12/31/2012</td>
<td>$9,565</td>
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<tr>
<td>36768</td>
<td>National Park Service</td>
<td>Continuing Documentation of Archaeological Sites Impacted by Illegal Border Activities within the NPS Unit of Coronado National Memorial</td>
<td>5/15/2011 – 9/30/2012</td>
<td>$59,636</td>
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<td>37050</td>
<td>National Park Service</td>
<td>Lake Clark National Park and Preserve Ice Patch Archaeology: Year 4</td>
<td>6/15/2011 – 9/20/2014</td>
<td>$120,000</td>
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Total in-force: $3,023,679
Total new funding: $2,094,368
# Appendix 3

## Proposals Submitted for Fiscal Year 2011 (7/1/10 – 6/30/11)

Maxwell Museum and Office of Contract Archeology, University of New Mexico

<table>
<thead>
<tr>
<th>Proposal Number</th>
<th>Date Submitted</th>
<th>Agency</th>
<th>Project Description</th>
<th>Amount</th>
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<tr>
<td>36022</td>
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<td>National Park Service</td>
<td>Documentation of Archeological Sites Impacted by Illegal Border Activities</td>
<td>$94,982</td>
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<td>National Park Service</td>
<td>Year II: Dune and Hearth Mound Survey for White Sands National Monument</td>
<td>$45,406</td>
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<td>36352</td>
<td>8/09/2010</td>
<td>Gulf South Research Corporation</td>
<td>Archeological Data Recovery, Las Cruces CBP Station State Land Parcel</td>
<td>$149,809</td>
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<tr>
<td>36359</td>
<td>8/09/2010</td>
<td>Gulf South Research Corporation</td>
<td>Archeological Testing at Eight Sites, CBP Las Cruces Station, State Land Parcel</td>
<td>$56,618</td>
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<tr>
<td>36336</td>
<td>8/13/2010</td>
<td>Gulf South Research Corporation</td>
<td>Archeological Survey of Five Parcels near Presidio, Texas</td>
<td>$26,077</td>
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<td>36405</td>
<td>9/15/2010</td>
<td>US Army White Sands Missile Range</td>
<td>Data Recovery to Mitigate Adverse Effects at LA 62372, LA 64060, LA 64062, LA 64094, and LA 62410</td>
<td>$120,000</td>
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<td>36020</td>
<td>9/22/2010</td>
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<td>Corps of Engineers Curation, Beginning 2010</td>
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<td>36474</td>
<td>10/22/2010</td>
<td>NM Energy, Cultural Resources Inventory of 725 Acres near Mesa de las Viejas, Rio Arriba County, NM</td>
<td>$73,645</td>
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<td>11/10/2010</td>
<td>National Science Foundation</td>
<td>Gateway to Americas II</td>
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<td>11/16/2010</td>
<td>New Mexico Department of Game and Fish</td>
<td>Cultural Resources Survey on Kewa Pueblo Lands</td>
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<td>36526</td>
<td>11/22/2010</td>
<td>Quinton Odell</td>
<td>Archaeological Survey of Well and Tank near Fence Lake, New Mexico</td>
<td>$1,990</td>
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<td>36529</td>
<td>11/29/2010</td>
<td>Caprock Communications</td>
<td>Cultural Resources Survey of Cell Tower Improvements at the Caprock Communications Dark Canyon Site</td>
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<td>36543</td>
<td>12/08/2010</td>
<td>National Park Service</td>
<td>Test Excavations at Kozlowski Trading Post, Pecos NHP</td>
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<td>185-1069A</td>
<td>12/13/2010</td>
<td>Gulf South Research Corporation</td>
<td>Cultural Resources Survey of CBP Communication Towers: Supplemental Funding</td>
<td>$37,889</td>
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<td>36582</td>
<td>12/17/2010</td>
<td>National Geographic Society</td>
<td>Further Investigations at the Beach Clovis Cache</td>
<td>$28,757</td>
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<td>2/1/2011</td>
<td>National Park Service</td>
<td>Montezuma Castle National Monument</td>
<td>$7,097</td>
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<td>Proposal Number</td>
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<td>Design Plus LLC</td>
<td>Archaeological Monitoring of Phase III Construction, CNM Westside Campus</td>
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<td>36655</td>
<td>2/18/2011</td>
<td>Southern Sandoval County Arroyo Flood Control Authority</td>
<td>Cultural Resources Survey for Upper Barranca Flood Control Project</td>
<td>$19,564</td>
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<td>36660</td>
<td>2/21/2011</td>
<td>Albuquerque Public Schools</td>
<td>Cultural Resources Survey of 677 acres for the APS West Side School and Recreational Facility, Bernalillo County, New Mexico</td>
<td>$46,390</td>
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<td>37002</td>
<td>3/2/2011</td>
<td>National Park Service</td>
<td>NAGPRA: Documentation of Jemez Human Remains</td>
<td>$89,877</td>
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<td>36682</td>
<td>3/03/2011</td>
<td>Gulf South Research Corporation</td>
<td>Archeological Monitoring of Road Construction at LA 125753 on BLM Lands in Luna County, New Mexico</td>
<td>$12,115</td>
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<td>364165</td>
<td>3/07/2011</td>
<td>Gulf South Research Corporation</td>
<td>Survey in Animas Valley, Supplemental Funding SPAS 36416</td>
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<td>36703</td>
<td>3/15/2011</td>
<td>City of Gallup</td>
<td>Cultural Resources Survey of Proposed Phase III ATV/OHV Facility Improvements near the City of Gallup</td>
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<td>36768</td>
<td>3/17/2011</td>
<td>National Park Service</td>
<td>Continuing Documentation of Archaeological Sites Impacted by Illegal Border Activities within the NPS Unit of Coronado National Memorial</td>
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<td>36713</td>
<td>3/30/2011</td>
<td>White Sands Missile Range</td>
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<td>36985</td>
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<td>National Science Foundation</td>
<td>Doc Diss Improvement: An Archaeological Examination of Shoshone Collective Action</td>
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<td>36412 AMD 2</td>
<td>4/07/2011</td>
<td>Gulf South Research Corporation</td>
<td>Cultural Resources Survey of Communication Towers-Second Supplemental Funding Request</td>
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<td>4/15/2011</td>
<td>Gulf South Research Corporation</td>
<td>Archeological Monitoring of Road Construction at LA 125753- Supplemental Funding</td>
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<td>Archeological Testing at Three Sites near Lake Roberts, New Mexico</td>
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<td>National Endowment for the Humanities</td>
<td>Maxwell Museum Document Archive Preservation</td>
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<td>5/16/2011</td>
<td>Pueblo of Acoma</td>
<td>HCPI Documentation of a Historical House in the Village of McCarts, Pueblo of Acoma</td>
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<td>Archaeological Testing at the Sleepy Eye Site, Pecos NHP</td>
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<td>Tetra Tech Inc.</td>
<td>Regional Class 1 Overview and Synthesis of Existing Data, Carlsbad Field Office</td>
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<td>6/15/2011</td>
<td>Albuquerque Public Schools</td>
<td>Archeological Monitoring of Geotechnical Prospecting, APS West Side Sports Complex</td>
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<td>6/24/2010</td>
<td>National Park Service</td>
<td>Lake Clark National Park and Preserve Ice Patch Archaeology: Year 3</td>
<td>$107,000</td>
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</table>

TOTAL proposals submitted = 40
Appendix 4

Professional Publications and Presentations by Maxwell Museum and Office of Contract Archeology Staff and Students

Films and Videos:
Dixon, E. James

Huckell, Bruce
2011 Assisted UNM Communication and Marketing with the filming a portion of "Discovery", which entailed creating a mock archaeological excavation highlighting a student making a discovery. This is part of an institutional advertisement to be shown during telecasts of football and basketball games during the 2011-2012 athletic season.

MEDIA
Dixon, E. James
2010 Interview for Miller McCune Magazine. Interview article by published October 2010 issue.

2011 Public Radio Interview with Jacqueline Estus KNBA radio, Koahnic Broadcast Corporation (KBC) is a nonprofit, Alaska Native governed and operated media center located in Anchorage, Alaska. Interview. Broadcast and web (April).

Huckell, Bruce
2011 Radio interview with Dan Gerrity of KSFR, Santa Fe, on the Waters et al. Science article concerning the Debra L. Friedkin site and its implications for understanding Clovis and pre-Clovis.

RESEARCH PUBLICATIONS IN BOOKS AND REFEREED JOURNALS
Dixon, E. James


Edgar, Heather

Edgar, Heather, M Haueter, S Daneshvari, E Harris, and P Kroth
2011 Demonstrating an anthropological application of the Economides orthodontic collection: deciduous and permanent tooth size in European and Hispanic Americans. American Journal of
Edgar, Heather, C Kieffer, C Mitchell, K Kitagawa, C Mosley, P Naranjo, S Nelson, and V Atudorei

Edgar, Heather and L Noldner

Edgar, Heather, C Ragsdale and A Koehl

Hogan, Patrick, Kate Zeigler, Chris Hughes, and Alexander Kurota
2011 Native American Lithic Procurement Along the International Border in the Bootheel Region of Southwestern New Mexico. Solid Earth 2:75-93.

Huckell, Bruce


Klein, Kathryn

Worman, Scott and Hannah V. Mattson

PAPERS, POSTERS AND ABSTRACTS PRESENTED AT PROFESSIONAL MEETINGS
Cordero, Robin M.

Dixon, E. James

Dixon, E. James and M. Callanan

Dixon, E. James and N. L. Jarman

Gerow, Peggy A.
2010 Presented a paper at the BLM-NMAC-sponsored Historic Homestead Workshop held at UNM September 25 and 26, 2010. Paper entitled “Researching Historical Homesteads”

Grochowski, Amy
2011 Presented Connecting the Dots: Astronomy Connecting Cultures and People at one session with collaborator Laurel Ladwig, Cosmic Serpent Culminating Conference, May 3-5, 2011 in Taos, NM

Hogan, Patrick
2010 Native American Lithic Procurement Patterns and Sites in the Boot Heel of Southwestern New Mexico. Poster presented at the New Mexico Geologic Society Conference, Socorro, New Mexico.

Huckell, Bruce
2011 Presented an invited paper in the Advances in Great Basin and Southwestern Archaeology: Papers in Honor of Don Fowler symposium at the 76th Annual Meeting of the Society for American Archaeology, Sacramento; West of the Plains: Paleoindians in the Southwest.

Kurota, Alexander, and Richard C. Chapman

Kurota, Alexander, and Leslie Cohen

Kurota, Alexander and David Holtkamp

Larson, Dorothy
2010 Why not typology? A Case Study from the Late Developmental-Coalition Period Transition in the Albuquerque District of the Northern Rio Grande. Paper presented at the 76th meetings of the Society for American Archaeologists, Sacramento, CA.


Phillips, David, K. E. Ziegler, L. J. Crossley, L. Schuyler, and K. E. Karlstrom

TECHNICAL REPORTS: OFFICE OF CONTRACT ARCHEOLOGY PUBLICATIONS
Chapman, Richard and Robin M. Cordero

Cordero, Robin M.


Cordero, Robin M., Brian Cribbin, and Richard C. Chapman

Cordero, Robin M., and Patrick Hogan
Cordero, Robin M., and Alexander Kurota  

Cordero, Robin M., F. Scott Worman and Brian Cribbin  

Cribbin, Brian  

Cribbin, Brian  

Gerow, Peggy A.  


Hogan, Patrick, William H. Doleman, and David V. Legare  

Hogan, Patrick and F. Scott Worman  
2010 Data Recovery Plan for LA 112841, an Archeological Site Located in the NMARNG Camel Tracks Training Area, Santa Fe County, New Mexico. Office of Contract Archeology, University of New Mexico.
Hogan, Patrick, F. Scott Worman, and Alexander Kurota

Kurota, Alexander
2010  *Cultural Resources Survey of Two Alternative Parcels for U.S. Customs and Border Protection Station near Las Cruces, Doña Ana County, New Mexico.* OCA/UNM Report No. 185-1051. Office of Contract Archeology, University of New Mexico, Albuquerque


Kurota, Alexander, and Robin M. Cordero
2010  *Cultural Resources Survey of Cell Tower Improvements at the Caprock Communications Dark Canyon Tower Site, Lincoln National Forest Lands, Eddy County, New Mexico.* OCA/UNM Report No. 185-1075. Office of Contract Archeology, University of New Mexico, Albuquerque

Kurota, Alexander, and Patrick Hogan

Kurota, Alexander, and Robin M. Cordero

Worman, F. Scott
2011  *Cultural Resources Inventory of the NMARNG Alamogordo Readiness Center, Otero County, New Mexico.* OCA/UNM Report No. 185-1006d. Office of Contract Archeology, University of New Mexico, Albuquerque.

**BOOK REVIEWS**
Phillips, David

**ARTICLES FOR NEWSLETTERS**
Cordero, Robin M. and Alex Kurota

Dixon, E. James

Klein, Kathryn
2010   “Making the Maya Exhibition,” in *The Maxwell Bulletin* Vol. 36 No. 2 July

**PUBLICATIONS AND PRESENTATIONS BY MAXWELL MUSEUM STUDENT ASSISTANTS**
Koehl AJ, Healy ME, Long JC.

Monteleone, Kelly and E. James Dixon

Appendix 5

Images from the Maxwell collections were included the following publications and exhibitions:

- Exhibit at the Indian Pueblo Cultural Center – historic pottery photos for *Gathering the Clouds - Many Art Forms, One Story*
- *Archaeology of Art in the American Southwest* – Marit K. Munson, Director, Trent University Archaeological Research Centre – AltaMira Press - Spring 2011
- *It's About Time: 14,000 years on New Mexico Art* – Joseph Traugott – NMNM NM Museum of Art centennial publication
- *Archaeology of the Southwest* – Linda Cordell/Maxine McBrinn – University of Colorado Boulder/ School for Advanced Research
- *Biology, Science for Life* – Belk/Borden – Pearson Publishing
- Educational exhibition for Madison Art Collection, James Madison University – Melanie Brimhall, Education Director
- *Amazing Maize: The Science, History and Culture of Corn* – exhibition at the Indiana State Museum, 2011
- Article in Psitta Scene Magazine published by World Parrot Trust – Andrew Somerville, Dept. of Anthropology, UC San Diego
- *The Salinas Province: Archaeology at the Edge of the Pueblo World* – Archaeology Southwest, Center for Desert Archaeology
- Educational publication for Cochiti Pueblo – Sarah Payne – Van Citters: Historic Preservation
- Dissertation – *Social Violence and Ceramic Resource Selection in the Gallina Area of the American Southwest* – Connie Constan – University of New Mexico
- Dissertation – *The Diurnal Path of the Sun: Ideology and Interregional Interaction in Ancient Northwest Mesoamerica and the American Southwest* – Michael Mathiowetz – University of California, Riverside
- Senior Honors Thesis – online presentation of South American pottery – Samantha Doyle – University of New Mexico – Fall 2010
## Appendix 6

### Roster of Public Programs

<table>
<thead>
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<th>Date</th>
<th>Program</th>
<th>Description</th>
<th>Location</th>
<th>Fee</th>
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<tr>
<td>July</td>
<td>Life &amp; Art</td>
<td>Celebrate music from Nigeria! Okonfo Rao Kawawa combine drums, dance, balafon and more and create polyrhythmic and melodic music.</td>
<td>Free; Museum 1 p.m.</td>
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<td>10</td>
<td>Indian Bread Baking</td>
<td>Oven bread, baked fresh in the Maxwell's horno. Indian tacos &amp; more by the Edaakies of Isleta Pueblo.</td>
<td>Free; Museum Courtyard; 11 a.m. - 3 p.m.</td>
<td>$5</td>
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<tr>
<td>1 &amp; 15</td>
<td>Anthropology Colloquia</td>
<td>&quot;Huichol Art and Culture: Balancing The World.&quot; A lecture and book signing by authors C. Jill Grady and Peter T. Furst.</td>
<td>Free; Hibben 105 4 p.m.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Collections tour</td>
<td>Tour the archeology, ethnology and photo archive with curators Dave Phillips, Kathryn Klein, &amp; Catherine Baudoin. A UNM Homecoming event.</td>
<td>Free; Collections 1 - 3 p.m.</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>MAYA lecture</td>
<td>&quot;Weaving Generations Together: Evolving Creativity of the Maya of Chiapas&quot; by Patricia Greenfield, author and guest curator of the exhibit.</td>
<td>Free; Hibben 105 7 p.m.</td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>Exhibit Opening</td>
<td>Weaving Generations Together: Evolving Creativity of the Maya of Chiapas explores how textile traditions have changed in Zinacantán a Maya community in highland Chiapas, Mexico. Preview exhibit with photographer Lauren Greenfield, 5 p.m.</td>
<td>Free; North Gallery 5 - 8 p.m.</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Indian Bread Baking</td>
<td>Oven bread, baked fresh in the Maxwell's horno. Indian tacos &amp; more by the Edaakies of Isleta Pueblo.</td>
<td>Free; Museum Courtyard; 11 a.m. - 3 p.m.</td>
<td>$5</td>
</tr>
<tr>
<td>6 &amp; 20</td>
<td>Passport to People Family Program</td>
<td>The Ortiz Center presents: Ixchel's Learning Tree of Life: Hearth and Home with the Maya Family. Celebrate the harvest and discover Maya life: grind corn, make tortillas, spin wool, and weave on a backstrap loom.</td>
<td>Free; Museum &amp; Courtyard 1 - 3 p.m.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>EXCURSION GUADALUPE RUIN</td>
<td>Join guides Tom Windes and Nasario Garcia for an archaeological and cultural tour of the Rio Puerco valley.</td>
<td>$75; Meet at Museum 8 a.m - 4 p.m.</td>
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Maxwell Museum of Anthropology, University of New Mexico
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Description</th>
<th>Fee</th>
<th>Location</th>
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<tbody>
<tr>
<td>3, 13 &amp; 17</td>
<td>Indian Bread Baking</td>
<td>Oven bread, baked fresh in the Maxwell’s horno. Indian tacos &amp; more by the Edaakies of Isleta Pueblo.</td>
<td>$5</td>
<td>Museum Courtyard 11 a.m. - 3 p.m.</td>
</tr>
<tr>
<td>11</td>
<td>XXXI JAR Lecture</td>
<td>“Pathways to Domestication.” Archaeobiologist Melinda A. Zeder of the National Museum of Natural History/Smithsonian Institution looks at universal features of animal domestication.</td>
<td>Free</td>
<td>Anthro 163 7:30 p.m.</td>
</tr>
<tr>
<td>12</td>
<td>XXXI JAR Lecture</td>
<td>“Current Thoughts on the Lead-up to Plant and Animal Domestication in the Eastern Fertile Crescent.” A discussion of Dr. Zeder’s current work on human behavioral ecology models.</td>
<td>Free</td>
<td>Anthro 248 12:00 p.m.</td>
</tr>
<tr>
<td>13</td>
<td>NMAC conference</td>
<td>New Mexico Archeological Council 2010 Fall Conference “Indigenous Mobile Groups of the Protohistoric and Historic Periods.” Registration required. $20 NMAC members, $45 nonmembers (includes one year membership)</td>
<td>$20</td>
<td>Hibben Center 9 a.m. - 4 p.m.</td>
</tr>
<tr>
<td>20</td>
<td>Navajo Rug Auction</td>
<td>An afternoon of extraordinary handwoven Navajo rugs. See a variety of styles, learn their origin and bid on your favorite. Benefit for the Maxwell and Navajo weavers.</td>
<td>Free</td>
<td>Prairie Star Restaurant 1 p.m.</td>
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**December**

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<tr>
<th>Date</th>
<th>Event</th>
<th>Description</th>
<th>Fee</th>
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<tbody>
<tr>
<td>3</td>
<td>Exhibit Opening</td>
<td>Look Close See Far, A Cultural portrait of the Maya Indians. Photographs by Bruce T. Martin document Maya society and the world they inhabit. Preview with the photographer 5 p.m.</td>
<td>Free</td>
<td>Museum 5-8 p.m.</td>
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**January**

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<tr>
<th>Date</th>
<th>Event</th>
<th>Description</th>
<th>Fee</th>
<th>Location</th>
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<tbody>
<tr>
<td>27</td>
<td>Ancestors Lecture</td>
<td>“New Light on the Origin of Modern Humans.” Dr. Osbjorn Pearson professor of Evolutionary Anthropology, UNM.</td>
<td>Free</td>
<td>Hibben 105 7 p.m.</td>
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**February**

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<tr>
<th>Date</th>
<th>Event</th>
<th>Description</th>
<th>Fee</th>
<th>Location</th>
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<tbody>
<tr>
<td>9</td>
<td>Exhibit opening</td>
<td>Chaco Uncovered: The Field Schools 1929 to the Present. A visual history of the UNM and National Park Service collaboration at Chaco Culture National Historical Park. Curators talk 5 p.m. followed by reception.</td>
<td>Free</td>
<td>Hibben Atrium 5 - 7 p.m.</td>
</tr>
<tr>
<td>12</td>
<td>LIFE &amp; ART</td>
<td>“Ice Age Caves - Theatres of Illusion,” lecture and tour of the Maxwell cave by art historian and artist Barbara Olins Alpert.</td>
<td>Free</td>
<td>Hibben 105 1 p.m.</td>
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**March**

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<th>Date</th>
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<th>Description</th>
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<th>Location</th>
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<tbody>
<tr>
<td>3</td>
<td>Kennedy Lecture</td>
<td>“Active Tuberculosis Risk Factors and Disease Experience in Monterrey, Mexico” lecture by Bonnie N. Young, M.A., M.P.H.</td>
<td>Free</td>
<td>Hibben 105 4 p.m.</td>
</tr>
<tr>
<td>Date</td>
<td>Event Description</td>
<td>Fee</td>
<td>Location</td>
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<tr>
<td>5</td>
<td>Passport to People Family Program</td>
<td>Free</td>
<td>Museum 1 - 3 p.m.</td>
<td></td>
</tr>
<tr>
<td>6 &amp; 20</td>
<td>Indian Bread Baking</td>
<td>$5</td>
<td>Museum Courtyard 11 a.m. - 3 p.m.</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Excursion Dittert Site &amp; community, occupied in AD 1200 may represent groups of people moving south from the Mesa Verde region. MMA discount, UNM tuition remission available.</td>
<td>$75</td>
<td>Meet at Museum 8 a.m. - 4 p.m.</td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>1 &amp; 2 Antiquarian Book Fair 20th Annual Fair! Rare, out-of-print books, maps, photos, and collectibles in diverse subjects. Silent auction Friday evening. Benefit for Maxwell Archives</td>
<td>$6 F</td>
<td>UNM CE 5-9 p.m.</td>
<td></td>
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<td></td>
<td></td>
<td>$2 S</td>
<td>10 a.m. - 4 p.m.</td>
<td></td>
</tr>
<tr>
<td>6 &amp; 20</td>
<td>Indian Bread Baking</td>
<td>$5</td>
<td>Museum Courtyard 11 a.m. - 3 p.m.</td>
<td></td>
</tr>
<tr>
<td>29 &amp; 30</td>
<td>Food &amp; Life A Place at Mother Earth’s Table Cacao demonstration by Mark Scicenti “Chocolate Consumption, Exchange, and Ritual in the American Southwest.” Patricia L. Crown, Distinguished Professor of Anthropology UNM. Reception follows. “First Cup of the Day: Coffee, Tea, and Chocolate The Drinks that Fuel our World.” Lisa Huckell. Wild Plant Tasting: Sample modern beverages that use ancient ingredients.</td>
<td>Free</td>
<td>Hibben 104 3 p.m. Anthro 163 7 p.m. Lecture 2 p.m. Lecture 3 p.m. Tasting</td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>4 Indian Bread Baking</td>
<td>$5</td>
<td>Museum courtyard 11 a.m. - 3 p.m.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Store Sale! Annual Graduation week sale! Discounts throughout the store. Find the perfect graduation gift and support local artists, fair trade artisan organizations, and the Museum’s educational mission.</td>
<td>Free</td>
<td>Museum Store 10 a.m. - 4 p.m.</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>EXCURSION</td>
<td>Event Description</td>
<td>Fee</td>
<td>Location</td>
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</tr>
<tr>
<td>14</td>
<td>EXCURSION</td>
<td>“What You Don’t Know About Petroglyph National Monument.” Dr. J.J. and Jean Brody and Dr. Milford Fletcher, Chief Scientist, Southwest Region, NPS led the team that documented 28,000 elements over 7 years. Tour hidden areas with the experts.</td>
<td>$50</td>
<td>Meet at the Petroglyph Monument 9 a.m. - 1 p.m.</td>
</tr>
<tr>
<td>16 &amp; 17</td>
<td>PUBLIC LECTURE Thursday</td>
<td>“Under the Southwest Skies,” Edwin Krupp, Griffith Observatory</td>
<td>Free</td>
<td>Anthro 163 7 p.m.</td>
</tr>
<tr>
<td>16 &amp; 17</td>
<td>PUBLIC LECTURE Friday</td>
<td>“The 2012 Phenomenon: Maya Calendar-keeper,” John B. Carlson</td>
<td>$35</td>
<td>IPCC 6 p.m.</td>
</tr>
<tr>
<td>18</td>
<td>Passport to People Family Program</td>
<td>The Ortiz Center presents “A Marvelous Maya Market.” Join us at our Maya mercado. Create your own crafts to keep or trade with fellow Maya merchants. Play the Maya game of life! Activities for the whole family!</td>
<td>Free</td>
<td>Museum 12:30 - 3:00 p.m.</td>
</tr>
</tbody>
</table>
Appendix 7

PROFESSIONAL AND PUBLIC SERVICE

The Maxwell Museum has several standing committees and all professional staff serve on one or more of these committees, as well as ad hoc committees. The service summarized here is at a campus-wide level, community service, or professional service.

Richard Chapman
- Chair, UNM Board of Archaeologists
- Chair, UNM Historic Preservation Committee

E. James Dixon
- UNM Board of Archaeologists
- Member, Board of Directors, Lamb Spring Archaeological Preserve, Douglas Co., CO
- College of Arts and Sciences Budget Committee
- Chair, Museum Studies Curriculum Committee
- Chair, Hibben Allocation Committee
- Chair, UNM Museum Council
- Member, Advisory Board, Ortiz Center for Intercultural Studies
- Member, Board of Directors, Maxwell Museum Association
- Member, Executive Committee, Maxwell Museum Association
- Member, Search Committee, Interim Dean of the College of Arts and Sciences, University of New Mexico
- Member: SPARC: Snow Patch Archaeology Research Cooperation (Advisory Committee), Norwegian University of Science and Technology and the Museum of Natural History and Archaeology, Trondheim, Norway
- Member, Clark Field Archive & Library (CFAL) Policy Committee
- Proposal Reviewer, National Science Foundation
- Proposal Reviewer, National Geographic Society
- Mid-Probationary Review Committee: Dr. Sherry Nelson
- Manuscript reviewer, Journal of Archaeological Science
- Manuscript reviewer, American Antiquity
- Manuscript reviewer, Quaternary International
- Manuscript reviewer, Science

Heather Edgar
- Dental Anthropology Association, Executive Officer 2009-2012
- Burial excavation permit holder, state of New Mexico, 2003-present
- UNM Board of Archaeologists

Amy Hathaway
- Member, Board of Directors, Maxwell Museum Association
- Member, Clark Field Archive & Library (CFAL) Policy Committee
Mary Beth Hermans
- Treasurer, Museum Cooperative Council of Albuquerque
- Member, Board of Directors, Maxwell Museum Association

Patrick Hogan
- UNM Board of Archaeologists

Bruce Huckell
- UNM Board of Archaeologists
- Anthropology Department newsletter committee member
- University of New Mexico Press Committee member
- Proposal Reviewer, National Science Foundation
- Manuscript reviewer, Journal of Archaeological Science
- Manuscript reviewer, American Antiquity
- Manuscript reviewer, Quaternary International

Kathryn Klein
- Member, Advisory Board, Ortiz Center for Intercultural Studies
- Chair, Inter-American Coalition
- Advisor, Acoma Haak’u Museum Foundation Board of Trustees

David Phillips
- Hosted the 2011 annual winter SiteWatch conference.
- Hosted the Bureau of Land Management-New Mexico Archeological Council workshop on historic homesteads.
ANNUAL REPORT
of the
DEPARTMENT of BIOLOGY

FY 2010–11
Annual Report
by:

Richard M. Cripps, Chair
Department of Biology
The University of New Mexico
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II. Publications  
A. Books Authored  
B. Books Edited  
C. Chapters in Books, Major Synthetic Reviews  
D. Articles in Refereed Journals  
E. Book Reviews  
F. Articles in Non-scholarly Journals  
G. Quasi-public Reports  
H. Abstracts (refereed or invited)  
I. Abstracts (contributed)  
J. Other  

III. Research Projects or Other Creative Work  
A. Grants  
   1. Submitted to all agencies in 2010  
   2. Awarded with 2010 initial start date  
   3. In force from previous years  
B. Other  

IV. Activities in Learned and Professional Societies  
A. Invited and Plenary Talks  
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E. Service on Editorial Board of Scholarly Journal  
F. Service as Officer in Professional Organization  

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N. Department Newsletter, Summer 2011 (in dept. copy only)
THE UNIVERSITY OF NEW MEXICO
DEPARTMENT OF BIOLOGY

FY 2010–2011
EXECUTIVE SUMMARY

The 2010–2011 academic year was another interesting one at UNM, beginning under the black clouds of budget rescissions, yet culminating with a short sunny spell enabled by the departure of administrators who had been problematical to the proper functioning of the department, college and university in general. We also approached a place where the budget cuts appeared to have reached their most extreme, and there was some faint hope that normal business might be resumed; albeit, from a funding level that has a new, lower, baseline.

Despite these challenges, and perhaps bolstered by its size and momentum, the Biology Department once again achieved terrific success by all of the measures that can possibly be applied, of which you will read below. While we are still facing significant cuts in state support for our units, it is hoped that the department will be shown sufficient freedom to use its resources wisely, in order to build upon these impressive achievements.

2010–11 AT A GLANCE

Undergraduate Students:
1. Number of declared Biology majors................................. 2,037
2. Number of graduated majors........................................ 220
3. Number of students enrolled in non-majors classes .......... 4,065
4. Total SCH production.................................................. 27,400
5. Number of undergraduates performing research........... 204

Graduate Students:
6. Number of graduate students....................................... 129
7. Number of graduate degrees awarded............................. 17

Faculty:
8. Number of faculty................................................... 45
   Number of retirements.............................................. 0
   Number of new hires.............................................. 0
   Number of vacancies................................................ 3
9. Number and amount of new grants generated................. 102
   ............................................................................ $15,871,593.00
10. Number and total amount of grants active .................. 213
    ........................................................................ $54,052,407.00
11. Number of research papers generated by faculty......... 118
Staff:
12. Number of I&G permanent staff in Biology.......................... 33
   Number of separations this year.................................. 1
   Number of hires this year........................................... 4
   Number of vacancies.................................................. 3
13. Number of total staff employed by Biology.......................... 122
   Number of separations this year.................................. 34
   Number of hires this year........................................... 30
   Number of research faculty......................................... 25
   Number of Post-doctoral students.................................. 13
   Number of work-study or student employees........................ 125
   Number of graduate students monthly.............................. 103

STUDENTS

Undergraduate Program

Overall Demand on Biology Courses and Programs: The overall demand upon Biology courses has risen sharply over the past five years, and continues to increase slightly, albeit as a lower rate. Our number of graduated students increased slightly over the last year, and our overall SCH production also increased a bit. It is hard to predict if these increases will continue: surely, much of the recent increase was due to the global economic decline and individuals coming back to school because they cannot find work; on the other hand, even before the recession hit, our number of majors was increasing precipitously. It will behoove us to stand prepared for further increases in student numbers, and to rally our limited resources accordingly.

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

<table>
<thead>
<tr>
<th></th>
<th>Fall 2007</th>
<th>Fall 2008</th>
<th>Fall 2009</th>
<th>Fall 2010</th>
<th>Spring 2009</th>
<th>Spring 2010</th>
<th>Fall 2011</th>
<th>Spring 2011</th>
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<tbody>
<tr>
<td>Undergraduate:</td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>A&amp;S</td>
<td>889</td>
<td>971</td>
<td>1,050</td>
<td>905</td>
<td>1,124</td>
<td>1,102</td>
<td>1,101</td>
<td>1,119</td>
</tr>
<tr>
<td>University College</td>
<td>436</td>
<td>389</td>
<td>551</td>
<td>368</td>
<td>579</td>
<td>531</td>
<td>617</td>
<td>509</td>
</tr>
<tr>
<td>Second Major</td>
<td>15</td>
<td>20</td>
<td>15</td>
<td>7</td>
<td>26</td>
<td>26</td>
<td>22</td>
<td>32</td>
</tr>
<tr>
<td>Total:</td>
<td>1,340</td>
<td>1,380</td>
<td>1,616</td>
<td>1,280</td>
<td>1,729</td>
<td>1,659</td>
<td>1,740</td>
<td>1,660</td>
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<tr>
<td>Graduate:</td>
<td>101</td>
<td>98</td>
<td>106</td>
<td>106</td>
<td>104</td>
<td>104</td>
<td>109</td>
<td>103</td>
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Table 2: Total Student Credit Hours (SCH)

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<tr>
<th>Year</th>
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<tbody>
<tr>
<td>1999-00</td>
<td>21,882</td>
<td>2003-04</td>
<td>22,883</td>
<td>2007-08</td>
<td>26,787</td>
</tr>
<tr>
<td>2000-01</td>
<td>21,358</td>
<td>2004-05</td>
<td>23,270</td>
<td>2008-09</td>
<td>27,441</td>
</tr>
<tr>
<td>2001-02</td>
<td>21,459</td>
<td>2005-06</td>
<td>24,155</td>
<td>2009-10</td>
<td>26,873</td>
</tr>
<tr>
<td>2002-03</td>
<td>21,832</td>
<td>2006-07</td>
<td>24,723</td>
<td>2010-11</td>
<td>27,400</td>
</tr>
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Table 3: Student Credit Hours by Semester

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<tbody>
<tr>
<td>Summer</td>
<td>1,359</td>
<td>1,330</td>
<td>1,330</td>
<td>1,379</td>
<td>1,316</td>
<td>1,514</td>
</tr>
<tr>
<td>Fall</td>
<td>11,502</td>
<td>11,316</td>
<td>12,399</td>
<td>12,940</td>
<td>13,353</td>
<td>13,668</td>
</tr>
<tr>
<td>Spring</td>
<td>11,294</td>
<td>12,077</td>
<td>13,058</td>
<td>13,122</td>
<td>12,204</td>
<td>13,732</td>
</tr>
<tr>
<td>Total</td>
<td>24,155</td>
<td>24,723</td>
<td>26,787</td>
<td>27,441</td>
<td>26,873</td>
<td>28,914</td>
</tr>
</tbody>
</table>

Table 4: Number of Students Registered in Core Courses, Fall 2007–Spring 2011

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall 2007</th>
<th>Spg. 2008</th>
<th>Fall 2008</th>
<th>Spg. 2009</th>
<th>Fall 2009</th>
<th>Spg. 2010</th>
<th>Fall 2010</th>
<th>Spg. 2011</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>390</td>
<td>360</td>
<td>341</td>
<td>338</td>
<td>364</td>
<td>357</td>
<td>371</td>
<td>336</td>
<td>2,857</td>
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<tr>
<td>202</td>
<td>254</td>
<td>279</td>
<td>259</td>
<td>221</td>
<td>212</td>
<td>230</td>
<td>233</td>
<td>275</td>
<td>1,963</td>
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<tr>
<td>203</td>
<td>175</td>
<td>144</td>
<td>213</td>
<td>193</td>
<td>215</td>
<td>177</td>
<td>213</td>
<td>202</td>
<td>1,532</td>
</tr>
<tr>
<td>204</td>
<td>137</td>
<td>166</td>
<td>174</td>
<td>189</td>
<td>176</td>
<td>180</td>
<td>172</td>
<td>179</td>
<td>1,873</td>
</tr>
<tr>
<td>Total</td>
<td>956</td>
<td>949</td>
<td>987</td>
<td>941</td>
<td>967</td>
<td>944</td>
<td>989</td>
<td>992</td>
<td>7,725</td>
</tr>
</tbody>
</table>

Non-Majors Service Courses: Our non-majors service courses, as alluded to above, continue to be highly popular. These courses are used partially for fulfilling university core requirements, but mostly as preparative courses for pre-professional programs, such as nursing and physical therapy. We saw an increase in enrollment in these courses of almost 500 students (13%). These classes are taught exclusively by our skilled cadre of lecturers, and I must acknowledge that they do a terrific job—it is extremely rare to hear of a complaint about these individuals, a fact made even more impressive by the very large numbers of non-majors credit hours that we generate.

Dr. Paul Farnsworth, our instructor of Biol. 110 (Biology Non-majors, the biology course that is most often used to fulfill non-majors' university core requirements), left us this last summer (2011) to sample the warmer and wetter climes of Florida's Atlantic coast, and currently we are in
the process of finding his replacement. In the meantime, this course (two sections per Fall and Spring semester) is being taught by PTIs.

Last year, we were concerned that we might have to limit the number of non-majors courses offered in order to meet rescission and demand elsewhere. Magically, however, money appeared at the right time (funny how that happens around here) and we were able to offer the courses on our current schedule.

We have been encouraged by the administration to consider offering online courses, and we are happy to explore this option. Given the cadre of regular contributors to our non-majors course, Biol. 123 (Biology for Health-related Sciences and Non-majors), it seems logical to start there. We are planning for this eventuality.

Table 5: Number of Students Registered in Beginning Biology Courses for Non-majors

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<tr>
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</thead>
<tbody>
<tr>
<td>110</td>
<td>556</td>
<td>609</td>
<td>585</td>
<td>584</td>
<td>542</td>
<td>519</td>
<td>563</td>
</tr>
<tr>
<td>123</td>
<td>791</td>
<td>1,028</td>
<td>987</td>
<td>1,397</td>
<td>1,172</td>
<td>1,237</td>
<td>1,241</td>
</tr>
</tbody>
</table>

Concerns about Upper-level Classes: We continue to value highly our upper-level classes, as these are the studies that set us apart from most other institutions in the state. While there was a foolish suggestion to practice cost “efficiency” for our upper-level classes, fortunately this did not come to pass. Nevertheless, our upper-level classes remain full, and we are hopeful that new incoming faculty will ease the high loads in these specialized courses.

Actions to Improve Our Undergraduate Program: Once again, we have been unable to do anything substantive to support our classes. We are still in belt-tightening mode, since we took much of the rescissions from our materials and services budget category, anticipating that we can rely solely upon course-fee income to support our courses. This will work over the short term, but it will ultimately hamper our instructional effectiveness if not fixed soon, such that we may have to resort to “cutting out paper doilies” (E.S. Loker, ca. 2008) in our laboratory classes.

I also would point out that for many years the materials and services budget had remained static, despite unprecedented increases in student numbers, some increases in staffing, and increases in the numbers of our instructional faculty. Each of these faculty and staff require offices, telephones, and office supplies, yet the budget for such functions has never increased for 20 years! Our annual telephone budget is ~$50,000 or more!! How can we continue to pay this bill without increases in a budget to support it?

In conclusion, if money is loosened up, I strongly and vigorously hope that the administration at least re-dresses the losses that have been borne, before carrying out new initiatives.

Undergraduate Research: One of the most important teaching activities in which we participate is the supervision of student research. Such training helps the students out in a number of ways: firstly, they receive experience doing something that they could not possibly do in the classroom; secondly,
these activities are usually strongly required of applicants to graduate schools, such that individuals with no experience are automatically rejected from many programs across the country; thirdly, we strongly believe that research activities enhance student attainment in the classroom; fourthly, providing students jobs on campus probably enhances their retention in school; finally, we note that having a safe and "homely" location on campus for students to park their stuff, heat lunch etc., as well as the emotional support that a research group provides, probably goes a very long ways to also supporting student achievement, retention, and graduation.

We are now in our third year of monitoring undergraduate student research activity, and we note a banner year of 204 such students. In addition, we record 25 instances where an undergraduate student was a co-author on a peer-reviewed manuscript. This achievement is impressive, and is a sharp increase over the 11 from last year (and nine from the year before). Students who participate in research describe it as a life-changing event, and how impressive is it that the future scientists will have received their first-ever publication while in the UNM's Biology Department? This is an amazing achievement for our students and the faculty who oversee this research. I also would like to acknowledge the several programs run by Biology faculty that support student research, which include: IMSD (Initiatives to Maximize Student Diversity, directed by Dr. M. Werner-Washburne); MARC (Minority Access to Research Careers, formerly directed by Dr. M.A. Nelson, and now Dr. D.L. Marshall); UnO (Undergraduate Opportunities, directed by Dr. J.A. Cook); and REU (Research Experiences for Undergraduates programs at the Sevilleta LTER [Long Term Ecological Research] Field Station (Drs. S.L. Collins and D.O. Natvig).

The administration would do well to ensure that this aspect of our teaching mission is recognized fully when it assesses faculty teaching loads, if it even values such an activity.

Degrees: We list 220 Bachelor's degrees awarded over the last year. This is an increase from the 207 of last year, although down from the 311 that were awarded in the previous year. Nevertheless, it is a continuing reflection of the high popularity of the Biology program. We acknowledge that a significant proportion of our graduates, and a notable fraction of our declared majors, are pre-professional students. Nevertheless, the interest in biological research has never been higher, and a great deal of this credit must go to our instructors, in both majors and non-majors courses, in extolling the fabulous world of biology. In addition, our several undergraduate and postgraduate training programs perform an outstanding job in exposing undergraduates to research opportunities. Thus, a real strength of our program is the ability to provide our students with new options once they complete their undergraduate degrees.

Table 6: Degrees Awarded in Biology (unofficial count obtained for Spring graduation; graduate degree numbers reflect those who attended the Spring departmental convocation ceremony).

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</tr>
</thead>
<tbody>
<tr>
<td>B.S.</td>
<td>213</td>
<td>132</td>
<td>229</td>
<td>227</td>
<td>268</td>
<td>287</td>
<td>232</td>
</tr>
<tr>
<td>B.A.</td>
<td>37</td>
<td>21</td>
<td>26</td>
<td>38</td>
<td>30</td>
<td>63</td>
<td>33</td>
</tr>
<tr>
<td>M.S.</td>
<td>7</td>
<td>7</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>
Graduate Program

The graduate program continues to do well in Biology. We now list 129 graduate students (25 more than last year); this increase does not necessarily reflect a number of students who have yet to graduate. It also recognizes our more aggressive approach to graduate admissions, since for several years we have been seeking students to TA classes from within our pool of candidates who have exhausted their eligibility. In addition, our students are becoming quite successfully at obtaining their own research awards (see below), and for each student who can buy-out their salary, it means another graduate slot we can offer to eligible applicants. Of course, we still provide strong support to our more senior students. I do not see a major problem with graduation rates, although these values are something that we could more effectively evaluate.

In terms of recruitment, we have aggressively targeted minority conferences (e.g., SACNAS [Society for Advancement of Chicanos and Native Americans in Science]) for graduate applicants, although this has not yet borne significant fruit. Probably at issue is the number of minorities actually conducting research as undergraduates, so it will be important for us to more effectively target them, as well as to continue our support of training programs that enhance Minority research experience.

We continue to monitor research productivity for our graduate population. We find that current and former Biology graduate students appeared 83 times on papers in CY 2010 (65 in the previous year), for work that they performed at UNM. We also note that 27 research awards were made to current Biology graduate students during CY 2009 (22 last year)—meaning about 25% of our graduate students receive awards in any one year. Certainly, the latter number could be increased, nevertheless we are enthused about the application and success of our students. Clearly, grant success in graduate school provides significant training to generate grant success for the individual as their career proceeds. We also note in particular that every student receiving full financial support for a year through grant sources generates a new slot for graduate students to be accepted into the program, and the increase in this over last year also enables us to grow our program.

FACULTY

Composition

We are very pleased to announce the hiring of two new faculty in the AY 2010–11. Dr. Irene Salinas, who visited us from New Zealand and ended up staying more than a week due to the weather-related shutdowns in early February, was hired as a faculty member leveraged and supported by the CETI (Center for Evolutionary and Theoretical Immunology) program. Her research area is the immunology of fishes, and she will contribute to our majors core course Biol. 204 (Animal and Plant Form and Function), as well as to upper-level classes in animal physiology and comparative immunology.

We also conducted a broad search for a cell/molecular biologist, and from approximately 100 applicants we were able to attract our top candidate, Dr. Olga Pontes (the hire was perhaps unwit-
tingly facilitated by a gift of two very nice stemmed beer glasses to our party from the Cocina Azul restaurant; don’t worry, we paid for our own alcohol). Dr. Pontes will teach our majors in Biol. 201 (Molecular and Cell Biology), and will teach in our upper-level curriculum, probably developing a course which studies the most recent findings into the structure and organization of the cell nucleus, a particularly hot topic at the moment.

We were fortunate to not have any retention issues last year, although I am already aware of two interviews for our faculty members in the current (2011–12) year. This is a critical time at UNM: as other state and institutions begin to dig themselves out of their respective financial holes and initiate recruiting drives, UNM must make its very best efforts to address low and inequitable salaries in order to prevent our very best and brightest (mostly associate professors with whom we have a significant investment) from getting too much wanderlust.

The department was successful in faculty promotions, with Drs. U. Bergthorsson, M.E. Litvak, and Kelly B. Miller receiving tenure and promotion to associate professor. Dr. Felisa Smith was promoted from associate to full professor; and Dr. Coen Adema successfully underwent his mid-probationary review.

Issues Related to Lecturers

In the Fall of 2008, the Biology Faculty strongly supported the development of a career plan for Lecturers. Accordingly, a document was prepared by our Lecturers and was forwarded to the higher administration for further review. While some (albeit slow) movement occurred last year (through faculty senate committees and back to the College), no further motion has been observed.

This is the same paragraph I wrote last year and there is unfortunately nothing new to add to this story.

As mentioned above, Dr. Paul Farnsworth, who taught Biol. 110 (Biology Non-majors) each semester, resigned to take on a new position in Florida. This leaves vacant a position that will be filled during the AY 2011–12.

In collaboration with the College, recently we were able to provide a pay raise for all of our existing seven lecturers. We thank the college for helping us achieve this, and note it as the one thing that the outgoing dean actually almost did right.

Faculty Accomplishments

Our faculty continue to excel in their jobs. Several of our faculty gave invited plenary talks at institutions and professional meetings (J.H. Brown, J.A. Cook, C.N. Dahm, M.E. Litvak, E.S. Loker, R.D. Miller, R.L. Sinsabaugh, F.A. Smith, H.L. Snell, R. Thornhill, C.D. Takacs-Vesbach, H. Wearing, M. Werner-Washburne); our faculty appeared 118 times in published papers (an increase from 106 last year). These publications include 23 reviews/book chapters, underlining the broader contributions of our faculty to the discipline at large. Research publications appeared in prestigious journals including PNAS, J. Biogeography, Ecology, J. Mammalogy, J. Arid Environments, PLos Pathogens, J. Experimental Biology, American J. Botany, Parasitology, Molecular Systematics and

Sponsored Research

Twenty-seven of our faculty submitted grant applications in the AY 2010–11, 26 had awards existing from previous years, and 20 (partially overlapping with the 26) received new awards in AY 2010–11. In sum, faculty brought in $15.8M of new awards (down a bit from last year, but probably a more realistic number since last year’s awards also included Recovery Act funding), and our current portfolio is $54M (down about $2M from last year). While this is still a strong achievement, we note that we still would like this level of support to increase, and we would appreciate support of a research coordinator amongst our staff to facilitate this.

We also note that, combined with the slight reduction in overall funding, the proportion of overhead that is returned to the department and to the PIs has been reduced significantly on account of the increased cut going to the Vice Provost for Research’s budget. We note that the VPR has now come up with a funding return model that actually can be understood by more than five people on campus, although we cynically note that the new funding return model is once again biased to help out the VPR’s office and not the colleges and units. While we acknowledge that additional funds would benefit that office, it still has not been made clear to the Department, nor the College —nor the PIs—how we are to accommodate significant reductions in our budget. If we have broken equipment, do we now appeal to the VPR’s office for replacement or repair, rather than the practice of earlier years of the Department covering the cost? Until it can be ascertained that the VPR can handle their budget without creating a shortfall, there will be concerns at many levels about how the funding to the VPR will be spent in the long term.

These concerns are particularly pertinent since we are looking forward to new faculty hires, and the level of start-up required for biology hires is quite high. We would like to be competitive with Harvard (a reported $1.5M start-up for molecular biologists), but it is not clear how we can get to even a third of that value given the current support from the VPR’s office.

Five-year Hiring Plan

Over the years, we have provided longer-term hiring plans for each of our hiring proposals, and we anticipate developing a new plan in the Spring of 2012. This will be included in our Summer 2012 hiring request.
STAFF

The department lists 33 I&G staff working under its auspices, yet we continued to be denied any attempts to replace accounting staff, where we still (even at the time of writing this) have three vacancies for permanent lines. I&G staff hires in other areas of the department also were hampered by irrational decisions in the dean's office: it took several months, several ignored communications, and ultimately several letters written to the university's president to prompt the Dean to finally agree to support collections manager hires within the Museum of Southwesterns Biology. One such hire was a new position promised by the President, and the other was a simple replacement for which we could not even get a promise for a hire after a three-month pause and hold; and we were asked to cover the position from overhead funds rather than the I&G source that has supported these positions for many, many years.

All of these wranglings took needless time and energy, and sapped morale. We hope that the new dean's administration will be more understanding of the incredible staffing needs within the department and enable us to get fully operational. At the time of writing this, I have no information either way.

We have developed very strong HR policies and procedures within the department, following the hire of our new Department Administrator, Dr. Donna George. We regularly process hundreds of time sheets, and have enabled 30 staff hires and 34 staff separations this year. Each of these two numbers are somewhat lower than last year, although not particularly unusual since many staff are hired on grants, which are ephemeral by their very nature.

PROGRAMS AND FACILITIES

The Biology Annex Analytical Laboratories

The Biology Annex Analytical Labs began in the mid-1970s. Since that time, it has evolved into a state-of-the-art laboratory, providing water, soil and plant tissue analyses for ecosystem nutrient-cycling studies to researchers at UNM, across the country, and around the world. It also provides general research support services to UNM researchers and their collaborators. Its primary users are the Departments of Biology, Earth & Planetary Sciences, Civil Engineering, and Chemistry. At any given time, there are approximately 30 undergraduate and graduate students working on programs housed in the building.

The Labs' director, Biology Professor Clifford N. Dahm, is finishing his Inter-agency Personal Agreement (IPA) with the USGS as the Science Director for the Delta Science Program in Sacramento, California. Dr. Dahm will be returning to full time duties at UNM in August 2011.

During the past year, students involved with Biology Annex programs have presented research at national and regional meetings and the Biology Department's Annual Research Day. Recently, one of Professor Diana Northup's students attended an international cave science meeting in Istanbul, Turkey. The awards received at these meetings, as well as the funding received by these students, are too numerous to list here.
The Labs' Experimental Program to Stimulate Competitive Research (EPSCoR) project, examining water quality in the Valles Caldera Nature Preserve, is progressing very well. Approximately 15 undergraduate and graduate students worked on the project during the past year. Instruments are installed in the Caldera and data collection is proceeding. Our group participated in the recent “All Hands” EPSCoR meeting held at the Research Park on South Campus.

For more information, please visit the Labs' web site, http://bioannexlabs.unm.edu.

The Bosque Ecosystem Monitoring Program

The Bosque Ecosystem Monitoring Program (BEMP) combines long-term ecological research with community outreach by involving K–12 teachers and their students in monitoring key indicators of structural and functional change in the Middle Rio Grande riparian forest, or “bosque.” In 1997, BEMP began as a collaboration between the Department of Biology and Bosque School in Albuquerque, with fewer than 200 participants. Last year, 5,935 community members (students, teachers, etc.) participated in science-related outreach activities. Of these people, 3,311 were actually in the field collecting long-term data about ecosystem variables and the ecological drivers of flood, fire, river flow, climate and management. The experiences of these community members support science education reform efforts and help to increase each person's understanding and appreciation of science in general and the Rio Grande riparian ecosystem in particular. BEMP findings derived from K–12 student-gathered data are used by government agencies to inform multi-million dollar river and riparian management decisions.

This year, BEMP increased involvement by almost 1,000 participants. Students from more than 40 schools from Rio Arriba, Sandoval, Bernalillo, Valencia, Socorro, and McKinley counties were involved. BEMP involves traditional public, charter, parochial, private, alternative and home school students. Two seminar-type student congresses, in which students make presentations on their sites and projects, were held at the end of the school year.

In September 2010, Dr. Cliff Crawford passed away. In honor of our much missed and loved BEMP founder, BEMP is starting an annual Crawford Symposium to bring people together to share research/findings/thoughts on the bosque.

In the summer of 2011, at the request of New Mexico State Parks, BEMP added a 26th site in Las Cruces, NM, increasing our linear mileage to 350 miles of the Rio Grande. The newest site is located at the Mesilla Valley Bosque State Park.

Funding is always a challenge, as grants are applied for on an annual basis. BEMP works with a variety of local, state, federal, and private funders (http://www.bosqueschool.org/bemp.aspx). BEMP is working towards more stable, multi-year funding to ensure retention of their small staff and eventually to hire a post-doc.

The Center for Evolutionary and Theoretical Immunology Program

As CETI enters its eighth year of existence, there are many achievements to highlight. The number of faculty members who are active CETI participants has grown to 28, including three new faculty hires: Dr. Coen Adema and Dr. Irene Salinas in the Biology Department and Dr. Lydia Tápias of the
Computer Science Department. We are just now expanding into newly constructed laboratory and office space on the second floor of the Phase Two addition to Castetter Hall, which was built especially to accommodate CETI investigators. To go along with the new labs and office space, we recently have upgraded our central core Molecular Biology Facility with the purchase of a new Roche 454 Sequencing System. Further upgrades in our newly renamed Cell Biology Core to enhance our ability to control and study immune cell functions are planned.

The core mission of CETI is to increase federally funded scientific research in New Mexico, and we are happy to report that, even though the overall funding climate remains chilly, CETI scientists continue to be remarkably successful in securing grant funding, with the figure now topping $41M for the 2003–2010 period. For example, one of CETI's former mentees, Dr. Charles Cunningham, recently was awarded a new NIH R01 grant. In addition, built into our second phase of CETI funding is a seed grant program that each year will fund two young scientists seeking to build their research programs and to become more competitive for federal funding. We have already made six seed grant awards averaging $40,000 per year, each for two years.

The scientific productivity of CETI is perhaps best measured in our publications and their impact. The number of publications bearing the CETI imprimatur now exceeds 500, including several in the most prestigious of scientific journals. In recent years, CETI scientists have provided new insights into how to reduce energy demands in complex societies, discovered new T cell receptors, participated in multiple genome sequencing projects, revealed new modes of action of anti-parasite drugs, identified specific molecules involved in killing of parasites in their invertebrate vectors, and developed new models for hepatitis C virus propagation in host cells. CETI scientists also have contributed several influential reviews that collectively have changed how we view the immune system and how it has evolved.

We are happy to report that CETI is thriving, yet there is much to be done in the coming years to solidify its successes and to increase its impact. We look forward to the challenges that lie ahead!

Visit http://ceti.unm.edu to explore some of the amazing things CETI's more than 60 faculty, graduate students, and undergraduates are doing both in the field and in the lab, and to learn how you can support these efforts.

The FlyBase Program

The FlyBase Drosophila Genome Annotation Program at UNM includes Dr. Harriett Platero, who works to annotate the Drosophila pseudoobscura genome, and Dr. Paul Szauter, who will be joining us in November 2011 from Jackson Laboratories Mouse Genome Initiative to be the FlyBase training director. Dr. Platero's work is overseen by Dr. William Gelbart (Harvard University) and Dr. Margaret Werner-Washburne (UNM). As part of FlyBase UNM training activities, Drs. Gelbart and Werner-Washburne co-teach Frontiers in Genomics (Biol 402/502) each fall semester. This course brings top genome scientists to UNM in an informal, discussion setting aimed at introducing UNM students to a wider range of research opportunities. Currently, FlyBase has support for three post baccalaureate students and funding to take undergraduate students to Genome Centers around the U.S.
Initiatives to Maximize Student Diversity

The IMSD program, funded by NIGMS/NIH and aimed at increasing diversity in the sciences, is in its seventh year in the Biology Department with Professor Maggie Werner-Washburne as its PI. The IMSD/MBRS program has now been at UNM for 36 years. Currently, it supports approximately 20 undergraduates and five graduate students at one time. In the past seven years, IMSD students have published more than 80 papers in peer-reviewed journals, and 21 minority students have graduated with Ph.D.s at UNM and elsewhere.

IMSD works closely with University of Washington Genome Sciences. UWA takes four students for a long weekend visit in May and sends a faculty member to give a seminar in the spring. Currently, IMSD has 46 students in Ph.D. programs at UNM and elsewhere, including seven students in Ph.D. programs at UWA and students in Ph.D. programs at University of California–Los Angeles, Oregon, Berkeley, Utah, UNM, Pennsylvania State, Emory, Rice, and elsewhere. IMSD has developed a very successful mentoring/advising program that has led to an increase in undergraduates entering graduate school from less than 25% per year to more than 75%.

Please visit http://biology.unm.edu/imsd/ for more information.

Long Term Ecological Research Network Office

The Long Term Ecological Research (LTER) Network Office (LNO) completed the second year of its two awards from the National Science Foundation, which funds LTER, a group of 26 of the most intensively studied ecosystems in the world and more than 2,000 ecological scientists and students. The two awards total $15,761,743 and include a six-year Cooperative Agreement with UNM that funds LNO to support and coordinate the activities of LTER, and another five-year award to support new, network-wide initiatives focused on critical environmental questions such as climate change, future scenarios of landscape change, loss of the cryosphere, and coastal vulnerability.

Among the most significant highlights this year include LNO’s organization and facilitation of a mini-symposium, held at NSF headquarters in Washington, DC, to share research results and future plans with relevant and interested personnel from federal and non-government organizations; a meeting of the LTER Science Council to plan future and review current and past activities of the Network; continued development of the LTER Network Information System; and a successful proposal for the funding of the next All Scientists Meeting (ASM), slated for September 2012.

For more information, please see the LNO annual report in Appendix J, and visit http://lno.lternet.edu/.

Minority Access to Research Careers

The long-term goal of the NIH-funded UNM Minority Access to Research Careers (MARC) U*STAR Program is to increase the number of under-represented minority honor students obtaining the doctorate and entering careers in biomedical research. The immediate goal is to increase the
competitiveness of our best minority students for graduate programs. The heart of this program is the opportunity for 10 talented minority undergraduates in Biochemistry, Biology, and Chemistry to receive intense research training in their junior and senior years with a faculty mentor in some area of biomedical sciences. About half of the MARC scholars work with professors on Main Campus, including one in the College of Engineering, and half in various departments at the UNM School of Medicine. A pre-MARC Student Development component addresses problems that present major obstacles to the success of UNM students, especially poor curriculum planning. The emphasis on academic and career guidance is continued as MARC students move through the program. During the first summer, the MARC scholars begin a research project and participate in many group-learning activities, capped by an end-of-summer student Research Symposium, at which all present their work. During the subsequent two academic years, the students continue their research projects 15 hours a week, participate in regular MARC meetings, and present their projects at local and regional and/or national meetings. Most become co-authors on scientific publications. In their first year as MARC scholars, the students take a three-credit class entitled "Research Ethics" and a GRE preparation class. During their second year, students take a small class that focuses on identifying an appropriate graduate program and developing a competitive application, and then apply to graduate school. As an added feature of the program, the students spend one summer at another institution (typically their second summer), where they carry out collaborative research that is related to their project.

A strong independent evaluation component has been implemented so that the efficacy of the program can be demonstrated. These goals have not changed since submission of the original proposal. Specifically, the UNM MARC U*STAR goals are (1) to increase the academic performance and research experience of Biology, Chemistry, and Biochemistry majors (B/CIBC); (2) to recruit five under-represented students per year as MARC U*STAR scholars, and prepare them for two years of post-baccalaureate study and research careers; (3) to increase the number of under-represented students as MARC scholars who are entering biomedical research careers; and (4) to identify effective strategies that can be implemented at UNM to encourage under-represented students to enter graduate research degree programs. After graduation, most MARC scholars go on to graduate school in the biomedical sciences.

Recently, the UNM MARC Program was funded for an additional five years, from June 1, 2011 to May 31, 2016, and Dr. Diane Marshall now serves as its Program Director. The MARC Program requires students to study one summer at another research institute, known as the "Summer Research Experience"; in 2011, they studied across the U.S., from California to New York City. In September 2010, all MARC scholars attended the Society for the Advancement of Chicanos/Latinos and Native Americans in the Sciences (SACNAS) national meeting in Anaheim, CA with about 3,000 other students and attendees from around the country. At this meeting, MARC scholar Jacob Greenberg (mentors Bruce Hofkin and Robert Miller) was awarded "Best Poster Presentation" within the area of Biology. Jacob's poster was entitled: "Mosquito Feeding and Flight Distance Post-blood-meal Behavior in Bernalillo County, New Mexico: Implications for the Transmission and Control of West Nile Virus." Other MARC scholars presented posters on topics ranging from transcriptional regulation of muscle development in the fruit fly *Drosophila melanogaster* (Carmelita
Jaramillo; mentor Richard Cripps) to interaction of magnetic nanoparticles with breast cancer cells (Amber Ortiz; mentor Helen Hathaway).

For more information, please visit http://biology.unm.edu/MARC/index.html.

Molecular Biology Facility

The Molecular Biology Facility (MBF) 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 the MBF annual 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 (Biol. 352, 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 2010–2011 fiscal year include:

- Based on data from the Office of Research Services, there were 58 grants active this fiscal year that utilized or depended upon the MBF. These grants amounted to more than $23 million in total awards.
- Based on a search of the ISI Web of Knowledge there were 30 MBF-related peer-reviewed manuscripts published in fiscal year 2010-2011.
- More than 61,000 sequence, microsatellite and amplified fragment length polymorphism samples were run on the MBF’s two ABI 3130xl Genetic Analyzers.
- The sequencing capacity of the MBF was substantially upgraded with the addition of a Roche 454 next generation DNA sequencer.

Major New Equipment Acquisitions: Funds from The Center for Evolutionary and Theoretical Immunology (CETI) were used to purchase a 454 FLX (Life Sciences, Roche) high-throughput DNA sequencing system. In addition, to support the 454 FLX, many other instruments were also purchased: DigiLab DNA Hydroshear Plus, Eppendorf 5424 Centrifuge, Labquake Mixer, Innovatis CASY Particle Counter, Qiagen TissueLyser II, Air Clean 600 PCR Workstation, Dell Workstations, Quantu Fluor Fluorometer, and Eppendorf Thermocyclers.

For more information, please visit http://biology.unm.edu/ghrose/home.html.
The Museum of Southwestern Biology (MSB) consists of 10 Divisions and seven faculty members from the Department of Biology and two non-faculty curators, who have developed nationally and internationally recognized curatorial programs. Most of the MSB activities are reported in the MSB Executive Summary for the calendar year 2010, but information up to July 2011 also is reported. Beginning in August 2011, the directorship of the MSB transferred from Professor and Curator Thomas Turner to Professor and Curator Joseph Cook. In early 2011, the MSB was able to hire two senior collection managers, one in the Herbarium and one in the new Division of Parasitology. This reporting period also was marked by an outstanding performance in obtaining grant support for collection improvement and collections-based research and student training. Three NSF Biological Research Collections Improvement grants (Arthropods, Mammals, Parasitology) were active or funded during this time, with total amounts exceeding $1 million. In addition, two NSF-sponsored student training and education exceeded $1.5 million in total revenues. Finally, there was more than $1 million in new and in-force NSF-sponsored research grants in systematics and ecology. Total in-force grants and contracts for the entire MSB exceeded $10 million. These grants provided significant leverage to secure funding for new fluid collection space in CERIA 125, and renovation funds for dry collections/microscopy space on the first floor of CERIA. Metrics for 2010 that record growth and activity of the MSB exceeded four-year averages in the following areas: (i) the number of loans granted, (ii) the number of database web hits, (iii) the number of peer-reviewed publications by MSB staff, (iv) the number of undergraduate curatorial assistants trained, and (v) the total amount of estimated F&A generated. The number of professional visitors to the collections declined in 2010, perhaps due to economic constraints on travel. Although enormously successful, the MSB faces significant challenges to future growth that include: (i) critical shortages of adequate collection space and I/T staff support, (ii) low core operating budgets from some Divisions, (iii) and lack of recognition of or compensation for significant duties of MSB faculty curators. Despite the worst economic downturn in 50 years, the MSB remains a secure and vital part of the Department of Biology, the College of Arts & Sciences, and the University of New Mexico.

For more information, visit http://www.msb.unm.edu/.

Natural Heritage New Mexico

In 2010-11, the Natural Heritage New Mexico Division of the Museum of Southwestern Biology continued to work with agencies and private partners to conduct a suite of conservation science projects and build its conservation information data systems. Within the division, there are four working groups: Conservation Data Center, Conservation Ecology, Zoology, and Botany.

The Conservation Data Center Group (R. McCollough, Lead; T. Neville, GIS manager) worked on projects to make conservation data more readily available via the Web. We have helped facilitate improvements in the NMBCC (New Mexico Biodiversity Collections Consortium). We are continuing are work with the U.S. Fish and Wildlife Service, U.S. Forest Service, Bureau of Land Management, NM Department of Game and Fish, NM Energy, Minerals and Natural Resources Department to gather, enter, and quality control data on the State's sensitive species and to build tools for dissemination of that information via a the web.
The Conservation Ecology Group (E. Muldavin, Lead) completed the first version of the “New Mexico Rapid Assessment Method” (NMRAM) for New Mexico’s wetlands and riparian areas. The outcome was a manual and field guide to be used by a broad spectrum of agencies and NGOs. We completed the initial sampling at a post-fire riparian restoration site in the Middle Rio Grande near Belen, and another year of monitoring and analysis of vegetation response following removal of grazing in the lower reach of the Santa Fe River. With respect to our upland projects, we completed vegetation classifications and maps for Capulin Volcano National Monument and White Sands National Monument. We also participated in a multi-state Integrated Landscape Analysis Project (ILAP) that included the databasing of vegetation data from USFS and Bureau of Land Management lands across New Mexico and Arizona, and the development of vegetation dynamics models for target arid-land ecosystems.

The Zoology Group (Kris Johnson, Lead) finished Year Two of a three-year, multi-scale habitat modeling study of piñon–juniper birds on three Department of Defense installations. We conducted a second year of monitoring grassland and wetland birds and raptors at Holloman Air Force Base. We created a Web map interface of Gunnison’s prairie dog occurrence data for the N.M. Department of Game and Fish, and completed the Natural Resource Condition Assessments for Pecos National Historical Park and Fort Union National Monument.

For the Botany Group (Phil Tonne, Lead), our focus was on two key sensitive species in the state: the Chihuahua scurf pea and Holy Ghost Ipomopsis. We have focused on documenting the sole New Mexico population (one of two recorded globally in recent history) and informing public agencies of its conservation needs. For Holy Ghost Ipomopsis, we partnered with the State Forestry Division and U.S. Forest Service to implement critical forest-thinning projects in Holy Ghost Canyon, the only natural population of this rare plant. Documenting and implementing management needs such as forest thinning is critical to understanding the habitat needs of this endangered plant.

For more information, visit http://nhnm.unm.edu.

Postbaccalaureate Research and Education Program

The UNM Postbaccalaureate Research and Education Program (UNM PREP) is a biomedical research training program focused upon minorities and socioeconomically under-represented individuals who plan to enter a Ph.D. program. Through a series of defined objectives, the program: recruits high-quality, under-represented scholars; develops and realizes individualized training plans to provide laboratory research experience and academic training so as to improve the skill set of these scholars; provides additional training modules to develop the professional skills of these scholars; provides support and training in the successful application of these scholars to Ph.D. programs; investigates the parameters affecting graduate school retention; and uses these data to improve graduate training at UNM. It is anticipated that the results of this training will be to increase the numbers of under-represented individuals in the sciences, and to increase the research focus and awareness of reducing health disparities.

In only our second year of support, we have supported successfully the acceptance of seven scholars into Ph.D. programs at University of Illinois in Chicago, Northwestern University,
University of Washington, and The University of New Mexico. Our current group of scholars are from different parts of the country, such as Arizona, Illinois, Puerto Rico and Mexico.

For more information, please visit http://biology.unm.edu/PREP/index.asp.

The Program in Interdisciplinary Biological and Biomedical Science

The program in Interdisciplinary Biological and Biomedical Science (PiBBs) is a collaboration between the departments of Biology, Computer Science, Math and Statistics, Physics, Electrical and Computer Engineering at UNM, Los Alamos National Laboratory and the Sante Fe Institute. The impetus for PiBBs is the recognition that research on fundamental problems in biology and biomedical science will benefit from the input of new ideas, methodologies and investigative strategies from the physical sciences, engineering and mathematics. With few scientists trained to work effectively across the boundaries of their own disciplines, the program develops training that will provide Ph.D. students with the skills and knowledge to conduct cutting-edge interdisciplinary research.

PiBBs saw a number of important developments between July 2010 and June 2011. In the fall of 2010, PiBBs held its “Topics” course that featured four-week modules on functional magnetic resonance imaging of the brain, human genetics, the influence of biota on global climate change, and post-doctoral career management. During Spring 2011’s “Seminars” course, fellows brought several internationally-renowned speakers to UNM. Among the highlights was Professor Paul Ehrlich, Bing Professor of Population Studies at Stanford and a member of the National Academy of Science, who presented on the influence of human population on the Earth. Other new PiBBs-sponsored initiatives included a course on Algal Biofuels and the launch of the UNM Bioblog. *Algal Biofuels: A Multidisciplinary Approach*, taught by Associate Professor David Hanson and fellows Sarah Joyce and Kathrin Spendier, presented on key topics in biofuels cultivation, harvesting, extraction and commercialization. BioBlog (http://unm-bioblog.blogspot.com/) was launched with the aim of communicating our passion and excitement for what we do in biology to others the department, university and general public. As a weekly one-credit course, it gives undergraduate and graduate students the opportunity to develop and hone their ability to write about science and to constructively critique the work of others.

PiBBs also welcomed eight new fellows for the 2011-2012 academic year. Congratulations to Louis Alvarado, Mohammad Arbabshirani, Tatiana Flanagan, Ara Kooser, Melissa Pardi, Munik Shrestha, Jessica Weber and Natalie Wright.

Please visit http://biology.unm.edu/pibbs for more information.

Sevilleta Long Term Ecological Research Program

The Sevilleta LTER Program is a long-term, comprehensive, integrated, interdisciplinary research program addressing ecological concepts and theory through a comprehensive and interdisciplinary research program in desert grassland, shrubland, forest and riparian habitats in central New Mexico via key hypotheses on pattern and process in aridland ecosystems. Its focal sites are the 100,000-ha Sevilleta National Wildlife Refuge (SNWR), located about 80 kilometers south of Albuquerque (managed by the U.S. Department of the Interior, Fish and Wildlife Service) and the Middle Rio Grande (MRG) bosque between Cochiti Dam and Elephant Butte Reservoir. LTER research in
central New Mexico is concentrated on studies in desert grassland and shrubland communities and piñon-juniper and riparian (‘bosque’) woodlands emphasizing transitions in space and time. Each landscape component is governed by key abiotic and biotic drivers, especially climate variability, fire, hydrologic variability, nutrient dynamics, and herbivory.

Since its inception in 1988, the Sevilleta LTER program has conducted research at multiple ecological levels and a variety of spatial and temporal scales. Its studies are linked by an overarching theme that considers how abiotic drivers and constraints affect dynamics and stability in aridland populations, communities and ecosystems. The Sevilleta LTER site and its surroundings are positioned at the intersection of several major biotic zones: Chihuahuan Desert grassland and shrubland to the south, Great Plains grassland to the north and east, piñon–juniper woodland at upper elevations in the mountains, Colorado Plateau shrub-steppe to the north and west, and riparian vegetation along the middle Rio Grande Valley. Because of the confluence of these major biotic zones, the SNWR and the Middle Rio Grande Basin present an ideal setting to investigate how environmental change and climate variability interact to affect ecosystem dynamics at the boundaries of major biomes in southwestern North America. Moreover, the rapid growth and southern expansion of the City of Albuquerque and its suburbs increasingly will have an impact on ecosystem processes throughout the Middle Rio Grande Basin, including the SNWR, and these urban forces will interact with climatic variation to catalyze change in this aridland region.

LTER IV (the fourth funding cycle, 2006–2012) builds on prior research on patch and boundary dynamics by placing a greater emphasis on interactions among key processes and drivers of change in aridland ecosystems, in particular nitrogen availability and climate dynamics. This new emphasis greatly expands the spatial and temporal scales and conceptual bases of the LTER program. Given the fundamental relationship between primary production and community structure in ecological communities, one of the core LTER activities is to link climate dynamics, disturbances, and soil structure with soil nutrient and water fluxes to better understand seasonal and annual variability in net primary production, and how that variability ultimately affects the dynamics, distribution and abundance of key aridland producers and consumers. To accomplish these goals, the Sevilleta LTER program is organized into five overlapping thematic areas with designated group leaders: Climate and Abiotic Drivers (C.N. Dahm), Water Fluxes (W.T. Pockman), Soils and Biogeochemistry (R.L. Sinsabaugh), Producer Dynamics (E. Muldavin), and Consumer Dynamics (B.O. Wolf). These thematic areas are not mutually exclusive, but they serve as an effective mechanism to organize and synthesize our research.

Some field crew time is focused on one of the program’s new emphases, the greatly expanded effort to restore Gunnison’s prairie dogs at the Sevilleta, known as the Aboveground Net Primary Production (ANPP). Other program emphases are the Piñon Juniper Net Primary Production Study; the Creosote Mortality Monitoring Plots; the Meteorological Network; and the Prairie Dog Colony Restoration Experiment. The Sevilleta LTER also has been collaborating with a multitude of other LTER sites to develop the Drupal Ecological Information Management System (DEIMS), a framework for managing data, metadata, and other LTER information products through a single web portal.
The Sustainability Studies Program

On February 23, 2011, the Board of Regents designated Prof. Bruce T. Milne as the holder of the Endowed Chair in Sustainable Environmental and Food Systems. During the year, the Sustainability Studies Program (SSP) saw a net increase in the amount of $2,033,000 from W.K. Kellogg Foundation funds ($1,650,000), dissolution of an outstanding debt ($63,000) by the interim provost, and grants from U.S.D.A. ($290,000) and the McCune Charitable Foundation ($30,000). W.K. Kellogg Foundation startup funds and A&S Part-Time Instruction funds supported teaching and administrative staff to operate the SSP.

From 2007 through the summer of 2011, a total of 205 UNM students declared a minor in Sustainability Studies. As proposed, a Collaborative for Foodshed Development was formed and funded by U.S.D.A. Hispanic Serving Institutions to conduct summer foodshed field schools, especially for Hispanic and minority students, in 2011 and 2012. The first school served 14 students and visited 27 agricultural venues. More than 12 outreach activities on and off campus, in NM and CO, educated the public about climate change policy, clean energy technology, green architecture, and developed markets for local food. Multicultural goals are being met through the foodshed field school and through initial contacts with pueblos, where a resurgence in traditional crops is underway. We are designing a new major degree in Sustainability Studies with a sustainable development component to complement a similar graduate-program redesign in the Department of Economics.

For more information, please visit http://sust.unm.edu.

Undergraduate Opportunities Program

The Undergraduate Opportunities (UnO) Program, funded by the National Science Foundation (NSF-DEB 0731350), integrates research and education through seminars, laboratory, museum, and field experiences. UnO just completed a highly successful fourth year with 16 faculty mentors, three staff mentors, one post-doc mentor, 15 graduate student mentors, and 23 active undergraduates. With a home base in UNM's Museum of Southwestern Biology (MSB), UnO aims to increase the level of participation by undergraduate students historically under-represented in advanced graduate training and research careers. Scholars receive one to three years of preparation and concentrated research experience in a near-peer mentorship structure: each student is assigned a faculty mentor and a graduate student mentor so that they can experience directly the excitement of scientific discovery in a research project and receive help navigating courses, professional development, and research demands. A weekly seminar class helps create a cohesive cohort, provide insight into professional ethics, hone presentation skills, and allow students to explore other aspects of the research enterprise.

An example of the UnO's success with outreach is exemplified through one of the UnO scholars, M.J. Vargas, whose project focuses on developing a model of science education outreach with elementary students. She is collaborating with the Education Department to assess the effects of informal science via a Junior Science Outreach Camp for 4th and 5th graders from a low-income
region of Albuquerque. The camp was held this past August (2011), and was heavily covered by the press (http://www.msb.unm.edu/UnO/documents/BUGS_ScienceCamp.pdf).

Since UnO's beginning in 2007, we've established a 97% retention rate, with 20 scholars graduated. Of these, three have entered graduate programs, one has entered medical school, and an additional six have professional positions in biology. Several UnO scholars have won prestigious national awards for their work, including the Barry Goldwater Scholarship, Harry and Mabel Leonard Research Fellowship, James Drew Pfeiffer Memorial Scholarship, Maurice Hughes Scholarship for Excellence in Research, NSF STEM scholarship, and others. As of Fall 2011, 28 UnO scholars have presented their research at local, national and/or international conferences (e.g., Cambridge, UK; Yucatan, Mexico), three are co-authors on publications, and six others have manuscripts in preparation.

For more information, please visit http://www.msb.unm.edu/UnO/education.html.

The VectorBase Program

VectorBase, a disease vector database based at Notre Dame, supports 1.5 Ph.D.-level gene annotators at UNM. Dr. Phill Baker, current VectorBase annotator, assists with other outreach and mentoring activities as part of VectorBase and determines gene structure for the mosquito, *Anopheles gambiae*. Dr. Maggie Werner-Washburne is a VectorBase co-PI. Other VectorBase sites include European Bioinformatics Institute (EBI), Harvard, and Crete. VectorBase is funded through NIAID.

For more information, see http://www.vectorbase.org/

BUILDING ISSUES

The 2010–11 semesters have seen many activities involving new construction at Castetter Hall. Construction of the new Southeast Addition to Castetter Hall (Phase 2-B) began in mid-June 2010. This project is on-going, and is expected to be completed by July 2013.

At the current funding level ($5,303,829), Phase 2-B consists of three floors totaling 22,562 square feet, with the second floor having been built-out and completed as an extension of the CETI program that recently was constructed in the Phase 1 Castetter Hall Southwest Addition. This new second floor build-out of the Phase 2-B addition provides an additional 7,683 sq. ft., and includes three research labs, three associated “flexible” labs and office/workroom spaces, a specialty workroom supporting the Molecular Biology Facility, a break room, a fully equipped conference room, seven faculty/research assistant offices, a shared equipment room (a freezer farm), and several other support spaces, including a new IT room, as well as a janitorial closet and two additional restrooms. This project is expected to achieve LEED Silver status!

The Phase 2-B project also allowed us to coordinate and complete a “Load Shedding” study in which we were able to identify “critical lab and building equipment” throughout Castetter Hall, including the new greenhouse, and place only these items on specially designated electrical panels that are supported by the building back-up emergency electrical generator. This allowed us to retain the
generator that we have had for many years, while assuring that it would be able to handle the “critical loads” in case of a primary power loss to the building. Since this generator has just over 100 hours of run-time on it, it made good fiscal sense to incorporate this “Load Shedding” project, retaining what is yet a generator in great condition, while confirming that it will handle the load if necessary.

Phase 2-C consisted of “Tenant Improvement” efforts to 2,900 sq. ft. of the third floor of Phase 2-B. This “TI” included the construction of seven offices, one restroom, a supporting IT closet, as well as a temporary and a permanent corridor. The rest of the space on this floor was “shelled out” as warm, but unusable space due to CID restrictions, pending further funding. Once funding is acquired, an additional 4,204 sq. ft. will be completed as research labs, support spaces, and office spaces, almost identical to the second floor. At a cost of $427,107, it was determined that building whatever spaces we could on the third floor, as well as preparing for the eventual full build-out of this space, was clearly the best and most responsible use of our remaining funds at this time. This included installation of the fire suppression system as determined in the design phases of the project.

In addition to the “shell” space remaining on the third floor, the entire first floor was designed and “shelled out” to support the eventual relocation of the Biology Annex. This floor was specially designed to support and modernize the needs of the Biology Annex, as well as supporting the many annex programs. The “shell” space consist of 6,920 sq. ft., with floor and many of the underground utilities having already been constructed and in place, as well as the fire suppression systems. There was also a finished floor installed in a 700 sq. ft. section of Phase 2-A space, previously designated for the use of the Annex as storage space.

We are optimistic that we will be funded by the next State Legislative session to complete fully the remaining project. Our request is for $3.8 million. Unfortunately, the remainder of this project consist of either laboratory or special project spaces that are much more expensive than what would normally be required for office and classroom space.

Also, we should not forget that the Phase 2-B project began with the demolition of the greenhouse that had existed within the footprint of Phase 2-B for 18 or 19 years prior to the conception of the new addition. There is now a brand-new greenhouse on the roof of Phase 1 that has replaced what was in many ways a very recognizable landmark on the UNM Campus.

DONOR RELATIONS

2010-11 Scholarship Winners

➤ **Melinda Bealmer Memorial Scholarship** (awarded to graduate students to attend and present at conferences): KAYCE BELL and SARAH KOERNER.

➤ **Donald E. Caughran Memorial Endowed Scholarship** (supports an undergraduate or a graduate student in pursuit of a degree in biology, based on scientific excellence (e.g., scholarship, academic promise, quality of ongoing or completed research): CASSANDRA GARNER, BROOKS KOHLI, MATTHEW JONES, JONATHAN CARL SCHMITT, and MATTHEW SOLOMON.

➤ **Cocalina Memorial Scholarship** (assists undergraduate women students in their pursuit of science): CASSANDRA GARNER, MARTHA VARGAS.
> Crawford Rio Grande Scholarship (assists graduate students conducting research related to the Rio Grande Bosque): COREY LOVE.

> Rosalie Doolittle Scholarship (funds undergraduates pursuing studies in botany): MARTHA VARGAS.

> Thelma Evans Trust Scholarship (provides support for those pursuing a career in veterinary medicine): ROBERT SEDAM and KAYLEIGH STOGSDILL.

> Joseph Alvin Gaudin Jr. Scholarship (awarded to students studying mammals, in particular members of the cat family [Felidae]): KAYCE BELL, JACOB GREENBERG, CHARLES HAYES, STEVE MCCORMICK and YADEEH SAWYER.

> Alvin R. & Caroline Grove Summer Scholarship: BRITTANY BARKER, MASON RYAN, MELISSA PARDI, and SHANE DU BAY.

> Dr. Lynn Hertel Graduate Research Award (supports the research program of graduate students completing their thesis or dissertation): YADEEH SAWYER.

> Dr. Harry Wayne Springfield Scholarship (provides funds to conduct research in plant ecology): MICHELL THOMEY.

UNM Foundation Summary

We continue to work with the Foundation to enable support of the Biology Department, although only a limited number of large donations have taken place in the last year (see the Hayward donation in the MSB report). Efficiency of the college foundation folks has been somewhat hampered by a lack of staff support in the college for foundation activities, and we hope that Yolanda Dominguez and Jeff McNutt can receive some assistance, although we appreciate that funds are tight.

Respectfully submitted,

Richard M. Cripps
Professor and Chairman
November 10, 2011
APPENDICES

FY 2010–11
ANNUAL REPORT
UNM DEPARTMENT
OF BIOLOGY
APPENDIX A

FACULTY LIST
UNM DEPARTMENT OF BIOLOGY
Faculty 2010-11

Distinguished Professors
James H. Brown  Eric L. Charnov  A. Randy Thornhill

Professors
Brenda J. Claiborne  Donald O. Natvig
Scott L. Collins  Mary Anne Nelson
Joseph A. Cook  David J. Schmidly
Richard M. Cripps  Robert L. Sinsabaugh
Clifford N. Dahm  Howard L. Snell
Astrid Kodric-Brown  Steven A. Stricker
Eric S. Loker  Eric C. Toolson
Timothy K. Lowrey  Thomas E. Turner
Diane L. Marshall  Robert B. Waide
Robert D. Miller  Margaret Werner-Washburne
Bruce T. Milne

Associate Professors
Coenraad Adema  Felisa A. Smith
Charles Cunningham  Cristina D. Takacs-Vesbach
David T. Hanson  Andreas Wagner (on Leave of Absence)
William T. Pockman  Blair O. Wolf
Steven Poe

Assistant Professors
Ulfar Bergthorson  Helen J. Wearing (joint appointment with
Vaishali Katju  Math & Statistics)
Marcy E. Litvak  Christopher C. Witt
Kelly B. Miller

Lecturers
Lee Couch  Bruce V. Hofkin
Cara Lea Council-Garcia  Kelly A. Howe
Paul Farnsworth  Marienken G. Shaner
Christina O. Fridrick  James Swan
APPENDIX B

STAFF LISTS
### UNM DEPARTMENT OF BIOLOGY STAFF 2010-11

#### HIRES

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<thead>
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APPENDIX C

DEPARTMENTAL COMMITTEES
Faculty Committee
Assignments - 2010-2011

Chairman
Richard Cripps

Associate Chairs
Tim Lowrey
Will Pockman

Director, Museum of SW
Biology
Tom Turner

Graduate Student Selection
Diane Marshall, Chair
Cheryl Martin
Randy Thornhill
Vaishali Katju
Marcy Litvak
Chris Witt
Coen Adema
BGSA, Trevor Krabbenhoft

Tenure and Promotion
Cliff Dahm, Chair
Tom Turner
Astrid Kodric Brown
Don Natvig
Bob Sinsabaugh

Honors Program
Dave Hanson-Faculty Advisor
Shannon McCoy-Hayes

Undergraduate Policy
Committee
Eric Toolson, Chair
Shannon McCoy-Hayes
Charlie Cunningham
Steve Poe
Jim Swan
BGSA, Roxanne Candelaria-Rey

Biology Retention Analysis
Astrid Kodric-Brown

Graduate Policy
Blair Wolf, Chair
Tina Vesbach
Kelly Miller
Jim Brown
Cheryl Martin
BGSA, Levi Gray

Space/Buildings
Chair, Tim Lowrey
Howard Snell
Mary Anne Nelson

John Cox
Cheryl Martin
Roy Ricci
George Rosenberg
BGSA, Phred Benham

Seminars
Tina Vesbach

Graduate Advisors
Randy Thornhill
Don Natvig

Computers
Eric Toolson, Co-Chr
Nancy Davis, Co-Chr
BGSA,

Greenhouses
Diane Marshall, Chair
David Hanson
Joy Avritt

Research Day
Kelly Howe, Chair
Bruce Milne
Paul Farnsworth
Anne Rice
Helen Wearing (Spring only)
BGSA, Fred Whiteman
BGSA, Sara Lopez
BGSA, Laura Ladwig

Graduation
Bruce Hofkin, Co-Chr
Marijken Shaner Co-Chr
Kelly Howe
Anne Rice
Heather Paulson
Jim Swan
Ulfar Bergthorssen

Biological Retention Analysis
BGSA, Yadéeh Sawyer
and Jolene Rearick
Chris Witt, Fac sponsor

Curators
Joe Cook, Mammals
Tim Lowrey, Herbarium
Kelly Miller, Arthropods
Howard Snell,
Amphibians/Reptiles
Tom Turner, Fishes
Chris Witt, Birds
Joe Cook, Genomic

Museum SW Biology Exec
Committee
Tom Turner, Chair
Curators, and Mike Bogan,
Bob Sinsabaugh

Scholarships
Felisa Smith, Chair
Cheryl Martin
Shannon McCoy-Hayes
Maggie Werner-Washburne
Charlie Cunningham
Heather Paulsen
BGSA, Jen Plaut

Undergraduate Academic
Advising
Shannon McCoy-Hayes
Marijken Shaner
Cara-Lea C-G
Dave Hanson
Eric Toolson

Pre-Vet Advising
Bruce Hofkin

Department Publicity
Bruce Milne

Field Programs and Vehicles
Kelly Miller
Chris Witt
Don Natvig

Mol. Biology Facility
Rob Miller

Microscopy Facility
Steve Strickler-Sabbatical Fall

Library Liaison
Ulfar Bergthorssen

LTER Director
Scott Collins

LTER Network Office
Director
Bob Waide

Sevilleta Field Station Director
Don Natvig

IMSD Director
Maggie Werner-Washburne

CETI Director
Eric (Sam) Loker
BGSA Computer Pod
BGSA, Rhiannon West

Animal Care and Use
Blair Wolf

New Grad Student Orientation
Coen Adema (2009-10)
TBA (2009-10)

Glass Case Displays
Paul Farnsworth

Salary Committee
Howard Snell
Scott Collins
Will Pockman

Wed. Brown Bag Seminar
Helen Wearing

Univ. & College Committees
A&S Senior Promotion
Bruce Milne

A&S Tenure and Promotion
Steve Poe

A&S Undergrad Representative
?

Center for Research in Ecol Sci and Tech

Faculty Senate
Howard Snell

RAC Committee
Bob Waide

UNM Biosafety
Coen Adema

UNM Radiation Control Committee
Ulfar Bergthorsson

Executive Research Advisory Committee (ERAC)
Sam Loker

UNM Sustainability Studies Program, Director
Bruce Milne

UNM Academic Freedom/Tenure
Charles Cunningham

UNM Committee on Governance
Tim Lowrey

BA/MD Program Liaison
Helen Wearing

PIBBS Director
Jim Brown
Felisa Smith

MARC Director
Mary Anne Nelson

SEEDS Chapter
Scott Collins

PREP Director
Richard Cripps

UNO Director
Joe Cook

Chair, Computer Science Search Committee
Sam Loker

Vertebrate Evolutionary Immunologist Search Committee
Charles Cunningham, Chair
Tom Turner
Rob Miller
Tina Vesbach
Ginny Morriss, BGSA

9/13/11
APPENDIX D

GRADUATE

DEGREES AWARDED
UNM Department of Biology
Graduate Degrees Awarded by Semester, 2010–11

SUMMER 2010

M.S.

Carles, Elizabeth, “NFκB Translocation in Response to Different LPS Chemotypes in Murine Macrophages.” (Nelson, M.A.)


Snider, Jessica Ruth, “Comparison of Microbial Communities on Roots and Walls in New Mexico Lava Tubes.” (Pockman, W.T.)

Ph.D.

Franklin, Melissa Louise, “Female Perception of Testosteronized Male Facial Images: Evidence of a Co-evolutionary Trade-off Responsive to Conditions for Both Competition and Cooperation.” (Charnov, E.L.)

Van Horn, David, “Nutrient Cycling in Impacted Stream Ecosystems: From Microbes to Watersheds.” (Dahm, C.N.)

FALL 2010

M.S.

Brese, Daniel Alan, “Distribution of Juniper Species in Juniper Woodlands of the Intermountain and Southwestern United States along a Seasonal Precipitation Gradient.” (Litvak, M.E.)

Mirabal, Susan Christy, “Understanding Light-enhanced Dark Respiration (LEDR) in C₄ Plants.” (Hanson, D.T.)

Ph.D.


Giermakowski, Jacek Tomas, “The Spatial Ecology of Galápagos Tortoises and New Mexico’s Reptiles.” (Snell, H.L.)


Martinez, Diego, “Genome Architecture in the Fungal Kingdom,” with Distinction (Nelson, M.A.)

Swenton, Daniella, “The Evolutionary Ecology of Two Gambusia Species in Secondary Contact.” (Kodric-Brown, A.)

SPRING 2011

Ph.D.

Okie, Jordan, “Biological Scaling across Major Evolutionary Transitions and Levels of Organization.” (Brown, J.H.)

Zuo, Wenyun, “From Growth to Extinction: Explored by Life History and Metabolic Theory.” (Brown, J.H.)
APPENDIX E

GRADUATE STUDENTS
& FACULTY ADVISORS
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APPENDIX F

COURSE FEE SUMMARY
UNM DEPARTMENT OF BIOLOGY
Course Fees Review

Overall FY 2005/06–2010/11

The Course Fees Account was established to help departments recuperate costs associated with expensive teaching classes. Unfortunately, because funding from the Legislature is inadequate to support fully the teaching mission, the Course Fees Account passes to all students some or all of the costs associated with teaching. In FY 2006–07, when the Biology Department faced extreme deficits in the I&G account, as well as providing state-of-the-art equipment for a new basement renovation that teaches the core undergraduate laboratory classes, the decision was made to charge the following course fees:

- $5.00 for all lecture classes;
- $10.00 for all discussion classes;
- $30.00 for all lab classes;
- $75.00 for all field trip and anatomy and physiology classes.

This account must be spent on course-related supplies and is reconciled after every semester. This account also is subject to the Banner and Regent's taxes. During this past fiscal year, the University implemented a rewards program for departments that had increased enrollment. This past year, because student enrollment and student credit hours are again on the rise, we were rewarded with an additional $8,218. The following table shows the revenue received for each fiscal year from course fees.

<table>
<thead>
<tr>
<th>Course Fees Revenue</th>
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<tr>
<td></td>
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<tr>
<td>FY 2006–07</td>
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<td>FY 2007–08</td>
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<td>FY 2008–09</td>
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<tr>
<td>FY 2009–10</td>
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<tr>
<td>FY 2010–11</td>
</tr>
<tr>
<td>Revenue</td>
</tr>
<tr>
<td>Banner Tax</td>
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<tr>
<td>Total Revenue</td>
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</table>

Because course demands and expenses have increased continuously, the total revenue has increased significantly over the past five years. The following table shows the percentage increase by fiscal year. However, with the new Math Science and Learning Center building, course fees are on an incline again, because this building raises the cap on enrollment numbers of many of our core classes. Additionally, student enrollment and student credit hours are increasing again. The decline is attributed to more students taking special topics and problems classes than in past years. These classes have no course fee or a very nominal one ($5.00).
The major expenses in the Course Fee Account are laboratory supplies. The other expenses are related to copying and general administrative costs.

The following chart shows how much money was available to spend on each student based on student data enrollment with respect to the Total Revenue from the table directly above.

<table>
<thead>
<tr>
<th>Average Student and Credit Allotments</th>
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</thead>
<tbody>
<tr>
<td>------------</td>
</tr>
<tr>
<td>Total Revenue</td>
</tr>
<tr>
<td>No. of Students</td>
</tr>
<tr>
<td>No. of Credit Hours</td>
</tr>
<tr>
<td>Student Allotment</td>
</tr>
<tr>
<td>Credit Allotment</td>
</tr>
</tbody>
</table>

Note: Notice that student enrollment continues to increase every year, as well as the number of credit hours being offered. The average student allotment support over the past five years is $15.26, which is a decrease in the individual student allotment for last year, and the average credit allotment support is $6.59. While this money still does not cover all of the costs associated with teaching laboratory classes, it does help to support the teaching mission. The Department expects to generate approximately $190,000 in revenue to help support the teaching mission, because enrollment continues to increase. Unfortunately, because I&G needs keep increasing and the University rescinds more and more I&G funding ($208,000), the Department relies more and more on the revenue from course fees. Because the fees are nominal, the Department does not experience a decline in enrollment. It is never the intention of the Biology Department to pass the costs of teaching to the students; however, because of the demands of teaching lab courses and the significantly declining I&G budget and funds available, the Department does pass to the students a nominal amount in comparison to many other departments on campus. However, student enrollment and credit hours are not adversely affected.
APPENDIX G

MOLECULAR BIOLOGY

FACILITY ANNUAL REPORT
The Molecular Biology Facility (MBF) at the UNM Department of Biology provides three principal areas of support. First, it is a common equipment facility for faculty and students who routinely use the tools of molecular biology in their research. Second, it is a support facility for faculty and students who do not have laboratory space of their own suitable for conducting research that utilizes molecular biology techniques. Third, the MBF provides support for several classes with teaching equipment, student training, and outreach to non-UNM organizations. All three roles are equally important and interdependent. Faculty and students from other A&S Departments, including Anthropology, Earth & Planetary Sciences, and Chemistry, and from the Schools of Medicine and Engineering, also utilize the MBF for both research and training. Based on the data contained in this report, the MBF is arguably among the most heavily utilized support units within the Biology Department.

The MBF’s role in education and training in the Department and the community continued this fiscal year. Four courses taught within Biology (Biol. 352, 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 2010-2011 Fiscal Year Include:**

1. Based on data from the Office of Research Services, there were 58 grants active this fiscal year that utilized or depended upon the MBF. These grants amounted to more than $23 million in total awards.

2. Based on a search of the ISI Web of Knowledge there were 30 MBF-related peer-reviewed manuscripts published in fiscal year 2010-2011.

3. More than 61,000 sequence, microsatellite and amplified fragment length polymorphism (AFLP) samples were run on the MBF’s two ABI 3130xl Genetic Analyzers.

4. The sequencing capacity of the MBF was substantially upgraded with the addition of a Roche 454 next generation DNA sequencer.

**STAFF**

**Director:** Robert D. Miller

**Research Scientist/Manager:** George H. Rosenberg

**Teaching Assistants:**
Tonya Brunetti (Fall 2010)
Jeiying Yang (Fall 2010 and Spring 2011)
James Farslow (Spring and Summer 2011)
Tori Hansen (Summer 2010)
MAJOR NEW EQUIPMENT ACQUISITIONS

Funds from The Center for Evolutionary and Theoretical Immunology (CETI) were used to purchase a 454 FLX (Life Sciences, Roche) high-throughput DNA sequencing system. In addition, to support the 454 FLX, many other instruments were also purchased: DigiLab DNA Hydroshear Plus, Eppendorf 5424 Centrifuge, Labquake Mixer, Innovatis CASY Particle Counter, Qiagen TissueLyser II, Air Clean 600 PCR Workstation, Dell Workstations, Quanti Fluor Fluorometer, and Eppendorf Thermocyclers.

USERS: 2010-2011

Faculty (27):

Adema, Barton, Berghorsson, Cook, Cripps, Cunningham, Hanson, Hofkin, Hunley (Anthropology), Katju, Kodric-Brown, Long (Anthropology), Loker, Lowrey, Miller K, Miller R, Natvig, Nelson, Pockman, Poe, Sinsabaugh, Smith, Stricker, Takacs-Vesbach, Turner, Werner-Washburne, Witt

Adjunct or Part-time Faculty (10):

Michelle Baker, Sara Brant, Jerry Dragoo, Ben Hanelt, Jeff Nekola, Dianna Northup, Megan Osborne, Zuly Parra, Ursula Shepard, Si-Ming Zhang

Postdoctoral Fellows (9):

Anton Bryantsev, Ayesha Burdett, Maria Chechenova, Patrick Hanington, Larissa Harding, Chris Hines, Joanna Redfern, Gloriana Trujillo, Dave Van Horn

Graduate Students (41):

Britney Barker, Libby Beckman, Kaycee Bell, Phred Benham, Alex Bouchte, Mary Ann Brandenburg, Tonya Brunette, Lijing Bu, Ramesh Devkota, Shane DuBay, James Farslow, Tori Hansen, Sarah Hicks, Jarrett Hines, Heidi Hopkins, Patrick Hudson, Angela Hung, John Kavanaugh, Brooks Kohli, Trevor Krabbenhoft, Katina Krasnec, Elisa LaBeau, Michael Leleiver, Nathan Lord, Tyanna Lovato, Jason Malaney, Jason Marquardt, Juliana Mederos, Elizabeth Montana, Ginny Morris, Eugenio Nearns, Sierra Netz, Tyler Pilger, Joline Rearick, Kathryn Ryan, Yadeeh Sawyer, Jessica Snyder, Clare Steinberg, Xin Xin Wang, Jeiying Wang, Melissa Wilson

Undergraduates (61):

Research Staff (17):

Melanie Adams, Erica Baca, Sarah Buddenborg, Dan Colman, Kristen Coultas, Pauline Cupit, Michele Forys, Jennifer Hathaway, Miriam Hutchinson, Mary Ann Jaramillo, Candice Lovato, Sabrina MacNew, George Rosenberg, Alana Sharp, Savannah Stansbury, Brad Truett

Visiting Scientists Using the Facility (9):

Sarah Corey-Rivas (New Mexico Highlands University)
Chao Dong (UNM Chemistry)
Eric Lelo (Kenya Medical Research Institute (KEMRI)) working with Dr. Loker
Carol Linder and Lisa Bentson (New Mexico Highlands University)
Marilee Morgan and Stephanie Garcia (The Mind Initiative)
Andrea Porras-Alfaro (Western Illinois University)
Hong Zhao (Chemistry/Dunaway-Mariano Lab)

INSTRUCTION AND TRAINING

Formal Courses that used the MBF

Biol 352 General Microbiology Lab
Biol 446/546 Molecular Methods
Biol 478 Plant Physiology

Undergraduate Training Programs whose students or Fellows used the MBF

1. IMSD
2. MARC
3. UNO
4. PREP

SPONSORED PROJECTS USING THE MBF

Principal Investigator(s): Adema
Sponsor: National Institutes of Health
Amount: $740,000
Title: STIMULUS: Anti-pathogen Responses in Biomphalaria Glabrata
Project Period: 06/19/09-05/31/12

Principal Investigator(s): Bergthorsson
Sponsor: National Science Foundation
Amount: $303,466
Title: The Spontaneous Rate of Gene Duplication and Deletion in a Model Organism, Caenorhabditis Elegans
Project Period: 03/01/10-02/29/12

Principal Investigator(s): Cook
Sponsor: National Science Foundation
Amount: $869,619
Title: URM: Undergraduate Nurturing Opportunities (UNO) in the Biological Sciences in the Southwestern US
Project Period: 09/01/07-08/31/11
Principal Investigator(s): Cook
Sponsor: National Science Foundation
Amount: $259,285
Title: Collaborative Proposal - Curation, Data Basing and Integration of the Orphaned Illinois Mammal Collection.
Project Period: 04/01/08-03/31/11

Principal Investigator(s): Cook
Sponsor: Department of Agriculture
Amount: $49,983
Title: Mammal Inventory of the Tongass National Forest
Project Period: 07/19/05-07/31/10

Principal Investigator(s): Cook
Sponsor: National Security Technologies LLC
Amount: $15,000
Title: BCP-Nevada Samples
Project Period: 06/01/07-01/31/11

Principal Investigator(s): Cook
Sponsor: US Forest Service
Amount: $335,586
Title: ISLES - Tongass
Project Period: 08/12/08-09/30/13

Principal Investigator(s): Cook
Sponsor: National Science Foundation
Amount: $485,648
Title: RCN-UBE: AIM_UP (Advancing the Integration of Museums into Undergraduate Programs)
Project Period: 05/01/10-04/30/15

Principal Investigator(s): Cripps
Sponsor: T & E Inc.
Amount: $2,500
Title: Historical and future climate change: Implication for fragmented ecosystem management
Project Period: 01/01/11-12/31/11

Principal Investigator(s): Cripps
Sponsor: American Heart Association
Amount: $198,000
Title: Genetic Control of Muscle Remodeling in Drosophila
Project Period: 01/01/08-12/31/10

Principal Investigator(s): Cripps
Sponsor: National Institutes of Health
Amount: $2,311,064
Title: Genetic Regulation of Muscle Fiber Diversity
Project Period: 05/01/01-12/14/10

Principal Investigator(s): Cripps
Sponsor: National Institutes of Health
Amount: $1,278,475  
Title: Genetic Regulation of Cell Fate in the Drosophila Heart  
Project Period: 04/01/05-03/31/11

Principal Investigator(s): Cripps  
Sponsor: National Institutes of General Medical Sciences  
Amount: $1,048,555  
Title: UNM PREP: Postbaccalaureate Research Education Program-Renewal  
Project Period: 03/01/09-02/28/13

Principal Investigator(s): Cripps  
Sponsor: March of Dimes  
Amount: $246,713  
Title: Specification and Function of the Cardiac Pacemaker  
Project Period: 06/01/08-05/31/11

Principal Investigator(s): Cripps  
Sponsor: American Heart Association  
Amount: $50,000  
Title: The Role of Tripartite Mostif Protein Abba in the Development & Maintenance of Muscle in Drosophila  
Project Period: 07/01/09-06/30/11

Principal Investigator(s): Cripps  
Sponsor: Muscular Dystrophy Association  
Amount: $113,187  
Title: A Drosophila Model for Mammalian Muscular Dystrophy  
Project Period: 08/01/10-06/30/11

Principal Investigator(s): Cripps  
Sponsor: National Institute of Health  
Amount: $301,417  
Title: Stimulus: Genetic Regulation of Muscle Fiber Diversity  
Project Period: 12/15/10-11/30/11

Principal Investigator(s): Cunningham  
Sponsor: National Institute of Health  
Amount: $394,283  
Title: Understanding the Biology of Schistosomes  
Project Period: 09/15/10-08/31/11

Principal Investigator(s): Hanelt  
Sponsor: National Science Foundation  
Amount: $326,120  
Title: Collaborative Research: Unraveling a Gordian Knot: Biodiversity of Gordian Worms, phylum Nematormorpha, in the New World  
Project Period: 08/01/10-07/31/13

Principal Investigator(s): Kodric-Brown  
Sponsor: National Science Foundation  
Amount: $11,830  
Title: Behavioral and Ecological Factors Mediating the Co-Occurrence of Two Gambusia Species
Project Period: 07/01/08-12/31/11
Principal Investigator(s): Loker
Sponsor: National Institutes of Health
Amount: $1,626,457
Title: Biology of Trematode-Snail Associations
Project Period: 03/01/06-02/28/12

Principal Investigator(s): Loker
Sponsor: National Institutes of Health
Amount: $110,280
Title: Evo-epidemiology of Schistosoma Mansoni in Children in Kenya
Project Period: 08/01/08-04/30/12

Principal Investigator(s): Loker
Sponsor: National Center for Research Resources
Amount: $4,165,663
Title: COBRE Center for Evolutionary and Theoretical Immunology
Project Period: 07/01/09-05/31/12

Principal Investigator(s): Miller, K
Sponsor: Department of Agriculture
Amount: $9,999
Title: Developing an Identification Resource to Wood Boring Bettles of the World
Project Period: 07/01/10-04/30/11

Principal Investigator(s): Miller, K
Sponsor: National Science Foundation
Amount: $301,871
Title: REVSYS: Multilevel Revision within the Praying Mantises
Project Period: 03/01/11-01/31/12

Principal Investigator(s): Miller, K
Sponsor: Department of Agriculture
Amount: $37,488
Title: Identification Resource for the Ironclad and Cylindrical Bark Beetles and the Longhorn Wood Boring Beetle Tribe Onciderini
Project Period: 01/05/11-12/31/11

Principal Investigator(s): Miller, K
Sponsor: National Science Foundation
Amount: $409,029
Title: CAREER: Phylogenetic Revisions of South American Water Beetles (Coleoptera: Adepoga: Hydradephaga): A Model For Teach
Project Period: 03/15/09-02/29/12

Principal Investigator(s): Miller, K
Sponsor: University of Kansas
Amount: $58,674
Title: Survey of the Aquatic Insects of Northern Venezuela with an Emphasis on Coleoptera
Project Period: 09/01/08-08/31/12
Principal Investigator(s): Miller, K  
Sponsor: National Science Foundation  
Amount: $453,444  
Title: Improvements to the Division of Arthropods Collection, Museum of Southwestern Biology  
Project Period: 09/01/09-08/31/12

Principal Investigator(s): Miller, K  
Sponsor: National Park Service  
Amount: $60,000  
Title: Joint Research on the Endemism of White Sands National Monument and Cuatrociénegas Protected Area  
Project Period: 12/01/09-11/30/12

Principal Investigator(s): Miller, K  
Sponsor: Department of Agriculture  
Amount: $85,000  
Title: USDA—Identification Resource for the Ironclad and Cylindrical Bark Beetles and the Longhorn  
Project Period: 01/01/10-12/31/10

Principal Investigator(s): Miller, R  
Sponsor: National Science Foundation  
Amount: $606,000  
Title: Marsupial Immunobiology  
Project Period: 05/01/07-04/30/12

Principal Investigator(s): Natvig  
Sponsor: US Forest Service  
Amount: $76,535  
Title: Does Drought Exacerbate Damage Caused by Bark-Beetle-Associated Fungi in Pinyon-Juniper Woodland Ecosystems?  
Project Period: 05/05/06-05/05/11

Principal Investigator(s): Natvig  
Sponsor: National Science Foundation  
Amount: $95,290  
Title: Student Research and Teaching Improvements at the Sevilleta Field Station  
Project Period: 02/01/10-01/31/11

Principal Investigator(s): Natvig  
Sponsor: Sandia National Laboratories  
Amount: $30,001  
Title: Aridland Fungal Gene Candidates for Reverse Electron Transport  
Project Period: 08/27/10-06/30/11

Principal Investigator(s): Northup  
Sponsor: National Science Foundation  
Amount: $132,857  
Title: Collaborative Research: Biogenic Cave Carbonates: Identifying Surface Carbon Inputs to Subsurface Ecosystems  
Project Period: 09/01/07-08/31/11
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<td>Characterizing Under Surveyed Microbial Mat Communities in the Lava Tubes of El Malpais National Monument</td>
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<td>Collaborative Research: The Role of Snow Patches on the Spatial Distribution of Soil Microbial Communities and Biochemical Cycling in the Antarctic Dry Valleys</td>
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<td>A Resurvey of Bats (Chiroptera) at Dinosaur National Monument</td>
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<td>Sponsor:</td>
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Amount: $644,172  
Title: Assessment and Monitoring of Rio Grande Silvery Minnow Genetics  
Project Period: 07/15/07-09/30/12  

Principal Investigator(s): Turner  
Sponsor: National Science Foundation  
Amount: $373,414  
Title: Community Responses to River Drying in an Arid-Land Ecosystem: a Field and Experimental Study  
Project Period: 08/15/07-07/31/11  

Principal Investigator(s): Turner  
Sponsor: Sandia National Laboratories  
Amount: $32,238  
Title: Characterization of Algal Pigments via High Performance Liquid Chromatography  
Project Period: 01/20/10-08/31/10  

Principal Investigator(s): Turner  
Sponsor: NM Game and Fish Department  
Amount: $11,000  
Title: Baseline genetics Studies of fishes native to the Gila River basin  
Project Period: 12/06/10-06/30/11  

Principal Investigator(s): Turner  
Sponsor: National Science Foundation  
Amount: $166,667  
Title: Curation and Integration of the Robert Rausch Parasite Collection  
Project Period: 04/01/11-03/31/12  

Principal Investigator(s): Turner  
Sponsor: Arizona State University  
Amount: $8,332  
Title: Genetic and Demographic Studies to Guide Conservation Management of Bonytail Chub and Razorback Sucker in Off-Channel Habitats  
Project Period: 09/24/10-09/30/11  

Principal Investigator(s): Werner-Washburne  
Sponsor: National Science Foundation  
Amount: $600,947  
Title: The Biogenesis and Survival of Vegetative, Quiescent Yeast Cells  
Project Period: 01/22/07-02/29/12  

Principal Investigator(s): Werner-Washburne  
Sponsor: National Institutes of General Medical Sciences  
Amount: $1,958,604  
Title: Initiative to Maximize Student Diversity  
Project Period: 03/01/00-02/28/13  

Principal Investigator(s): Werner-Washburne  
Sponsor: National Institutes of Health  
Amount: $24,999  
Title: Chemical Screen of TOR Pathway GFP Fusion Proteins in S Cerevisiae
Project Period: 04/16/09-04/15/11
Principal Investigator(s): Werner-Washburne
Sponsor: National Institutes of Health
Amount: $172,873
Title: STIMULUS-IMSD SUPPLEMENT--American Reinvestment and Recovery Act Related
Project Period: 09/01/09-08/31/11

Principal Investigator(s): Werner-Washburne
Sponsor: Sandia National Laboratories
Amount: $25,000
Title: Using Yeast GFP-Fusion Proteins for Biosensor Development
Project Period: 03/01/10-09/30/10

Principal Investigator(s): Werner-Washburne
Sponsor: Sandia National Laboratories
Amount: $24,000
Title: GFP- Fusion Proteins: Study of Gene Expression to Develop Novel biosensors
Project Period: 01/28/11-09/30/11

Principal Investigator(s): Witt
Sponsor: Environmental Planning Group, In.
Amount: $147,232
Title: Rio Grade Bird Study for the SunZia Transmission Project, Phase II
Project Period: 08/01/10-04/01/11

Principal Investigator(s): Zhang
Sponsor: National Institutes of Health
Amount: $1,411,750
Title: Molecular Studies of Immuno- Parasitology in Snails
Project Period: 07/01/07-06/30/11

**PEER REVIEWED PUBLICATIONS WHICH UTILIZED THE FACILITY**


APPENDIX H

MUSEUM OF SOUTHWESTERN BIOLOGY

SUMMARY
Executive Summary

This report summarizes activities in the Museum of Southwestern Biology that consists of 10 Divisions and where seven faculty members from the Department of Biology and two non-faculty curators have developed nationally and internationally recognized curatorial programs. Most of the activities are reported during calendar year 2010, but information up to July 2011 is also reported. The Directorship of the MSB transferred from Professor and Curator Thomas Turner to Professor and Curator Joseph Cook beginning in August 2011. In early 2011, the MSB was able to hire two senior collection managers, one in the Herbarium and one in the new Division of Parasitology. This reporting period was also marked by outstanding performance in obtaining grant support for collection improvement and collections-based research and student training. Three NSF Biological Research Collections Improvement grants (Arthropods, Mammals, Parasitology) were active or funded during this time, with total amounts exceeding $1 million. In addition, two NSF-sponsored student training and education exceeded $1.5 million in total revenues. Finally, there was more than $1 million in new and in-force NSF-sponsored research grants in systematics and ecology. Total in-force grants and contracts for the entire MSB exceeded $10 million. These grants provided significant leverage to secure funding for new fluid collection space in CERIA 125, and renovation funds for dry collections/microscopy space on the first floor of CERIA. Metrics for 2010 that record growth and activity of the MSB exceeded four-year averages in the following areas: (i) the number of loans granted, (ii) the number of database web hits, (iii) the number of peer-reviewed publications by MSB staff, (iv) the number of undergraduate curatorial assistants trained, and (v) the total amount of estimated F&A generated. The number of professional visitors to the collections declined in 2010, perhaps due to economic constraints on travel. Although enormously successful, the MSB faces significant challenges to future growth that include: (i) critical shortages of adequate collection space and I/T staff support, (ii) low core operating budgets from some Divisions, (iii) and lack of recognition of or compensation for significant duties of MSB faculty curators. Despite the worst economic downturn in 50 years, the MSB remains a secure and vital part of the Department of Biology, the College of Arts & Sciences, and the University of New Mexico.

Narrative

As of December 31st 2010, I completed three and one-half years as Director of the Museum of Southwestern Biology (MSB), and as of this writing in September 2011, I have completed my four-year term as Director that began in July 2007. Professor Joseph Cook, Curator of Mammals and Interim Curator of Genomic Resources was elected by unanimous vote of the MSB Executive Committee to succeed me as Director, and based on that vote, I sent a strong endorsement and recommendation to the College of Arts and Sciences Dean Brenda Claiborne and Associate Dean for Research Philip Ganderton to appoint him to the directorship
at the end of my term. This was done, and we have been working together since July 2011 to transition the directorship.

During my tenure from 2007 to 2011, the MSB has made major strides in securing resources necessary to ensure the well being of the collections and museum-based biological sciences at UNM. Nine of our ten divisions now have permanent collection managers and this is a major factor in our continued success as a unit. We have adopted a cohesive operational model among Divisions, as demonstrated by several major cross-divisional initiatives that have been implemented, are underway (i.e., NSF BRC for the Robert Rausch Collection in the new Division of Parasitology in collaboration with the Division of Mammals) or are planned (a Major Research Instrumentation grant for a microscopy/digital imaging system). However, curators retain autonomy of their respective collections and archives. I believe is the most effective model for the MSB because it best serves the constituencies (students, researchers, etc.) of each MSB Division. The downside of this model is that it reduces flexibility in terms of use and allocation of ever-diminishing resources, especially space. Space constraints are largely due to remarkable growth and vitality of the Divisions of the MSB as a center for study of biological diversity of New Mexico, the southwestern US, Latin America, and the world, and we will have to deal with space shortages as a museum in the very near future.

At the beginning of my directorship in 2007, the entire MSB community met to set some goals and identify objectives that we would like to accomplish together during my term. Below, I recap these objectives and the progress (or not) that was made toward meeting them:

1. **Obtain funding for building management and an information technology and computer systems specialist for the MSB.** We were not able to secure a full-time building manager position for the MSB. However, the Department of Biology and the MSB jointly hired a part-time position, Mr. Kevin Judd, who is directly supervised by John Cox in Biology. The justification for this position included needs in the MSB, and Mr. Judd works up to 10 hours per week in the MSB mostly on special projects. For example, Mr. Judd was instrumental in preparation for new casework in the Arthropod collection as part of the NSF-funded collections improvement grant there. Building management duties currently are performed by the MSB Administrator, Collection Managers, and work is typically performed by Mr. Judd, private contractors, PPD Area 4, or museum staff depending on the job.

The MSB is a complex facility that encompasses collection and archive storage space, electronic data storage and dissemination infrastructure, preparatory laboratories for specimens, ultracold freezer facilities, and classroom space. A number of major construction/repair projects were completed over the last four years. Major MSB-related projects include construction of a dermestid beetle colony atop Castetter Hall (completed in 2008, cost roughly $100 K), enhanced security of loading dock and gate repair (cost unknown), repair and sealing of a major leak on the 2nd Floor of CERIA (completed in 2009, costs roughly $5K via UNM Insurance), installation of heavy-duty specimen tank shelving in CERIA 145 (completed in 2009, costs roughly $20K), fire-marshals compliance costs for CERIA 145 (ongoing), electrical costs associated with power outages in 2008 and 2011, security card access to CERIA switched from C-Cure to Lobocard system (costs unknown), and substandard flooring was replaced throughout the building in 2011 (costs unknown). Because CERIA was remodeled from the old UNM Bookstore, and because of substandard contracting during critical phases of remodel, the building will continue to suffer from systemic and chronic (e.g., HVAC, electrical) problems that are difficult to solve. For example, we have lost four ultracold freezers in the Division of Genomic Resources since 2007 at a replacement cost of over $35,000. This is unsustainable and puts an internationally
significant and irreplaceable collection at risk of total loss. The new Director, Joe Cook, has made it a top priority to secure a liquid nitrogen facility that will substantially enhance the long-term viability and persistence of the Genomic Resources collection.

2. **Activate and grow an internationally recognized repository and research infrastructure for host-parasite interactions.** The MSB Division of Parasitology was established in January 2008 with a substantial donation of specimens from the Robert Rausch collection and ongoing research initiatives at UNM (e.g., Beringian Coevolution Project, Center for Evolutionary and Theoretical Immunology), and support of the MSB Executive Committee, the Chairman of Biology, and the A&S Dean’s Office. When it was formed, we envisioned that the Division of Parasitology would be an international resource for systematics, taxonomy, identification, ecological and epidemiological research in parasitology and hosts. The Division represents development of new capacity in the MSB to address current and emerging challenges to science and society. The Division of Parasitology hired a new Senior Collection Manager, Dr. Sara Brant, in January 2011. With this demonstrated state support, Drs. Joe Cook, Sam Loker, Gordon Jarrell and I, in collaboration with Drs. Eric Hoberg and Sara Brant, were able to compete successfully for an NSF-supported Biological Research Collections Grant ($490,000 total costs) to obtain, triage, and electronically capture the Robert and Virginia Rausch Collection and Archives of over 150,000 specimen containers and slides. This funding helped develop the Division while simultaneously offering an opportunity to preserve and maintain one of the largest private collections of helminth parasites in the world. This award also provided significant leverage for renovation monies associated with CERIA 125 and new dry collection/microscopy space for the MSB.

3. **Develop new fluid collection space to help alleviate a critical shortage.** In 2010, we were able to secure a commitment from UNM Administration to completely renovate CERIA 125 as small-volume fluid collection space, including compactorized shelving and fire protection and alarms. Plans for CERIA 125 renovation were completed early in 2009 in consultation with Mark Manzutto from UNM and an engineering team from Hensley Construction in Albuquerque. Fluid collection space renovation has been rolled into another planned renovation of dry collection/microscopy space on the 1st floor of CERIA. Construction awaits user input, final plan approval, New Mexico State Fire Marshal approval, and pricing of the jobs. We anticipate completion by December 2012, under Dr. Cook’s directorship.

4. **Work to more fully integrate Natural Heritage New Mexico into the MSB.** During my directorship, I attempted to integrate Natural Heritage New Mexico Program (Heritage) more fully into the operations of the MSB in two ways. First, we made the case to UNM Administration that Heritage had been funded directly through the New Mexico State Legislature via appropriation to the Research Projects and Special Projects (RPSP) allocation for nearly 20 years. Roughly $1.5 million has been appropriated since that time. This funding is critical to support the Heritage Director and Database Manager to perform tasks related to serving state agencies with data to inform conservation and management actions. This money also serves as matching funds for federal grants and contracts. At the time of initial appropriation, sponsoring legislators made it clear that Heritage should and would be more fully integrated into UNM and that this financial obligation should be phased in as legislative support diminishes. We has suggested that UNM work on a plan to phase in core staff support for the Heritage Director and Database Manager – which is consistent with core staffing of all other MSB Divisions. The economic downtown made it nearly impossible to get this done. In 2010, Dr. Este Muldavin (Heritage Director) and I began working with Mark Saavedra and Tanya Giddings in UNM government
relations to stem legislative cuts to Heritage, and to help develop a legislative memorial action to authorize the Heritage Program for continued legislative funding.

We also attempted to secure new MSB space in CERIA when a rumor surfaced of the imminent departure of the Cinematic Arts Department to the Mesa del Sol development south of campus. For economic and other reasons this did not happen. The rationale was to move Heritage from its current location in Marron Hall to CERIA to help build additional collaboration and integration into the MSB. Heritage remains in Marron, but is proactive in seeking collaboration with other Divisions of the MSB.

5. Work to develop and establish integrated online database systems for all Divisions of the MSB. Electronic dissemination of MSB data associated with the collections is increasing at a rapid (if not exponential) pace and nearly all collections have an online presence. However, one model does not fit well for all Divisions. As a matter of the principle of curator autonomy, it is not the purview of the Director to initiate a single system by decree. Therefore, two platforms are currently in use: the ARCTOS platform by Birds, Mammals, USGS, Parasitology, and Genomic Resources; and the SPECIFY platform used by Arthropods and the Herbarium. The Division of Fishes is planning to adopt the ARCTOS platform and is submitting a collaborative NSF-sponsored to complete georeferencing and to initiate online dissemination of collection data. It is likely that unification of the ARCTOS and SPECIFY will happen as the online museum community matures, so in the end, one system may ultimately be used by all Divisions by default.

6. Continue working to support and develop support for education of undergraduate and graduate students. One of the considerable strengths of the MSB is our focus on hands-on education and training of students at all levels from undergraduates to post-doctoral students. Each division trains students in natural history, biodiversity, specimen curation, database operations, georeferencing, and a number of other highly marketable skills. Many, if not most of our students end up going to graduate or professional school or obtaining jobs in conservation and management agencies in state and federal positions. We have two museum-centered programs that focus on student success: the Undergraduate Nurturing Opportunities (UnO) Program and the AIM – UP! Program, both directed by Dr. Joe Cook and funded by the National Science Foundation. The latter program is a planning grant to develop ways to better integrate museum specimens, archives, and databases into undergraduate courses. Both of these programs is enormously successful, but the UnO program stands out as a program that leads to high retention and graduation rates, and successful placement of our students in graduate school or professional scientific positions following their undergraduate studies. Full details about the UnO program can be found at http://msb.unm.edu/UnO/education.html.

Beginning in 2008, we assembled a team of UNM faculty researchers who were interested in developing a museum-centered graduate training proposal aimed at documenting and understanding how abiotic and biotic systems change from molecular to ecosystem scales called MSB-IGERT, with the intention of submitting a proposal to the NSF-sponsored Integrative Graduate Education Research and Training (IGERT) program. We identified three major underlying research areas: (i) identifying and understanding relationships of environmental change and host-pathogen interactions focusing both on human and wildlife diseases (ii) using museum collections to uncover evolutionary and ecological change in biota that results from landscape and water use and global climate change in the American Southwest over decadal time scales and (iii) developing informatics and modeling approaches to both create and use integrated relational databases that link specimens, environmental, molecular and geographic information. Although the MSB-IGERT pre-proposals submitted in 2008 and 2010 reviewed very well, the
full proposals were not selected for funding in either case. Although tabled for the time being, there is considerable support among MSB curators for another attempt at an IGERT proposal in the near future.

7. Improve support for, security, and funding for MSB collections. Reports from MSB Divisions reflect uniformly high curatorial and academic standards of the museum staff. The security of the MSB as a repository is much stronger now than when the collections were housed in Castetter Hall, and UNM as a whole has recognized the value of museums through the development of collections policy and formation of a university-wide Museum Council. However, specimen security, adequate and sufficient housing for collections, and space accommodation for future collections growth remain a major concern at the MSB. Divestment in higher education in New Mexico (and the nation), a trend which began in 2007 and became more severe in 2009 and 2010, also is a threat to the security of the collections.

The state-funded operational budget for the Museum of Southwestern Biology is $53,000 for collections care, curation of new material, databasing, etc. This money is allocated to Divisions at the beginning of the state fiscal year, and does not include salaries of the Collection Managers and Museum Administrator. There is considerable disparity among divisions in operating funds. Among the best supported divisions are Mammals, the Herbarium, Fishes, and Amphibians and Reptiles, and beginning in 2010 (as part of a retention deal), Arthropods. Budget increases in these divisions have usually been negotiated as part of grant proposal packages that have a large curatorial component. The Divisions of Birds and Parasitology are inadequately supported with operating budgets that are $3000 and $2000 (completely from returned F&A), respectively, for the entire year (not including a 1% university-imposed tax to support computerization of contract and grant accounting, etc.). In general, total allocations to the MSB have remained static and have not kept pace with inflation over the last four years despite rising costs of curation, shipping, and electronic infrastructure and maintenance and ever-increasing regulatory compliance requirements from federal, state, and UNM agencies.

Retention and Hiring of MSB Staff - Over the last four years, the economic situation of the country, the State of New Mexico, and UNM has been among the worst in modern history and yet the MSB has managed to grow in the net number of state supported lines. I believe this speaks volumes for the support the MSB has gained from the University, the College of Arts & Sciences, and the Department of Biology who recognize that the MSB serves a critical function to UNM’s mission. When I began my directorship in 2007, the MSB was staffed with faculty curators in eight of nine divisions with two new faculty/curator lines in Arthropods and Birds, which put us in an unprecedented position of strength and potential for growth of collection-based science at UNM. However, our administrative position in this newly revitalized unit was not permanent, but rather funded by “cannibalizing” a graduate curatorial assistant position and through overhead return to Biology, the MSB, and the College of Arts and Sciences (A&S). We were able to convert our Museum Administrator position to a state-supported line beginning in 2008 and restore the GA line to the MSB. Likewise, the Division of Birds had never had a permanent collection manager. With considerable funding from a private donor and support of the UNM President’s office, we were able to secure a full-time, state-supported collection manager for the Division of Birds from a somewhat recalcitrant A&S Dean’s office.

UNM has always been vulnerable to raids on our faculty from other institutions, and the MSB is no exception. We were able to successfully retain two faculty curators during my tenure with the help and support of the Biology Department, especially Chairman Richard Cripps, and the College of Arts & Sciences, especially Philip Ganderton, Associate Dean for Research.
Finally, in 2010, when the fiscal crisis was at its worst, the Herbarium’s long-time collection manager, Jane Mygatt, retired and a newly created Division of Parasitology was in desperate need of a collection manager. We were able to argue, based on considerable resources generated from external funds (e.g., the CETI award to Sam Loker) and with strong community support (from the Land Commissioner and State and Federal Representatives garnered by Tim Lowrey) that these positions be rehired. Early in 2011, Phil Tonne and Dr. Sara Brant were hired as Senior Collection Managers of the Herbarium and the Division of Parasitology, respectively. Apart from a permanent UNM commitment to the New Mexico Natural Heritage Program and appropriate compensation for faculty curators, the MSB is now fully staffed with permanent state supported lines.

8. Gain recognition for faculty curator workloads and obtain appropriate compensation for curatorial work during the academic year and the summer. In December 2007, the entire faculty of the Biology Department unanimously ratified a document entitled “Codifying Responsibilities for MSB Curators” which lays out the expectations and duties of faculty curators in the MSB. In 2010, the UNM Board of Regents approved policy 6410. These actions constitute important recognition that curators have duties that exceed the normal responsibilities of UNM Biology Department Faculty members. Over the course of my directorship, I met repeatedly with the chairman of Biology and the Dean of Arts and Sciences to consider reallocation of duties and summer compensation to rectify this situation. It is past time for the University to recognize and appropriately compensate faculty curators for their work. This has been made a top priority by Dr. Cook.

Museum and Collection Development: University-wide Activities

The MSB Director is a member of the University Collections Committee as stipulated by UNM Policy 6410 entitled “Museums and Collections” in the University Business Policies and Procedures Manual. Adoption of this policy by the Board of Regents in January 2010 was a landmark that established UNM’s permanent commitment to and professional standards for its collections and recognizes the responsibilities and roles of University of New Mexico (UNM) museums and collections “to increase knowledge, understanding, and appreciation of the physical, cultural, and biological world by collecting, maintaining, researching, and interpreting material objects and the contextual data associated with them”. The policy clearly defines obligations of Curatorial staff, UNM Regents, the UNM President and Provost, and Cognizant Unit Heads (i.e., Deans) for adequate housing, care, dissemination and interpretation of these objects in perpetuity. It also defines standards for making these objects accessible and available to the scientific community while preserving the integrity and quality of the specimens through active stewardship. MSB Policy (found at http://msb.unm.edu) is consistent with, although much more detailed than, this more general guiding document.

Progress on a UNM Museum Studies Program-. The MSB, in collaboration with the Maxwell Museum of Anthropology [lead], Meteoritics, and UNM Art Museums, continued to make progress on development of a graduate (MS-granting) Museum Studies Program since 2007. As of September 2011, program and curriculum forms have passed review by the UNM Registrar, the Office of Graduate Studies, the Fine Arts and A&S curriculum committees, the UNM Faculty Senate Curriculum Committee, and a full Faculty Senate Vote. The proposal awaits ratification of the UNM Board of Regents and the New Mexico Commission on Higher
Education. Courses associated with the Museum Studies Program have been approved by the Faculty Senate, and a faculty coordinator for the Museum Studies Program will be hired by Spring Semester 2012. The program will be housed in the Hibben Center of the Department of Anthropology and Maxwell Museum of Anthropology. We anticipate the first Museum Studies students to arrive in Fall 2012.

**MSB Productivity in support of UNM’s Mission**

In 2010, the MSB made substantive contributions to the education, research, teaching, and service mission of the University of New Mexico. A 6-year compilation of metrics shows that 2010 was an above-average year for performance in terms of loans granted, publications generated, undergraduate students trained, and F&A returned. The metrics in the table below were counted from Divisional reports over the last six years. A description and context for each metric is listed below the table and specific details about metrics can be gleaned from Divisional reports for 2010 in subsequent chapters of this report.

Table 1. Metrics tracked over the last four years in the Museum of Southwestern Biology. These metrics were chosen by consensus at a museum-wide retreat in 2007. Numbers are compiled from Divisional reports (2010 included in this document, other annual reports are available upon request or at http://msb.unm.edu).

<table>
<thead>
<tr>
<th>Metric</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>Average Last Four Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Collection growth (Specimens Cataloged)</td>
<td>392509</td>
<td>389144</td>
<td>136248</td>
<td>301268</td>
<td>304792</td>
</tr>
<tr>
<td>2. Loans Out</td>
<td>122</td>
<td>125</td>
<td>128</td>
<td>167</td>
<td>136</td>
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<td>3. Professional Visitors to the Collections</td>
<td>795</td>
<td>795</td>
<td>953</td>
<td>692</td>
<td>809</td>
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<tr>
<td>4. Collection Database Web Site Hits</td>
<td>NR</td>
<td>51287</td>
<td>319745</td>
<td>298360</td>
<td>223131</td>
</tr>
<tr>
<td>5. RFs Answered in Person</td>
<td>1167</td>
<td>1196</td>
<td>1355</td>
<td>1214</td>
<td>1233</td>
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<tr>
<td>6. Outside Publications Citing MSB Specimens</td>
<td>53</td>
<td>60</td>
<td>68</td>
<td>61</td>
<td>61</td>
</tr>
<tr>
<td>7. Peer-Reviewed Publications by Divisional Staff</td>
<td>48</td>
<td>54</td>
<td>79</td>
<td>72</td>
<td>63</td>
</tr>
<tr>
<td>8. Technical Reports</td>
<td>37</td>
<td>30</td>
<td>24</td>
<td>29</td>
<td>30</td>
</tr>
<tr>
<td>9. UNM Courses using the Collection</td>
<td>23</td>
<td>22</td>
<td>25</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>10. UNM Courses taught by Divisional Staff</td>
<td>21</td>
<td>22</td>
<td>24</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>11. Graduate Students</td>
<td>36</td>
<td>35</td>
<td>51</td>
<td>39</td>
<td>40</td>
</tr>
<tr>
<td>12. Graduate Theses/Dissertations</td>
<td>8</td>
<td>8</td>
<td>4</td>
<td>5</td>
<td>6</td>
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<tr>
<td>13. Undergraduate Students</td>
<td>54</td>
<td>54</td>
<td>91</td>
<td>102</td>
<td>75</td>
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<td>15. Grants in Force Total Costs</td>
<td>$9,825,425</td>
<td>$9,444,626</td>
<td>$11,239,035</td>
<td>$10,741,063</td>
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<tr>
<td>16. Estimated F&amp;A return</td>
<td>$1,186,838</td>
<td>$1,449,793</td>
<td>$2,141,328</td>
<td>$2,601,398</td>
<td>$1,844,839</td>
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</table>

NR - not reported
Metric Descriptions

(1) **Collection growth reported in number of specimens** is a measure of growth and curatorial activity in the museum. The MSB exhibited a substantial increase in the number of specimens cataloged compared to 2009, but an average year otherwise. Years 2007 and 2008 were marked by all-out efforts to integrate USGS specimens and several major orphaned collections as detailed above, and these projects were either completed or nearing completion in 2009. Cataloging of new specimens from international expeditions and a special collection of Gila River fishes make up the bulk of 2010 specimens added. Average growth of over 300,000 cataloged specimens per year puts the MSB in a group of the fastest growing university-based natural history museums in the nation.

(2) **Number of specimen loans made to outside researchers and institutions.** These are specimens, groups of specimens, or tissues loaned or gifted in support of ongoing research at other institutions. Outside researchers are responsible to return loans in accordance with the terms of specimen use laid out when the request for the loan is made. A loan constitutes the total amount of specimens, data, or ancillary material sent to a researcher or institution. This metric, which is one measure of collection visibility and utility, increased dramatically in 2010 compared to the average over the last four years, indicating increased use of museum materials by outside researchers. It is possible that loans more loans are being made in lieu of scientists actually visiting the collections due to travel budget constraints, etc. (see metric 3 below).

(3) **Professional Visitors to the Collections.** This metric includes visiting scientists, seminar speakers, taxonomic professionals seeking to verify collection records or study morphological and/or molecular variability of organisms. It does not include members of the UNM Biology Department. The number of professional visitors was down substantially in 2010 compared to average values over the last four years, perhaps reflecting constraint on travel budgets.

(4) **Collection database web hits.** This metric is nearly impossible to track accurately because of wide electronic dissemination of MSB specimen and locality data. Major databases supported by the MSB are ARCTOS, the New Mexico Biodiversity Collections Consortium (NMBCC), and conservation databases of the New Mexico Natural Heritage Program. More broadly, MSB data are served by a number of outside entities including the Global Biodiversity Information Facility (GBIF). The wide dispersion of web hits suggests the impact of MSB specimens and records on the web will continue to increase at an exponential rate in the near term.

(5) **Requests for information (RFIs) answered in person.** Natural history collections staff also perform important advisory functions as indicated by the number of requests for information. Such requests come from academic and government scientists, natural resource management agency personnel, and/or the general public. The MSB serves as a clearing house for knowledge and expertise in the natural history of the southwestern United States. In 2010, the number of RFIs was slightly below average values over the last four years.

(6) **Publications by scientists outside of the MSB.** Curatorial management does have direct impact on scholarly production through the provision of specimens and data to other researchers. In 2010, 61 publications were supported in part through materials provided by the MSB through loans and data sharing, which is the average value over the last four years. This contribution is
frequently overlooked when compiling statistics of various units, but in effect, doubles the scholarly contributions of the MSB as a whole. There time allocated to curatorial efforts produces scholarly contributions outside the normal reward system offered to university faculty and research staff.

(7) Publications by museum staff. This metric includes all publications in bona fide outlets such as books, journals, compendia, and other publications. Gray literature and quasi-public reports (e.g., technical reports, agency reports – see below) are not included. There may be some overlap among divisions as curatorial staff often co-author manuscripts and these will be counted twice in overall totals. In 2010, substantially exceeded the four-year average, but were down slightly compared to 2009.

(8) Technical reports by museum staff include reports to agencies in fulfillment of contract deliverables. Many of these reports hold primary data upon which critical management decisions are made, including endangered species status, listing decisions, biological opinions and other documents. In 2010, the number of technical reports was slightly below the four-year average. These may be under-reported because such reports are not prominently featured in tenure and promotion support files.

(9) UNM courses using specimens, data, electronic archives and other resources provided by the MSB. This number is remarkably stable over the last four years.

(10) UNM courses provided by museum staff includes lecture courses taught by faculty curators and associate curators of the MSB. It also includes laboratory teaching by graduate students affiliated with the MSB.

(11) Number of graduate students mentored by MSB staff per year includes graduate students who are formally trained in curatorial practices and standards of field data collection, specimen preservation, field protocols that are consistent with institutional animal care guidelines, directly by faculty and staff of the MSB. It does not include graduate enrollment in formal courses. Graduate student participation in MSB activities was very near average values over the last four years. Substantial involvement of graduate students reflects the drawing power of natural history and the MSB for graduate recruitment in Biology and A&S.

(12) Number of graduate theses/dissertations is the total per year completed by graduate students mentored by MSB staff as primary advisor or co-advisor. This number fluctuates depending on overall graduate enrollments within the Biology Department. It was slightly lower than average values over the last four years.

(13) Number of undergraduate students trained in the MSB includes undergraduate students that are employed under the Federal Work-Study program or from externally funded research grants and contracts, and special education programs like Undergraduate Research Mentoring projects like UNO and UMEB. This number is higher in 2010 than the four-year average as a result of MSB-centered undergraduate educational programs, increased grant activity for curation and integration of orphaned collections (e.g., Fishes, Mammals, USGS), and ramping up of museum-based programs in Birds and Arthropods.
(14) Number of grants and contracts in force includes all active grants and contracts that are available to specimen-based research and are being conducted by MSB staff. This number varies little from year to year, but overall funding has steadily increased with inclusion of new curatorial staff (Miller and Witt) and units (Division of Parasitology), along with sustained granting activity from other units.

(15) Total dollar amount of all grants and contracts in force is simply the sum of the total dollar amounts of all grants in force. Yearly expenditures are expected to be a fraction of the total grants in force.

(16) Total amount of Facilities and Administration (F&A) funds from grants/contracts in force is likewise the sum of estimated F&A. Yearly expenditures are expected to be far less than totals. Returned F&A is steadily increasing (and at its highest in 2010) because of an increasing amount of grants that return F&A at the federal negotiated rate.

A Snapshot of Activities in the MSB (2010–2011)

Below, we present a table that reflects the many activities that museum faculty and staff conducted over the last calendar and academic years (Table 2) that was adapted from the MSB News and Events page at http://msb.unm.edu. This list is by no means exhaustive, and further details can be gained by examining individual Divisional reports. However, it documents considerable emphasis on student training in research that includes travel to national and international meetings to present their research findings, and on developing new ways for museum data and objects to be incorporated in the classroom through programs like UnO and Aim-Up!. The MSB also continues to further develop collection resources through major Biological Collection Improvement Grants from the National Science Foundation and others. MSB Graduate Students are highly competitive for awards and recognition from the Department of Biology, and from disciplinary and inter-disciplinary professional societies.

Table 2. A snapshot of MSB activities from January 2010 to July 2011.

<table>
<thead>
<tr>
<th>Month</th>
<th>Year</th>
<th>Award or Event</th>
<th>MSB Divisions or Programs Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>2010</td>
<td>Best Paper Award to Sandy Brantley and Dave Lightfoot, Western North American Naturalist</td>
<td>Arthropods</td>
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<tr>
<td>February</td>
<td>2010</td>
<td>Mississippi Conservation Award to Stephen Ross</td>
<td>Fishes</td>
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<tr>
<td>February</td>
<td>2010</td>
<td>Smithsonian Short-term Visitor Grant to Heidi Hopkins</td>
<td>Arthropods</td>
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<tr>
<td>April</td>
<td>2010</td>
<td>UNM Outstanding Staff Award to Tom Giermakowski</td>
<td>Amphibians and Reptiles</td>
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<tr>
<td>April</td>
<td>2010</td>
<td>Golden Key Honor Society award to MJ Vargas</td>
<td>UnO Program</td>
</tr>
<tr>
<td>April</td>
<td>2010</td>
<td>Cocalina Memorial Scholarship to Rebecca Zalar</td>
<td>Arthropods</td>
</tr>
<tr>
<td>May</td>
<td>2010</td>
<td>NSF RCN Award Aim-UP! awarded to Joseph Cook</td>
<td>Mammals and DGR</td>
</tr>
<tr>
<td>June</td>
<td>2010</td>
<td>Brother Arsene Botanical Collection transferred to the UNM Herbarium by Tim Lowrey</td>
<td>Herbarium</td>
</tr>
<tr>
<td>Month</td>
<td>Year</td>
<td>Event Description</td>
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<tr>
<td>July</td>
<td>2010</td>
<td>Colorado Plateau Cooperative Ecosystem Study Unit Meeting in Flagstaff attended by Tom Turner</td>
<td></td>
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<tr>
<td>August</td>
<td>2010</td>
<td>Ticol Alvarez Award for Mammalogy to David Schmidly</td>
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<tr>
<td>August</td>
<td>2010</td>
<td>Kappa Kappa Gamma Fraternity Award to Brittany Barker</td>
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<tr>
<td>October</td>
<td>2010</td>
<td>Inaugural AIM-Up! Symposium in Santa Fe, New Mexico</td>
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<tr>
<td>November</td>
<td>2010</td>
<td>NSF REV-SYS Grant to Kelly Miller</td>
<td></td>
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<tr>
<td>November</td>
<td>2010</td>
<td>Desert Fishes Council Best Student Poster Award to Jesse Trujillo</td>
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<tr>
<td>March</td>
<td>2011</td>
<td>NSF Biological Research Collection Grant for the Rausch Collection</td>
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<tr>
<td>April</td>
<td>2011</td>
<td>Donald Caughan Scholarship Award to Matt Jones (Advisor: Witt)</td>
<td></td>
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<tr>
<td>April</td>
<td>2011</td>
<td>Grove Scholarship Award to Shane Dubay (Advisor: Witt)</td>
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<tr>
<td>April</td>
<td>2011</td>
<td>Donald Caughan Scholarship Award to Brooks Kohli (Advisor: Cook)</td>
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<tr>
<td>April</td>
<td>2011</td>
<td>Cliff Crawford Scholarship Award to Corey Love (Advisor: Turner)</td>
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<tr>
<td>April</td>
<td>2011</td>
<td>NMOS Research award to Bethany Abramson (Advisor: Witt)</td>
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<tr>
<td>April</td>
<td>2011</td>
<td>Sigma-Xi Grant-in-Aid-of-Research, Libby Beckman (Advisor: Witt)</td>
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<tr>
<td>May</td>
<td>2011</td>
<td>Dean's Dissertation Prize to Trevor Krabbenhoft (Advisor: Turner)</td>
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<tr>
<td>June</td>
<td>2011</td>
<td>American Parasitology Society Meritorius Paper Award to Kayce Bell (Advisor: Cook)</td>
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</tr>
<tr>
<td>July</td>
<td>2011</td>
<td>Lex Snyder Elected to American Soc Ichthyologists and Herpetologists Board of Govs.</td>
<td></td>
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<tr>
<td>July</td>
<td>2011</td>
<td>Albuquerque and UNM selected to host Joint Meeting of Ichthyologists and Herpetologists</td>
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</tbody>
</table>

**Ongoing Challenges to Growth and Development of the MSB**

We face a number of challenges to implementation of our goals that mainly revolve around a general lack of resources for an I/T staff position and operational budgets:

1. **We Lack Critical Information Technology Support:** The MSB is sorely lacking information technology support, and it is our top priority to staff an IT Technologist/Systems Administrator position to help develop, grow, and maintain our overtaxed cyber-infrastructure (Over 300,000 web hits and data downloads in 2010). At present, our database management plan is *reactive* rather than *proactive*; we deal with problems involving data security, data backup/management, systems maintenance, IT innovation, trouble shooting viruses/worms, purchasing hardware and software in highly piecemeal fashion using private contractors that vary tremendously in quality and service.
2. Fluid collection space and freezer space for genomic materials is limited or compromised by poor infrastructure. New space is subject to State Fire Marshal scrutiny, and a liquid nitrogen facility has special requirements and safety concerns that necessitate a new building.

3. We Lack Sufficient Funds for Operating Budgets for Collection Care/Improvement in the Divisions of Birds and Parasitology.

4. Faculty curators are uncompensated and unrecognized for their work during the academic year and the summer.
APPENDIX I

SEVILLETÁ LTER
ANNUAL REPORT,
2010–11

Principal Investigator: Collins, Scott L.
Organization: University of New Mexico
Submitted By: Collins, Scott - Principal Investigator
Title: Sevilleta LTER IV: Abiotic Pulses and Constraints: Effects on Dynamics and Stability in an Aridland Ecosystem

Project Participants

Senior Personnel

Name: Collins, Scott

Worked for more than 160 Hours: Yes

Contribution to Project:
Principal Investigator for the project. Responsible for all interactions between the Sevilleta LTER and NSF and the LTER Network. Involved in many facets of Sevilleta LTER research, education and outreach.

Name: Dahm, Clifford

Worked for more than 160 Hours: Yes

Contribution to Project:
Co-Principal Investigator for the project. Involved in many facets of Sevilleta LTER research, education and outreach, particularly in the riparian zone along the Middle Rio Grande.

Name: Pockman, William

Worked for more than 160 Hours: Yes

Contribution to Project:
Co-Principal Investigator for the project. Involved in many facets of Sevilleta LTER research, education and outreach.

Name: Litvak, Marcy

Worked for more than 160 Hours: Yes

Contribution to Project:
Co-Principal Investigator for the project. Involved in many facets of Sevilleta LTER research, education and outreach.

Name: Vanderbilt, Kristin

Worked for more than 160 Hours: Yes

Contribution to Project:
Co-Principal Investigator and Information Manager for the project. Kristin is responsible for the Sevilleta Information Management System and she is involved in several facets of Sevilleta LTER research, education and outreach, particularly regarding national and international training in information management.

Name: Wolf, Blair

Worked for more than 160 Hours: Yes

Contribution to Project:
Senior Project Scientist and head of the Sevilleta LTER consumers research group.

Name: Muldavin, Esteban

Worked for more than 160 Hours: Yes

Contribution to Project:
Senior Project Scientist and head of the Sevilleta LTER producers research group.

Name: Lightfoot, David

Worked for more than 160 Hours: Yes

Contribution to Project:
Senior Project Scientist working primarily with the small mammal enclosure study and our long-term arthropod data sets.
US FISH AND WILDLIFE SERVICE
The Sevilleta National Wildlife Refuge is the site of the terrestrial component of the Sevilleta LTER program.

New Mexico Institute of Mining and Technology
Bruce Harrison and Enrique Vivoni are faculty members at NM Tech.

USDA Forest Service
Rosemary and Burt Pendleton are research scientists with the USDA Forest Service Rocky Mountain Research Station.

USDA Jornada Experimental Range
Debra Peters is a research scientist with the USDA Jornada Experimental Range and New Mexico State University.

University of Virginia Main Campus
Paolo D'Odorico is a faculty member at UVa.

Los Alamos National Laboratory
Luis Bettencourt and Aric Hagberg are scientists at LANL.

Sandia Laboratories-Livermore
Collaborative research on fungal metagenomics research

University of Sheffield
Faculty from Sheffield and their graduate students are conducting ecohydrological research and modeling at the Sevilleta.

Other Collaborators or Contacts

Activities and Findings

Research and Education Activities: (See PDF version submitted by PI at the end of the report)

Findings: (See PDF version submitted by PI at the end of the report)

Training and Development:
See attached PDF

Outreach Activities:
In 2010-2011 the Sevilleta LTER participated in outreach activities through the Sevilleta National Wildlife Refuge, visits by school groups, and by hosting SEEDS activities.

Members of the Sevilleta LTER frequently work with staff at the USFWS Sevilleta National Wildlife Refuge in cooperation with their outreach programs and activities.

In 2011 we held the fourth year of our REU Sites Program. During the past year, Sevilleta staff have conducted numerous field trips for visitors, FWS guests, the NM Museum of Natural History, and other school groups at the Sevilleta. Sevilleta staff will be involved in developing outreach materials for the remodeled visitor's center at the Sevilleta National Wildlife Refuge headquarters.
**Journal Publications**

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Friggens, MM; Parmenter, RR; Boyden, M; Ford, PL; Gage, K; Keim, P, "FLEA ABUNDANCE, DIVERSITY, AND PLAGUE IN GUNNISON'S PRAIRIE DOGS (CYNOMYS GUNNISONI) AND THEIR BURROWS IN MONTANE GRASSLANDS IN NORTHERN NEW MEXICO", JOURNAL OF WILDLIFE DISEASES, p. 356, vol. 46, (2010). Published,

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Collection: Distributed Computing in Sensor Systems
Bibliography: DCOSS, Santa Fe, NM.

Allen, Michael F., "Water dynamics of mycorrhizas in arid soils", (2007). Chapter, Published
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Bibliography: Cambridge University Press, Cambridge, UK.

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Collection: Terrestrial ecosystems in a changing world.
Bibliography: Springer-Verlag, NY

Editor(s): Levin, S.
Collection: Encyclopedia of Ecology
Bibliography: Oxford University Press, Oxford, UK

Editor(s): Gries, Corinna, Jones, Matthew B.
Bibliography: September 10-11, 2008, Albuquerque, NM, LTER.
Contributions within Discipline:
The Sevilleta LTER has contributed to several important questions within the discipline. In particular, we have shown that aridland vegetation is resilient to heavy grazing by cattle. Results from our long-term studies show that many of the grasslands on the Sevilleta are once again dominated by long-lived perennial C4 grasses and native forbs. We are now experimentally determining the resilience of these systems to climate extremes including chronic drought and multiple wet years. Finally, we have shown for the first time that shrub encroachment leads to a decline in plant species richness and decreased temporal stability of subordinate species.

We are involved in a multisite analysis of the ecosystem impacts of shrub encroachment and its impacts on aboveground NPP and plant community structure. Unlike previously reported results, shrub encroachment has minimal effects on NPP in aridland ecosystems, but evidence shows greater net carbon storage with shrub encroachment. Thus, desertification may increase carbon storage in aridlands.

Detailed analyses of soil moisture fluxes show the ability of these systems to respond to precipitation pulses, and that these responses differ somewhat in grassland and shrubland primarily as a function of differences in total vegetation cover, but not in water use, per se. Our monsoon rainfall manipulation experiment directly tests hypotheses about rainfall pulse events. In that context we have revised the
aridlands pulse reserve model and developed a 'fungal loop' model for aridland ecosystem processes in which fungi, rather than bacteria, are the key drivers of C and N dynamics.

Our long-term rainfall manipulation experiment in the Pinon-Juniper woodlands at the Sevilleta is designed to determine the mechanisms by which chronic severe drought interactions with tree ecophysiology, bark beetles and fungal diseases to explain regional scale tree mortality and rapid large-scale ecosystem change.

Our PJ mortality experiment is measuring the ecosystem consequences of widespread tree mortality on water, energy and carbon fluxes, soil microbial communities and plant community dynamics.

Our continuing efforts to restore Gunnison's Prairie dog colonies on the Sevilleta is providing a unique research opportunity to determine the keystone role of this species in aridland ecosystems, as well as detailed information on restoration strategies for this threatened species.

We are testing infrastructure for new long-term experiments to be included in our upcoming renewal proposal.

Sevilleta personnel continue to play a role nationally in the development and implementation of EML, and in training information managers nationally and internationally on modern methods and goals of information management.

Contributions to Other Disciplines:
We continue to maintain our strong linkages between ecological research at the SEV and geoscience research, especially geomorphology and soils, ecohydrology and climatology. The Sevilleta serves as a site for the development of models to better predict the North American Monsoon and for scaling up evapotranspiration losses regionally. Current work reflects a collaboration between soil scientists and hydrologists on soil CO2 fluxes and how this affects soil development and nutrient transfers in aridlands.

Our various long-term global change experiments focus on how climate change and atmospheric deposition will affect population, community and ecosystem processes in a variety of habitats characteristic of this aridland region.

Because of our extensive wireless cloud the east side of the Sevilleta and beyond, Sevilleta scientists continue to play a leadership role in the development and use of wireless technology for environmental research in both monitoring and experimental contexts.

In 2011 we started receiving genomic sequencing data for our fungal metagenomics related research linked to recalcitrant carbon degradation and potential biofuels applications. We expect to receive metagenomics data on up to 96 composite soil samples, each sample contains around 25GB of data to sort through. This is a collaborative project with Sandia National Labs and the Joint Genome Institute.

Contributions to Human Resource Development:
See attached activities file. Also, the Sevilleta Schoolyard LTER program, BEMP (Bosque Environmental Monitoring Program), connects K-12 kids to ecosystem monitoring and research through field and classroom activities all up and down the Middle Rio Grande.

These activities were greatly assisted by Education Enhancement funds received in 2005 and 2006, and a boost in the LTER core funding for BEMP.

Our GK12 program supported up to 10 UNM Graduate Fellows from the Departments of Biology and Earth and Planetary Sciences per year for three years to assist middle school teachers with science content and inquiry based activities at schools in Socorro, Belen and Laguna Pueblo, NM. The Fellows also work with after-school programs and the development and planning of multi-day field trips with the students, teachers and parents.

The Sevilleta also serves as a testbed for the development and implementation of wireless sensor networks and sensor technology. These projects are scalable, and can be translated to other ecosystems. The SEV provides a technological challenge to the engineers and computer scientists who are developing this technology because of its abundant sunlight and high temperatures. We continue to work in collaboration with scientists at Los Alamos National Labs and with faculty members in the UNM Mathematics Department to develop on-the-fly visualization and data analysis protocols in two of our signature global change experiments.

We have installed a wireless backbone on the Sevilleta which can serve as a prototype for wireless systems at other relatively remote LTER sites.

We continue to involve undergraduate students in all phases of our project through hiring of summer interns and through our well established Sevilleta LTER REU program. We have hosted more than 40 REU students in the last 4 years, the vast majority of whom come from colleges.
and universities outside of New Mexico.

In 2007, PI Collins served as a mentor for Jarrod Blue one of the ESA SEEDS Research Fellowship awardees. Jarrod completed his MS degree at the University of Tennessee and he is now in Law School (starting in 2011).

Contributions to Resources for Research and Education:
See attached activities file. Also, BEMP continues to provide science experiences for hundreds of school kids living along the Middle Rio Grande. Our GK12 program continues to serve as a bridge between the Sevilleta LTER and Sevilleta graduate students with the Sevilleta National Wildlife Refuge, and the middle school science classes in Socorro, Belen and Laguna Pueblo.

Our prairie dog restoration project is helping to establish viable populations within the Sevilleta National Wildlife Refuge of this potentially threatened species.

Contributions Beyond Science and Engineering:
Our research provides key information and understanding about aridland ecosystems that is used by the Fish and Wildlife Service in making management decisions. For example, in cooperation with staff at the Sevilleta National Wildlife Refuge, we began a long-term experiment to determine the impacts of seasonal management burns on plant community structure, soil nutrient fluxes and NPP. Fire is a key management tool at the SNWR and this research will inform managers about the seasonal impacts of fire on management goals. We hope that over time, this project will also include fire frequency treatments.

Work by Sevilleta scientists on ecosystem processes and restoration in the bosque is contributing directly to the development of a state water plan, and water management through ecological restoration. Plans for extensive restoration continue and Sevilleta scientists are actively involved in planning, designing and monitoring these riparian restoration efforts.

Our prairie dog restoration project is a highly visible conservation effort to create viable populations of this threatened species within the Sevilleta. This is a cooperative activity between the SEV LTER, the US Fish and Wildlife Service, and scores of volunteers.

In addition, through a combination of funding sources we hope to determine the role of high elevation pinon-juniper and juniper savanna ecosystems in ground water recharge, a crucial issue in the arid southwestern US. Pervasive regional drought has caused large scale die-offs in these ecosystems which will have a significant impact on fire frequency and wildlife populations, among other things.

In 2009 Sevilleta LTER was featured on two University Showcase radio broadcasts on our local NPR affiliate. In addition, we continue to provide outreach to decision makers via visits to the offices of our Congressional delegation and tours with legislative staffers of our Field Station and research sites.

Our research on the impacts of shrub encroachment showed that change from grass- to shrub-dominated vegetation led to higher winter average temperatures of around 2.5C. Shrub encroachment is likely to have a synergistic effect on temperature change under global climate change.

Conference Proceedings

Special Requirements

Special reporting requirements: None
Change in Objectives or Scope: None
Animal, Human Subjects, Biohazards: None

Categories for which nothing is reported:

Any Web/Internet Site
Any Product
Any Conference

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The Sevilleta LTER Program addresses ecological concepts and theory through a comprehensive and interdisciplinary research program in desert grassland, shrubland, forest and riparian habitats in central New Mexico. Our focal sites are the 100,000-ha Sevilleta National Wildlife Refuge (SNWR) located about 80 kilometers south of Albuquerque (managed by the US Department of the Interior, Fish and Wildlife Service) and the Middle Rio Grande (MRG) bosque between Cochiti Dam and Elephant Butte Reservoir (Fig 1). Since its inception in 1988, the Sevilleta LTER program has conducted research at multiple ecological levels and a variety of spatial and temporal scales. Our studies are linked by an overarching theme that considers how abiotic drivers and constraints affect dynamics and stability in aridland populations, communities and ecosystems.

The Sevilleta LTER Program is a long-term, comprehensive, integrated, interdisciplinary research program addressing key hypotheses on pattern and process in aridland ecosystems. Our LTER research in central New Mexico is concentrated on studies in desert grassland and shrubland communities and piñon-juniper and riparian ("bosque") woodlands emphasizing transitions in space and time. Each landscape component is governed by key abiotic and biotic drivers, especially climate variability, fire, hydrologic variability, nutrient dynamics, and herbivory. The rates and intensities of these drivers are changing over time. Given the emerging research interest in ecohydrology of aridlands, our focus on the effects of biotic and abiotic drivers on spatial and temporal dynamics of these aridland ecosystems allows us to conduct long-term research that addresses important basic ecological questions and yet has significant relevance to state, regional, national, and international priorities.
The Sevilleta LTER site and its surroundings are positioned at the intersection of several major biotic zones: Chihuahuan Desert grassland and shrubland to the south, Great Plains grassland to the north and east, piñon-juniper woodland at upper elevations in the mountains, Colorado Plateau shrub-steppe to the north and west, and riparian vegetation along the middle Rio Grande Valley (Figs 1 and 2). Because of the confluence of these major biotic zones, the SNWR and the Middle Rio Grande Basin present an ideal setting to investigate how environmental change and climate variability interact to affect ecosystem dynamics at the boundaries of major biomes in southwestern North America. Moreover, the rapid growth and southern expansion of the City of Albuquerque and its suburbs increasingly will have an impact on ecosystem processes throughout the Middle Rio Grande Basin, including the SNWR, and these urban forces will interact with climatic variation to catalyze change in this aridland region.

This is the fifth annual report from our fourth funding cycle. LTER IV (2006-2012) builds on our prior research on patch and boundary dynamics by placing a greater emphasis on interactions among key processes and drivers of change in aridland ecosystems, in particular nitrogen (N) availability and climate dynamics. This new emphasis greatly expands the spatial and temporal scales and conceptual bases of our LTER program. Our new organizing framework is designed to integrate the components of our research program and allow us to test important hypotheses of general ecological interest.

More specifically, Sevilleta research is designed to understand the individual and interactive effects of three key system components: abiotic pulses and constraints, ecosystem processes, and biotic responses and feedbacks (Fig 3). The main abiotic pulses and constraints are (1) seasonal, annual, and decadal variations in climate, (2) geomorphology, soil texture, structure and depth, and surface and riparian hydrology, and (3) season, periodicity, and intensity of fire. These abiotic factors affect dynamics of biogeochemical pools and cycles; water input, storage, use and loss; and patterns and controls on primary production. Biotic responses to the coupling of these abiotic factors and ecosystem processes include dynamics and stability in the distribution, abundance, and diversity of plant and animal populations and communities. Given the fundamental relationship between primary production and community structure in ecological communities, one of our core LTER activities is to link climate dynamics, disturbances, and soil structure with soil nutrient and water fluxes to better understand seasonal and annual variability in NPP and how that variability ultimately affects the dynamics, distribution and abundance of key aridland producers and consumers.
To accomplish these goals, the Sevilleta LTER program is organized into five overlapping thematic areas with designated group leaders: Climate and Abiotic Drivers (Cliff Dahm), Water Fluxes (Will Pockman), Soils and Biogeochemistry (Bob Sinsabaugh), Producer Dynamics (Esteban Muldavin), and Consumer Dynamics (Blair Wolf). These thematic areas are not mutually exclusive, but they serve as an effective mechanism to organize and synthesize our research. New and continuing research includes a variety of activities in each sub-

Figure 3: Research activities under three integrated project areas: Abiotic drivers, Ecosystem processes, and Biotic responses. Together these activities directly address the five LTER core areas.

area (Fig 3).

In 2009-2010 we continued all but two long-term data collection efforts described in our renewal proposal (LTER IV) and in the 2008-2009 annual report. These projects were discontinued because they were either destroyed by the 2009 ESA Wildfire that occurred on 4-5 August (small mammal exclosure study or SMES), or they were made redundant as a consequence of the wildfire (vegetation transects across the 1995 fire boundary near Deep Well). Therefore we are now able to focus some field crew time on one of our new emphases, the greatly expanded effort to restore Gunnison’s prairie dogs at the Sevilleta as described later in this section (see also ANPP section below).

Aboveground Net Primary Production (ANPP). Sevilleta LTER has now been non-destructively sampling ANPP on replicated 1-meter quadrats at two core vegetation sites since 1999 (12 years). A third site dominated by blue grama was added in 2002. Four additional sites with mixtures of these core vegetation types were established in 2004 following a large prescribed burn in 2003. We published the results of an analysis of NPP of annuals in grassland and shrubland in 2010, and currently have in press a multiyear analysis of above- and belowground NPP in our long-term N fertilization experiment led by graduate student Laura Ladwig (see findings).

Piñon Juniper Net Primary Production Study. We have continued our sampling (8 years) of aboveground herbaceous net primary production measurements stratified by slope positions of ridge, north, and south-facing, and valley bottom in piñon-juniper woodlands. Creosote mortality monitoring plots.
**Meteorological Network.** The Sevilleta now has 22 years of meteorological data from as many as 10 stations across the Sevilleta. We have continued refurbishing and replacement of certain sensors acquired through a supplemental grant. Acquisition of a number of tipping bucket rain gauges fitted with HOBO dataloggers allowed establishment of seven more precipitation-measuring systems across the refuge. This allows better measurement of the spatially and temporally variable precipitation common on the Sevilleta, particularly during the monsoon portion of the year. In 2011 we renewed our contract with NOAA to continue to host one of their Climate Reference Network meteorological stations.

**Prairie dog colony restoration experiment.** Following a 2010 workshop at the Sevilleta hosted by the SEV LTER and the Sevilleta National Wildlife Refuge we expanded our vegetation monitoring on two new colony restoration plots in addition to our on-going measurements in the original restoration areas started in 2005. A total of 8 plots were delimited in winter/spring 2010, four of which were populated with artificial burrows. Gunnison’s prairie dogs were introduced to the two eastern most plots in 2011 while two plots serve as controls. In Fall 2011 we began annual sampling in these permanent vegetation monitoring plots in these colonies.
The protocol for vegetation measurements for the existing and the expanded study can be found at [http://tierra.unm.edu/wikis/im/index.php/Prairie_Dog_Reintroduction_Stu](http://tierra.unm.edu/wikis/im/index.php/Prairie_Dog_Reintroduction_Stu)

We installed Vaisala CarboCap CO2 probes in a subset of the treatments in our long-term nighttime warming, winter rainfall, N-addition experiment. Probes were installed at three depths (2, 8, 16 cm) to allow us continuously measure soil CO2 production from which we can also calculate soil respiration. Probes were buried in the following treatments (n=5): controls, warmed, winter rain, warmed and winter rain.

We conducted a 1-year rainfall pulse study to determine the physiological response of the two dominant grasses to one large or several small rainfall pulses during the monsoon season. Complete rainout shelters were erected over blue grama dominated grassland, black grama dominated grassland, and the ecotone where they co-occur. Plots were treated with a single 30 mm rain event each month, or three 10 mm events each month. Net photosynthesis and predawn and midday water potentials were measured on each species. This work was conducted by graduate student Michell Thomey. Also, graduate student Laura Ladwig collected soils in these rainout shelters to measure extracellular enzyme activities (EEA) in response to drought and over the growing season.

In 2011, we started an extensive sampling campaign for microbial composition and function in several of our long-term experiments. First, we sampled soils in all treatments in our long-term warming experiment, and all treatments in our monsoon rainfall manipulation experiment. These soils were submitted to JGI for metagenomics analysis. Samples are still be processed. The first two samples received contained about 28GB of data each.

In 2005 we established replicate monocultures of three common grasses (blue and black grama, threeawn) on some reclaimed soils at the Sevilleta. In 2011 we sampled those soils for microbial community composition (graduate student Sara Lopez) and for nutrient content and EEA analysis (graduate student Laura Ladwig) to assess the impact and feedbacks between common grasses, soils and microbial communities at SEV. We also collected soils under naturally established blue and black grama and threeawn as well.
Finally, we resampled soils in our long-term N-fertilization plots (10 treatment, 10 controls) to measure microbial community composition in response to N amendments (graduate student Sarah Hicks).

**INFORMATION MANAGEMENT**

SEV has been collaborating with LNO, NTL, LUQ, VCR, ARC, and PIE LTER sites to develop the Drupal Ecological Information Management System (DEIMS), a framework for managing data, metadata, and other LTER information products through a single web portal. Drupal is an open source content management system, and our group seeks to utilize components developed and maintained by others around the world while also building custom modules to fulfill LTER information management needs. The power of this system is that all sites involved have agreed on a common database model to house metadata in the backend MySQL database of DEIMS, and this means that any of the sites can build tools that will be usable by the other sites. Of significant value to the Sevilleta LTER is that metadata can now be entered directly by scientists and students via a web interface, which is a large step forward relative to the MS Access database tool we had used previously.

The DEIMS group pooled information management supplement money in 2010 to hire a programmer at the Marine Biological Lab who generated a prototype module that translates metadata, entered via a Drupal web page, into XML. A harvest list dynamically generated by Drupal makes these data available to the LNO Metacat. This prototype has been implemented at the Sevilleta, but the EML being generated is not yet valid. Programmers hired at SEV and at a few other of the participating sites with Supplement 2011 funds will finish the module. This automated EML generation/harvest approach represents another big advance for the Sevilleta, since the harvest list no longer has to be maintained by hand and the EML is generated dynamically.

Adopting DEIMS meant that Sevilleta had to migrate our metadata into the DEIMS database structure. This process was started in 2010, when Inigo San Gil (USGS) wrote a Perl program to ingest EML files into DEIMS. Because EML is so flexible, however, and the EML had been generated using so many different mechanisms over the years, only about half of the EML fields were correctly populated in the Drupal database. In 2011, the SEV IM and four-person Sevilleta field crew examined all the metadata in DEIMS and made corrections. All variables were re-entered, which gave us the opportunity to update the units to conform to recommendations in the LTER Units dictionary. This process improved the quality of the metadata that SEV will provide to the NIS.

The DEIMS development process has been very slow because once the 2010 supplement funds were exhausted, there was no money to pay a developer. In May 2011, SEV IM Vanderbilt submitted a Supplement Proposal request to NSF for $30K to be used to add LTER Controlled Vocabulary and LTER Unit Dictionary support to DEIMS, and also to package the tool for easy deployment by other information managers. This supplement has been awarded, and a Drupal expert is being sought to complete the work.

Drupal is first and foremost a platform to developing modern websites. The new Drupal Sevilleta website integrates and links information in a way that the old website did not. The new
website is accessible in beta, pending improvements to its visual theme: 
http://tierra.unm.edu:8888. The Drupal learning curve is steep, and a significant amount of IM 
Vanderbilt’s time in 2011 was spent learning to utilize the Drupal interface to create various 
views and search interfaces for SEV data, metadata, and other information products.

Two graduate student programmers were engaged during Summer 2011 to 1) improve QAQC of 
data from Sevilleta’s many NPP studies, and 2) migrate years of data collected from ET towers 
located on or near the Sevilleta in to the Sevilleta Information Management System. SEV now 
has a new semi-automated Perl-based system for managing and quality checking NPP data. The 
ET project was fraught with problems related to attempts to update programs that relied on calls 
to obsolete software. Sevilleta now houses the ET data, but it continues to be processed on an 
ancient Mac workstation, pending hire of another programmer to completely re-write the 
processing software.

IM Kristin Vanderbilt serves as co-chair of the US LTER International Committee, and also 
continues to serve on the ILTER Information Management Committee. She also served on the 
Metadata Management Suite Tiger Team to assist with NIS development. She is co-PI on a CI-
TEAM proposal with Deana Pennington at UTEP that will advance the vision of development a 
Virtual Learning Commons for ecological information managers in the LTER and ILTER.

**Publications and Grants**
In calendar year 2011, Sevilleta LTER scientists have published 15 book chapters (mostly in 
Ecotrends) and 20 peer reviewed journal articles thus far with >10 manuscripts currently in press 
or in review. In addition, Sevilleta scientists were actively involved as authors and co-editors in 
the Ecotrends project. PI Collins is one of the Co-Editors of the book and Sevilleta Senior 
Scientist Deb Peters spearheaded the project from start to finish.

The following grants were awarded in 2011:

**RAPID:** Using a natural extreme freeze in New Mexico to test predictions regarding the 
physiological basis of freezing tolerance in natural populations. NSF $171,000 (7/1/11 – 6/30/12) 
PI: WT Pockman.

Collaborative research: The virtual learning commons: STEM research communities learning 
about data management, geospatial informatics, and scientific visualization. NSF $133,923 
(9/15/2011-9/14/14); PIs: M McConnell, K Benedict, K Brady, K Vanderbilt.

Assessing the role of bark beetle activity in drought induced mortality of pinon pine. DOE-PER 
(via LANL subcontract) $ 185,920 (9/1/10 – 8/30/13); PI WT Pockman.

Long-term carbon dynamics in aridland ecosystems. US Forest Service RMRS $120,000 (9/1/10-
8/31/13); PIs SL Collins, M Litvak, P Ford, D Finch, M Reeves.

REU Sites: Pulse dynamics research in aridland ecosystems. NSF $452,640 (4/1/11-3/1/16); PIs 
SL Collins, L McFadden.
Upgrading and expanding the continuous water quality monitoring network for the Middle Rio Grande. US Army Corps of Engineers $49,984 (9/1/2011 – 8/31/2012); PI C Dahm.

**EDUCATION, OUTREACH, CROSS-SITE AND NETWORK LEVEL ACTIVITIES**

The SEV LTER continues its activity involvement in education and outreach through BEMP (our Schoolyard LTER), the SNWR, our REU Sites program, ESA SEEDS, and our everyday classroom teaching activities. SEV scientists are also active in numerous cross-site and synthesis projects, and provide service to the LTER Network. PI Collins is now Chair of the LTER Executive Board and Science Council, Co-PI Vanderbilt is now Co-Chair of the US ILTER, and Co-PI Pockman is Co-Chair of NISAC. PI Collins Chaired the 2011 LTER Minisymposium organizing committee, and Co-PI Litvak was one of the minisymposium and science council speakers. Co-PI Vanderbilt remains an active member of the Information Management community within LTER. PI Collins spoke in the LTER organized symposium at the 2011 ESA Meetings in Austin, TX, and several SEV scientists (Collins, Dahm, Vanderbilt, Pockman) have participated in LNO sponsored synthesis workshops.

**Schoolyard LTER.** The Bosque Ecosystem Monitoring Program (BEMP) is the schoolyard portion of the Sevilleta LTER. Last year BEMP involved 5,935 community members (students, teachers, and volunteers) in science-related outreach activities. Of these people, 3,311 were actually in the field collecting long-term data about ecosystem variables and the ecological drivers of flood, fire, river flow, climate and management. Experiences of these community members supports science education reform efforts and helps increase each person’s understanding and appreciation of science in general and the Rio Grande riparian ecosystem in particular. BEMP findings derived from K-12 student-gathered data are used by government agencies to inform multi-million dollar river and riparian management decisions. In addition to receiving funding from the sLTER program, BEMP is funded by federal and state sources as well as private foundations.

Schoolyard LTER funding was used to pay for bus money to transport K-12 classes to different field sites. Students are brought to different BEMP sites from six New Mexico counties (Rio Arriba, Sandoval, Bernalillo, Valencia, Socorro, and McKinley). Students from over 40 schools come to field sites to collect scientific data and learn about ecological research. BEMP staff also conduct classroom outreach to lay the foundation for the field work and to involve the students in lab work and graphing of data. Of the students involved with BEMP, almost 600 came to the BEMP Student Congress at the end of the year to learn more about the program and the ecosystem, and to gain experience in making presentations to their peers on what they have done and/or learned during their involvement with the program. Four high school and college interns were employed over the summer to gain experience in field research. New classroom and field activities were introduced this year to address watershed health and river water quality. Finally, guest lecturers were brought in to talk to the 408/508 BEMP biology class at the University of New Mexico about water issues of the Middle Rio Grande and impacts of climate change.

**Sevilleta REU Program.** We just completed the fourth year of our LTER REU Sites Program. In 2011 we supported 11 natural sciences students (ecology and earth sciences) and two fine arts students. Once again we emphasized minority student participation. Presentations at our REU annual symposium are shown below:
Stephanie Chen, University of Michigan, “Reintroduction and Water Stress on the Colony Activity Budget of Gunnison’s Prairie Dog” (Mentor: Wolf Graduate student Chuck Hayes)

Heather Tran, University of Tennessee, “Resilience of Larrea tridentata to extreme cold across a shrub-grassland ecotone” (Mentor: Collins Graduate student Laura Ladwig)

Laura Nicole Fronabarger, University of Tennessee-Martin, “Plant Macrofossils of Packrat (Neotoma) Middens Found in Titus Canyon (Death Valley, California) and Their Implications of Floral Shift Over Time and Elevation Due to Climate Change in the Late Quaternary” (Mentor: Professor Felisa Smith)

Jaclyn Andberg & Niles Brinton, San Francisco State University & Clemson University, “A Survey of Population Size and Parasitism of Gray Vieros in the Los Pinos Mountains” (Mentor: Sevilleta Wildlife Refuge Director Kathy Granillo)

Heather Causey, Front Range Community College Larimer Fort Collins, “Comparing Arthropod Community Diversity Within Natural and Invasive Riparian Habitats” (Mentor: Dr. Tom Kennedy)

Deleesa Cole, Wilberforce University, “The Rate and the Effects of Decomposition of Cottonwood and Tamarisk on Freshwater Macro invertebrates in the Rio Grande” (Mentor: Postdoctoral Researcher Dr. Ayesha Burdett)

Alan Barraza, University of Texas- El Paso, "Soils, Landforms, and Abiotic Factors in the Sevilleta National Wildlife Refuge - Eastern Los Pinos Mountains" (Mentor: Professor Les McFadden)

Jason Lopez, University of Texas- El Paso, “Dendroecology of Piñon Trees At the Los Pinos Mountains at the Sevilleta National Wildlife Refuge” (Mentor: Dr. Esteban H. Muldavin)

Harriet Brown & Peaton Phaup, University of Missouri- Columbia & Texas A&M University Kingsville, “The Impact of Permanent and Ephemeral Water Sources on Plant and Animal Population Dynamics” (Mentor: Dr. Amaris Swann)

Kimberly Elsenbroek, Southern Illinois University- Carbondale, “Differential analysis of active mychorrizae present among living and deceased Piñon (Piñus edulis) and Juniper (Juniperus monosperma) trees in the Los Piños Mountains New Mexico” (Mentor: Professor Robert Sinsabaugh)

Emily Boone, Missouri State University, “Art and ecology through the means of photography” (Mentor: Assistant Professor Catherine Harris)

Mathias Hughey, University of Wisconsin Eau Claire, “Creative Investigations into the Function and Visual Understanding of the Wind” (Mentor: Assistant Professor Catherine Harris)
Together these activities illustrate how the Sevilleta LTER and its scientists are committed to (1) conducting cutting edge research, (2) achieving the goals of the LTER Network, (3) expanding the spatial, temporal and conceptual bases of our research through the addition of new participants, and (4) furthering our education, outreach and training efforts at K-12, undergraduate, graduate, postgraduate, and informal levels.

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Findings

As noted above, our research program is based on the concept of pulse dynamics in which pulses of rainfall, primarily at the event scale, stimulate biological processes from microbial metabolism through plant production and consumer population dynamics. The main components of our research are climate drivers, water in the environment, biogeochemistry and soils, producer dynamics, and consumer dynamics. In addition to some of the results presented under “Activities”, below we present highlights of some of the key results from Sevilleta research produced or published in late 2010 through August 2011.

General synthesis publications.

The US LTER Network embarked on an ambitious planning process from 2004 through 2007. One outcome of that process was the desire to develop a large-scale, cross-site, long-term social-ecological research program built around a common conceptual framework that would facilitate cross-site comparisons. This framework was recently published in Frontiers in Ecology and the Environment (Collins et al. 2011) as a general hypothesis driven framework for social-ecological research. As in many S-E research themes, ecosystem services provide a common bridge between the ecological and social sciences. This model differs in having a set of general hypotheses that can be operationalized at multiple scales and across sites, and in linking the social sciences with the ecological sciences through changes in press and pulse drivers of ecosystems. This model is being applied and tested within the US LTER Network as well as among sites in the European LTER.

Andrea Porras-Alfaro and colleague Paul Bayman published a review article on fungal endophytes in the “plant microbiome” in the 2011 volume of the Annual Review of Plant Pathology. Endophytes are microorganisms that live within plant tissues but are not considered to be disease related. Fungal endophytes affect growth, alter plant responses to the environment, produce secondary metabolites, etc., yet detailed understanding of the role of most endophytes is lacking. The review by Porras-Alfaro and Bayman contains many examples derived from Sevilleta research.

The multi-national NutNet program is starting to produce some interesting results and Sevilleta LTER is pleased to serve as one of the more arid sites in this network. Using just control plot data from >50 sites globally, Firn et al. (2011 Ecology Letters) conducted an analysis of the relative abundance of invasive plant species in their native habitats and in sites were they are
non-native. They found a general positive correlation in that species that were abundant “at home” were typically abundant “away” and vice versa. The results have significant implications for assessing the potential of alien species to become invasive and potentially of economic concern.

A second NutNet publication (Adler et al. 2011 Science) analyzed in detail the productivity diversity relationship. Theory holds that diversity first increases and then decreases along a gradient of increasing productivity. Support for this model is equivocal, but it is still held as a fundamental theory in plant community ecology. Based on a multiscale analysis of control plots across the NutNet sites, Adler et al. (2011) find no evidence for a hump-shaped species richness-productivity relationship at any spatial scale. They recommend that ecologists address new mechanisms and relationships to link species richness and productivity in plant communities.

General research publications. We organize our Sevilleta core research in three general integrated research areas: Abiotic drivers, Ecosystem processes, and Biotic responses.

Abiotic drivers. In a data and modeling paper, Mike Notaro, a research scientist at the University of Wisconsin, in collaboration with Dave Gutzler and Scott Collins, used satellite imagery, climate data, field observations and a vegetation model to analyze the pattern of green up over the growing season in southwestern US ecosystems and proposed a mechanism for the bimodal pattern that occurs in our region (Notaro et al. 2010 Journal of Geophysical Research). They found that peak vegetation greenness occurs in a clockwise pattern across the Southwest, beginning in spring in the Sonoran Desert following winter rains, then in Utah-Colorado with snowmelt/summer rains, and finally in New Mexico–eastern Arizona with late summer monsoon rains. Bimodal seasonal patterns result from soil moisture that accumulates during synoptic winter storms, a dry period in late spring where soil moisture is depleted, which is followed by green-up in response to summer monsoon storms. This pattern supports the conceptual model in Muldavin et al. (2008 Oecologia) in which winter rains are not associated with the pulse-reserve paradigm, whereas growth during the monsoon is pulse driven.

D’Odorico et al. (2010 Ecosphere) analyzed long-term temperature data from Socorro and Belen, as well as local temperature measurements at the Sevilleta from grass- and shrub-dominated areas and the transition zone. They reported that nighttime low temperatures during winter months were approximately 2°C warmer in shrub-dominated areas than in adjacent grassland. The implication is that shrub encroachment by creosotebush results in a warmer local climate, which creates a positive feedback that enhances survival of creosotebush seedlings and further facilitates creosote invasion. In a related study, He et al. (2010 Journal of Geophysical Research) used tower measurements of energy balance in grassland, transition zone and shrub-dominated areas at the Sevilleta to determine the mechanism by which shrubland is warmer than grassland at night during the winter. As shrubs invade and replace C4 grasses, vegetation cover decreases from about 60% to as low as 25%. This larger area of exposed soil absorbs more heat during the day, which is then released at night creating a warmer microclimate particularly during calm nights during the winter.
Former Sevilleta PhD student Laura Turnbull examined the changes in ecosystem structure that occur as creosotebush invades native C4 desert grassland at the Sevilleta (Turnbull et al. 2010 Ecosystems). They reported that vegetation cover decreases over the shrub-encroachment gradient, but vegetation-patch size increases, with a concurrent increase in the spatial heterogeneity of soil properties. It is this decline in vegetation cover and the increasing connectivity of interpatch areas that governs ecosystem processes and leads to stable shrub-dominated areas that resist invasion by grasses.
Ecosystem processes. Bob Sinsabaugh (2010 Soil Biology and Biochemistry), reviewed the key role of two common but understudied extracellular enzymes, phenol oxidase and peroxidase, that degrade more recalcitrant carbon compounds and, in concert with other factors (pH, temperature, precipitation) profoundly affect the potential for soil organic matter accumulation. Levels of these enzymes are particularly high in Sevilleta soils, and more generally in aridland ecosystems. The enzyme activities are positively correlated with soil pH, and unlike in mesic systems N addition has little effect on their activities, results that may not be evident from laboratory studies of enzyme activities.

In a related paper, Sinsabaugh and Follstad Shah (2011 Biogeochemistry) further link threshold elemental stoichiometry ratios (e.g., C:N and C:P) to activities of extracellular enzymes including BG (sugars), AP (phosphates), NAG and LAP (proteins), and POX (phenol oxidase). They normalized BG, AP and (NAG + LAP) activities to POX activity and proposed that these scaling relationships suggest that highly recalcitrant organic matter effectively reverses the growth rate hypothesis of stoichiometric theory by decreasing carbon and nutrient availability and slowing growth, which increases the threshold elemental ratio of N:P. They then present a conceptual framework for decomposition models that can integrate the stoichiometry of ecoenzymatic activities into general theories of ecology.

Biotic responses. Furthering our research efforts in microbial ecology, Zeglin et al. (2011 Microbial Ecology) describe a comparative study of soil bacteria communities in the margins of a warm desert stream in New Mexico and a cold desert stream in Antarctica. These bacterial communities drive much of the biogeochemical processing in these habitats and effectively couple stream and adjacent riparian areas. Stream margins vary in moisture with distance from the stream. Zeglin et al. report that bacterial diversity was similar between sites and in both cases, bacterial diversity was correlated with soil conductivity, not temperature or moisture. Relatively distinct communities of bacteria occurred in wet compared to dry microhabitats.

Herrera et al. (2011 Ecosphere) reported on the effects of altered precipitation regimes on root associated fungi in...
Sporobolus cryptandrus, a common grass at the Sevilleta. Working primarily in the monsoon rainfall manipulation experiment, Herrera et al. report that increased rainfall leads to higher root colonization rates and more similar root associated fungal communities among samples. This occurred regardless of rainfall event size (weekly small events vs. monthly large events). Samples were dominated by ascomycetes, in particular Paraphaeosphaeria spp. and the prevalence of dark septate fungi generally increased from July to August sample periods.

Moving aboveground, Thomey et al. (2011 Global Change Biology) presented results on the first two years of the monsoon rainfall manipulation experiment (MRME). MRME was established to increase rainfall variability during the summer monsoon in an effort to test the “bucket model” which states that increased precipitation variability will positively impact production in arid ecosystems. The results confirm this model prediction. A small number of larger storm events (3 x 20 mm) increased mean soil water content over the monsoon season relative to a larger number of small events (12 x 5 mm). Increased available soil moisture led to reduced water stress, higher photosynthetic rates and increased overall seasonal ANPP of black grama. Although this pattern was consistent in both years, the degree of response varied across years as a function of total monsoon precipitation. Thus, Thomey et al. developed a revised bucket model in which the degree of variation needed to enhance production is inversely proportional to total seasonal precipitation.

Shim et al. (2011 Global Change Biology) report on a five-year study of soil respiration in a piñon-juniper woodland near Los Alamos, NM. By analyzing carbon isotopic signatures of respired CO2, they determined that mean growing season soil respiration was relatively consistent over time. However, using isotopic signatures, they determined that pre-monsoon respiration was primarily derived from autotrophic respiration from deeper roots that have access to deeper soil moisture. Once the monsoon season started, respiration was less coupled to stomatal conductance and vapor pressure deficit because typical monsoon rainfall events wet shallow soil layers thus increasing heterotrophic respiration near the soil surface relative to autotrophic sources deeper in the soil.

Former Sevilleta graduate student Andrew Edelman reported in the journal Ethology (2011) that K-rats frequently alter burrow architecture in response to seasonal changes in environment. During the summer, mounds have many entrances to regulate temperature and humidity, which prevents spoilage of seed caches, and to provide additional escape routes from predators. As temperatures cool and precipitation declines during
autumn burrows may have 50% fewer openings compared to summer. Fewer openings may help to trap heat and keep burrows warmer in winter. Andrew also examined how body mass and condition affected timing of natal dispersal in male and female banner-tailed kangaroo rats (*Dipodomys spectabilis*), a species that lacks sex-biased dispersal (2011 Behavioral Ecology). Using resource supplements, Edelman found that male and female offspring matured faster than offspring without supplemental food. He also found that males that matured faster dispersed sooner, but this was not the case for females. These results imply that by allowing sons to remain at the natal territory until a body size threshold is attained, mothers likely increase the fitness of their sons. Female reproductive success is influenced more by securing resources than by body size. Thus, dispersing as early as developmentally feasible allows daughters to secure an existing burrow system and maximize the time available for caching food prior to their first breeding attempt.

Finally, Sevilleta researchers are involved in two cross-site activities summarized here. First, Hall et al. (2011 Ecological Applications) conducted a long-term N and P enrichment study in sites located west, within and east of the Phoenix metropolitan area. This paper is built around the Threshold-Delay Nutrient Dynamics model (Collins et al. 2008) of aridland ecosystems. Inorganic N additions augmented net potential nitrification in soils highlighting the important role of nitrifying microorganisms in desert soils. Winter annuals responded to nutrient additions, exhibiting a climate-driven response to resource limitation, from little to no production in seasons of low rainfall, to moderate N limitation with average precipitation, to limitation by both N and P in a season of above-normal rainfall. In contrast, despite large experimental additions of N and P over four years, growth of *Larrea tridentata*, the dominant shrub of the Sonoran Desert, was unresponsive to nutrient enrichment, even during wet years.

In a second cross-site effort, York et al. (2011 Urban Ecosystems) analyzed land fragmentation trends for five LTER-related cities, including Albuquerque and counties south to Socorro along the Rio Grande. Two trends were common among cities, expansion of urban areas leading to fragmentation in the exurban and peri-urban regions, and decreased fragmentation associated with infill in the previously developed urban areas. Five basic drivers—water provisioning, population dynamics, transportation, topography, and institutions—shape land use decision-making and fragmentation in these rapidly growing southwestern cities.

**Information management**

The US LTER Network has established a 30+ year record of research as well as helped to foster a global network of long-term research sites. Michener et al. (2011 Ecoinformatics) provide a detailed overview of how policies and governance affected the evolution of LTER information management systems. They also described the human capital needed to perform site- and network-level IM activities, and they discuss the various IM functions supported at LTER sites (data acquisition, metadata annotation, incorporation into databases, data exploration/analysis/visualization, data curation/preservation). They also take a look at the more recent evolution of network-level services within LTER,
Fig. 4  PD (patches per hectare), ED (edges per hectare) and SHDI at landscape-level along transect for the 5 sites in 1992 and 2001. Dashed lines indicate the location of the center of the city or cities along the transect especially the Network Information System (NIS) currently under development. Finally,
they anticipate the factors that will guide the continuing evolution of LTER information management during the upcoming decade. Overall, this paper provides a nice general summary of how information management has become an indispensable component of LTER research.

**Literature cited**


APPENDIX J

LTER NETWORK OFFICE
ANNUAL REPORT,
2010-11
Introduction

The Long Term Ecological Research (LTER) Network Office (LNO), located at The University of New Mexico, provides services to support the research and education goals of the LTER Network. The Network comprises 26 of the most intensively-studied ecosystems in the world. Over the last 30 years, the National Science Foundation has sponsored research on long-term ecological processes that determine the dynamics of these critical ecosystems. Sites in the LTER Network include deserts, grasslands, row crop agriculture, cities, forests, wetlands, tundra, lakes, coral reefs, and open ocean. The purpose of studying these ecosystems is to provide the scientific community, policy makers, and society with the knowledge and predictive understanding necessary to conserve, protect, and manage the nation's critical ecosystems, their biodiversity, and the services they provide.

The National Science Foundation (NSF) funds core operations of the Long Term Ecological Research (LTER) Network Office through two cooperative agreements with The University of New Mexico. Under these agreements, the LTER Network Office conducts activities under four thematic areas: Synthesis Support, Cyberinfrastructure, Core Services, and Development/Outreach.

In 2010–2011, the Network produced a detailed strategic vision for LTER research, education, communication, information management, and coordination with other networks (LTER 2011) that includes substantial new levels of synthesis and transdisciplinary research. The LNO worked to achieve the strategic and implementation goals described in this document by carrying out activities described in the LNO Operational Plan (LNO 2010), which was prepared as part of Cooperative Agreement DEB-0936498. Funds from the American Recovery and Reinvestment Act (ARRA) allowed the LNO to hire new positions and retain existing positions to provide increased capabilities to achieve the goals of the LTER vision.

For more information, please visit http://lno.lternet.edu/.
APPENDIX K

FACULTY SCHOLARLY & PROFESSIONAL ACTIVITIES,

CY 2010
UNM DEPARTMENT OF BIOLOGY
FACULTY SCHOLARLY ACTIVITIES & PUBLICATIONS
CY 2010

I. TEACHING.

A. Graduate Education.

1. Masters degrees awarded.

   a. List master's degrees awarded; include student's name, title of thesis or dissertation, semester awarded.

   HANSON, D.T.

   LITVAK, M.E.
   Daniel Brese, M.S. Plan II, Fall 2010.

   NELSON, M.A.
   Elizabeth Carles, "NFkappaB Translocation in Response to Different LPS Chemotypes in Murine Macrophages," Summer 2010.

   POCKMAN, W.T.
   Jessica Snider, "Comparison of Microbial Communities on Roots, Ceilings and Floors of Two Lava Tube Caves in New Mexico," defended July 2, 2010, awarded Summer 2010.

   SINSABAUGH, R.L.

   WEARING, H.J.


   WOLF, B.O.
   Casey A. Gilman, "Respiratory Physiology During Gravidity in Crotaphytus collaris and Gambelia wislizenii," Spring.

K-1
b. For each of your M.S. students (current and past), indicate the number of primary and the total number of middle-author papers based on work done in our graduate program that were published in the last year. We define “primary” as either first-author or senior author.

BROWN, J.H.
Three primary author, one middle-author papers.

HANSON, D.T.
One primary-author paper.

LITVAK, M.E.
One middle-author paper.

LOWREY, T.K.
Two primary-author papers.

MARSHALL, D.L.
Two middle-author papers.

MILLER, R.D.
One primary author papers.

SINSABAUGH, R.L.
One middle-author papers.

SNELL, H.L.
Two primary-author and two middle-author papers.

WEARING, H.J.
One primary-author paper.

WITT, C.C.
One primary-author paper, one middle-author paper.

2. Doctors degrees awarded.

a. List doctoral degrees awarded; include student’s name, title of thesis or dissertation, semester awarded.

DAHM, C.N.
KODRIC-BROWN, A.
Julie Lincoln McIntyre, “Habitat Features, Mammal Interactions, and Recovery Approaches Important to a Rare, New Mexican Butterfly,” Spring 2010.

Andrew Jacob Edelman, “Variation in Delayed Dispersal and Burrow Architecture of Banner-tailed Kangaroo Rats,” Summer 2010.

NATVIG, D.O.
Annette Evangelisti, “Always Read the Introduction: Integrating Regulatory and Coding Sequence Evolution in Yeast?”, Summer.

NELSON, M.A.

SNELL, H.L.


WERNER-WASHBURN, M.

b. For any of your Ph.D. students (current and past), indicate the number of primary and the total number of middle-author papers based on work done in our graduate program that were published in the last year. We define “primary” as either first-author or senior author.

BROWN, J.H.
Nine primary author, three middle-author papers.

COOK, J.A.
One primary author, two middle-author papers.

DAHM, C.N.
One primary-author paper and one secondary-author paper.

HANSON, D.T.
One primary-author paper.

KODRIC-BROWN, A.
One primary author paper.
LITVAK, M.E.
One submitted and awarded.

LOWREY, T.K.
One.

MARCUS, D.L.
Four middle-author papers.

MILLER, K.B.
One primary-author and four middle-author papers.

MILLER, R.D.
One primary author, one middle-author papers.

NELSON, M.A.
One primary, one middle-author papers.

POCKMAN, W.T.
Two primary, one middle author papers.

SINSABAUGH, R.L.
One primary author, five middle-authors papers.

SMITH, F.A.
One primary-author paper.

SNELL, H.L.
Eight primary-author and three middle-author papers.

TAKACS-VEBACH, C.D.
One primary-author paper, one middle-author paper.

THORNHILL, R.
Four primary, four middle authors papers.

TURNER, T.F.
Two middle-author papers.

WERNER-WASHBURNE, M.
Four middle-authors papers.
WITT, C.C.
Two middle-author papers.

WOLF, B.O.
Four primary author papers.

c. For each of your current Ph.D. students, indicate the number of grants for which they applied, and list the number of grants awarded. Please limit your responses in this category to granting agencies outside of UNM.

BROWN, J.H.
One awarded.

COLLINS, S.I.
Four applied for, one awarded.

COOK, J.A.
Thirteen applied for, eight granted.

KODRIC-BROWN, A.
One awarded.

MILLER, K.B.
Five applied for and awarded.

SMITH, E.A.
Four applied for, two awarded.

SNEILL, H.L.
Five applied for, three awarded.

TURNER, T.F.
One applied for and pending, one awarded.

WITT, C.C.
Nine applied for, five awarded.

3. Bona fide graduate courses and number of students enrolled. Indicate new courses (for you) with an asterisk.

ADEMA, C.M.
Fall: *Biol. 500, New Graduate Student Seminar, 24 students (co-taught with H.J. Wearing)*
BROWN, J.H.

Spring:  
  Biol. 502, PIBBS: Structure and Dynamic Network, 3 students  
  Biol. 502, CIT: Complex Networks, 1 student  
  Biol. 503, Seminar: Interdisciplinary Biology and Biomedical Science (SIBBS), 9 students (co-taught with F.A. Smith)

Fall:  
  Biol. 502, Post-doc Career Management, 3 students (co-taught with F.A. Smith)  
  Biol. 520, Topic: Interdisciplinary Biology and Biomedical Science (TIBBS), 7 students (co-taught with F.A. Smith)  
  Biol. 651, Advanced Field Biology, 1 student

COLLINS, S.L.

Spring: taught at Arizona State University, Tempe AZ, per agreement.  
Fall: Sabbatical leave.

COOK, J.A.

Spring:  
  Biol. 502, Topic: Coalescent, 2 students  
  Biol. 502, Topic: Coalescent II, 16 students  
  Biol. 561, Introduction to Tropical Biology, 1 student

Fall:  
  Biol. 502, Topic: Advanced Field Mammalogy, 1 student  
  Biol. 502, Topic: Spatial Genetics, 2 students  
  Biol. 502, Topic: Integrated Inventories, 8 students  
  Biol. 551, Research Problems, 1 student  
  Biol. 699, Dissertation, 6 students

CRIPPS, R.M.

Spring:  
  Biol. 502, Topic: Fly Development, 1 student

Fall:  
  Biol. 502, Topic: Fly Development, 2 students

DAHM, C.N.

Fall:  
  Biol./EPS 535, Freshwater Ecosystems, 12 students

HANSON, D.T.

Spring:  
  Biol. 502, Topic: Plant Metabolism, 2 students  
  Biol. 578, Plant Physiology, 1 student

HOFKIN, B.V.

Fall:  
  Biol. 556, Immunology, 5 students

HOWE, K.A.

Fall:  
  Biol. 597, Principles of Gene Expression, 4 students

KATJU, V.

Spring:  
  Biol. 502, Topic: Evolution, Genetics and Genomics, 2 students

K-6
Bio. 517, Basic Graduate Evolution, 15 students (co-taught with E.L. Charnov, A. Kodric-Brown, and C. Witt)

Fall:  Biol. 402, Topic: Evolution, Genetics and Genomics, 5 students

KODRIC-BROWN, A.

Spring:  Biol. 502, Topic: Problems in Behavioral Ecology, 3 students
        Biol. 517, Basic Graduate Evolution, 15 students (co-taught with E.L. Charnov, V. Katju, and C. Witt)

Fall:  Biol. 502, Topic: Ecology Seminar, 8 students
       Biol. 502, Topic: Molecular Seminar, 2 students
       Biol. 502, Topic: Behavioral Problems, 2 students

LITVAK, M.E.

Fall:  Biol. 502, Topic: Global Change Biology, 9 students

LOKER, E.S.

Spring:  Biol. 502, Topic: Parasites and Hosts, 1 student
        Biol. 502, Topic: Evolutionary Immunology, 2 students (co-taught with R.D. Miller)
        Biol. 551, Research Problems, 2 students

Fall:  Biol. 502, Topic: Parasites and Hosts, 1 student
       Biol. 519, Topic: Biology of Disease Vectors, 8 students
       Biol. 551, Research Problems, 2 students

MILLER, K.B.

Spring:  Biol. 502, Topic: Entomology, 2 students

Fall:  Biol. 502, Topic: Entomology, 1 student

MILLER, R.D.

Spring:  Biol. 502, Topic: Evolutionary Immunology, 2 students (co-taught with E.S. Loker)

Fall:  Sabbatical leave.

NATVIG, D.O.

Fall:  Biol. 546, Lab Methods in Molecular Biology, 2 students

NELSON, M.A.

Spring:  Biol. 425, Molecular Genetics, 3 students
        Biol. 599, Masters Thesis, 1 student
        Biol. 699, Dissertation, 1 student

Fall:  Biol. 428, Human Heredity, 3 students

POCKMAN, W.T.

Teaching release as Associate Chair, Department of Biology, UNM, Spring and Fall 2010.
POE, S.
Spring:  Biol. 536, Phylogenetics, 20 students

SINSABAUGH, R.L.
Fall:  Biol 502, Topic: Soil Ecology, 6 students

SMITH, F.A.
Spring:  Biol. 502, Topic: Paleocoeology, 3 students
Biol. 503, Seminar: Interdisciplinary Biology and Biomedical Science (SiBBs), 9 Biology students (co-taught with J.H. Brown) (cross-listed in five departments, total 15 grad students, more attended)
Fall:  Biol. 502, Post-doc Career Management, 3 students (co-taught with J.H. Brown)
Biol. 502, Paleocoeology-Macroecology, 5 students
Biol. 516, Basic Graduate Ecology, 18 students (co-taught with J.H. Brown and B.O. Wolf)
Biol. 520, Topics in Interdisciplinary Biology and Biomedical Science (TiBBs), 7 students (co-taught with J.H. Brown) (taught: "Biota and Climate") (cross-listed in five departments, total 15 grad students, more attended)

SNELL, H.L.
Spring:  On sabbatical leave
Biol. 551, Research Problems, 2 students
Biol. 599, Masters Thesis, 2 students
Biol. 699, Dissertation, 2 students
Summer:  Biol. 551, Research Problems, 1 student
Biol. 699, Dissertation, 1 student
Fall:  Biol. 551, Research Problems, 2 students
Biol. 599, Masters Thesis, 1 student
Biol. 699, Dissertation, 2 students

TAKACS-VESBACH, C.D.
Spring:  Biol. 502, Current Literature in Microbiology, 1 student
Fall:  Biol. 451, Microbial Ecology, 1 student

THORNHILL, R.
Spring:  Biol. 502, Ecology and Evolution Biodiversity, 2 students

TOOLSON, E.C.
Spring:  Biol. 502, Intermediate Mathematical Biology, 3 students
Biol. 545, Biology of Toxins, 5 students
Fall:  Biol. 592, Introductory Mathematical Biology, 4 students

TURNER, T.F.
Spring:  Biol. 502, Topic: Evolution and Ecology of Fish, 5 students

K-8
Biol. 551, Research Problems, 2 students
Biol. 599, Masters Thesis, 1 student
Biol. 651, Advanced Field Biology, 1 student
Fall:  
Biol. 551, Research Problems, 4 students
Biol. 599, Masters Thesis, 1 student
Biol. 651, Advanced Field Biology, 1 student

WEARING, H.J.

Spring:  
Fall:  
Biol. 500, New Graduate Seminar, 24 students (co-taught with C. Adema)

WERNER-WASHBURN, M.

Spring:  
Sabbatical leave
Biol. 502, Topic: Biomedical Research, 4 students
Fall:  
Biol. 502, Topic: Biomedical Research, 3 students
Biol. 502, Topic: Frontiers in Genomics, 10 students
Biol. 544, Genomic Analysis, 10 students

WITT, C.C.

Spring:  
Biol. 502, Topic: Molecular Systematic Discussion, 1 student
Biol. 502, Topic: Avian Scientific Specimen Preparation, 1 student
Biol. 517, Basic Graduate Evolution, 15 students (co-taught with E.L. Charnov, V. Katju and A. Kodric-Brown)
Fall:  
Biol. 502, Topic: Molecular Systematic Discussion, 5 students
Biol. 551, Graduate Research Problems, 4 students

WOLF, B.O.

Fall:  
Biol. 502, Topic: Animal Physiological Ecology, 1 student
Biol. 516, Basic Graduate Ecology, 18 students (co-taught with J.H. Brown and F. Smith)

4. Your service on graduate student committees, not as chair, in semester oral exam was given.

BROWN, J.H.

Hari Nam Simran K. Khalsa, Fall 2010
Brand R. Phillips, Fall 2010
Andrew Edelman, Spring 2010
Casey Gilman, Spring 2010

COLLINS, S.L.

Three.
DAHM, C.N.

Jessica Ruth Snider, M.S. student, Department of Biology, UNM, July 2, 2010.
Jesus D. Gomez, Ph.D. student, Hydrology, New Mexico Tech, November 22, 2010.

LITVAK, M.E.
Sarah Keller, Fall 2010
Hari Nam Simran, Spring 2010

LOKER, E.S.
Xinxin Wang, Spring

MILLER, R.D.

NELSON, M.A.

POCKMAN, W.T.
Michell Thomey, Ph.D., Collins, qualifying exam October 22, 2010.
Susan Mirabal, M.S. Hanson, defended October 29, 2010.

SINSABAUGH, R.I.
Michell Thomey, Ph.D. student (S.L. Collins, advisor)

TAKACS-VESBACH, C.D.
Linnae Ista, May 14, 2010
Dave Van Horn, Defense, May 2010

TURNER, T.F.
Jason Malaney (J.A. Cook), first and second exam

WEARING, H.J.
Aaron Mora (Applied Math), Spring
Flor Espinoza (Applied Math), Fall

WITT, C.C.
Yadeeh Sawyer (J.A. Cook), Ph.D. Student, Oral Exam
Stacey Scholes (H. Wearing), M.S. Student, Thesis Defense
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.**

**JOSEPH R. BURGER:**
American Society of Mammalogist Student Travel Award


WILLIAM R. BURNSIDE:


JORDAN OKIE:


WENYUN ZUO:


COLLINS, S.L.
SALLY KOERNER: Sigma Xi Outstanding Graduate Student Award

COOK, J.A.
BRITTANY BARKER: A publication in Evolution.
JOLENE REARICK: A three-year National Science Foundation Doctoral Fellowship.

CRIPPS, R.M.

ELISA LABEAU:

DAHM, C.N.

ANNA HAMILTON:
Passed her doctoral comprehensive exam on August 20, 2010.

HANSON, D.T.

SUSAN MIRABAL: UNM GRAC travel grant

KODRIC-BROWN, A.

RHIANNON WEST:

ANDREW J. EDELMAN:

LITVAK, M.E.

DANIEL KROFCHECK:
NASA N.M. Space Grant Consortium, $10,000


MILLER, K.B.

GREY GUSTAFSON:
Traveled to and presented at 58th Annual Meeting of Entomological Society of America (San Diego, CA, December 12-15, 2010)

HEIDI HOPKINS:
- American Museum Theodore Roosevelt Memorial Award
- Academy of Natural Sciences, Philadelphia travel award
- Smithsonian Travel (Short-term Visitor) Award
- Traveled to and presented at 58th Annual Meeting of Entomological Society of America (San Diego, CA, December 12-15, 2010); runner-up, Best Student Poster Presentation.
NATHAN LORD:
- Visited the Muséum National d'Histoire Naturelle (Paris), the Natural History Museum (London), and the U.S. National Museum (Smithsonian Institution, Washington, DC) (twice, March and July) to conduct dissertation research.
- Traveled to New Zealand and Australia to collaborate with colleagues on several projects.
- Traveled to and presented at 58th Annual Meeting of Entomological Society of America (San Diego, CA, December 12-15, 2010).

EUGENIO NEARNS:
- Visited the Muséum National d'Histoire Naturelle (Paris), the Natural History Museum (London), the U.S. National Museum (Smithsonian Institution, Washington, DC) (twice, March and July), the Museu Nacional (Rio de Janeiro), and the Museu de Zoologia Universidade de São Paulo to conduct dissertation research.
- Traveled to and presented at 58th Annual Meeting of Entomological Society of America (San Diego, CA, December 12-15, 2010).

KAREN WETHERILL:
Traveled to and presented at 58th Annual Meeting of Entomological Society of America (San Diego, CA, December 12-15, 2010).

SINSABAUGH, R.L.

SARAH HICKS:
$2,000 travel award to participate in Ninth International Mycological Congress, Edinburgh, Scotland, August 1-6, 2010.

$500 travel grant to participate in Argonne Soil Genomics Workshop, Argonne National Laboratory, Chicago IL, October 2010.

SMITH, F.A.

MEGAN BALK:
Balk, M. 2010. Analytical Paleobiology Short Course, Melbourne, Australia; received a travel grant and was admitted to the program.

IAN MURRAY:


UNM Undergraduate Opportunities (UNO) mentor to Justin Pichardo.

UNM undergraduate mentor for Diego Duran.

**MELISSA PARDI:**


**SHAWN (FRED) WHITEMAN:**

Whiteman, S. 2010. The relation of ecology to morphological variation of molars in two woodrat species: *N. cimerea* and *N. lepida*. Travel grant, Fifth International Conference of the International Biogeography, $1,000.

**SNELL, H.L.**


THORNHILL, R.

CHRISTOPHER EPPIG:


KENNETH LETENDRE:


TURNER, T.F.

TYLER PILGER:

TREVOR KRABBENHOFT:

WAIDE, R.B.

BRITTANY S. BARKER:


K-16

Caughran Memorial Scholarship (Biology), $1,000

WEARING, H.J.

CHRISTIAN GUNNING (Biology):
Programs in Biomedical and Biological Sciences (PiBBS) Fellow


Poster presentation at 19th Annual Research Day, Department of Biology, UNM, April 2, 2010; awarded Second Best Graduate Student Poster.

WERNER-WASHBURN, M.

SUSHMITA ROY:
First author, Science paper from ModEncode.

WITT, C.C.

ELIZABETH BECKMAN:
Awarded a grant from Sigma Xi's Grants-in-Aid of Research, $1,000

One ornithological field expedition, totaling two months, to Peru.

PHRED BENHAM:
Awarded a grant from the Frank M. Chapman Memorial, and an honorable mention from the National Science Foundation's Graduate Research Fellowship Program.

Two ornithological field expeditions, totaling 2.5 months, to Peru.

SHANE DUBAY:
Awarded two grants (from the American Ornithologist's Union and the Frank M. Chapman Memorial), and an honorable mention from the National Science Foundation's Graduate Research Fellowship Program.

Two ornithological field expeditions, totaling three months, to Peru.

NATALIE WRIGHT:
Awarded a grant from the American Ornithologist's Union

Two ornithological field expeditions, totaling three months, to Peru.
B. Undergraduate Education.

1. *Bona fide* undergraduate courses taught each semester and the number of students enrolled. Indicate new course (for you) with an asterisk.

ADEMA, C.M.

Spring: Biol. 201, Molecular and Cell Biology, 357 students (two sections; co-taught with K.A. Howe)

BERGTHORSSON, U.

Fall: Biol. 202, Genetics, 233 students (two sections; co-taught with V. Katju)

BROWN, J.H.

Spring: Biol. 402, PIBBS: Structure and Dynamic Network, 1 student

COLLINS, S.I.

Spring: Arizona State University, Biol. 321, Field Ecology, 23 students

COOK, J.A.

Spring: Biol. 402, Topic: UnO (Undergraduate Opportunities), 11 students  
Biol. 461, Introduction to Tropical Biology, 13 students  
Fall: Biol. 402, Topic: Advanced Field Mammalogy, 1 student  
Biol. 402, Topic: UnO (Undergraduate Opportunities), 14 students  
Biol. 402, Topic: Integrated Inventories, 2 students  
Biol. 489, Mammalogy, 16 students

CRIPPS, R.M.

Spring: Biol. 202, Genetics, 87 students  
Biol. 402, Topic: Fly Development, 2 students

COUCH, L.

Spring: Biol. 239, Microbiology for Health Sciences and Non-majors, 148 (eight sections)  
Fall: Biol. 239, Microbiology for Health Sciences and Non-majors, 179 (eight sections)

COUNCIL-GARCIA, C.l.

I don't directly teach these courses, but I am the faculty member in charge of the labs and I instruct the TA's:

Spring: Biol. 112L, Biology Non-Majors Lab, three sections, 55 students  
Biol. 124L, Biology for Health-related Majors Lab, 16 sections, 363 students  
Biol. 201L, Cell Biology Discussion, 15 sections, 356 students  
Biol. 202L, Genetics Lab, 12 sections, 238 students  
Biol. 203L, Ecology and Evolution Lab, 10 sections, 177 students

K-18
Biol. 204L, Plant and Animal Form and Function Lab, 10 sections, 180 students

Summer:
Biol. 124L, Biology for Health-related Majors Lab, 3 sections, 51 students
Biol. 201L, Cell Biology Discussion, 3 sections, 45 students
Biol. 202L, Genetics Lab, 2 sections, 47 students

Fall:
Biol. 112L, Biology Non-Majors Lab, three sections, 54 students
Biol. 124L, Biology for Health-related Majors Lab, 16 sections, 357 students
Biol. 201L, Cell Biology Discussion, 16 sections, 371 students
Biol. 202L, Genetics Lab, 11 sections, 233 students
Biol. 203L, Ecology and Evolution Lab, 10 sections, 213 students
Biol. 204L, Plant and Animal Form and Function Lab, 10 sections, 171 students

CUNNINGHAM, C.

Spring: Biol. 456, Immunology, 113 students
Fall: Biol. 201, Molecular and Cellular Biology, 371 students (two sections; co-taught with B.V. Hofkin)

FARNSWORTH, P.A.

Spring: Biol. 110, Biology for Non-majors, 270 students (two sections)
Fall: Biol. 110, Biology for Non-majors, 240 students (two sections)

FRIDRICK, C.O.

Spring: Biol. 123, Biology for Non-majors and Health-related Sciences, 258 students (two sections)
Fall: Biol. 123, Biology for Non-majors and Health-related Sciences, 226 (three sections)

HANSON, D.T.

Spring: Biol. 478, Plant Physiology, 13 students
Fall: Biol. 204, Plant and Animal Form and Function, 172 students (two sections; co-taught with B.O. Wolf)

HOFKIN, B.V.

Spring: * Biol. 402, Topic: The Microbiology of History and the History of Microbiology, 3 students (Taught at the UNM Rome Study Center in Rome, Italy)
Fall: Biol. 201, Molecular and Cellular Biology, 371 students (two sections; co-taught with C. Cunningham)
Biol. 371, Invertebrate Biology, 11 students
Biol. 456, Immunology, 115 students
Biol. 499, Undergraduate Problems, 1 student

HOWE, K.A.

Spring: Biol. 123, Biology for Health-related Sciences, 131 students
Biol. 201, Molecular and Cell Biology, 357 students (two sections; co-taught with C. Adema)
Biol. 202, Genetics, 151 students
Summer: Biol. 201, 96 students (two sections)
Fall: Biol. 123, Biology for Health-related Sciences, 134 students
       Biol. 429, Molecular Cellular Biology I, 37 students
       Biol. 497, Principles of Gene Expression, 19 students

KATJU, V.
Spring: Biol. 402, Topic: Evolution, Genetics and Genomics, 3 students
Fall: Biol. 202, Genetics, 233 students (two sections; co-taught with U. Bergthorsson)
       Biol. 402, Topic: Evolution, Genetics and Genomics, 5 students

KODRIC-BROWN, A.
Spring: Biol. 402, Topic: Ecology Seminar, 3 students
       Biol. 402, Topic: Molecular Seminar, 3 students
       Biol. 455, Ethology: Animal Behavior, 52 students
Fall: Biol. 402, Topic: Ecology Seminar, 8 students
       Biol. 402, Topic: Molecular Seminar, 7 students

LITVAK, M.E.
Fall: Biol. 402, Topic: Global Change Biology, 11 students

LOKER, E.S.
Spring: Biol. 402, Topic: Evolutionary Immunology, 12 students (co-taught with R.D. Miller)
Fall: Biol. 419, Topic: Biology of Disease Vectors, 53 students

LOWREY, T.K.
Fall: Biol. 463, Flora of New Mexico, 13 students
       Biol. 499, Research Problems, 1 student
Summer: Biol. 499, Research Problems, 1 student

MARSHALL, D.L.
Spring: Biol. 204, Plant and Animal Form and Function, 180 students (two sections)
Fall: Biol. 360, General Botany, 22 students

MILLER, K.B.
Spring: Biol. 402, Topic: Entomology, 9 students
       Biol. 406, Topic: Discovering Arthropods, 24 students
Fall: Biol. 203, Ecology and Evolution, 213 students (two sections; co-taught with B.T. Milne)
       Biol. 402, Topic: Entomology, 5 students

K-20
MILLER, R.D.
Spring:   Biol. 402, Topic: Immunology Letters, 2 students
          Biol. 402, Topic: Evolutionary Immunology, 12 students (co-taught with E.S. Loker)
Fall:     Sabbatical Leave.

MILNE, B.T.
Fall:     Biol. 203, Ecology and Evolution, 213 students (two sections; co-taught with K.B. Miller)

NATVIG, D.O.
Fall:     Biol. 446, Lab Methods in Molecular Biology, 10 students

NELSON, M.A.
Spring:   Biol. 400, Senior Honors Thesis, 4 students
          Biol. 425, Molecular Genetics, 17 students
          Biol. 499, Undergraduate Problems, 6 students
Fall:     Biol. 400, Senior Honors Thesis, 3 students
          Biol. 402, Epidermal Growth Factor Receptor (EGFR) Pathway Analysis, 1 student
          Biol. 402, Topic: Undergraduate Research, 3 students
          Biol. 402, Topic: Inflammatory Breast Cancer, 1 student
          Biol. 428, Human Heredity, 44 students
          Biol. 499, Undergraduate Problems, 3 students

POCKMAN, W.T.
Teaching release as Associate Chair, Department of Biology, UNM, Spring and Fall 2010.

POE, S.
Spring:   Biol. 436, Phylogenetics, 7 students
Fall:     Biol. 386, General Vertebrate Zoology, 15 students

SHANER, M.G.M.
Spring:   Biol. 123, Biology for Health-related Sciences, 259 students (two sections)
Summer:  Biol. 123, Biology for Health-related Sciences, 90 students (two sections)
Fall:     Biol. 123, Biology for Health-related Sciences, 260 students (two sections)

SINSABAUGH, R.L.
Spring:   Biol. 203, Ecology and Evolution, 177 students (two sections; co-taught with R. Thornhill)
Fall:     Biol. 402, Topic: Soil Ecology, 1 student

SMITH, F.A.
Spring:   Biol. 402, Topic: Paleocology, 4 students
          Biol. 494, Biogeography, 30 students

K-21
Fall:  Biol. 402, Topic: Paleocology-Macroecology, 1 student

SNELL, H.L.

Spring:  On sabbatical
  Biol. 400, Senior Honors Thesis, 1 student
  Biol. 499, Undergraduate Problems, 3 students

Fall:  Biol. 379, Conservation Biology, 38 students
  Biol. 400, Senior Honors Thesis, 1 student
  Biol. 499, Undergraduate Problems, 1 student

STRICKER, S.A.

Spring:  Biol. 412, Developmental Biology, 82 students

SWAN, J.

Spring:  Biol. 237, Human Anatomy and Physiology I for Health Sciences, 337 students
  (two sections)
  Biol. 238, Human Anatomy and Physiology II for Health Sciences, 285 students
  (two sections)
  Biol. 402, Mentor in Anatomy, 1 student

Summer:  Biol. 237, Human Anatomy and Physiology I for Health Sciences, 112 students
  (two sections)
  Biol. 238, Human Anatomy and Physiology II for Health Sciences, 51 students

Fall:  Biol. 237, Human Anatomy and Physiology I for Health Sciences, 346 students
  (two sections)
  Biol. 238, Human Anatomy and Physiology II for Health Sciences, 270 students
  (two sections)

TAKACS-VESBACH, C.D.

Spring:  Biol. 351 (& 352L), General Microbiology, 105 students

Fall:  Biol. 451, Microbial Ecology, 23 students

THORNHILL, R.

Spring:  Biol. 203, Ecology and Evolution, 177 students
  (two sections; co-taught with R.L. Sinsabaugh)
  Biol. 402, Biol. 502, Ecology and Evolution Biodiversity, 16 students

Fall:  Biol. 365, Evolution of Human Sexuality, 90 students

TOOLSON, E.C.

Spring:  Biol. 402, Intermediate Mathematical Biology, 4 students
  Biol. 445, Biology of Toxins, 99 students

Fall:  Biol. 435, Animal Physiology, 13 students
  Biol. 492, Introductory Mathematical Biology, 6 students
  ARSC [Arts & Sciences] 613, Biology of Toxins (Freshman Learning Community [FLC] course), 22 students

K-22
TURNER, T.F.

Spring:
- Biol. 400, Senior Honors Thesis, 1 student
- Biol. 402, Topic: Evolution and Ecology of Fish, 10 students
- Biol. 499, Undergraduate Problems, 1 student

Summer:
- Biol. 499, Undergraduate Problems, 1 student

Fall:
- Biol. 499, Undergraduate Problems, 4 students

WEARING, H.J.

Spring:
- Math 181, Elements of Calculus II for the Life Sciences, 25 students
- Math 412, Nonlinear Dynamics and Chaos, 22 Students

Fall:
- Biol. 402, Topic: Math-Theory of Ecology, 1 student
- * Math 180, Elements of Calculus I for the Life Sciences, 29 students

WERNER-WASHBURNE, M.

Spring: Sabbatical leave

Fall:
- Biol. 402, Topic: Biomedical Research, 22 students

WITT, C.C.

Spring:
- Biol. 300, Evolution, 31 students
- Biol. 402, Topic: Avian Scientific Specimen Preparation, 5 students
- Biol. 402, Topic: Molecular Systematic Discussion, 3 students
- Biol. 499, Undergraduate Research Problems, 1 student

Fall:
- Biol. 402, Topic: Molecular Systematic Discussion, 3 students
- Biol. 499, Undergraduate Research Problems, 1 student

WOLF, B.O.

Fall:
- Biol. 204, Plant and Animal Form and Function, 172 students (two sections; co-taught with D.T. Hanson)
- Biol. 402, Topic: Animal Physiological Ecology, 1 student

2. Number of undergraduates who performed research under your supervision in the last year.

ADEMA, C.M.
One.

COLLINS, S.L.
Two.

CRIPPS, R.M.
Ten.

K-23
Cunningham, C.
One.

Hanson, D.T.
Eight.

Hofkin, B.V.
One.

Katju, V.
Six.

Kodric-Brown, A.
Five.

Litvak, M.E.
Six.

Lowrey, T.K.
One.

Marshall, D.L.
One.

Miller, K.B.
20.

Miller, R.D.
Spring: three.
Fall: one.

Nativig, D.O.
Two.

Nelson, M.A.
Four.

Sinsabaugh, R.L.
Four.

Smith, F.A.
Two.

K-24
SNELL, H.L.
43 (38 of these were basic research projects in my Biol. 379 (Conservation Biology) class, five were outside of that class).

STRICKER, S.A.
Two.

SWAN, J.
Two.

TAKACS-VESBACH, C.D.
Seven.

THORNHILL, R.
Five.

TURNER, T.F.
12.

WEARING, H.J.
Two.

WERNER-WASHBURN, M.
Thirty in Initiatives to Maximize Student Diversity (IMSD), five in my laboratory.

WITT, C.C.
Sixteen.

WOLF, B.O.
Two.

3. Number of undergraduates who attended local or national scientific conferences in the last year.

ADEMA, C.M.
One.

COLLINS, S.L.
One.

CRIpps, R.M.
Four.
CUNNINGHAM, C.
One.

HANSON, D.T.
Two.

HOFKIN, B.V.
One.

KATJU, V.
One.

LITVAK, M.E.
Three.

MILLER, K.B.
One.

NELSON, M.A.
Two.

SMITH, F.A.
Two.

SNELL, H.L.
Three.

STRICKER, S.A.
Two.

SWAN, J.
One.

TAKACS-VESBACH, C.D.
Four.

TURNER, T.F.
Eight.

WEARING, H.J.
Two.
20 from Initiatives to Maximize Student Diversity (IMSD), one to the Yeast Genetics and Molecular Biology meeting, several others to Keystone meetings and other national conferences.

WITT, C.C.
Four.

4. Number of undergraduates who received local or national awards (travel awards, scholarships, presentation awards).

ADEMA, C.M.
One.

COLLINS, S.L.
One (REU Sites Summer Fellowship).

CRIPPS, R.M.
One.

HOFKIN, B.V.
One (two awards).

HANSON, D.T.
Two.

KATJU, V.
Four awarded.

LITVAK, M.E.
Three.

MILLER, K.B.
One.

SINSABAUGH, R.L.
One.

SMITH, F.A.
One.

SNEILL, H.L.
One.
TURNER, T.F.
One.

WEARING, H.J.
Two.

WERNER-WASHBURN, M.
35.

WITT, C.C.
One.

5. Number of undergraduates graduating with Biology Honors based upon a project under your supervision.

CUNNINGHAM, C.
One.

HANSON, D.T.
One.

KATJU, V.
One.

MILLER, K.B.
Two.

MILLER, R.D.
One (Kevin Mitchell, *cum laude*)

NELSON, M.A.
Four.

SINSABAUGH, R.L.
One.

SMITH, F.A.
One (awarded *summa cum laude*).

SWAN, J.
One.
6. Number of undergraduates in your program who were co-authors on peer-reviewed papers in the last year.

CRIPPS, R.M.
One.

KATJU, V.
Two.

MILLER, K.B.
One.

NELSON, M.A.
Three.

SMITH, E.A.
One.

STRICKER, S.A.
Five on three papers.

SWAN, J.
One.

TAKACS-VESBACH, C.D.
One.

WERNER-WASHBURRE, M.
Seven.
C. Teaching Awards.

LITVAK, M.E.
Nominated for UNM Outstanding Teacher of the Year 2010.

POCKMAN, W.T.
Regents Lecturer, College of Arts and Sciences, UNM, Fall 2010–Spring 2013 (appointed)

TOOLSON
Nominated for UNM Presidential Teaching Fellow and that Outstanding Teacher Award. Did not apply for either.

TURNER, T.F.
Nominated for Outstanding Teacher of the Year, UNM
Nominated for 2010 Presidential Teaching Fellowship, UNM

D. Curriculum Development/Production of Teaching Materials.

COUCH, L.

COUNCIL-GARCIA, C.L.
Continuous curriculum development for all six core-course lab classes (Biol. 112L, 124L, 201L, 202L, 203L and 204L).

DAHM, C.N.
Developed curriculum for the modeling course offered as part of the Tri-State Experimental Program to Stimulate Competitive Research (EPSCoR) program at the University of Nevada–Reno and directed by Dr. Laurel Saito.

FARNSWORTH, P.A.
Created an entire online textbook for the class, including study materials, illustrations and animations and self assessment quizzes, which is hosted on WebCT free, so the students no longer need to buy a $150 textbook.

HANSON, D.T.
Developed WebCT weekly quizzes for Biol. 204, Plant and Animal Form and Function
HOFKIN, B.V.
Developed a new course, “The Microbiology of History and the History of Microbiology” (Biology 402), offered Spring 2010, at the UNM Rome Study Center in Rome Italy.

Developed Web-based teaching supplements (on-line videos, on-line quizzes) and an instructor’s test bank to accompany my text book, Living in a Microbial World, published April 2010 by Garland Science.

LOKER, E.S.
Developed several new lectures for the first half of Biol. 502, Evolutionary Immunology, Spring.

Wrote all new lectures for Biol. 419, Biology of Disease Vectors, Fall

SMITH, F.A.
Director, Program in Integrative Biology and Biomedical Sciences; in collaboration with faculty from other departments, continuing to develop and implement a series of courses and a unified curriculum that ultimately will lead to a cross-departmental Ph.D. concentration in Integrative Biology.

BioBlog: a new course and activity developed in Fall 2010 and now being implemented; in the future, it will be taught each semester. The BioBlog is a project involving undergraduates, graduates, postdocs and faculty in several departments. The goals are to provide undergraduate and graduate students the opportunity to develop and hone writing about science, to constructively critique the writing of others, and to publicize to a wider audience the interesting and topical research that goes on at UNM. Each student writes a short essay that is peer-reviewed the week before posting. Blogs take the form of an essay on a subject of interest, a succinct summary of exciting new research findings, or a personal experience of research and discovery. We blog on a weekly or more frequent basis, with the aim of communicating to others in the department, university and general public our passion and excitement about what we do here at UNM and about science in general. Along the way, we hope to become better ambassadors of science. There is a link to the BioBlog on home page of the Biology Dept.’s website (http://unmbioblog.blogspot.com/).

SWAN, J.
Development of lab materials for non-cadaver labs (Biol. 247 and 248).

TAKACS-VESBACH, C.D.
Revised curriculum and teaching materials for Biol 352L, General Microbiology.

TOOLSON, E.C.
Numerous lab protocols for both mathematical biology courses, plus Matlab coding of simulations for lecture.
WEARING, H.J.
Ecology instructor at Annual Ecology and Evolution of Infectious Disease Workshop (funded by National Science Foundation), Cornell University, Ithaca NY, June 6-9, 2010. Developed and taught a module on spectral analysis in R, assisted with R programming tutorial, and mentored projects.

WERNER-WASHBURNE, M.
Initiated set up of a “virtual circle”; completion is awaiting final NIH approval of the FlyBase MAP.

E. Museum Curator, Advisor, Assistant Chair, EM Director, etc.

BROWN, J.H.
Director, Post-baccalaureate Research and Education Program (PIBBS)

COLLINS, S.L.
Director, Sevilleta Long Term Ecological Research (LTER) Program

COOK, J.A.
Assistant Director, Museum of Southwestern Biology, 2007–present.
Curator, Division of Mammals, Museum of Southwestern Biology
Acting Curator, Division of Genomic Resources, Museum of Southwestern Biology

COUCH, L.
Coordinator/Advisor of Microbiology Facility, T.A.’s, and Microbiology Technician.

COUNCIL-GARCIA, C.L.
Undergraduate academic advisor

CRIPPS, R.M.
Department Chair

HANSON, D.T.
Associate Curator, UNM Herbarium, Museum of Southwestern Biology

HOFKIN, B.V.
Pre-Veterinary Advisor (Shannon McCoy-Hayes covered this duty for me while I was in Rome during the Spring 2010 semester.)

LOKER, E.S.
Curator, Division of Parasitology, Museum of Southwestern Biology
Director, Center for Evolutionary and Theoretical Immunology (CETI)
LOWREY, T.K.
Department Associate Chair
Curator, UNM Herbarium, Museum of SW Biology

MARSHALL, D.L.
Academic Advisor for the Initiatives to Maximize Student Diversity (IMSD) Program.

MILLER, K.B.
Curator, Division of Arthropods, Museum of Southwestern Biology
Faculty undergraduate advisor

MILLER, R.D.
Director, Molecular Biology Facility
Co-Director, Center for Evolutionary and Theoretical Immunology (CETI)

MILNE, B.T.
Director, Sustainability Studies Program

NATVIG, D.O.
Director, UNM Sevilleta Field Station, Socorro NM.

NELSON, M.A.
Program Director, Minority Access to Research Careers (MARC) (since June 2003)

POCKMAN, W.T.
Associate Chair, Biology, July 2009–present

SHANER, M.G.M.
Undergraduate academic advisor (weekly advising hours)

SMITH, F.A.
Director, Program in Integrative Biology and Biomedical Sciences (I work closely with ~15 graduate students from various departments on campus)

A faculty mentor in the UNO program (Undergraduate Opportunities)

SNELL, H.L.
Curator, Division of Amphibians and Reptiles, Museum of Southwestern Biology.
Advisor for the concentration in Conservation Biology, Department of Biology, UNM.

STRICKER, S.A.
Director, Microscopy Facility

K-33
TOOLSON, E.C.
Undergraduate Student Advisor

TURNER, T.F.
Director, Museum of Southwestern Biology
Curator, Division of Fishes, Museum of Southwestern Biology

WAIDE, R.B.
Executive Director, Long Term Ecological Research Network Office

WERNER-WASHBURN, M.
Initiatives to Maximize Student Diversity (IMSD) Program PI/Director.

WITT, C.C.
Curator, Division of Birds, Museum of Southwestern Biology (MSB).

E. **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.

ADEMA, C.M.

Devaraj Aran: volunteer project "Characterization of Mitochondrial Genome of *Echinostoma paraensei*," Spring.

COLLINS, S.L.
PI on an REU Sites award that supported 13 undergraduate students to conduct independent research at the Sevilleta Long Term Ecological Research (LTER) site (Socorro, NM), Summer 2011.

COOK, J.A.
All full year, except as noted (does not include Undergraduate Opportunities (UnO) students mentored elsewhere):
- Vani Aran, Biology Honor's Student (completed thesis) January–June
- Hiyati Bassett, National Science Foundation Undergraduate Opportunities (UnO) Program
- Kate Cauthen, National Science Foundation Undergraduate Opportunities (UnO) Program
- Audrey Chismar, volunteer
- Kyle Crossey, National Science Foundation Biological Research Collections (BRC) Program
- Andrea Jackson, National Science Foundation Undergraduate Opportunities (UnO) Program
- Joanna Johnson, National Science Foundation Undergraduate Opportunities (UnO) Program
- Aja King, volunteer
- Diego Matek, National Science Foundation Undergraduate Opportunities (UnO) Program
• Randle McCain, National Science Foundation Undergraduate Opportunities (UnO) Program
• Sonia Peterson, volunteer
• Meissa Picchione, Workstudy Student
• Jamie Raines, National Science Foundation Biological Research Collections (BRC) Program
• Jackson Sabol, National Science Foundation Undergraduate Opportunities (UnO) Program, September–December
• Ashley Smiley, National Science Foundation Undergraduate Opportunities (UnO) Program, January–September
• Kelly Speer, Regents' Scholar, National Science Foundation Undergraduate Opportunities (UnO) Program, Biology Honor's Student (completed thesis)
• Sophia Thompson, National Science Foundation Undergraduate Opportunities (UnO) Program
• Sienna Wright, Workstudy, and National Science Foundation Biological Research Collections (BRC) Program
• Sadie Yurista National Science Foundation Mongolia

CRIPPS, R.M.
• Wiley Barton, Summer and Fall 2010;
• Carmelita Jaramillo, MARC, 2010
• Melody Martinez, Initiatives to Maximize Student Diversity (IMSD) Program, 2010
• Alex Mason Initiatives to Maximize Student Diversity (IMSD) Program, 2010
• Ashley Montoya, 2010
• Faynessa Mott, Spring 2010
• Cloyce Nelson, Spring 2010
• Sandy Nguyen, 2010
• Dan Parker, Summer and Fall 2010
• Elizabeth Shaw, Summer and Fall 2010

CUNNINGHAM, C.
Bradley Tomnessen, Spring.

HANSON, D.T.
• Ashley Begaye (post-bac.), Independent Research, January 1–June 30, 2010
• Daniella McCade, Independent Research, January 1–December 31, 2010
• Samuel Nieves (post-bac.), Independent Research, July 1–December 31, 2010
• Dianne Pater, Honors Research, January 1–December 31, 2010
• Rachel Powell, Independent Research, January 1–May 31, 2010
• Francisco Salazar, Independent Research, June 1—December 31, 2010
• Amber Schwettman, Honors Research, June 1–December 31, 2010
• Nathaniel Wiest, Honors Research, January 1–December 31, 2010

HOFKIN, B.V.
Jacob Greenberg, 2009–present, who will complete his B.S. in Biology and his Honor's thesis in May 2012.
Alyssia Jenks, Biol. 499, Undergraduate Problems (1 credit hour), Fall 2010

KATJU, V.
- Aarti Attreya, Fall 2010–present
- Oscar Luis Maldonado, McNair/ROP Scholar, Fall 2009–Summer 2010
- Lucile Packard, Honor's Thesis, Fall 2009–present
- Hallie Rane, B.S. Biology 2010, *Summa Cum Laude*, Fall 2008–present
- Kayleigh Stogsdill, Fall 2010–present
- Cole Wolf, Spring 2010–present
- Kandis Wright, Fall 2010–present

KODRIC-BROWN, A.
- Nicole Attencio, Biol. 499, Undergraduate Problems, Summer 2010
- Carrie Crabtree, Biol. 499, Undergraduate Problems, Summer 2010
- Aja King, Biol. 499, Undergraduate Problems, Summer 2010
- Deidre Linden, Biol. 499, Undergraduate Problems, Summer 2010
- Steven Kevin McCormick, Fall 2010
- Kristi Wright, Fall 2010

LITVAK, M.E.
- Ileana Betancourt (summer 2010 Research Experiences for Undergraduates [REU])
- Elida Iniguez (summer 2010 Research Experiences for Undergraduates [REU])
- Amanda Liebricht (summer 2010 Research Experiences for Undergraduates [REU])
- Nina Maas
- Cecilia Payan
- Scott Rossol

LOWREY, T.K.
Shelley McNeil, Directed Research Project on Rare Plant Systematics, June 1, 2010–June 1, 2011.

MARSHALL, D.L.
Lindsey Kaufmann, all year

MILLER, K.B.
- Eoghan Doyle, 2010–present
- William Edelman (IMSD Program), 2008–2010
- Erin Fenton, 2009–2010
- Catherine Geisik, 2009–2010
- R. Antonio Gomez, (MARC Program, honors), 2010–present
- Emily Hodson, 2008–present
- Nicholas Homziak, (UNO Program, honors), 2010–present
- Martha Lara, 2010–present
- Shelley MacNeil, 2010–present
- Elizabeth Montano (honors), 2009–2010
- Amber Schwettmann, 2010–present

K-36
• Jessica Smith, 2009–present
• Nicole Telles (MARC Program), 2007–present
• Rebecca Zalar, 2009–2010

MILLER, R.D.
• Keith Adams, Spring
• Jacob Greenberg, Minority Access to Research Careers (MARC) Program, Biol. 400, Senior Honors Thesis, Spring and Fall
• Kevin Mitchell, Biol. 400, Senior Honors Thesis, Spring and Summer

NATVIG, D.O.
• Ashley Talbot, fungal research, January 1, 2010–December 31, 2010.

NELSON, M.A.
• Caitlin Armijo, Biol. 400, Senior Honors Thesis, Minority Access to Research Careers (MARC) Program, Spring and Fall 2010
• Layne Bettini, Biol. 400, Senior Honors Thesis, Spring 2010
• Melissa Candelaria-Lyons, Biol. 400, Senior Honors Thesis, Minority Access to Research Careers (MARC) Program, Spring 2010
• Melanie Connick, Biol. 499, Undergraduate Problems, Fall 2010
• Alyssa Dye, Biol. 499, Undergraduate Problems, Spring 2010; Biol. 400, Senior Honors Thesis, Fall 2010
• Samantha Goggin, Biol. 400, Senior Honors Thesis, Fall 2010
• Diane Jimenez-Stinson, Biol. 499, Undergraduate Problems, Fall 2010
• Camille Padilla, Biol. 499, Undergraduate Problems, Fall 2010
• Philip Reed, Biol. 499, Undergraduate Problems, Spring 2010
• Katherine Schultz, Biol. 499, Undergraduate Problems, Spring 2010
• Bailey Snyder, Biol. 499, Undergraduate Problems, Spring 2010
• Nina Vakulamova, Biol. 499, Undergraduate Problems, Spring 2010

SINSABAUGH, R.L.
• Ileana Betancourt, Amanda Isabel Liebrecht and Elida Iniguez, NSF-funded REU students, Summer 2010.

SMITH, F.A.
• Kathleen Esquibel, a UNM undergraduate in biology, Fall 2008–present. She is funded by the Ron McNair program.
• Kari Lintulaakso, an undergraduate from the University of Helsinki, funded by my NSF Research Coordination Networks grant to work on the paleobiology of mammalian body size.
• Jessica Martin, a UNM undergraduate in biology, Spring 2007–present. Jessica finished her undergraduate thesis with summa cum laude honors in Spring 2010, and graduated summa cum laude as well. Currently, she is working in my lab as she prepares for graduate school.

SNELL, H.L.
• Jenny Alsup, Honor's thesis, Spring, Summer and Fall
• Joey Chour, Undergraduate Opportunities (UNO) Program, Spring and Fall
• Cassandra Wilson, field research and teaching assistant, Spring, Summer and Fall

STRICKER, S.A.
Sam Abernathy and Alicia Marquardt, both Biol. 499, Undergraduate Problems

TAKACS-VESBACH, C.D.
• Carmela Carrasco, since 2008 with Ursula Shepherd, graduated with honors.
• Shannon Fitzpatrick, 2009–present
• Liam Lowry, Summer 2010
• Stephanie Moquin, 2008–present
• Lauren Taylor, Summer 2010
• Raquella Thomas, Fall 2009–Summer 2010
• Caitlin Wolf, Fall 2010–present

THORNHILL, R.
• Brian Malott, Honor’s Thesis, Spring
• Kate Cathuen, Honor’s Thesis, Spring and Fall
• Hannah Duran, Honor’s Thesis, Fall
• Lindsay Livingstone, Honor’s Thesis, Fall
• Megan Thienel, Honor’s Thesis, Fall

TURNER, T.E.
• Ian Cunning, Undergraduate Research Assistant, September 2010–present
• Tracy Diver, Undergraduate Research Assistant, graduated December 15, 2010
• Jennifer Kraus, Undergraduate Research Assistant, graduated December 15, 2010
• Corey Love, Undergraduate Research Assistant, graduated December 15, 2010
• Nichole Neff, Biology Honors Research graduated, May 15, 2010
• Matthew Peralta, UNO student, May 15, 2010–present
• Kayla Sayre, REU student, May 15, 2010–present
• Alana Sharp, Undergraduate Research Assistant, Honors thesis, May 15, 2010
• Thien Te Le, Undergraduate Research Assistant, September 2010–present
• Jesse Trujillo, UnO student, January 1, 2010–present

WEARING, H.J.

WERNER-WASHBURN. M.

Approximately 40 undergraduates a year at UNM, more at Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), and graduate students around the country.

WITT. C.C.

• Bethany Abrahamson, UNM Student, whole year; Hummingbird Elevational Distributions and Inter-species Competition in the Sandia Mountains.
• Elizabeth DiLorenzo, UNM student, Spring 2010, Biol. 499, Undergraduate Problems, Disease Prevalence and Sexual Dimorphism in Andean Birds.
• Monica Flores, Peruvian undergraduate counterpart and collaborator; whole year; Satellite-imagery and Endangered Polylepis Forest in South-central Peru.
• Michael Hilchey, UNM Student, whole year, Systematics of Curve-billed Thrasher Complex in New Mexico.
• Matthew Jones, UNM Student, whole year, Vocalizations of Sandhill Crane Subspecies; Undergraduate Thesis for Completion, March 2011.
• Sabrina McNew, post-graduate lab associate, Fall 2010, Avian Malaria of the Tropical Andes.
• Alessandra Quinonez, U. Peruana Cayetana-Heredia, whole year, Phylogeography of the Collared Inca Hummingbird.
• Liana Schmader, UNM undergraduate, whole year, Red Blood Cell Concentration in Peruvian Birds along an Elevational Transect.
• C. Jonathan Schmitt, UNM Student, whole year; Phylogeography of the Hutton's Vireo.
• Liana Schmader, UNM undergraduate, whole year, Red Blood Cell Concentration in Peruvian Birds along an Elevational Transect.
• Ashley Smiley, UNM Undergraduate, Native American, Undergraduate Opportunities (UNO) Mentee, Heart Morphology in High-altitude Birds.
• Jessica Smith, UNM student, Spring 2010, Sandhill Crane flight patterns in the Rio Grande Valley.
• Sara Swiderek, UNM student, whole year, Avian Malaria in the Andes.
• Raymond Vanbuskirk, UNM student, whole year, Interannual Demographics of the Rosy Finches on Sandia Crest.
• Doug Whalen, UNM student, Spring 2010, Initiatives to Maximize Student Diversity (IMSD) Program; Avian Malaria in the Tropical Andes.
• Geneva Williams, UNM Post-graduate Student (Navajo Student, graduated May 2009), Spring 2010, Heart Morphology in High-altitude Birds.

G. Other Teaching Activities.

ADEMA. C.M.

Mentor for Journey Nolan, Postbaccalaureate Research and Education Program (PREP), Department of Biology, UNM.

Mentor presentation, Postbaccalaureate Research and Education Program (PREP).
Introduction to comparative immunology, Living Learning Community (LCC) Program, UNM.

BROWN, J.H.
Mini-Course, "Metabolism, Scaling and Biodiversity," University of Miami, February 2010.

COLLINS, S.I.
Two 1.5-hour guest lectures at UNM and one 1.25-hour guest lecture at Arizona State University, Tempe AZ.

COOK, J.A.
Aron Kruchoski, high school volunteer, summer
Shane Wilder, high school volunteer, summer

CRIPPS, R.M.
Mentor to Cameron Trapp, high school student, 2010.
Mentor to four postdoctoral fellows: Anton Bryantsev, Maria Chechenova, Kathryn Ryan and Gloriana Trujillo.

DAHM, C.N.
Guest lecturer (full day) in the Tri-State Experimental Program to Stimulate Competitive Research (EPSCoR) modeling course organized by Dr. Laurel Saito at the University of Nevada–Reno.

FARNSWORTH, P.A.
A founding faculty member of a program called "Peer Learning Facilitators," which trains students to act as guides and moderators for in-class peer-to-peer learning activities to move the classroom from a declarative pedagogy to one of cooperative active learning. Many studies now show that this collaborative, problem-based learning increases success in the classroom of Millennial students.

HANSON, D.T.
- Served on Anthropology graduate student's committee (Lee Drake)
- Served on Engineering graduate student's committee (Sarah Kitner)
- Served on Engineering graduate student's committee (Adam Tasic; Athena Christodoulou)
- Served on Engineering graduate student's committee (Athena Christodoulou)

LITVAK, M.E.

POCKMAN, W.T.
Co-director, UNM FIPSE (Fund for the Improvement of Postsecondary Education; U.S. Department of Education) undergraduate exchange program with three Brazilian universities
(collaboration with Texas Tech University), program will send eight UNM undergraduates to one of the partner institutions in Brazil for one semester and will bring additional Brazilian students to UNM.

**SHANER, M.G.M.**

Used Pearson's "Mastering Biology" program summer and fall semesters.

**SINSABAUGH, R.L.**

Member of graduate advisory committees for Tierney Adamson, Dan Colman, Sarah Hicks, Dan Krofchek, Laura Ladwig, Sara Lopez, Jordan Okie, Steven Scholl, Michell Thomey, Jennifer Tichy, David Van Horn, and Daniel Warnock.

**STRICKER, S.A.**

Taught workshop on Sea Urchin Developmental Biology for Society of Developmental Biology meetings, August 2010.

Mentored graduate student, Jose R. Escalona, on a Fullbright-funded exchange program from Mexico, Spring 2010.

**TAKACS-VESBACH, C.D.**

LRES 557, Thermal Biology in Yellowstone National Park, 2 credits, Montana State University, Billings MT, July 2010.

**TURNER, T.E.**

Participant in AIM-UP! Program whose goal is to integrate natural history museum specimens and data in undergraduate education, organizational meeting, Santa Fe NM, October 15, 2010.


**WEARING, H.J.**

Mathematical/Theoretical Ecology Journal Club (seminar, 1 credit hour), Spring and Fall 2010, cross-listed in the Departments of Mathematics & Statistics and Biology: Math 439/679 and Biol 402/502.

**WERNER-WASHBURNE, M.**

Give talks regularly at Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) and in the community.
WITT, C.C.
Guest Lecturer, Biol. 461L/561, Tropical Biology, Spring
Guest Lecturer, Biol. 402/502, Topic: Integrated Inventories, Fall

WOLF, B.O.
Guest lecturer, “Global Climate Change,” Biology 402-502, October 18, 2010

II. PUBLICATIONS.

A. Books Authored.

BROWN, J.H.

COUCH, L.

FARNSWORTH, P.A.

HOFKIN, B.V.

B. Books Edited.

None.

C. Chapters in Books or Major Synthetic Reviews.

COOK, J.A.

CRIPPS, R.M.
DAHM, C.N.

KODRIC-BROWN, A.

LITVAK, M.E.

LOKER, E.S.

LOWREY, T.K.

MILLER, R.D.


NELSON, M.A.


SINSABAUGH, R.L.

SMITH, F.A.

TAKACS-VESEBACH, C.D.


TURNER, T.F.

WAIDE, R.B.

WITT, C.C.


WOLF, B.O.


D. Articles in Refereed Journals.

ADEMA, C.M.


BROWN, J.H.


**COLLINS, S.L.**


**COOK, J.A.**


CRIPPS, R.M.

DAHM, C.N.


HANSON, D.T.


KATJU, V.

LITVAK, M.E.


LOKER, E.S.


**LOWREY, T.K.**


**MARSHALL, D.L.**


**MILLER, K.B.**


**MILLER, R.D.**

NATVIG, D.O.


POCKMAN, W.T.


SHANER, M.G.M.


SINSABAUGH, R.L.


**SMITH, F.A.**


**SNEILL, H.L.**


STRICKER, S.A.


THORNHILL, R.


TURNER, T.F.


WAIDE, R.B.

WEARING, H.J.

WOLF, B.O.


E. Book Reviews.

FARNSWORTH, P.A.


Higgins, ?? *The Natural World*, Oxford University Press

Houtman, ?? *Biology Now*, Life Science Literacy for a Lifetime, Oxford University Press

Bozzone, D.M. *Biology for the Informed Citizen*, to be published by Oxford University Press

MILLER, K.B.

SMITH, F.A.
E. Articles in Non-scholarly Journals.

WITT, C.C.

WOLF, B.O.

G. Quasi-public Reports for Internal/External Circulation.

COOK, J.A.
Annual Report of the Division of Mammals, Museum of Southwestern Biology


SNELL, H.L.

TURNER, T.E

Snyder, A.M. and T.E Turner. 2010. 2009 San Juan River specimen curation at the Division of Fishes, Museum of Southwestern Biology, University of New Mexico. Annual report, 27 pages.


Osborne, M.J., T.A. Diver and T.E Turner. 2010. Genetic status of the Arkansas River shiner and evaluation of hybridization among cyprinid fish in the Pecos River, New Mexico. Final Report submitted to the New Mexico Department of Game and Fish, Santa Fe NM.

Osborne, M.J., A. Sharp and T.E Turner. 2010. Baseline genetic studies of the Chihuahua chub. Final Report submitted to the New Mexico Department of Game and Fish, Santa Fe NM.


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WAIDE, R.B.


Long-Term Ecological Research Network Office. 2010. Final Report to the National Science Foundation for DEB-0236154p

Annual Report of the Long-Term Ecological Research Network Office 2010 (annual report to the LTER Executive Board)

Annual Report 2010 to the Luquillo LTER Program for a subcontract with the University of Puerto Rico.


WITT, C.C.


H. Abstracts (Refereed or Invited).

DAHM, C.N.
The Freshwater Inflows:2010 and Beyond, EPSCoR Tri-State Meeting, Incline Village NV; the Joint Annual Meeting of the North American Benthological Society and American Society of Limnology and Oceanography; the Ecology and Civil Engineering Society of Japan; the Bay-Delta Science Conference; the American Geophysical Union fall meeting; the Annual Meeting of Geological Society of America; the Annual Meeting of the Ecological Society of America; and the Catalan Institute for Water Research (ICRA)–SCARCE meeting, Girona, Catalonia, Spain.

HANSON, D.T.
LOKER, E.S.


ing of the American Society of Tropical Medicine and Hygiene, Atlanta GA, November 3-7, 2010.

SINSABAUGH, R.L.


SMITH, F.A.


TURNER, T.F.

WEARING, H.J.


I. Abstracts (Contributed) (including Research Day abstracts of your students).

ADEMA, C.M.


Hanington, P.C., M.A. Forys, C.M. Adema and E.S. Loker. 2010. A somatically diversified lectin (FREP3) is involved with resistance of snails to digenetic trematode infection. 59th Annual Meeting of American Society of Tropical Medicine and Hygiene, Atlanta GA, November 3-7, 2010.


COLLINS, S.L.

Author or co-author on five presentations, Annual Meeting of the Ecological Society of America, Pittsburgh PA, August 2010.

Co-author on one presentation, Annual Meeting of American Geophysical Union, San Francisco CA December 2010.
COOK, J.A.


And about 15 student abstracts.

CUNNINGHAM, C.


HANSON, D.T.


HOFKIN, B.V.

Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta GA, November 3-7, 2010.


KATJU, V.


KODRIC-BROWN, A.


LITVAK, M.E.


NATVIG, D.O.


POCKMAN, W.T.


SINSABAUGH, R.L.


SMITH, F.A.

STRICKER, S.A.


TURNER, T.F.
* Student Presentations


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Quiescence in Yeast. Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Anaheim CA, September 30-October 2, 2010.

From Post Doc to Professor. Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Anaheim CA, September 30-October 2, 2010.

Musings on ... Mentoring. University of Washington Genome Sciences Departmental Retreat, Seattle WA, September 2010.


J. Other.

COLLINS, S.L.
Member, editorial committee, EcoTrends, working on an edited volume to be published in 2011.

FARNSWORTH, P.A.
Labs are online at www.biologylab.awonline.com

SINSABAUGH, R.L.
According to Google’s Citation Gadget, my publications have been cited nearly 4,000 times with a H-factor of 38.

WERNER-WASHBURNE, M.

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 2010.
BROWN, J.H.

COLLINS, S.l.
One; declined.

COOK, J.A.
“Research Coordination Networks–Undergraduate Biology Education (RCN-UBE): Advancing Integration of Museums into Undergraduate Programs (AIM-UP!)”; J.A. Cook, E. Lacey, S. Edwards, S. Ickert-Bond, PIs; Division of Environmental Biology 0956129, National Science Foundation; $485,648, May 1, 2010–April 30, 2015.

“A Test of Landscape Connectivity across the Sky Islands Region Using Large Carnivores as Model Organisms–II”; G. Roemer (N.M. State University), PI, J.A. Cook, co-PI; Wilburforce Foundation; $25,000.

CRIPPS, R.M.
“A Drosophila Model of Mammalian Muscular Dystrophy”; R.M. Cripps, PI; Muscular Dystrophy Association; $330,000, July 1, 2010–June 30, 2013, $110,000/year.


“Genetic Regulation of Muscle Fiber Diversity”; R.M. Cripps, PI; National Institute of General Medical Sciences (NIGMS), National Institutes of Health; $1.25m, December 1, 2010–November 30, 2015, $250,000/year.

“Genetic Control of Cell Fate in the Drosophila Heart”; R.M. Cripps, PI; The National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health; $1.25M, April 1, 2011–March 31, 2016, $250,000/year.

CUNNINGHAM, C.
“Oysters as Environmental Biosensors”; C. Cunningham, PI; National Science Foundation; $650,034, not funded.

“Understanding the Biology of Schistosomes in Response to Praziquantel (RO1)”; C. Cunningham, PI; National Institutes of Health; $1,925,639 (Year 1: $394,468; Year 2: $382,841; Year 3: $382,821; Year 4: $382,784; Year 5: $382,725), December 1, 2010–November 30, 2015.

DAHM, C.N.

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"Collaborative Research: ULTRA-EX: Land and Water Use Decision-making and Ecosystem Services Along a Southwestern Socio-ecological Gradient"; S.L. Collins and C.N. Dahm, PIs; National Science Foundation; $120,000, October 1, 2010–March 31, 2013.

"Collaborative Research WSC Category 3—Socio-ecological Resiliency and Ecosystem Water Yield under Changing Climate, Population, and Policy at Long-Term Ecological Research Sites"; C.N. Dahm, co-PI (overall lead was Julia Jones, Oregon State University; National Science Foundation. Not funded.

"WSC Category 1—Sustainability of a System: Building Resilience in Governance and Water Regimes in the Rio Grande"; C.N. Dahm, co-PI (overall lead was Julia Coonrod, Civil Engineering, UNM); National Science Foundation. Not funded.

HANSON, D.T.

"From Benchtop to Raceway: Spectroscopic Signatures of Dynamic Biological Processes in Algal Communities"; J. Timlin, PI, D.T. Hanson on subcontract; Sandia National Laboratory, U.S. Department of Energy; ~$50,000 (subcontract amount to be determined), October 1, 2010–September 31, 2011.


"Dimensions: Collaborative Research: Plant-Microbe Symbioses and Carbon Sequestration"; L.K. Graham, E. Waters, M. Cook and D.T. Hanson, PIs; Dimensions of Biodiversity, Division of Environmental Biology, National Science Foundation; $723,446, January 1, 2011–December 31, 2015.

"HHMI-GBMF Investigator Application"; D.T. Hanson, PI; Howard Hughes-Gordon and Betty Moore Foundation Plant Sciences Competition.

"Ideas Proposal for Marine Microbiology"; D.T. Hanson, PI; Marine Microbiology and Marine Microbial Ecology Research, Gordon and Betty Moore Foundation Request for Ideas.

"Preliminary Proposal for Joining Ideas Lab"; D.T. Hanson, PI; Surpassing Evolution: Transformative Approaches to Enhance the Efficiency of Photosynthesis, A Joint Ideas Lab Activity between the National Science Foundation and Biotechnology and the Biological Sciences Research Council.
KATJU, V.
“Genomic Determinants Influencing the Evolutionary Fate of Young Gene Duplicates in Caenorhabditis elegans”; V. Katju, PI; National Institutes of Health; $1,862,407, June 1, 2011–May 31, 2016, $372,481/year.

Alfred P. Sloan Research Fellow”; V. Katju, PI; Alfred P. Sloan Foundation; $50,000, February 15, 2011—February 14, 2013; $25,000/year.

LITVAK, M.E.


“Edaphic Constraints on Ecosystem Carbon and Water Exchanges: Quantifying Impacts of Soil Depth and Rock”; M.E. Litvak, PI(UNM); Ecosystems: Collaborative Proposal, National Science Foundation; $178,106.


LOKER, E.S.
“Fasciola”; E.S. Loker, PI; U.S. Department of Agriculture; January 2010.

“Biology of Trematode–Snail Associations,” E.S. Loker, PI; renewal, National Institutes of Health; July 2010.

“Systematics of Avian Schistosomes”; S. Brant, PI, E.S. Loker, co-PI; Revisionary Syntheses in Systematics (REV SYS), National Science Foundation.

LOWREY, T.K.
“Collaborative Research: Digitization TCN: Socorro, the Southwestern Critical Plant Data Coordination Network”; T.K. Lowrey, PI; National Science Foundation; $509,687, October 1, 2011–September 30, 2015, $120,000/year.

MARSHALL, D.L.
“University of New Mexico: MARC U*STAR Undergraduate Training Program”; D.L. Marshall, PI; National Institutes of Health; $2,200,000, June 1, 2010–May 31, 2011.
MILLER, K.B.

"Identification Resource for the Longhorned Wood Boring Beetle Subfamilies and Tribes of the World"; K.B. Miller, PI; The Animal and Plant Health Inspection Service (APHIS), USDA; $88,000, 2011, 10%/year.

MILLER, R.D.

"Structure of a Novel T Cell Receptor"; R.D. Miller, PI; National Institutes of Health; $275,000.

"Evolution of a Novel T Cell Receptor"; R.D. Miller, PI; Center of Biomedical Research Excellence (COBRE) subproject, National Institutes of Health, $670,000.

NATVIG, D.O.


POCKMAN, W.T.

"Collaborative Research: Ecosystem Sensitivity to Climate Change: A Biome-Scale Experimental Network"; W.T. Pockman and S.L. Collins, PIs (in collaboration with five other universities); Macrosystem Biology, Emerging Frontiers (EF), National Science Foundation; $8,065,448, March 15, 2011–March 14, 2016, UNM's budget = $1,224,468.

"Assessing the Role of Bark Beetle Activity in Drought Induced Mortality of Piñon Pine"; W.T. Pockman, PI; Program for Ecosystem Research, U.S. Department of Energy (via Los Alamos National Laboratory subcontract); $185,920, September 1, 2010–August 30, 2013.

SINSABAUGH, R.L.

"Pulse Dynamics in the Semiarid Southwest: Thresholds of Ecosystem Change"; M.E. Litvak, R.L. Sinsabaugh and Andrew Fox, co-PIs; Ecological Science, National Science Foundation; $951,000, ??.


"Ecosystem Carbon Dynamics in Relation to Climate Drivers Across an Elevational Climosequence in the Southwestern U.S."; M.E. Litvak, R.L. Sinsabaugh, A. Fox, and J.J. Follstad Shah, co-PIs; Terrestrial Carbon Program, Biological and Environmental Research, Department of Energy; ??, ??.


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"Collaborative Research: Partitioning Net Ecosystem Exchange along an Elevation Gradient in New Mexico into its Component Fluxes"; D. Breecker, M.E. Litvak and R.L. Sinsabaugh, co-PIs; Ecosystem Science, National Science Foundation; $691,000 (UNM), ??.

SMITH, F.A.
Participating faculty in two different Integrative Graduate Education and Research Traineeship (IGERT) grants submitted to the National Science Foundation: one from the Museum of Southwestern Biology (MSB) (T.E Turne, lead PI), and one from Computer Science (S. Forest, lead PI); neither was funded, although they received great reviews.

SNELL, H.L.
"Evaluating the Potential for Climate Change-induced Extinction of Selected New Mexican Lizards"; H.L. Snell and J.T. Giermakowski, co-PIs; N.M. Department of Game and Fish; $14,000, December 2010–June 2011.


TAKACS-VESBACH, C.D.
"MCMLTER-4: Increased Connectivity in a Polar Desert Resulting from Climate Warming"; D. McKnight (University of Colorado), PI, C.D. Takacs-Vesbach, co-PI; Long Term Ecological Research, National Science Foundation; $700,578 ($144,564 to UNM as subcontract from University of Colorado); April 2011–March 2017. Funded, but award letter not yet received.

THORNHILL, R.
"Infectious Disease and Sociality"; R. Thornhill and C.L. Fincher, co-PIs; National Science Foundation; $400,000, declined.

TURNER, T.E.


“Collaborative Research: Georeferencing U.S. Fish Collections, a Community-based Model for Georeferencing Natural History Collections”; H. Bart and N. Rios, PIs, T.E. Turner and A. Snyder among 20 co-PIs; National Science Foundation; $130,993, April 1, 2011–March 31, 2014. Declined.


“Baseline Genetic Studies of Fishes Native to the Gila River”; T.E. Turner, PI, T. Pilger, co-PI; N.M. Dept Game and Fish: Share with Wildlife; $11,000, July 1, 2010–June 30, 2011.


WAIDE, R.B.


WEARING, H.J.

“Predicting Vector-borne Virus Transmission Dynamics and Emergence Potential”; C. Mores (LSU), H.J. Wearing (UNM), I. Foppa (Tulane), M. Hyman (Tulane) and D. Wesson (Tulane), PIs; National Institutes of Health; $408,725, April 1, 2011–March 31, 2016, $75,590/year.

Limits to Tick Vectorial Capacity for Powassan Virus Lineages”; G. Ebel (UNM), H.J. Wearing (UNM) and S. Telford (Tufts), PIs; National Science Foundation; $171,234, July 1, 2011–June 30, 2016, $34,247/year.
WERNER-WASHBURN, M.


WITT, C.C.

“The Time-course of Adaptation to High-altitude Hypoxia: A Comparative Study of Andean Birds”; C.C. Witt, PI; National Science Foundation; $718,000. Declined.


“Diversity and Host–Parasite Dynamics of Avian Malaria along a Tropical Altitudinal Gradient”; C.C. Witt, PI; seed grant proposal, Center for Evolutionary and Theoretical Immunology.

“Bird Surveys on the Rio Grande for the SunZia Transmission Line Project, Phase II; C.C. Witt, PI; Environmental Planning Group, Phoenix, AZ; $147,000.

WOLF, B.O.


2. Awarded with 2010 initial start date.

COLLINS, S.L.


“Student Research and Teaching Improvements at the Sevilleta Field Station”; D.O. Natvig, PI, S.L. Collins, co-PI; National Science Foundation; $95,290, October 1, 2009–September 30, 2010.

“LTER Supplement”; $112,221.
COOK, J.A.

"Research Coordination Networks–Undergraduate Biology Education (RCN-UBE): Advancing Integration of Museums into Undergraduate Programs (AIM-UP!)"; J.A. Cook, E. Lacey, S. Edwards, S. Ickert-Bond, PIs; Division of Environmental Biology 0956129, National Science Foundation; $485,648, May 1, 2010–April 30, 2015.

"A Test of Landscape Connectivity across the Sky Islands Region Using Large Carnivores as Model Organisms–II"; G. Roemer (N.M. State University), PI; J.A. Cook, co-PI; Wilburforce Foundation; $25,000.

CRIPPS, R.M.

"A Drosophila Model of Mammalian Muscular Dystrophy"; R.M. Cripps, PI; Muscular Dystrophy Association; $380,000, July 1, 2010–June 30, 2013, $110,000/year.

"Genetic Regulation of Muscle Fiber Diversity"; R.M. Cripps, PI; National Institute of General Medical Sciences (NIGMS), National Institutes of Health; $800,000, December 1, 2010–November 30, 2014, $200,000/year.

CUNNINGHAM, C.

"Understanding the Biology of Schistosomes in Response to Praziquantel (R56)"; C. Cunningham, PI; Center for Evolutionary and Theoretical Immunology (CETI), National Institutes of Health; $394,283, September 1, 2010–August 31, 2011.

DAHM, C.N.


"Collaborative Research: ULTRA-EX: Land and Water Use Decision-making and Ecosystem Services Along a Southwestern Socio-ecological Gradient"; S.L. Collins and C.N. Dahm, PIs; National Science Foundation; $120,000, October 1, 2010–March 31, 2013.

HANSON, D.T.


KATJU, V.

"The Spontaneous Rate of Gene Duplication and Deletion in Caenorhabditis elegans"; U. Bergthorsson, PI, V. Katju, co-PI; Division of Environmental Biology 0952342, National Science Foundation; $429,775, March 1, 2010–February 28, 2013, $143,258/year.
KODRIC-BROWN, A.

“The MHC and Mate Choice in the Brown Anole, Anolis sagrei”; A. Kodric-Brown, PI; seed grant, Center for Evolutionary & Theoretical Immunology (CETI), National Institutes of Health; $38,820, May 2010–May 2012.

LITVAK, M.E.

“Sevilleta Long Term Ecological Research IV: Long Term Ecological Research in a Biome Transition Zone”; S.L. Collins, PI, C.N. Dahm, W.T. Pockman, K. Vanderbilt and M.E. Litvak, co-PIs (+ 17 non-signatory co-PIs); Long Term Ecological Research (LTER) Program, Division of Environmental Biology, National Science Foundation; $5,040,000, October 1, 2006–September 30, 2011.


Do Vegetation–Microclimate Feedbacks Promote Shrub Encroachment in the Southwestern United States?”, M. Litvak, PI, S.L. Collins and W.T. Pockman, co-PIs; Ecosystems, National Science Foundation; $289,008, March 1, 2008–February 31, 2011.


“Quantifying the Role of Summer Vs. Winter Precipitation on Carbon Uptake of Montane Forests in the Valles Caldera”; M.E. Litvak, PI; NSF Critical Zone Observatory Subcontract through University of Arizona, National Science Foundation; $35,000, June 2010–May 2011.

“Ecosystem Reconstruction under Climate Change Conditions Following Fire”; S.L. Collins, PI, M.E. Litvak, W.T. Pockman, B.O. Wolf and R.L. Sinsabaugh, co-PIs; Rapid Response Research (RAPID), National Science Foundation; $150,055, August 25, 2010–?

LOKER, E.S.

“Systematics of Avian Schistosomes”; S. Brant, PI, E.S. Loker, co-PI; Revisionary Syntheses in Systematics (REVSYS), National Science Foundation.

MILLER, K.B.

“Identification Resource for the Ironclad and Cylindrical Bark Beetles and the Longhorned Wood Boring Beetle Tribe Onciderini”; K.B. Miller, PI; Animal and Plant Health Inspection Service (APHIS), U.S. Department of Agriculture; $85,000 plus a $10,000 supplement, 2010, 10%/year.
“Joint Research on Endemism at White Sands National Monument and the Cuatrocienegas Protected Area”; K.B. Miller and D. Lightfoot, PIs; U.S. National Park Service; $120,000, 2010–2011, 10%/year.

“Revisionary Syntheses in Systematics (REVSYS): Multilevel Revision within the Praying Mantises (Insecta, Dictyoptera, Mantodea)”; G.J. Svenson, PI, K.B. Miller, co-PI; Systematic Biology and Biodiversity Inventories Grant #DEB-1050569, National Science Foundation; $603,742, 2010–2012, 51%/year.

NATVIG, D.O.


“Research and Teaching Improvements at the Sevilleta Field Station”; D.O. Natvig and S.L. Collins, co-PIs; National Science Foundation; $95,290, March 1, 2010–February 28, 2011.

POCKMAN, W.T.


“Assessing the Role of Bark Beetle Activity in Drought Induced Mortality of Piñon Pine”; W.T. Pockman, PI; Program for Ecosystem Research (PER), U.S. Department of Energy (via Los Alamos National Laboratory subcontract); $185,920, September 1, 2010–August 30, 2013.

SINSABAUGH, R.L.


SNELL, H.L.

“Evaluating the Potential for Climate Change-induced Extinction of Selected New Mexican Lizards”; H.L. Snell and J.T. Giermakowski, co-PIs; N.M. Department of Game and Fish; $14,000, December 2010–June 2011.


TOOLSON, E.C.

Developed Naive Bayesian discrimination algorithm, which is currently in the final evaluation stages by King County (Washington) Refugee Assimilation Project. Using only 10 questions that are readily translated into the seven relevant SE and Central Asian languages, mental health workers now are able to assess quickly which of the hundreds/thousands of annual...
refugees are—or are not—in need of intervention and treatment of post-traumatic stress disorder, anxiety and/or depression as a result of having endured or witnessed torture, rape, war trauma, and/or genocidal campaigns. This work was funded by a small grant from King County.

TURNER, T.E.


“Baseline Genetic Studies of Fishes Native to the Gila River”; T.E Turner, PI, T. Pilger, co-PI; N.M. Dept Game and Fish: Share with Wildlife; $11,000, July 1, 2010–June 30, 2011.


WEARING, H.J.
“Pathogen-immune Interactions of Acute Infections: the Role of Waning Immunity in Pre-vaccine Disease Dynamics”; H.J. Wearing, PI; Center for Evolutionary and Theoretical Immunology (CETI) Seed Grant Program, UNM (National Center for Research Resources, Center of Biomedical Research Excellence, National Institutes of Health); $79,754, May 1, 2010–April 30, 2012, $39,877/year.

WERNER-WASHBURNE, M.

WITT, C.C.
“Bird Surveys on the Rio Grande for the SunZia Transmission Line Project, Phase II; C.C. Witt, PI; Environmental Planning Group, Phoenix, AZ; $147,000., August 1, 2010–??.

“Diversity and Host-Parasite Dynamics of Avian Malaria along a Tropical Altitudinal Gradient”; C.C. Witt, PI, with subaward of National Institutes of Health–Center for Evolutionary and Theoretical Immunology grant to PI’s E.S. Loker and R.D. Miller; seed grant proposal, Center for Evolutionary and Theoretical Immunology; $40,000, ~December 1, 2010–December 1, 2011.
3. In force from previous years.

ADEMA, C.M.

“Anti-pathogen-responses in Biomphalaria glabrata”; C.M. Adema; National Institutes of Health; $500,000; June 16, 2009—May 31, 2011, $250,000/year.

“CETI, Schistosomiasis in Snails: Understanding the Immunological Basis of Long-Term Production of Human-infective Cercariae”; E.S. Loker, R.D. Miller, C.M. Adema (project leader); National Institutes of Health; $370,000; August 18, 2009—May 31, 2011, $170,000/year.

“COBRE Center for Theoretical and Evolutionary Immunology (CETI)”; E.S. Loker, PI, C.M. Adema, subproject leader of “Schistosomiasis in Snails; Basis for Long Term Production of Cercariae”; P20RR018754, Institutional Development Award (IdEA), National Center for Research Resources NCRR, National Institutes of Health; June 2009—June 2014, ~$9,000,000 (Adema’s subproject funded for 2009–2011, $400,000/year (direct).

BROWN, J.H.

“National Institute of Biomedical Imaging and Bioengineering (NIBIB) Interfaces Initiative for Interdisciplinary Graduate Research Training”; J.H. Brown and F.A. Smith, co-PIs; National Institute of Biomedical Imaging and Bioengineering (NIBIB), T-32, National Institutes of Health; $1,736,990, April 1, 2009—March 30, 2012.

COLLINS, S.L.


“Do Vegetation–Microclimate Feedbacks Promote Shrub Encroachment in the Southwestern United States?”; M.E. Litvak, UNM PI, W.T. Pockman, S.L. Collins, UNM co-PIs, P. D’Odorico, UVa PI, J. Fuentes, S.De Wekker, UVa co-PIs; Collaborative Research (UNM
and UVa): National Science Foundation; $553,989 (UNM $289,008), February 1, 2008–January 31, 2011.

"Sevilleta LTER REU Sites Program"; S.L. Collins, PI, L. McFadden, co-PI; National Science Foundation; $246,705, March 1, 2008–February 28, 2011.


"Convergence and Contingencies in Savanna Grasslands"; M. Smith, A. Knapp, S.L. Collins, J. Blair, PIs; renewal, Collaborative Research (Yale, Colorado State University, UNM, Kansas State University), National Science Foundation; $807,000 (UNM $155,038), February 1, 2009–January 31, 2012.


Long Term Ecological Research (LTER) Supplement; National Science Foundation; $145,862.

COOK, J.A.

"A Test of Landscape Connectivity across the Sky Islands Region Using Large Carnivores as Model Organisms"; G. Roemer (N.M. State University), PI, J.A. Cook, co-PI; Wilburforce Foundation; $25,000.


"ICIDR, Hantavirus Ecology and Disease in Chile and Panama"; G. Mertz (School of Medicine, UNM), PI; 2 U19 AI045452-06, National Institutes of Health; $800,000, August 31, 2005–April 30, 2010.
"Undergraduate Research and Mentoring (URM): Undergraduate Nurturing Opportunities (UNO)"; JA Cook, PI; Division of Environmental Biology (DEB) 0731350, National Science Foundation; $1,010,000, August 1, 2007-August 1, 2012, $116,155/year (OH $15,000).

"Mongolia Vertebrate Parasite Project"; University of Nebraska, PI, J.A. Cook, co-PI; Division of Environmental Biology (DEB) 0717214, National Science Foundation; $429,999, September 11, 2007–September 1, 2011.

"Curation, Databasing, and Integration of the Orphaned Illinois Mammal Collection"; J.A. Cook, PI; Division of Environmental Biology (DEB) 0744025, National Science Foundation; $259,255, February 1, 2008–February 1, 2010.

"ISLES—Island Survey to Locate Endemics"; J.A. Cook, PI; U.S.D.A. Forest Service; $100,000, September 1, 2008–September 1, 2012, $50,000/year.

"ISLES—Island Survey to Locate Endemics, Amendment 1"; J.A. Cook, PI; U.S.D.A. Forest Service; $180,000, September 1, 2009–September 1, 2012.

CRIPPS, R.M.

"Genetic Control of Cell Fate in the Drosophila Heart"; R.M. Cripps, PI; National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health; $1,000,000, April 1, 2005–March 31, 2010, $200,000/year.

"Genetic Regulation of Muscle Fiber Diversity"; R.M. Cripps, PI; National Institute of General Medical Sciences (NIGMS), National Institutes of Health; $800,000, May 1, 2006–April 30, 2011, $180,000/year.

"Genetic Control of Cardiac Metamorphosis"; R.M. Cripps, PI; American Heart Association; $180,000, January 1, 2008–December 31, 2010, $60,000/year.

"Remodeling of the Drosophila Heart"; R.M. Cripps, PI; American Heart Association; $198,000; January 1, 2008–December 31, 2010, $66,000/year.

"Genetic Specification of the Drosophila Cardiac Pacemaker"; R.M. Cripps, PI; March of Dimes Birth Defects Foundation; $240,000, June 1, 2008–May 31, 2011, $80,000/year.

"UNM Postbaccalaureate Research and Education Program (PREP)"; R.M. Cripps, PI; National Institute of General Medical Sciences (NIGMS), National Institutes of Health; $1.65M, March 1, 2009–February 28, 2013.

CUNNINGHAM, C.


DAHM, C.N.


"NM EPSCoR RII3: Climate Change Impacts on New Mexico's Mountain Sources of Water"; W.K. Michener, PI; National Science Foundation; $15,000,000, 2008–2013. The component that Laura Crossey (EPS) and I manage is for $702,865.


HANSON, D.T.

"Collaborative Research: Light Enhanced 13C Enrichment of Dark Respired CO2: Implications for Leaf Internal CO2 Conductance and Leaf Respiration in the Light"; D.T. Hanson, N.G. McDowell, and T. Rosenstiel (Portland State University), PIs; Integrative Organismal Biology Environmental and Structural Systems Cluster, National Science Foundation; $480,000 ($360,000 to UNM), August 15, 2007–June 30, 2010.

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.

"COBRE: Center for Evolutionary and Theoretical Immunology"; P20 RR018754, National Center for Research Resources, National Institutes of Health; $10.7M, July 1, 2009–June 30, 2014.

LOWREY, T.K.

MILLER, K.B.

“Improvements to the Division of Arthropods Collection, Museum of Southwestern Biology,” K.B. Miller, D. Lightfoot and S. Brantley, PIs; Division of Biological Infrastructure grant #DBI-0847847, Division of Biological Infrastructure, National Science Foundation; $453,444, 2009–2012, 51%/year.

“Phylogenetic Revisions of South American Water Beetles (Coleoptera: Adephaga: Hydrephaga): A Model for Teaching Systematic Biology”; K.B. Miller, PI; The Faculty Early Career Development (CAREER) grant #DEB-0845984, Division of Environmental Biology, National Science Foundation; $675,000, 2009–2014, 51%/year.

“Survey of the Aquatic Insects of Northern Venezuela with an emphasis on Coleoptera”; A.E.Z. Short, K.B. Miller, PIs; Systematic Biology and Biodiversity Inventories grant #DEB-0816904, Division of Environmental Biology, National Science Foundation; $550,000, 2008–2012, 51%/year.

MILLER, R.D.

“Marsupial Immunobiology”; R.D. Miller, PI; National Science Foundation; $605,000; May 1, 2007–April 30, 2012.

NATVIG, D.O.


NELSON, M.A.

“Undergraduate Biomedical Research Training at UNM: Minority Access to Research Careers (MARC) Program”; M.A. Nelson, PI; STIMULUS, National Institutes of Health; ??, June 1, 2006–May 31 2011, $325,000/year.


POCKMAN, W.T.

“Sevilleta Long Term Ecological Research IV: Long Term Ecological Research in a Biome Transition Zone”; S.L. Collins, PI, C.N. Dahm, M.E. Litvak, WT. Pockman and K. Vanderbitt, co-PIs (+ 17 non-signatory co-PIs); LTER Program, Division of Environmental Biology (DEB), National Science Foundation; $5,040,000, October 1, 2006–September 30, 2012, $740,000/year.

"Renovations to Increase Residence Capacity at the UNM Sevilleta Field Station”; S.L. Collins PI, M. Friggens, D.O. Natvig, T.K. Lowrey and WT. Pockman, co-PIs; Division of Biological Infrastructure (DBI) Field Stations and Marine Labs, National Science Foundation; $250,000; September 1, 2007–August 31, 2010.

"Collaborative Research: Do Vegetation–Microclimate Feedbacks Promote Shrub Encroachment in the Southwestern United States?”, M. Litvak, S.L. Collins and WT. Pockman, PIs (with P. D’Odorico, J. Fuentes and S. de Wekker, University of Virginia); Division of Environmental Biology (DEB), National Science Foundation; $289,008; March 1, 2008–February 28, 2011, $96,336/year.

“Ecosystem Consequences of Precipitation Variability and Extremes in Semiarid Grassland and Shrubland”; WT. Pockman, PI, S.L. Collins and E.E. Small, co-PIs; National Institute for Climate Change Research (NICCR), U.S. Department of Energy, via Northern Arizona University; $374,829; April 1, 2008–September 1, 2011, $125,000/year.


SINSABAUGH, R.L.

"Linking Ecosystem Scale Vegetation Change to Shifts in Carbon and Water Cycling: The Consequences of Widespread Piñon Mortality in the Southwest”; M.E. Litvak (UNM PI), R.L. Sinsabaugh (UNM co-PI), N.G. McDowell (LANL PI), T. Rahn (LANL co-PI) and M. Ryan (USFS); U.S. Department of Energy Experimental Program to Stimulate Competitive Research (EPSCoR) Program; $450,000, July 2008–July 2011.

"Collaborative Research: Microbial Control of Litter Decay at the Cellulose-lignin Interface”, M. Weintraub and D.L. Moorhead, co-PIs, R.L. Sinsabaugh, Senior Scientist); 0918718, Division of Environmental Biology, National Science Foundation; $650,000, September 15, 2009–September 15, 2012.

"Chemical and Microbial Mechanisms Linking Litter Quality and Decomposition Rate”; K. Treseder (UC–Irvine), R.L. Sinsabaugh and D.L. Moorhead (University of Toledo), co-PIs; 0946288, Division of Environmental Biology, EArly-concept Grants for Exploratory Research (EaGER) Program, National Science Foundation; $300,000, October 1, 2009–October 1, 2011.


SMITH, F.A.

"Integrating Macroecological Pattern and Processes Across Scales"; F.A. Smith, PI, S.K.M. Ernest and S.K. Lyons, co-PIs; Research Coordination Network BIO-0541625, National Science Foundation; $490,000, April 2006–March 2011.

"Program in Interdisciplinary Biological and Biomedical Sciences (PiBBs)"; J.H. Brown, PI, F.A. Smith, co-PI; National Institute of Biomedical Imaging and Bioengineering (NIBIB) Interfaces Initiative for Interdisciplinary Graduate Research Training (T32) IT32EB009414-01, National Institutes of Health; $963,225 (direct costs), March 1, 2009–February 2014.

SNELL, H.L.

"Development of a Wildlife Conservation Plan for the City of Albuquerque"; H.L. Snell and T.K. Lowrey, co-PIs; City of Albuquerque, NM; $55,000, August 2007–June 30, 2010, $15,000/year. (Amended after award.)

TAKACS-VESBACH, C.D.

"Continental Smokers': Evaluating Mantle Degassing, CO2 Flux, Geomicrobiology, and Water Quality in Extensional Continental Regimes"; L. Crossey, PI, C.D. Takacs-Vesbach, co-PI; Hydrological Sciences, Earth Sciences, National Science Foundation; $294,562, July 2009–June 2011, $54,551/year. NSF has indicated they wish to fund this project, but we have not received official notification.

"Collaborative Research: The Role of Snow Patches on the Spatial Distribution of Soil Microbial Communities and Biogeochemical Cycling in the Antarctic Dry Valleys"; J. Barrett, PI, M. Gooseff and C.D. Takacs-Vesbach, co-PIs; Office of Polar Programs, National Science Foundation; $306,050 (UNM), July 2009–June 2012, $63,154/year.

TURNER, T.F.

"Undergraduate Research Mentoring (URM): Undergraduate Nurturing Opportunities (UNO)"; J.A. Cook, PI, T.F. Turner and five others, co-PIs; National Science Foundation; $1,010,000 ($276,384 F&A), August 1, 2007–August 1, 2012.

“Curation of U.S. FWS. N.M. Fish and Wildlife Conservation Office Reference Collections of Fishes”; A. Snyder, PI, T.E. Turner, co-PI; U.S. Fish & Wildlife Service, Department of the Interior; $130,000, January 9, 2009–October 1, 2013, $26,000/year.


“Community Responses to River Drying in an Arid-land Ecosystem: a Field and Experimental Study”; T.E. Turner, PI; National Science Foundation; Total Award: $345,000 ($115,000 F&A), August 15, 2007–July 31, 2010.

“Baseline Genetic Studies of the Chihuahua Chub (Gila nigrescens)”; M. Osborne, PI, T.E. Turner, co-PI; N.M. Department of Game and Fish; August 30, 2009–June 30, 2010, award delayed to 2010 by contract negotiations.

WAIDE, R.B.


“Long Term Ecological Research Office”; R.B. Waide, J.W. Brunt and J.R. Vande Castle, PIs; National Science Foundation; $100,000, August 4, 2009–April 30, 2015, $20,000/year.

“Cooperative Agreement for the Network Office of the Long-Term Ecological Research Network”; R.B. Waide, J.R. Brunt, W.K. Michener and J. Vande Castle, PIs; National Science Foundation; $8,100,000, March 1, 2003–February 28, 2010 (no cost extension); $1,336,383–1,398,721/year.


"Long-Term Ecological Research in the Luquillo Experimental Forest IV"; R.B. Waide, PI; National Science Foundation, sub-award from the University of Puerto Rico–Rio Piedras; $150,000, December 1, 2006 – November 30, 2012; $25,000/year.

WERNER-WASHBURNE, M.

“The Biogenesis and Survival of Vegetative, Quiescent Yeast Cells”; M. Werner-Washburne, PI; Division of Molecular and Cellular Biosciences (MCB) 0645854, National Science Foundation; $660,000, March 1, 2007–February 28, 2011.

“UNM-IMSD (Initiatives to Maximize Student Diversity)”; M. Werner-Washburne, PI; The Minority Opportunities in Research (MORE), National Institutes of Health 5R25-GM060201; $2,400,000 (direct), March 1, 2009–February 28, 2013, ~$600,000/year (direct).

“Environmental Sensing Using Genome-scale Proteomics”; M. Werner-Washburne, PI; Sandia National Laboratories; $25,000, April 1, 2009–March 31, 2010.

Chemical Screen of TOR Pathway GFP-fusion Proteins in *S. cerevisiae*”; M. Werner-Washburne, PI; National Institutes of Health R03 MH086450-01; $25,000, April 1, 2009–March 31, 2010.

“VectorBase: NIAID Resource Center”; W. Gelbart (Harvard) and EBI, Imperial College, London, U.K., PIs, Margaret Werner-Washburne, co-PI; National Institute of Allergy and Infectious Diseases (NIAID); September 1, 2009–August 31, 2014, ~$150K/year.

WITT, C.C.


“The Phylogenetic and Biogeographic History of High Altitude Adaptation in Hummingbirds: Selection on Hemoglobin Proteins as a Function of Oxygen Supply and Demand”; J.A. McGuire, PI (University of California–Berkeley; written and carried out by C.C. Witt); Division of Environmental Biology-0543556, National Science Foundation; no-cost extension awarded in 2010, ~$60,000 remaining.

WOLF, B.O.

“Desert Tortoises as Walking Tree Rings: Evaluating the Effects of Climate and Resource Variability on Tortoise Growth and Survival Using Stable Isotopes”; I. Murray and B.O. Wolf, co-PIs; Arizona Game and Fish Department; $59,543, September 2009–September 2011.

Use of Wildlife Water Developments by the Bird and Bat Community on the KOFA National Wildlife Refuge, Arizona”; B.O. Wolf, PI; Arizona Game and Fish Department, $65,000, April 1, 2009–February 1, 2010.
B. Other.

COOK, J.A.
Established the Bruce J. Hayward Scholarship in Mammalogy, to be awarded to a biology student focusing on natural history research in Latin America. UNM Foundation, $10K initial, with $250K Trust Bequest.

COUCH, L.
Coccidia research and continued work with Coccidia of the World database and Web page (http://biology.unm.edu/biology/coccidia/home.html).

IV. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES.

A. Invited or Plenary Talks at Professional Meetings, Workshops, Etc.

BROWN, J.H.
Biology Colloquium Speaker, University of Wisconsin, March 2010

"Metabolism Is to Ecology as Genetics Is to Evolution," Sutton Lecture, Oklahoma University, April 2010

Lecture in Integrative Biology-Hansen Lecture, University of California–Berkeley, November 2010

Physics Colloquium Speaker, UNM, December 2010

COOK, J.A.

DAHM, C.N.


LITVAK, M.E.

LOKER, E.S.

MILLER, R.D.

SINSABAUGH, R.L.


SMITH, F.A.


SNELL, H.L.

TAKACS-VESBACH, C.D.
“The Nature of Microbial Diversity at the Extremes of Temperature on Earth,” School of Earth and Space Exploration, Arizona State University, Phoenix AZ, February 24, 2010.


THORNHILL, R.


WEARING, H.J.


B. Contributed Talks at Professional Meetings, Workshops, Etc.

ADEMA, C.M.


Hanington, P.C., M.A. Forys, C.M. Adema and E.S. Loker. 2010. A somatically diversified lectin (FREP3) is involved with resistance of snails to digenetic trematode infection. 59th Annual Meeting of American Society of Tropical Medicine and Hygiene, Atlanta GA, November 3-7, 2010.


BROWN, J.H.
Working Group on Biodiversity, University of California–Berkeley, 2010

Colloquium, “Energetic Limits to Economic Growth”, Department of Physics and Astronomy, UNM, 2010

COLLINS, S.I.

Author or co-author on five presentations, Annual Meeting of the Ecological Society of America, Pittsburgh PA, August 2010.


CUNNINGHAM, C.


KATJU, V.

KODRIC-BROWN, A.

LITVAK, M.E.


LOKER, E.S.


Hanington, P.C., M.A. Forys, C.M. Adema and E.S. Loker. A somatically diversified lectin (FREP3) is involved with resistance of snails to digenetic trematode infection. 59th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta GA, November 3-7, 2010.
MILLER, K.B.


POCKMAN, W.T.


SINSABAUGH, R.L.


SMITH, F.A.


SNELL, H.L.


STRICKER. S.A.


TAKACS-VESEBACH, C.D.

WERNER-WASHBURN E. M.


"From Post Doc to Professor," Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Anaheim CA, September 30–October 2, 2010.


Aging and Stationary Phase in Yeast, Buck Institute on Aging, March 2010.

WITT, C.C.


WOLF, B.O.


Wolf, B.O. and A.E. McKechnie. 2010. Climate change increases the likelihood of catastrophic avian mortality events during extreme heat waves. Global Change and Global Science: Compar-

C. Attendance at Professional Meetings, Workshops, Etc.

ADEMA. C.M.
International Congress of Parasitology (ICOPA) XII, Melbourne, Australia, August 15-20, 2010.

BROWN. J.H.
Ecological and Evolutionary Ethology of Fishes (EEEF) Biennial Conference, Vancouver, B.C., Canada, May 16-20, 2010

COLLINS. S.L.
Annual Meeting of the Ecological Society of America, Pittsburgh PA, August 2010.

COOK. J.A.
Whistler Science Communications Workshop, British Columbia, Canada, October 6-9, 2010.

COUCH. L.

CRIPPS. R.M.
CUNNINGHAM, C.


DAHM, C.N.
Freshwater Inflows: 2010 and Beyond, Corpus Christi TX, February 8-10, 2010.

Tri-State EPSCoR Meeting, Incline Village NV, April 7-8, 2010.


FARNSWORTH, P.
Teaching in a Digital Classroom, OSET (Support for Effective Teaching), UNM, October 2010

HANSON, D.T.
American Society of Plant Biologists, Montreal, Canada, July 31–August 4, 2010.

KATJU, V.
Annual Meeting of the Society for Molecular Biology and Evolution, Lyon, France, July 2010.

LITVAK, M.E.


Annual Meeting of the American Geophysical Union, San Francisco CA, December 13-17, 2010.
LOKER, E.S.

LOWREY, T.K.
SEINet Workshop, Arizona State University, Tucson AZ, May 2010.
Annual Board Meeting, Flora North America, St. Louis MO, October 2010

MARSHALL, D.L.

MILLER, K.B.

NATVIG, D.O.
Annual Users Meeting, Joint Genome Institute, Walnut Creek CA, March 24-26, 2010.
Microbial Genomics and Metagenomics, Joint Genome Institute, Walnut Creek CA, October 18-22, 2010.

POCKMAN, W.T.

SINSABAUGH, R.L.
Member, Enzyme Research Coordination Network Workshop, Fort Collins CO, March 15-17, 2010.
Annual Meeting of the American Society of Limnology and Oceanography, Santa Fe NM, June 6-11, 2010.
Annual Meeting of the Sevilleta Long Term Ecological Research (LTER) Program, LTER Field Station, Socorro NM, July 28, 2010.
Research Experiences for Undergraduates (REU) Symposium, Sevilleta Long Term Ecological Research (LTER) Program, LTER Field Station, Socorro NM, July 30, 2010.
SMITH, F.A.
Science Advisory Board Meeting, National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara CA, March 2010

Organizer and participant, Integrating Macroecological Pattern and Process Across Scales (IMPPS), Research Coordination Network, Santa Fe NM, April 2010.

Participant, National Evolutionary Synthesis Center (NESCent) Catalyst Meeting on Integrating Datasets to Investigate Megafaunal Extinction in the Late Quaternary. (J. Metcalf, R. Guralnick and A. Cooper, organizers), Raleigh NC, May 2010.


Science Advisory Board Meeting, National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara CA, September 2010.

70th Anniversary Meeting of the Society for Vertebrate Paleontology, Pittsburgh PA, October 10-13, 2010.


Organizer and participant, Integrating Macroecological Pattern and Process Across Scales (IMPPS), Research Coordination Network, Santa Fe NM, November 2010.

SNEILL, H.L.

U.S. Fish and Wildlife Service Symposium on Climate Change and Herpetology Conservation, Albuquerque NM, March.


STRICKER, S.A.

SWAN, J.
International Institute of Medical Education Meeting, New York NY, October 2010.

TAKACS-VESBACH, C.D.
Hot Life in the Desert, Arizona State University, Phoenix AZ, February 2010.
Long Term Ecological Research (LTER) All Scientist Meeting, Estes Park CO, September 2010.

THORNHILL, R.

TURNER, T.F.


As UNM Representative to the Colorado Plateau Cooperative Ecosystems Study Unit, attended annual meeting in Flagstaff AZ, July 27-29, 2010.

WEARING, H.J.
Eighth Annual Ecology and Evolution of Infectious Disease Conference and Workshop, National Science Foundation, Cornell University, Ithaca NY, June 2-9, 2010.


Annual Meeting of th American Society of Tropical Medicine and Hygiene, Atlanta GA, November 4-6, 2010.

WERNER-WASHBURNE, M.


Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Anaheim CA, September 30–October 2, 2010.


Drosophila Genetics Meeting, Chicago IL

WITT, C.C.

Designing Informative Indicators: A Workshop to Advance Interdisciplinary Geo-epidemiology, UNM, October 2010.

WOLF, B.O.
Annual Meeting of the Society of Integrative and Comparative Biology, Seattle WA, January 3-7, 2010.

D. Service as Editor of Scholarly Journal.

COOK, J.A.
International Advisory Board, Revista Brasileira de Zoologia, 2008–present.

LOWREY, T.K.
Madrono, November 1, 2009–September 1, 2011

MILLER, K.B.
Subject Editor, Proceedings of the Entomological Society of Washington
Subject Editor, Zookeys

NATVIG, D.O.
Inoculum (Mycological Society of America newsletter), September 1, 2010–present.

SMITH, E.A.
A subject editor, Ecology (Ecological Society of America).
An associate editor, Paleobiology (Paleontological Society)

SNELL, H.L.
Chair, Publications Committee, Museum of Southwestern Biology

STRICKER, S.A.
Associate Editor, Molecular Reproduction and Development

E. Service on Editorial Board of Scholarly Journal.

ADEMA, C.M.
Journal of Invertebrate Pathology (2010–present)

BROWN, J.H.
Evolutionary Ecology Research
Proceedings of National Academy of Sciences
COLLINS, S.L.
BioScience
Oecologia

CUNNINGHAM, C.
Developmental and Comparative Immunology

DAHM, C.N.
Associate Editor, Bulletin of the Geological Society of America
Editorial Review Board Member, Aquatic Ecology Series, University of California Press.

LOKER, E.S.
Journal of Helminthology

MILLER, R.D.
Editorial Advisory Board, Developmental and Comparative Immunology
Associate Editor, Immunogenetics
Associate Editor, Journal of Immunology

NELSON, M.A.
Associate Editor, Fungal Genetics and Biology

SINSABAUGH, R.L.
Associate Editor, Ecological Applications
Subject Editor, Soil Biology and Biochemistry

TAKACS-VESBACH, C.D.
Applied and Environmental Microbiology

THORNHILL, R.
Evolutionary Psychology
Proceedings of the Royal Society of London, Biological

TURNER, T.F.
Contributing Editor, Aquatic Biology

E. Service as Officer of Professional Organization (indicate whether Elected or Appointed).

ADEMA, C.M.
COLLINS, S.L.
Chair, ESA Publications Committee (appointed)
Chair-elect, Long Term Ecological Research (LTER) Science Council and Executive Board
President-elect, Ecological Society of America, beginning August 2011

COOK, J.A.
Board of Directors, American Society of Mammalogists, 2007–2010

DAHM, C.N.
Member, scientific advisory board, the Institut Catalonia Recherche Aqua (The Catalan Institute for Water Research; ICRA) in Girona, Catalonia, Spain (appointed).

Member, advisory board, the Delta Solutions Group of the Institute for Watershed Studies, University of California–Davis (appointed).

HANSON, D.T.
Vice-Chair/Chair, Gordon Research Conference on CO Assimilation in Plants, August 30, 2008–August 30, 2014 (elected).

Secretary, UNM Chapter of Sigma Xi, August 1, 2008–August 1, 2011 (appointed).

LOKER, E.S.
Elected Vice President (then President-elect, then President, then Immediate past President) of American Society of Parasitologists

MILLER, K.B.
Vice president elect, Entomological Society of America (elected)

POCKMAN, W.T.
President, Physiological Ecology Section, Ecological Society of America, 2011–2012 (elected September 2010).

Member, Meetings Committee, Ecological Society of America, four-year term ended in Spring 2010. (appointed)

Member (appointed) and co-Chair (elected), Network Information System Advisory Committee, Long Term Ecological Research (LTER) Network, January–December 2010.

Member, Executive Board Sub-Committee to Evaluate LTER Network Office Operational Plan, Long Term Ecological Research (LTER), January–April 2010. (appointed)

THORNHILL, R.
President, Human Behavior and Evolution Society (elected)
WERNER-WASHBURN, M.
Member, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)
Board of Directors, 2010 (elected)

Advisory Committee, Biology, American Association for the Advancement of Science

V. OTHER PROFESSIONAL ACTIVITIES.

A. Seminar Presentations, UNM and Elsewhere.

ADEMA, C.M.

Departmental seminar, Anti-Pathogen Responses in Biomphalaria glabrata, Department of Biology, UNM, November 2010.

BROWN, J.H.
Sutton Lecture Series, “Metabolism Is to Ecology as Genetics Is to Evolution,” Department of Zoology, Oklahoma University.

Global Ecology Seminar, Carnegie-Stanford Lecture, April 2010

COLLINS, S.L.
Two seminars, University of Wisconsin
Texas Tech University

COOK, J.A.
Presentation “Advocating for Animals,” UNM Freshman Learning Class.

Tour of DINE College Students from Shiprock and Tsailie.

Numerous school groups toured through collection (345 visitors total for 2010).

DAHM, C.N.
University of California–Riverside, Riverside CA, February 24, 2010

University of Nevada–Reno and the Desert Research Institute, April 9, 2010

University of Hokkaido, Sapporo, Japan, September 20, 2010

University of Girona, Girona, Catalonia, Spain, December 2, 2010

LITVAK, M.E.
School of Earth and Environmental Sciences (SEES), University of Arizona, October 2010.
LOKER, E.S.
A lecture on helminths of global public health concern, Global Health Program, UNM, January 14, 2010.

A talk on African schistosomiasis, Grand Rounds seminar on global health, UNM, January 21, 2010.

“Macroevolutionary Immunology,” Southeastern Louisiana University, Hammond LA, February 26, 2010.

MILLER, K.B.
Tenure promotion talk, UNM

MILLER, R.D.
“What the Platypus and Possum Teach Us about Evolution in the Immune System,” Brown Bag Seminar, Department of Biology, UNM, February 17, 2010.

The Miegunyah Distinguished Visiting Fellow Public Lecture, “Mammalian Immunity: What the Platypus and Possum Can Teach Us,” Department of Microbiology and Immunology, University of Melbourne, Melbourne, Australia, June 7, 2010.


“The Evolution of Atypical T Cell Receptors in Marsupials and Monotremes,” School of Biological Sciences, Flinders University, Adelaide, Australia, December 1, 2010.

NELSON, M.A.

SINSABAUGH, R.L.
“Microbial Community Function: Linking Metabolic and Stoichiometric Theory to Eicoenzymatic Activity,” Integrative Biology Section, University of Texas–Austin, November 11, 2010.


SMITH, F.A.


STRICKER, S.A.
University of Washington, September 2010

TAKACS-VESBACH, C.D.
Life in Extreme Environments, D. Northup’s Freshman Learning Community Class

TOOLSON, E.C.
Presentations of results of classified National Security-related research to representatives of U.S. governmental agencies, June and October 2010.

TURNER, T.F.
Instituto de Ecologia y Evolucion, Universidad Austral de Chile, Valdivia, Chile.

WEARING, H.J.

WERNER-WASHBURN, M.
Aging and Stationary Phase in Yeast, Buck Institute for Research on Aging, March 2010.

WITT, C.C.

WOLF, B.O.

Brown Bag Seminar, Department of Biology, UNM, September 22, 2010.

B. Testimony in a Scholarly Capacity at Hearings of Commissions, Legislative Committees, Etc.

DAHM, C.N.


NELSON, M.A.
Faculty Presenter, Board of Regents' Academic/Student Affairs and Research Committee, UNM, May 6, 2010.

SNELL, H.L.
Member, N.M. Department of Game and Fish Species Recovery Team for Boreal Toads.
Member, General Assembly, Charles Darwin Foundation for the Galápagos Islands, Galápagos.

WERNER-WASHBURNE, M.
Testimony at N.M. Legislature about the need to change the process of UNM regent selection.

C. Presentation to General Audience in a Scholarly Capacity.

LOWREY, T.K.

NELSON, M.A.
"Research Careers in Biology," Postbaccalaureate Research and Education Program (PREP), February 12, 2010

"Biomedical Research Careers," University Honors 222, February 17, 2010

"Is Your Life Predestined by Genes?", OASIS, Albuquerque, June 2, 2010

"The Human Genome," Albuquerque Philosophers Club, September 10, 2010

POCKMAN, W.I.

Hosted Biology students from Infinity High School, Belen, NM at U.S. Department of Energy-funded research site, Sevilleta Long Term Ecological Research (LTER), Socorro, NM, August 27, 2010.

SNELL, H.L.
TAKACS-VESTACH, C.D.

WEARING, H.J.
Informal public presentation and discussion about emerging infectious diseases and how mathematics is used to model infectious diseases, KNME Science Café, Corrales NM, December 18, 2010.

WERNER-WASHBURNE, M.
“What’s in Your Genome?”, Continuing Education, UNM.

Biology Freshman Orientation

WITT, C.C.

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.

ADEMA, C.M.
External Reviewer State Sea Grant, National Oceanic and Atmospheric Administration.

External Reviewer, National Science Foundation.

External Reviewer, Vector Biology Study Section (VB), National Institute for Allergy and Infectious Disease, National Institutes of Health.

Reviewer, Student Grant Proposals, Department of Biology, UNM.

Reviewer, Seed Program, Center for Evolutionary and Theoretical Immunology (CETI), Centers of Biological Research Excellence (COBRE), (NRCC/NIH), Department of Biology, UNM, 2010.

Judge, Oral Presentations, Annual Research Day, Department of Biology, UNM, April 1, 2010.

BROWN, J.H.
Board of Trustees, The Nature Conservancy of New Mexico

COLLINS, S.L.
National Science Foundation panel, July 2010

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COOK, J.A.

ad hoc reviewer National Science Foundation, 3 proposals

Research Coordination Networks (RCN) Panel Member, National Science Foundation, December 2010

CRIPPS, R.M.
Basic Cell and Molecular Biology 2 Study Section, American Heart Association

Ad hoc member, Development 1 (DEV1) Study Section, Center for Scientific Review, National Institutes of Health, February and September 2010.

CUNNINGHAM, C.
Member, Symbiosis, Defense and Self Recognition (SDS1) Panel, National Science Foundation
Ad Hoc for National Science Foundation (1)
Ad Hoc for U.S.D.A. (1)

DAHM, C.N.
Lead Scientist Reports (monthly presentations), Delta Stewardship Council, Sacramento CA, April–December 2010.

HANSON, D.T.
Grant Reviewer, National Science Foundation, 2010
Panel Member, National Science Foundation, 2010
Grant Reviewer, SWISS National Science Foundation, 2010

KODRIC-BROWN, A.
Member, Animal Behavior Panel, National Science Foundation, October 19-22, 2010

LOKER, E.S.
Member, Schistosomiasis Consortium for Operational Research and Evaluation (SCORE), funded by Bill and Melinda Gates Foundation, Harmonization Meeting, February 16-19, 2010.

LOWREY, T.K.
Grant reviewer, American Society of Plant Taxonomists, April 15, 2010.

NATVIG, D.O.
Community Sequencing review panel member, Joint Genome Institute, August 3, 2010–present.

POCKMAN, W.T.
Proposal review, Terrestrial Carbon Program, U.S. Dept of Energy (1)
Proposal review for Swiss National Science Foundation

SINSABAUGH, R.L.
Advisor, National Science Foundation-funded Enzyme Research Coordination Network.
Conducted tenure review for Christine Hawkes, University of Texas–Austin.
Conducted tenure review for Kevin Simon, University of Maine, Orono, ME.

SMITH, E.A.
Chair, Alfred Russel Wallace Award Committee, International Biogeography Society, 2006–present (appointed by last three presidents)

Ombudsperson, American Society of Mammalogists, 2002–present (appointed by last five presidents)

Reviewed numerous grants (12–20), National Science Foundation

Member, Science Advisory Board, National Center for Ecological Analysis and Synthesis (NCEAS). Meet twice a year to review proposals and administration of Center.

SNELL, H.L.
Board Member, Tierra Grande Improvement Association (organization that administers 15,000 acres of protected areas in southern Manzano Mountains, Valencia County) (elected).

STRICKER, S.A.
Reviewed grants for Wellcome Trust and Canada Agriculture.

TAKACS-VESBACH, C.D.

WAID E, R.B.

Long Term Ecological Research (LTER) Executive Board, 2006–present.


Executive Advisory Board, Earth and Sky (an international science radio program), radio and online, 2006–present.
Public Policy Committee of the American Institute of Biological Sciences. The LTER Network has a seat on this committee as a member of American Institute of Biological Sciences (AIBS).

WERNER-WASHBURNÉ, M.
Nominating Committee for American Association for the Advancement of Science (AAAS) Research Fellows; nominate 15 to 20 new fellows each year from all over the world.

WITT, C.C.
Reviewed 14 student grant proposals for Wilson Ornithological Society.

Reviewed two grant proposals for National Science Foundation.

Reviewer for Guidelines for the Use of Wild Birds in Research (Ornithological Council, 2010).

WOLF, B.O.
Tenure reviewer for The Ramon Science Center, Jacob Blaustein Institutes for Desert Research, Ben Gurion University of the Negev, Israel.

Grant reviewer for Fondecyt, Chile, and National Geographic Society

E. List Journals and the Number of Papers Refereed for Each in 2010.

ADEMA, C.M.
Animal Biology (1)
Cell and Tissue Research (1)
Comparative physiology and Biochemistry (CPB) (1)
The Egyptian Journal of Schistosomiasis, Infectious and Endemic Diseases (1)
Fish and Shellfish Immunology (4)
Journal of Invertebrate Pathology (5)
Memorias do Instituto Oswaldo Cruz (1)
Parasitology Research (1)
PLoS Neglected Tropical Diseases (NTD) (1)

BROWN, J.H.
Proceedings of National Academy of Sciences (editorial board) (200)

Reviewed five papers for five different journals

COLLINS, S.L.
African Journal of Range and Forage Science (2)
American Naturalist
Ecological Applications (2)
Ecology Letters (2)
Ecosphere
Global Change Biology (2)
Journal of Arid Environments (2)
Journal of Applied Ecology
Journal of Ecology (2)
New Phytologist
Oikos
PLoS One
Proceedings of the National Academy of Sciences
Progress in Physical Geography
Rangeland Ecology and Management
Science
Trends in Ecology and Evolution

Four National Science Foundation proposals.

COOK, J.A.
Evolution (1)
Journal of Mammalogy (1)
Molecular Ecology (1)

CRIPPS, R.M.
Developmental Biology (2)
Developmental Dynamics (1)
Fly (1)
Journal of Biological Chemistry (1)
Journal of Cell Biology (2)

CUNNINGHAM, C.
Annals of Tropical Medicine and Parasitology (1)
Developmental and Comparative Immunology (7)
Fish and Shellfish Immunology (7)
International Journal of Parasitology (1)
Journal of Invertebrate Pathology (1)
Molecular and Biochemical Parasitology (1)
PLoS Neglected Tropical Diseases (1)

DAHM, C.N.
Biogeosciences (1)
Ecological Applications (1)
Ecology (1)
Freshwater Biology (1)
Geological Society of America (2)
Restoration Ecology (1)
San Francisco Estuary and Watershed Science (1)

HANSON, D.T.
Acta Oecologia (2)
BMC Plant Biology (1)
Canadian Journal of Forest Research (2)
ISME Journal (International Society for Microbial Ecology) (1)
New Phytologist (2)
Plant, Cell and Environment (2)
Physiologia Plantarum (2)

KATJU, V.
BMC Evolutionary Biology (1)
Genes (1)
Genetics (1)
Genetics Research (1)
Genome Biology (1)
Molecular Biology and Evolution (2)
Science (1)

KODRIC-BROWN, A.
American Naturalist (3)
Animal Behavior (4)
Behavioral Ecology (2)
Environmental Biology of Fishes (2)
Ethology (3)
Evolution (2)
PLoS (1)
Proceedings of the Royal Society of London -Series B (4)
Science (1)

LITVAK, M.E.
Biogeosciences (1)
Ecosystems (2)
Global Change Biology (1)
Journal of Geophysical Research, Atmospheres (2)

LOWREY, T.K.
International Journal of Plant Science (1)
Madrono (3)
Systematic Botany (1)

MARSHALL, D.L.
Annals of Botany (2)
American Journal of Botany (2)
International Journal of Plant Science (1)
Sexual Plant Reproduction (2)

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MILLER, K.B.
Molecular Phylogenetic and Evolution (1)
Systematic Entomology (1)
Zootaxa (3)

MILLER, R.D.
BMC Biology (1)
BMC Genomics (1)
Developmental and Comparative Immunology (2)
Immunogenetics (2)
Journal of Immunology (2)
Journal of Interferon and Cytokine Research (1)
Proceedings of the National Academy of Sciences USA (1)
Veterinary Pathology (1)

NELSON, M.A.
Fungal Genetics and Biology (5)

POCKMAN, W.T.
Ecosystems (1)
Journal of Arid Environments (2)
New Phytologist (3)
Oecologia (2)

SINSABAUGH, R.L.
Aquatic Microbial Ecology (1)
Biology and Fertility of Soils (1)
Ecological Applications (5)
Ecology Letters (1)
Ecosphere (1)
Ecosystems (3)
Global Change Biology (1)
Marine Chemistry (1)
New Phytologist (1)
Oikos (1)
Soil Biology and Biochemistry (7)

SMITH, F.A.
Ecology
Nature Geoscience
Paleobiology
Public Library of Science
Science
I have been declining most review requests since becoming an (associate and subject) editor for two different journals.

SNELL, H.L.
*Herpetologica* (1)

STRICKER, S.A.
*Helgoland Marine Research* (1)
*Molecular Reproduction and Development* (6)

TAKACS-VESBACH, C.D.
*Applied and Environmental Microbiology* (2)
*Archaea* (1)
*Extremophiles* (2)
*International Society for Microbial Ecology Journal* (1)
*Microbial Ecology* (1)

Proposal Reviews: National Aeronautics and Space Administration; National Science Foundation; National Park Service

THORNHILL, R.
Many.

WAIDE, R.B.
*Biotropica* (1)
Cambridge University Press (1)
*Condor* (1)
*Forest Ecology and Management* (1)

WEARING, H.J.
*Bulletin of Mathematical Biology* (1)
*Journal of the Royal Society Interface* (1)
*PloS Neglected Tropical Diseases* (1)
*Proceedings of the National Academy of Sciences USA* (1)
*Vaccine* (1)

WERNER-WASHBURNE, M.
*Aging Cell* (1)
*Molecular Biology of the Cell* (1)
*PLoS* (2)

WITT, C.C.
*Condor* (1)
*Cotinga* (2)
*Journal of Field Ornithology* (1)
New Mexico Ornithological Society Bulletin (1)
Occasional Papers of the Museum of Southwestern Biology (1)

WOLF, B.O.
American Naturalist (1)
The Auk (1)
Biological Journal of the Linnean Society (1)
Comparative Biochemistry and Physiology (1)
Ecosphere (1)
Ibis (1)
Journal of Experimental Biology (1)
Madroño (1)
Oecologia (1)
Proceedings of the National Academy of Sciences of the United States (1 [20 pp.])

VI. NON-TEACHING UNIVERSITY, COLLEGE AND DEPARTMENT SERVICE.

A. Symposia, Workshops, Conferences, Etc. Sponsored, Hosted, Organized.

CRIPPS, R.M.

DAMM, C.N.
A Review of the Delta Fish Management Toolbox: organized with ~200 participants. The purpose of the workshop was to achieve a common understanding of the management tools available for implementing the U.S. Fish and Wildlife Service's (USFWS) biological opinion on the Coordinated Operations of the Central Valley Project and State Water Project (December 15, 2008), and National Marine Fisheries Service's (NMFS) biological opinion on the Long-Term Central Valley Project and State Water Project Operations Criteria and Plan (June 4, 2009), Sacramento CA, January 13, 2010

Independent Panel Review of the Vernalis Adaptive Management Plan: organized with ~120 participants. The Vernalis Adaptive Management Plan (VAMP) is a 12-year experiment-management program originally designed to provide protection for San Joaquin River migrating juvenile Chinook salmon equivalent to the protective measures in the 1995 Water Quality Control Plan for the San Francisco Bay/Sacramento–San Joaquin Delta Estuary (1995 Bay–Delta Plan). Although the 1995 Bay–Delta Plan has since been amended (it is now the 2006 Bay–Delta Plan), the protective measures have remained largely unchanged. The Delta Science Program assembled an Independent Review Panel consisting of national experts who reviewed VAMP documents prior to the meeting, participated in a discussion with the proponents, and provided an independent review of the science generated by the VAMP; and make recommendations for how this science should be used to inform changes to the 2006 Bay–Delta Plan, March 2-3, 2010, Sacramento CA.

Delta Science Program Workshop: OCAP (Operations Criteria and Plan) Integrated Review Workshop: organized with ~125 attendees. The purpose of the workshop was to inform
National Marine Fisheries Service's (NMFS) and USFWS as to the efficacy of the prior year's water operations and regulatory actions prescribed by their respective RPAs, with the goal of developing lessons learned, incorporating new science, and making appropriate scientifically justified adjustments to the RPAs or their implementation to support 2011 real-time decision making, Sacramento CA, November 8-9, 2010.

KODRIC-BROWN, A.

LOKER, E.S.
Environmental Advisory Council (EAC) Meeting, March, 2010

SINSABAUGH, R.L.
Co-organized a special Session, Linking Microbial Enzymes to Ecosystem Processes, for American Society of Limnology and Oceanography annual meeting, Santa Fe NM, June 6-10, 2010.

SMITH, E.A.
Organized and conducted two meetings of Integrating Macroecological Patterns and Processes (IMPPS), Research Coordination Network. This is a group of ~15 paleontologists and ecologists from around the world, who meet in Santa Fe, NM twice a year to work on common research projects, an edited volume (to be published by the University of Chicago Press), and the development of a virtual course in Macroecology to be taught with UNM as the lead institution.

STRICKER, S.A.

WERNER-WASHBURN, M.
Organized summer research symposium.

Hosted FlyBase Scientific Advisory Board meeting in NM

WOLF, B.O.
Session chair, Community Ecology session, Society of Integrative and Comparative Biology, Seattle WA, January 2010.

Session chair, American Physiological Society–Global Change and Global Science, Denver CO, July 2010.
B. Distinguished Departmental Visitors You Hosted.

**ADEMA. C.M.**
Michael R. Strand, Professor, Department of Entomology, University of Georgia

Jean-Marc Reichhart, Professor, Institut de Biologie Moléculaire et Cellulaire, Réponse Immunitaire et Développement chez les Insectes, Université de Strasbourg, France

Christine Coustau, Senior Scientist, UMR Interactions Biotiques et Santé Végétale, Interactions hôte/parasitoïde, CNRS Sophia Antipolis, Université Nice Sophia Antipolis, France

**BROWN, J.H.**
Richard Sibly, Ph.D., Professor, School of Biological Sciences, University of Reading, U.K.

**DAHM, C.N.**
Hydrology Working Group of the Long-Term Ecological Network (15 scientists from around the network chaired by Dr. Julia Jones from Oregon State University), Sevilleta Field Station, Socorro NM, November 5-7, 2010.

**HANSON, D.T.**
J. Chris Pires, Assistant Professor of Biological Sciences, University of Missouri–Columbia, Department Seminar Speaker, February 14, 2010.

**KATJU, V.**
Dr. Maurine Neiman, Department of Biological Sciences, University of Iowa

**LOKER, E.S.**
Dr. Michael Strand, University of Georgia, March 11, 2010

**SINSABAUGH, R.L.**
Katherine Suding, University of California–Berkeley, June 1, 2010

Mark Gessner, EAWAG (Swiss Federal Institute of Aquatic Science and Technology), Switzerland, June 4-6, 2010

**SMITH, F.A.**
Dr. Catherine Badgley, University of Michigan

Dr. William Karasov, University of Wisconsin

Dr. Paul Koch, University of California, Santa Cruz (19th Annual Research Day speaker)

Through the Program in Integrative Biological and Biomedical Science (PIBBS), we hosted an additional ~12 distinguished visitors.
TAKACS-VESEBACH, C.D.
Dr. Jill Mikucki, Research Assistant Professor, Geobiology, Environmental Studies Program, Department of Earth Sciences, Dartmouth College, Hanover NH, February 2010.

TURNER, T.F.
Christopher W. Taylor, Professor, Texas Tech University, September 2010 (seminar visit).

WERNER-WASHBURN, M.
Michael McCoss, University of Washington, Seattle

Bill Gelbarh, FlyBase faculty

The FlyBase Scientific Advisory Board (Sue Celniker, Brian Oliver, Kevin White, etc.) and FlyBase faculty: Tom Kaufman, Bill Gelbard and Nick Brown

WITT, C.C.
Dr. Robert Dudley, University of California–Berkeley, departmental seminar, April 22, 2010.

Dr. Ariel Rivas, Cornell University /N.M. Consortium, special seminar on Spatial Epidemiology, June 23, 2010.


C. Committee Service.

1. Departmental committees served on in 2010 (indicate chair with asterisk).

ADEMA, C.M.
Annual Research Day Organization Committee
Graduate Student Selection Committee
Molecular Cell Biologist Search Committee
New Graduate Student Orientation Committee

BROWN, J.H.
Graduate Student Selection Committee
Graduate Scholarship Committee

COLLINS, S.L.
Tenure and Promotions Committee (Chair, Spring 2010)
Biology Graduate Student Association (BGSA) Faculty Advisor, 2009–2010
SEEDS Chapter Faculty Advisor; helped to start a new SEEDS Chapter at Arizona State University

COOK, J.A.
Executive Committee, Museum of Southwestern Biology

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COUCH, L.
Graduation Committee

DAHM, C.N.
* Promotion and Tenure Committee

FARNSWORTH, P.A.
Annual Research Day Committee

FRIDRICK, C.O.
* Biology Graduation Committee (for Spring 2010 Convocation)

HANSON, D.T.
*Biology Honors
Cell and Molecular Faculty Search 2010
Greenhouse Committee
*Scholarships Committee

HOWE, K.A.
* Research Day Committee
Graduation Committee

KATJU, V.
Graduate Policy Committee (2009-2010)
Graduate Student Orientation (2009-2010)
Graduate Student Selection Committee, 2010-2011
Judge of proposals for Graduate Student Scholarships, Department of Biology, 2010

KODRIC-BROWN, A.
Biology Retention Analysis Committee, Fall
* Graduate Policy Committee
* Wednesday Brown Bag (Graduate Seminar) Committee
Tenure and Promotion Committee, Fall

LITVAK, M.E.
Annual Research Day Committee
Graduate Student Selection Committee

LOKER, E.S.
Space Committee
Tenure and Promotion Committee

LOWREY, T.K.
*Space Committee
MARSHALL, D.L.
* Greenhouse Committee (a big job this year due to construction of the new research greenhouse)
* Graduate Student Selection Committee, 2010–2011

MILLER, K.B.
Graduate Student Policy Committee
Museum Space Management Committee
Travel Policy Committee

MILLER, R.D.
* Graduate Student Selection Committee
Comparative Immunologist Faculty Search Committee

NATVIG, D.O.
Promotion and Tenure Committee

NELSON, M.A.
* Cell/Molecular Biology Faculty Hire Search Committee
* Salary Committee
Administrator II Selection Committee
PREP (Post-baccalaureate Research Education Program) Selection Committee

POCKMAN, W.T.
Salary Committee, Spring

SINSABAUGH, R.I.
Executive Board, Museum of Southwestern Biology
Tenure and Promotion Committee

SMITH, E.A.
* Graduate Student Scholarship Committee, 2010–2011
Graduate Student Selection Committee, 2009–2010
Annual Research Day Committee, 2009–2010

SNELL, H.L.
Executive Committee, Museum of Southwestern Biology
* Publications Committee, Museum of Southwestern Biology
Salary Committee, 2010–2011
Space Committee, 2010–2011
Tenure and Promotion Committee, 2009–2010

STRICKER, S.A.
Biology Building Oversight (met at least once per week)
SWAN, J.
Graduation Committee
Undergraduate Policy Committee

TAKACS- VESBACH, C.D.
* Seminars Committee
2010 Annual Research Day Committee

THORNHILL, R.
Scholarships Committee

TOOLSON, E.C.
* Undergraduate Policy Committee

TURNER, T.F.
Department Administrator Search Committee
Comparative Evolutionary Immunologist Faculty Hire Search Committee
* MSB Executive Committee
Space Committee
Tenure and Promotion Committee

WEARING, H.J.
* Biology Graduate Student Orientation (Biol. 500) (with Coen Adema)

WERNER-WASHBURNE, M.
Cell Biology Faculty Search Committee
Remodel 211 for Mentoring Facility: purchased 25 computers flow cytometry for student use in Biology labs.

WITT, C.C.
Graduate Student Selection Committee
Faculty Advisor, Biology Graduate Student Association (BGSA)
Field Programs and Vehicles

WOLF, B.O.
* Graduate Policy Committee

2. College/University committees served on in 2010 (indicate chair with asterisk).

ADEMA, C.M.
* Institutional Biosafety Committee (IBC)
COLLINS, S.I.
Executive Research Advisory Committee (ERAC), 2008–11; will become Chair of this committee in Fall 2011.

COOK, J.A.
President’s Strategic Advisory Team, presentation on MSB’s contribution to UNM research, teaching and service missions.

CRIPPS, R.M.
College Budget Discussion
College Performance Evaluation

CUNNINGHAM, C.
* A&S Tenure and Promotion Committee
Vice Chair, UNM Academic Freedom and Tenure Committee

FARNSWORTH, P.A.
Computer Use Committee, Office of the Provost/Vice President for Academic Affairs, UNM

KODRIC-BROWN, A.
Research Allocations Committee
Senate Graduate and Professional Committee

LOKER, E.S.
Chair, Chair Search, Department of Computer Science
The Executive Research Advisory Committee

LOWREY, T.K.
Faculty Committee on Governance
Faculty Senate Policy Committee

NELSON, M.A.
Member, Action Team for Science, Technology, Engineering and Mathematics (STEM)
Member, Steering Committee, Southwest Graduate Coalition Bridges to the Doctorate Program
UNM Advance Committee for Faculty Diversity in Science, Technology, Engineering and Mathematics (STEM)
Biochemist Search Committee, Chemistry and Chemical Biology Department

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POCKMAN, W.T.
Proposal Development Software Committee, January 2010. Committee appointed by UNM Office of Vice President of Research to review and select software for proposal development and routing; selected Cayuse 424 and participated in a roll-out announcement (see above).

SHANER, M.G.M.
Lecturer Promotion Committee

SNELL, H.L.
Member, Faculty Senate
Operations Committee, Faculty Senate, through June 2010
Past-President, UNM Faculty Senate, July 1, 2009–July 1, 2010

TURNER, T.F.
Arts & Sciences Council of Chairs and Directors
UNM Museum Collections Committee
UNM Museum Studies Committee
UNM Representative Colorado Plateau Cooperative Ecosystems Study Unit

WADE, R.B.
Chairs and Directors Council
College ad hoc Committee on IT
Research Allocation Committee

WEARING, H.J.
B.A./M.D. Curriculum Committee
Programs in Biomedical and Biological Sciences (PiBBS) Advisory Panel

WERNER-WASHBURN, M.
Center for Biomedical Engineering Director Search Committee
Chemistry Search Committee

WOLF, B.O.
Animal Care and Use Committee

D. Other.

HANSON, D.T.
Participated in a Research Ethics seminar.

SMITH, F.A.
Served as a poster judge for 19th Annual Research Day, Department of Biology, UNM.
WERNER-WASHBURRE. M.
Nominated Luminaria Awards for custodians and a graduate student, nominees won.

WITT, C.C.
Maintained the Museum of Southwestern Biology’s (MSB) responsibilities under a five-year Convenio that I established in 2007 between the MSB and the Centro de Ornitología y Biodiversidad, Lima-Peru:

“Convenio de Cooperacion Inter-institucional entre “El Centro de Ornitología y Biodiversidad” (Corbidi) Lima, Peru, y “The Museum of Southwestern Biology, University of New Mexico,” Albuquerque, Nuevo Mexico, E.E.U.U., para Desarrollar la Investigación en las Adaptaciones de las Aves Silvestres a las Condiciones de los Altos Andes.”

WOLF, B.O.
Faculty sponsor, Biology Undergraduate Society (BUGS)
Coordinator for the Searchable Ornithological Research Archive (SORA)

VII. ADVANCED STUDY AND NEW SCHOLASTIC HONORS, FELLOWSHIPS, ETC.

MILLER, R.D.
The Miegunyah Distinguished Visiting Fellowship, University of Melbourne, Melbourne, Australia, for the 2010 academic year.

POCKMAN, W.T.
Appointed Regents Lecturer, UNM, Fall 2010–Spring 2013.

WERNER-WASHBURRE. M.
Received a medal from American Society for Cell Biology for the E.E. Just Award.
Outstanding All-around Faculty of Color from Peer Mentoring for Graduate Students of Color, UNM

VIII. SABBATICALS, LEAVES OF ABSENCE, SUMMER TEACHING ELSEWHERE, TRAVEL, ETC. DURING THE PERIOD.

ADEMA, C.M.
Teaching release due to hire as associate faculty, Fall

CHARNOV, E.I.
Sabbatical leave, Fall 2010 and Spring 2011.

COLLINS, S.L.
Sabbatical leave, Fall 2010 and Spring 2011.
DAHM, C.N.
Currently, on loan to the U.S. Geological Survey full time July 2008–June 2010 and half-time July 2010–June 2011 to serve as the lead scientist for the Delta Science Program (formerly, the CALFED Science Program), part of the Delta Stewardship Council. Our mission is to provide the scientific information for resource management and decision-making for the California Delta, the hub of the water supply for the State of California.

HOFKIN, B.V.
Taught Biol. 402, Microbiology of History and the History of Microbiology, at the UNM Rome Study Center, Rome, Italy, Spring 2010. Also completed my textbook, Living in a Microbial World, (Garland Science, 2010, 496 pp) during this time.

LITVAK, M.E.
Teaching release, Spring 2010 (post third-year review teaching release).

MILLER, K.B.
Traveled to: Costa Rica (two weeks); Mexico (two weeks); Nicaragua (two weeks); Smithsonian Institute, Washington, DC (two days).

MILLER, R.D.
Sabbatical Leave, Fall.

NATVIG, D.O.
Sabbatical Leave, Spring semester

SNELL, H.L.
Sabbatical leave, Spring
Field work in Nevada, Colorado, Arizona and California.

STRIKER, S.A.
Sabbatical Fall 2010:
I conducted my sabbatical research at the University of Washington’s Friday Harbor Laboratories on San Juan Island, WA. During the sabbatical, I accomplished the following:

- Hosted an international symposium on “Mechanisms of Egg Maturation and Fertilization: From Sea to Land,” Friday Harbor Laboratories, September 10-12, 2010 (55 attendees—approximately one-half from Japan, Europe and Canada, the other half from various U.S. universities and research institutes).
- Co-wrote (with J. R. Escalona) and submitted (October 2010) an invited chapter on “Immunoblotting Analyses of Changes in Protein Phosphorylations during Oocyte Maturation in Marine Nemertean Worms.”
- Began co-editing ~15 chapters for a book on “Developmental Biology of Sea Urchins and other Marine Invertebrates” for Humana Press. (Editing to be completed during 2011).
• Conducted research and submitted an article (December 2010) to the journal *Reproduction* entitled “Potential upstream regulators and downstream targets of AMP-activated kinase (AMPK) during oocyte maturation in a marine worm.”
• Began writing an invited review article on: “Comparative biology of cAMP-induced oocyte maturation in marine jellyfish and nemertean worms,” to be submitted by the end of March to *Molecular Reproduction and Development*.

TAKACS-VESBACH, C.D.
Taught LRES 557, Thermal Biology in Yellowstone National Park, 2 credits, Montana State University, Billings MT, July 2010.

TURNER, T.F.
Traveled to Valdivia, Chile, Universidad Austral de Chile, Collaborative Research/Consulting in southern Chile, looking for an IGERT partnership with Museum of Southwestern Biology. Professional Seminar Presentation, November 2010.

WERNER-WASHBURN, M.
Sabbatical leave, Spring

WITT, C.C.
Led and/or coordinated eight separate field expeditions to remote areas of Peru, totaling 5.5 months.

IX. PUBLIC SERVICE.

COLLINS, S.I.
Member, Rapid Response Team, Grassland Ecosystems, Ecological Society of America, 2004–present.

COOK, J.A.
Numerous responses to the general public related to natural history and conservation of mammals. More than 25,000 web page hits to the Museum of Southwestern Biology’s Division of Mammals website.

COUCH, L.
Volunteer Firefighter and EMT for Sandoval County Fire Dept.

DAHM, C.N.
Lead Scientist, Delta Science Program, Sacramento CA

HOFKIN, B.V.
Continued to write, produce and air “Today’s BioCast,” underwritten by UNM Department of Biology, and aired on KANW, 89.1FM, on Tuesdays, Wednesdays and Thursdays. Note: Program was on hiatus while I was teaching in Rome (January–May 2010).

K-130
LOKER, E.S.

SMITH, E.A.
Numerous interviews and news articles about 2010 Nature Geoscience and Science papers, including live and tapped radio and video broadcasts for the National Science Foundation, National Broadcasting Radio, Earth and Sky Radio, the Canadian Broadcasting Corporation, the British Broadcasting Corporation (BBC), and the Nationwide German public radio (Deutschlandfunk) and the German BBC (www.dradio.de/dlf/sendungen/forschak/) network. To date, more than 400 print articles appeared including New York Times, CBS Online, London Daily Telegraph, BBC World News, USA Today, Discovery News, National Geographic News; Christian Science Monitor; LiveScience.Com (syndicated); Der Spiegel; GeoTimes Magazine; Agence Press, Cosmos Magazine, India Express; Conozca Más, NPR, Taipei Times; The Australian; Muy Interesante Magazine, Seattle Times; Albuquerque Journal, Scientific American, Science Daily, Science Live, Yale Daily News, Discovery Channel, Folha de S. Paulo (Brazil’s largest circulation daily newspaper), Västerbottens-Kuriren (Swedish Magazine), videnskab dk (Danish News Magazine), Science News, and New Scientist Magazine.

Taped radio interviews for EarthSky, CBC Radio One show “As it Happens”, BBC World Service World Today programme, Deutschlandfunk, Redaktion Forschung aktuell (German public radio) and other venues, November–December 2010.

Taped studio interview, “A Mammoth Amount of Methane” for the Canadian Broadcasting Corporation science show Quirks and Quarks, June 2010.

Taped studio interview, “Vernachlässigte Blühungen: Bereits vor 13.000 Jahren bewirkten Menschen indirekt Klimaveränderungen” for the Nationwide German public radio (Deutschlandfunk) and the German BBC (www.dradio.de/dlf/sendungen/forschak/) network, June 2010.

Filmed interviews for BBC’s Horizon documentary program on Pleistocene fauna and rewilding on location in Pryor Mountains of Montana, October 2010.

Filmed an interview for National Science Foundation; podcast was posted on the main page of the NSF website in November 2010.


SNELL, H.L.
Work with Environmental Health Division on Urban Biodiversity, Albuquerque NM

Work with Whifffield Wildlife Conservation Area, Belen NM

Mapping Trails and Natural Resource Distributions, Manzano Mountains, Mountair Ranger District, Cibola National Forest, Valencia & Torrence Counties
Member, N.M. Department of Game and Fish Species Recovery Board, Santa Fe and Albuquerque, NM

Board Member, Tierra Grande Improvement Association, Valencia County, NM. Organization oversees 15,000+ acres of protected natural habitat in the southern Manzano Mountains (elected).

Work with the New Mexico Mountain Club to promote wilderness activities throughout New Mexico.

THORNHILL, R.
Advisor, New Mexicans for Science and Reason
Gene research talks to sixth-grade science classes at Lincoln Middle School, Rio Rancho, NM.

TURNER, T.F.
Member, Gila Trout Recovery Team, U.S. Fish and Wildlife Service, 2010


WERNER-WASHBURN, M.
Organized summer research symposium.

Hosted FlyBase Scientific Advisory Board meeting in N.M.

WITT, C.C.
Curatorial contributions to Museum of Southwestern Biology (MSB): more than 2,000 new specimens.

Endowment fund-raising for MSB Birds: more than $50,000 raised.

Popular science talks and articles (see above).

Popular press coverage of scientific publications (see above).

Tours and visits to MSB Bird Division (as per above).

Albuquerque Journal article on grad student Phred Benham and the campus birding competition.

WOLF, B.O.
R.C. Chapa Kunm FM 89.9 Radio Show, participant with D. Forte, E. Titus and O. Simpson on Water, Climate Change and Energy Policy, 8:00-9:00 a.m., April, 29, 2010.

2010 Annual Report
Museum of Southwestern Biology

September 2011
# Museum of Southwestern Biology
## Annual Report for 2010

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MSB Director's Summary
Thomas F. Turner, Director and Curator of Fishes

Executive Summary

This report summarizes activities in the Museum of Southwestern Biology that consists of 10 Divisions and where seven faculty members from the Department of Biology and two non-faculty curators have developed nationally and internationally recognized curatorial programs. Most of the activities are reported during calendar year 2010, but information up to July 2011 is also reported. The Directorship of the MSB transferred from Professor and Curator Thomas Turner to Professor and Curator Joseph Cook beginning in August 2011. In early 2011, the MSB was able to hire two senior collection managers, one in the Herbarium and one in the new Division of Parasitology. This reporting period was also marked by outstanding performance in obtaining grant support for collection improvement and collections-based research and student training. Three NSF Biological Research Collections Improvement grants (Arthropods, Mammals, Parasitology) were active or funded during this time, with total amounts exceeding $1 million. In addition, two NSF-sponsored student training and education exceeded $1.5 million in total revenues. Finally, there was over $1 million in new and in-force NSF-sponsored research grants in systematics and ecology. Total in-force grants and contracts for the entire MSB exceeded $10 million. These grants provided significant leverage to secure funding for new fluid collection space in CERIA 125, and renovation funds for dry collections/microscopy space on the first floor of CERIA. Metrics for 2010 that record growth and activity of the MSB exceeded four-year averages in the following areas: (i) the number of loans granted, (ii) the number of database web hits, (iii) the number of peer-reviewed publications by MSB staff, (iv) the number of undergraduate curatorial assistants trained, and (v) the total amount of estimated F&A generated. The number of professional visitors to the collections declined in 2010, perhaps due to economic constraints on travel. Although enormously successful, the MSB faces significant challenges to future growth that include: (i) critical shortages of adequate collection space and I/T staff support, (ii) low core operating budgets from some Divisions, (iii) and lack of recognition of or compensation for significant duties of MSB faculty curators. Despite the worst economic downturn in 50 years, the MSB remains a secure and vital part of the Department of Biology, the College of Arts & Sciences, and the University of New Mexico.

Narrative

As of December 31st 2010, I completed three and one-half years as Director of the Museum of Southwestern Biology (MSB), and as of this writing in September 2011, I have completed my four-year term as Director that began in July 2007. Professor Joseph Cook, Curator of Mammals and Interim Curator of Genomic Resources was elected by unanimous vote of the MSB Executive Committee to succeed me as Director, and based on that vote, I sent a strong endorsement and recommendation to the College of Arts and Sciences Dean Brenda Claiborne and Associate Dean for Research Philip Ganderton to appoint him to the directorship at the end of my term. This was done, and we have been working together since July 2011 to transition the directorship.
During my tenure from 2007 to 2011, the MSB has made major strides in securing resources necessary to ensure the wellbeing of the collections and museum-based biological sciences at UNM. Nine of our ten divisions now have permanent collection managers and this is a major factor in our continued success as a unit. We have adopted a cohesive operational model among Divisions, as demonstrated by several major cross-divisional initiatives that have been implemented, are underway (i.e., NSF BRC for the Robert Rausch Collection in the new Division of Parasitology in collaboration with the Division of Mammals) or are planned (a Major Research Instrumentation grant for a microscopy/digital imaging system). However, curators retain autonomy of their respective collections and archives. I believe is the most effective model for the MSB because it best serves the constituencies (students, researchers, etc.) of each MSB Division. The downside of this model is that it reduces flexibility in terms of use and allocation of ever-diminishing resources, especially space. Space constraints are largely due to remarkable growth and vitality of the Divisions of the MSB as a center for study of biological diversity of New Mexico, the southwestern US, Latin America, and the world, and we will have to deal with space shortages as a museum in the very near future.

At the beginning of my directorship in 2007, the entire MSB community met to set some goals and identify objectives that we would like to accomplish together during my term. Below, I recap these objectives and the progress (or not) that was made toward meeting them:

1. **Obtain funding for building management and an information technology and computer systems specialist for the MSB.** We were not able to secure a full-time building manager position for the MSB. However, the Department of Biology and the MSB jointly hired a part-time position, Mr. Kevin Judd, who is directly supervised by John Cox in Biology. The justification for this position included needs in the MSB, and Mr. Judd works up to 10 hours per week in the MSB mostly on special projects. For example, Mr. Judd was instrumental in preparation for new casework in the Arthropod collection as part of the NSF-funded collections improvement grant there. Building management duties currently are performed by the MSB Administrator, Collection Managers, and work is typically performed by Mr. Judd, private contractors, PPD Area 4, or museum staff depending on the job.

The MSB is a complex facility that encompasses collection and archive storage space, electronic data storage and dissemination infrastructure, preparatory laboratories for specimens, ultracold freezer facilities, and classroom space. A number of major construction/repair projects were completed over the last four years. Major MSB-related projects include construction of a dermestid beetle colony atop Castetter Hall (completed in 2008, cost roughly $100 K), enhanced security of loading dock and gate repair (cost unknown), repair and sealing of a major leak on the 2nd Floor of CERIA (completed in 2009, costs roughly $5K via UNM Insurance), installation of heavy-duty specimen tank shelving in CERIA 145 (completed in 2009, costs roughly $20K), fire-marshals compliance costs for CERIA 145 (ongoing), electrical costs associated with power outages in 2008 and 2011, security card access to CERIA switched from C-Cure to Lobocard system (costs unknown), and substandard flooring was replaced throughout the building in 2011 (costs unknown). Because CERIA was remodeled from the old UNM Bookstore, and because of substandard contracting during critical phases of remodel, the
building will continue to suffer from systemic and chronic (e.g., HVAC, electrical) problems that are difficult to solve. For example, we have lost four ultracold freezers in the Division of Genomic Resources since 2007 at a replacement cost of over $35,000. This is unsustainable and puts an internationally significant and irreplaceable collection at risk of total loss. The new Director, Joe Cook, has made it a top priority to secure a liquid nitrogen facility that will substantially enhance the long-term viability and persistence of the Genomic Resources collection.

2. Activate and grow an internationally recognized repository and research infrastructure for host-parasite interactions. The MSB Division of Parasitology was established in January 2008 with a substantial donation of specimens from the Robert Rausch collection and ongoing research initiatives at UNM (e.g., Beringian Coevolution Project, Center for Evolutionary and Theoretical Immunology), and support of the MSB Executive Committee, the Chairman of Biology, and the A&S Dean’s Office. When it was formed, we envisioned that the Division of Parasitology would be an international resource for systematics, taxonomy, identification, ecological and epidemiological research in parasitology and hosts. The Division represents development of new capacity in the MSB to address current and emerging challenges to science and society. The Division of Parasitology hired a new Senior Collection Manager, Dr. Sara Brant, in January 2011. With this demonstrated state support, Drs. Joe Cook, Sam Loker, Gordon Jarrell and I, in collaboration with Drs. Eric Hoberg and Sara Brant, were able to compete successfully for an NSF-supported Biological Research Collections Grant ($490,000 total costs) to obtain, triage, and electronically capture the Robert and Virginia Rausch Collection and Archives of over 150,000 specimen containers and slides. This funding helped develop the Division while simultaneously offering an opportunity to preserve and maintain one of the largest private collections of helminth parasites in the world. This award also provided significant leverage for renovation monies associated with CERIA 125 and new dry collection/microscopy space for the MSB.

3. Develop new fluid collection space to help alleviate a critical shortage. In 2010, we were able to secure a commitment from UNM Administration to completely renovate CERIA 125 as small-volume fluid collection space, including compactorized shelving and fire protection and alarms. Plans for CERIA 125 renovation were completed early in 2009 in consultation with Mark Manzutto from UNM and an engineering team from Hensley Construction in Albuquerque. Fluid collection space renovation has been rolled into another planned renovation of dry collection/microscopy space on the 1st floor of CERIA. Construction awaits user input, final plan approval, New Mexico State Fire Marshal approval, and pricing of the jobs. We anticipate completion by December 2012, under Dr. Cook’s directorship.

4. Work to more fully integrate Natural Heritage New Mexico into the MSB. During my directorship, I attempted to integrate Natural Heritage New Mexico Program (Heritage) more fully into the operations of the MSB in two ways. First, we made the case to UNM Administration that Heritage had been funded directly through the New Mexico State Legislature via appropriation to the Research Projects and Special Projects (RPSP) allocation for nearly 20 years. Roughly $1.5 million has been appropriated since that time. This funding is critical to support the Heritage Director and Database Manager to perform tasks related to serving state agencies with data to inform conservation and management actions. This money also serves as matching funds for federal grants and
contracts. At the time of initial appropriation, sponsoring legislators made it clear that Heritage should and would be more fully integrated into UNM and that this financial obligation should be phased in as legislative support diminishes. We has suggested that UNM work on a plan to phase in core staff support for the Heritage Director and Database Manager – which is consistent with core staffing of all other MSB Divisions. The economic downturn made it nearly impossible to get this done. In 2010, Dr. Este Muldavin (Heritage Director) and I began working with Mark Saavedra and Tanya Giddings in UNM government relations to stem legislative cuts to Heritage, and to help develop a legislative memorial action to authorize the Heritage Program for continued legislative funding.

We also attempted to secure new MSB space in CERIA when a rumor surfaced of the imminent departure of the Cinematic Arts Department to the Mesa del Sol development south of campus. For economic and other reasons this did not happen. The rationale was to move Heritage from its current location in Marron Hall to CERIA to help build additional collaboration and integration into the MSB. Heritage remains in Marron, but is proactive in seeking collaboration with other Divisions of the MSB.

5. Work to develop and establish integrated online database systems for all Divisions of the MSB. Electronic dissemination of MSB data associated with the collections is increasing at a rapid (if not exponential) pace and nearly all collections have an online presence. However, one model does not fit well for all Divisions. As a matter of the principle of curator autonomy, it is not the purview of the Director to initiate a single system by decree. Therefore, two platforms are currently in use: the ARCTOS platform by Birds, Mammals, USGS, Parasitology, and Genomic Resources; and the SPECIFY platform used by Arthropods and the Herbarium. The Division of Fishes is planning to adopt the ARCTOS platform and is submitting a collaborative NSF-sponsored to complete georeferencing and to initiate online dissemination of collection data. It is likely that unification of the ARCTOS and SPECIFY will happen as the online museum community matures, so in the end, one system may ultimately be used by all Divisions by default.

6. Continue working to support and develop support for education of undergraduate and graduate students. One of the considerable strengths of the MSB is our focus on hands-on education and training of students at all levels from undergraduates to post-doctoral students. Each division trains students in natural history, biodiversity, specimen curation, database operations, georeferencing, and a number of other highly marketable skills. Many, if not most of our students end up going to graduate or professional school or obtaining jobs in conservation and management agencies in state and federal positions. We have two museum-centered programs that focus on student success: the Undergraduate Nurturing Opportunities (UnO) Program and the AIM – UP! Program, both directed by Dr. Joe Cook and funded by the National Science Foundation. The latter program is a planning grant to develop ways to better integrate museum specimens, archives, and databases into undergraduate courses. Both of these programs is enormously successful, but the UnO program stands out as a program that leads to high retention and graduation rates, and successful placement of our students in graduate school or professional scientific positions following their undergraduate studies. Full details about the UnO program can be found at http://msb.unm.edu/UnO/education.html.
Beginning in 2008, we assembled a team of UNM faculty researchers who were interested in developing a museum-centered graduate training proposal aimed at documenting and understanding how abiotic and biotic systems change from molecular to ecosystem scales called MSB-IGERT, with the intention of submitting a proposal to the NSF-sponsored Integrative Graduate Education Research and Training (IGERT) program. We identified three major underlying research areas: (i) identifying and understanding relationships of environmental change and host-pathogen interactions focusing both on human and wildlife diseases (ii) using museum collections to uncover evolutionary and ecological change in biota that results from landscape and water use and global climate change in the American Southwest over decadal time scales and (iii) developing informatics and modeling approaches to both create and use integrated relational databases that link specimens, environmental, molecular and geographic information. Although the MSB-IGERT pre-proposals submitted in 2008 and 2010 reviewed very well, the full proposals were not selected for funding in either case. Although tabled for the time being, there is considerable support among MSB curators for another attempt at an IGERT proposal in the near future.

7. Improve support for, security, and funding for MSB collections. Reports from MSB Divisions reflect uniformly high curatorial and academic standards of the museum staff. The security of the MSB as a repository is much stronger now than when the collections were housed in Castetter Hall, and UNM as a whole has recognized the value of museums through the development of collections policy and formation of a university-wide Museum Council. However, specimen security, adequate and sufficient housing for collections, and space accommodation for future collections growth remain a major concern at the MSB. Divestment in higher education in New Mexico (and the nation), a trend which began in 2007 and became more severe in 2009 and 2010, also is a threat to the security of the collections.

The state-funded operational budget for the Museum of Southwestern Biology is $53,000 for collections care, curation of new material, databasing, etc. This money is allocated to Divisions at the beginning of the state fiscal year, and does not include salaries of the Collection Managers and Museum Administrator. There is considerable disparity among divisions in operating funds. Among the best supported divisions are Mammals, the Herbarium, Fishes, and Amphibians and Reptiles, and beginning in 2010 (as part of a retention deal), Arthropods. Budget increases in these divisions have usually been negotiated as part of grant proposal packages that have a large curatorial component. The Divisions of Birds and Parasitology are inadequately supported with operating budgets that are $3000 and $2000 (completely from returned F&A), respectively, for the entire year (not including a 1% university-imposed tax to support computerization of contract and grant accounting, etc.). In general, total allocations to the MSB have remained static and have not kept pace with inflation over the last four years despite rising costs of curation, shipping, and electronic infrastructure and maintenance and ever-increasing regulatory compliance requirements from federal, state, and UNM agencies.

Retention and Hiring of MSB Staff - Over the last four years, the economic situation of the country, the State of New Mexico, and UNM has been among the worst in modern history and yet the MSB has managed to grow in the net number of state supported lines. I believe this speaks volumes for the support the MSB has gained from
the University, the College of Arts & Sciences, and the Department of Biology who recognize that the MSB serves a critical function to UNM’s mission. When I began my directorship in 2007, the MSB was staffed with faculty curators in eight of nine divisions with two new faculty/curator lines in Arthropods and Birds, which put us in an unprecedented position of strength and potential for growth of collection-based science at UNM. However, our administrative position in this newly revitalized unit was not permanent, but rather funded by “cannibalizing” a graduate curatorial assistant position and through overhead return to Biology, the MSB, and the College of Arts and Sciences (A&S). We were able to convert our Museum Administrator position to a state-supported line beginning in 2008 and restore the GA line to the MSB. Likewise, the Division of Birds had never had a permanent collection manager. With considerable funding from a private donor and support of the UNM President’s office, we were able to secure a full-time, state-supported collection manager for the Division of Birds from a somewhat recalcitrant A&S Dean’s office.

UNM has always been vulnerable to raids on our faculty from other institutions, and the MSB is no exception. We were able to successfully retain two faculty curators during my tenure with the help and support of the Biology Department, especially Chairman Richard Cripps, and the College of Arts & Sciences, especially Philip Ganderton, Associate Dean for Research.

Finally, in 2010, when the fiscal crisis was at its worst, the Herbarium’s long-time collection manager, Jane Mygatt, retired and a newly created Division of Parasitology was in desperate need of a collection manager. We were able to argue, based on considerable resources generated from external funds (e.g., the CETI award to Sam Loker) and with strong community support (from the Land Commissioner and State and Federal Representatives garnered by Tim Lowrey) that these positions be rehired. Early in 2011, Phil Tonne and Dr. Sara Brant were hired as Senior Collection Managers of the Herbarium and the Division of Parasitology, respectively. Apart from a permanent UNM commitment to the New Mexico Natural Heritage Program and appropriate compensation for faculty curators, the MSB is now fully staffed with permanent state supported lines.

8. Gain recognition for faculty curator workloads and obtain appropriate compensation for curatorial work during the academic year and the summer. In December 2007, the entire faculty of the Biology Department unanimously ratified a document entitled “Codifying Responsibilities for MSB Curators” which lays out the expectations and duties of faculty curators in the MSB. In 2010, the UNM Board of Regents approved policy 6410. These actions constitute important recognition that curators have duties that exceed the normal responsibilities of UNM Biology Department Faculty members. Over the course of my directorship, I met repeatedly with the chairman of Biology and the Dean of Arts and Sciences to consider reallocation of duties and summer compensation to rectify this situation. It is past time for the University to recognize and appropriately compensate faculty curators for their work. This has been made a top priority by Dr. Cook.

Museum and Collection Development: University-wide Activities

The MSB Director is a member of the University Collections Committee as stipulated by UNM Policy 6410 entitled “Museums and Collections” in the University
Business Policies and Procedures Manual. Adoption of this policy by the Board of Regents in January 2010 was a landmark that established UNM’s permanent commitment to and professional standards for its collections and recognizes the responsibilities and roles of University of New Mexico (UNM) museums and collections “to increase knowledge, understanding, and appreciation of the physical, cultural, and biological world by collecting, maintaining, researching, and interpreting material objects and the contextual data associated with them”. The policy clearly defines obligations of Curatorial staff, UNM Regents, the UNM President and Provost, and Cognizant Unit Heads (i.e., Deans) for adequate housing, care, dissemination and interpretation of these objects in perpetuity. It also defines standards for making these objects accessible and available to the scientific community while preserving the integrity and quality of the specimens through active stewardship. MSB Policy (found at http://msb.unm.edu) is consistent with, although much more detailed than, this more general guiding document.

**Progress on a UNM Museum Studies Program.** The MSB, in collaboration with the Maxwell Museum of Anthropology [lead], Meteoritics, and UNM Art Museums, continued to make progress on development of a graduate (MS-granting) Museum Studies Program since 2007. As of September 2011, program and curriculum forms have passed review by the UNM Registrar, the Office of Graduate Studies, the Fine Arts and A&S curriculum committees, the UNM Faculty Senate Curriculum Committee, and a full Faculty Senate Vote. The proposal awaits ratification of the UNM Board of Regents and the New Mexico Commission on Higher Education. Courses associated with the Museum Studies Program have been approved by the Faculty Senate, and a faculty coordinator for the Museum Studies Program will be hired by Spring Semester 2012. The program will be housed in the Hibben Center of the Department of Anthropology and Maxwell Museum of Anthropology. We anticipate the first Museum Studies students to arrive in Fall 2012.

**MSB Productivity in support of UNM’s Mission**

In 2010, the MSB made substantive contributions to the education, research, teaching, and service mission of the University of New Mexico. A 6-year compilation of metrics shows that 2010 was an above-average year for performance in terms of loans granted, publications generated, undergraduate students trained, and F&A returned. The metrics in the table below were counted from Divisional reports over the last six years. A description and context for each metric is listed below the table and specific details about metrics can be gleaned from Divisional reports for 2010 in subsequent chapters of this report.

**Table 1.** Metrics tracked over the last four years in the Museum of Southwestern Biology. These metrics were chosen by consensus at a museum-wide retreat in 2007. Numbers are compiled from Divisional reports (2010 included in this document, other annual reports are available upon request or at http://msb.unm.edu).
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<th>2009</th>
<th>2010</th>
<th>Average Last Four Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Collection growth (Specimens Cataloged)</td>
<td>392509</td>
<td>389144</td>
<td>136248</td>
<td>301268</td>
<td>304792</td>
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<tr>
<td>2. Loans Out</td>
<td>122</td>
<td>125</td>
<td>128</td>
<td>167</td>
<td>136</td>
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<tr>
<td>3. Professional Visitors to the Collections</td>
<td>795</td>
<td>795</td>
<td>953</td>
<td>692</td>
<td>809</td>
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<tr>
<td>4. Collection Database Web Site Hits</td>
<td>NR</td>
<td>51287</td>
<td>319745</td>
<td>298360</td>
<td>223131</td>
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<tr>
<td>5. RFIs Answered in Person</td>
<td>1167</td>
<td>1196</td>
<td>1355</td>
<td>1214</td>
<td>1233</td>
</tr>
<tr>
<td>6. Outside Publications Citing MSB Specimens</td>
<td>53</td>
<td>60</td>
<td>68</td>
<td>61</td>
<td>61</td>
</tr>
<tr>
<td>7. Peer-Reviewed Publications by Divisional Staff</td>
<td>48</td>
<td>54</td>
<td>79</td>
<td>72</td>
<td>63</td>
</tr>
<tr>
<td>8. Technical Reports</td>
<td>37</td>
<td>30</td>
<td>24</td>
<td>29</td>
<td>30</td>
</tr>
<tr>
<td>9. UNM Courses using the Collection</td>
<td>23</td>
<td>22</td>
<td>25</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>10. UNM Courses taught by Divisional Staff</td>
<td>21</td>
<td>22</td>
<td>24</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>11. Graduate Students</td>
<td>36</td>
<td>35</td>
<td>51</td>
<td>39</td>
<td>40</td>
</tr>
<tr>
<td>12. Graduate Theses/Dissertations</td>
<td>8</td>
<td>8</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>13. Undergraduate Students</td>
<td>54</td>
<td>54</td>
<td>91</td>
<td>102</td>
<td>75</td>
</tr>
<tr>
<td>14. Grants/Contracts in Force</td>
<td>·87</td>
<td>98</td>
<td>94</td>
<td>98</td>
<td>94</td>
</tr>
<tr>
<td>15. Grants In Force Total Costs</td>
<td>$9,825,425</td>
<td>$9,444,626</td>
<td>$11,239,035</td>
<td>$10,741,063</td>
<td>$10,312,537</td>
</tr>
<tr>
<td>16. Estimated F&amp;A return</td>
<td>$1,186,838</td>
<td>$1,449,793</td>
<td>$2,141,328</td>
<td>$2,601,398</td>
<td>$1,844,839</td>
</tr>
</tbody>
</table>

NR – not reported

**Metric Descriptions**

(1) **Collection growth reported in number of specimens** is a measure of growth and curatorial activity in the museum. The MSB exhibited a substantial increase in the number of specimens cataloged compared to 2009, but an average year otherwise. Years 2007 and 2008 were marked by all-out efforts to integrate USGS specimens and several major orphaned collections as detailed above, and these projects were either completed or nearing completion in 2009. Cataloging of new specimens from international expeditions and a special collection of Gila River fishes make up the bulk of 2010 specimens added. Average growth of over 300,000 cataloged specimens per year puts the MSB in a group of the fastest growing university-based natural history museums in the nation.

(2) **Number of specimen loans made to outside researchers and institutions.** These are specimens, groups of specimens, or tissues loaned or gifted in support of ongoing research at other institutions. Outside researchers are responsible to return loans in accordance with the terms of specimen use laid out when the request for the loan is made. A loan constitutes the total amount of specimens, data, or ancillary material sent to a researcher or institution. This metric, which is one measure of collection visibility and utility, increased dramatically in 2010 compared to the average over the last four years, indicating increased use of museum materials by outside researchers. It is possible that loans more loans are being made in lieu of scientists actually visiting the collections due to travel budget constraints, etc. (see metric 3 below).
(3) **Professional Visitors to the Collections.** This metric includes visiting scientists, seminar speakers, taxonomic professionals seeking to verify collection records or study morphological and/or molecular variability of organisms. It does not include members of the UNM Biology Department. The number of professional visitors was down substantially in 2010 compared to average values over the last four years, perhaps reflecting constraint on travel budgets.

(4) **Collection database web hits.** This metric is nearly impossible to track accurately because of wide electronic dissemination of MSB specimen and locality data. Major databases supported by the MSB are ARCTOS, the New Mexico Biodiversity Collections Consortium (NMBCC), and conservation databases of the New Mexico Natural Heritage Program. More broadly, MSB data are served by a number of outside entities including the Global Biodiversity Information Facility (GBIF). The wide dispersion of web hits suggests the impact of MSB specimens and records on the web will continue to increase at an exponential rate in the near term.

(5) **Requests for information (RFIs) answered in person.** Natural history collections staff also perform important advisory functions as indicated by the number of requests for information. Such requests come from academic and government scientists, natural resource management agency personnel, and/or the general public. The MSB serves as a clearing house for knowledge and expertise in the natural history of the southwestern United States. In 2010, the number of RFIs was slightly below average values over the last four years.

(6) **Publications by scientists outside of the MSB.** Curatorial management does have direct impact on scholarly production through the provision of specimens and data to other researchers. In 2010, 61 publications were supported in part through materials provided by the MSB through loans and data sharing, which is the average value over the last four years. This contribution is frequently overlooked when compiling statistics of various units, but in effect, doubles the scholarly contributions of the MSB as a whole. Their time allocated to curatorial efforts produces scholarly contributions outside the normal reward system offered to university faculty and research staff.

(7) **Publications by museum staff.** This metric includes all publications in bona fide outlets such as books, journals, compendia, and other publications. Gray literature and quasi-public reports (e.g., technical reports, agency reports – see below) are not included. There may be some overlap among divisions as curatorial staff often co-author manuscripts and these will be counted twice in overall totals. In 2010, substantially exceeded the four-year average, but were down slightly compared to 2009.

(8) **Technical reports by museum staff** include reports to agencies in fulfillment of contract deliverables. Many of these reports hold primary data upon which critical management decisions are made, including endangered species status, listing decisions, biological opinions and other documents. In 2010, the number of technical reports was slightly below the four-year average. These may be under-reported because such reports are not prominently featured in tenure and promotion support files.
(9) UNM courses using specimens, data, electronic archives and other resources provided by the MSB. This number is remarkably stable over the last four years.

(10) UNM courses provided by museum staff include lecture courses taught by faculty curators and associate curators of the MSB. It also includes laboratory teaching by graduate students affiliated with the MSB.

(11) Number of graduate students mentored by MSB staff per year includes graduate students who are formally trained in curatorial practices and standards of field data collection, specimen preservation, field protocols that are consistent with institutional animal care guidelines, directly by faculty and staff of the MSB. It does not include graduate enrollment in formal courses. Graduate student participation in MSB activities was very near average values over the last four years. Substantial involvement of graduate students reflects the drawing power of natural history and the MSB for graduate recruitment in Biology and A&S.

(12) Number of graduate theses/dissertations is the total per year completed by graduate students mentored by MSB staff as primary advisor or co-advisor. This number fluctuates depending on overall graduate enrollments within the Biology Department. It was slightly lower than average values over the last four years.

(13) Number of undergraduate students trained in the MSB includes undergraduate students that are employed under the Federal Work-Study program or from externally funded research grants and contracts, and special education programs like Undergraduate Research Mentoring projects like UNO and UMEB. This number is higher in 2010 than the four-year average as a result of MSB-centered undergraduate educational programs, increased grant activity for curation and integration of orphaned collections (e.g., Fishes, Mammals, USGS), and ramping up of museum-based programs in Birds and Arthropods.

(14) Number of grants and contracts in force includes all active grants and contracts that are available to specimen-based research and are being conducted by MSB staff. This number varies little from year to year, but overall funding has steadily increased with inclusion of new curatorial staff (Miller and Witt) and units (Division of Parasitology), along with sustained granting activity from other units.

(15) Total dollar amount of all grants and contracts in force is simply the sum of the total dollar amounts of all grants in force. Yearly expenditures are expected to be a fraction of the total grants in force.

(16) Total amount of Facilities and Administration (F&A) funds from grants/contracts in force is likewise the sum of estimated F&A. Yearly expenditures are expected to be far less than totals. Returned F&A is steadily increasing (and at its highest in 2010) because of an increasing amount of grants that return F&A at the federal negotiated rate.
A Snapshot of Activities in the MSB (2010 – 2011)

Below, we present a table that reflects the many activities that museum faculty and staff conducted over the last calendar and academic years (Table 2) that was adapted from the MSB News and Events page at http://msb.unm.edu. This list is by no means exhaustive, and further details can be gained by examining individual Divisional reports. However, it documents considerable emphasis on student training in research that includes travel to national and international meetings to present their research findings, and on developing new ways for museum data and objects to be incorporated in the classroom through programs like UnO and Aim-Up!. The MSB also continues to further develop collection resources through major Biological Collection Improvement Grants from the National Science Foundation and others. MSB Graduate Students are highly competitive for awards and recognition from the Department of Biology, and from disciplinary and interdisciplinary professional societies.

Table 2. A snapshot of MSB activities from January 2010 to July 2011.

<table>
<thead>
<tr>
<th>Month</th>
<th>Year</th>
<th>Award or Event</th>
<th>MSB Divisions or Programs Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>2010</td>
<td>Best Paper Award to Sandy Brantley and Dave Lightfoot, Western North American Naturalist</td>
<td>Arthropods</td>
</tr>
<tr>
<td>February</td>
<td>2010</td>
<td>Mississippi Conservation Award to Stephen Ross</td>
<td>Fishes</td>
</tr>
<tr>
<td>February</td>
<td>2010</td>
<td>Smithsonian Short-term Visitor Grant to Heidi Hopkins</td>
<td>Arthropods</td>
</tr>
<tr>
<td>April</td>
<td>2010</td>
<td>UNM Outstanding Staff Award to Tom Giermakowski</td>
<td>Amphibians and Reptiles</td>
</tr>
<tr>
<td>April</td>
<td>2010</td>
<td>Golden Key Honor Society award to MJ Vargas</td>
<td>UnO Program</td>
</tr>
<tr>
<td>April</td>
<td>2010</td>
<td>Cocalina Memorial Scholarship to Rebecca Zalar</td>
<td>Arthropods</td>
</tr>
<tr>
<td>May</td>
<td>2010</td>
<td>NSF RCN Award Aim-UP! awarded to Joseph Cook</td>
<td>Mammals and DGR</td>
</tr>
<tr>
<td>June</td>
<td>2010</td>
<td>Brother Arsene Botanical Collection transferred to the UNM Herbarium by Tim Lowrey</td>
<td>Herbarium</td>
</tr>
<tr>
<td>July</td>
<td>2010</td>
<td>Colorado Plateau Cooperative Ecosystem Study Unit Meeting in Flagstaff attended by Tom Turner</td>
<td>Museum-Wide</td>
</tr>
<tr>
<td>August</td>
<td>2010</td>
<td>Ticul Alvarez Award for Mammalogy to David Schmidly</td>
<td>Mammals</td>
</tr>
<tr>
<td>August</td>
<td>2010</td>
<td>Kappa Kappa Gamma Fraternity Award to Brittany Barker</td>
<td>Mammals</td>
</tr>
<tr>
<td>October</td>
<td>2010</td>
<td>Inaugural AIM-Up! Symposium in Santa Fe, New Mexico</td>
<td>Aim-UP! Program</td>
</tr>
<tr>
<td>November</td>
<td>2010</td>
<td>NSF REV-SYS Grant to Kelly Miller</td>
<td>Arthropods</td>
</tr>
<tr>
<td>November</td>
<td>2010</td>
<td>Desert Fishes Council Best Student Poster Award to Jesse Trujillo</td>
<td>UnO Program &amp; Fishes</td>
</tr>
<tr>
<td>March</td>
<td>2011</td>
<td>NSF Biological Research Collection Grant for the Rausch Collection</td>
<td>Museum-Wide</td>
</tr>
<tr>
<td>April</td>
<td>2011</td>
<td>Donald Caughan Scholarship Award to Matt Jones (Advisor: Witt)</td>
<td>Birds</td>
</tr>
</tbody>
</table>
Ongoing Challenges to Growth and Development of the MSB

We face a number of challenges to implementation of our goals that mainly revolve around a general lack of resources for an I/T staff position, operational budgets, and recognition of faculty curator workload:

1. We Lack Critical Information Technology Support: The MSB is sorely lacking information technology support, and it is our top priority to staff an IT Technologist/Systems Administrator position to help develop, grow, and maintain our overtaxed cyber-infrastructure (Over 300,000 web hits and data downloads in 2010). At present, our database management plan is reactive rather than proactive; we deal with problems involving data security, data backup/management, systems maintenance, IT innovation, troubleshooting viruses/worms, purchasing hardware and software in highly piecemeal fashion using private contractors that vary tremendously in quality and service.

2. Fluid collection space and freezer space for genomic materials is limited or compromised by poor infrastructure. New space is subject to State Fire Marshal scrutiny, and a liquid nitrogen facility has special requirements and safety concerns that necessitate a new building.

3. We Lack Sufficient Funds for Operating Budgets for Collection Care/Improvement in the Divisions of Birds and Parasitology.

4. Faculty curators are uncompensated and unrecognized for their work during the academic year and the summer.
DIVISION OF AMPHIBIANS AND REPTILES

1. DIVISION HIGHLIGHTS

During 2010, the collection has increased by 2,057 specimens to a total of 91,112 specimens. Although the number of new specimens catalogued in 2010 is slightly smaller than in 2009, it nevertheless continues an overall decade-long trend of increasing number of specimens catalogued every year. Specimens in 2010 came from several large accessions. We've catalogued over 1,000 voucher specimens and tissues of frogs from Puerto Rico and nearly 800 specimens that were collected throughout the state of New Mexico. Another two important additions to the collection this year were specimens that were part of a teaching collection at the University of Albuquerque in the early 1970’s and specimens that were collected by the Wyoming Game and Fish Department as vouchers for Wyoming inventory and monitoring efforts.

The website of the division continues to see many hits on its pages. The visibility of the collection has been enhanced by many collaborative projects and the inclusion of our data on aggregator sites. MSB specimens from the division and their associated data have been used in at least 21 new publications in 2010. Many scientists and members of the general public have requested information from our division via telephone, email and directly in person. In addition to automated data responses, we hosted 18 visitors and handled nearly one hundred information requests via email and phone.

Outreach activities consisted of public presentations as well as lending of specimens for teaching purposes to University of New Mexico classes and other educational entities. The collection manager has given several tours of the collection and made a presentation on New Mexico’s amphibians and reptiles to K-12 students on two occasions. We continued to work with the New Mexico Department of Game and Fish through participation on boards dedicated to species recovery. In addition, we have started collaboration with the US Geological Survey at Northern Arizona University on a project that aims to forecast changes to distribution of species. We foresee that this project, along with another project that we started in 2010 about lizards in New Mexico, will provide opportunities for at least five undergraduate students to work in biological research.

2. TABLE OF COLLECTION USE

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Collection Growth</td>
<td>2,057</td>
</tr>
<tr>
<td>Loans</td>
<td>8</td>
</tr>
<tr>
<td>Research Visitors¹</td>
<td>18</td>
</tr>
<tr>
<td>Outreach Visitors¹</td>
<td>161</td>
</tr>
<tr>
<td>Information Requests Answered</td>
<td>82</td>
</tr>
<tr>
<td>Direct Website Access² (&quot;Hits&quot;)</td>
<td>9,915</td>
</tr>
<tr>
<td>Indirect Collection Access³ (&quot;Hits&quot;)</td>
<td>91,042</td>
</tr>
<tr>
<td>Downloads of Division Documents</td>
<td>2,423</td>
</tr>
<tr>
<td>Publications Citing/Using MSB Herpetological Specimens</td>
<td>21</td>
</tr>
</tbody>
</table>
Research Visitors are those visiting the collection as part of research activities, Outreach visitors are those visiting as part of tours.

Direct Website access represents access to our Division’s webpages.

Indirect Collection Access represents access to data associated with our specimens via other websites such as HERPNET, NM Biodiversity, GBIF, etc.

3. COURSES USING THE COLLECTIONS

BIOL 204, Animal Form and Function, spring and fall semesters, 703 students
BIOL 386, General Vertebrate Zoology, spring and fall semesters, 42 students
BIOL 324, Natural History of Southwest, fall semester, 5 students

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

Snell, H.L.

Spring
BIOL 400 – Senior Honors Thesis, 1 student
BIOL 499 – Undergraduate Research Problems, 3 students
BIOL 551 – Graduate Research Problems, 2 students
BIOL 599 – Master’s thesis, 2 students
BIOL 699 – Dissertation, 2 students

Fall
BIOL 379 – Conservation Biology, 38 students
BIOL 400 – Senior Honors Thesis, 1 student
BIOL 499 – Research Problems, 1 student
BIOL 599 – Master’s thesis, 1 student
BIOL 699 – Dissertation, 2 students

Poe, S.

Spring
BIOL 436 – Phylogenetics, 7 students
BIOL 499 – Undergraduate Research Problems, 1 student
BIOL 536 – Phylogenetics, 20 students
BIOL 551 – Graduate Research Problems, 4 students

Fall
BIOL 386 – General Vertebrate Zoology, 15 students
BIOL 551 – Graduate Research Problems, 3 students
BIOL 699 – Dissertation, 1 student

B. Graduate Students

Latella, I.M.
BIOL 436/536 – Phylogenetics, 27 students
5. COLLECTION MANAGEMENT
During 2010, the collection has increased by 2,057 specimens to a total of 91,112 specimens. Specimens in 2010 came from several large accessions. We’ve catalogued over 1,000 voucher specimens and tissues of frogs from Puerto Rico and nearly 800 specimens that were collected throughout the state of New Mexico. Two important additions to the collection this year were specimens that were part of a teaching collection at the University of Albuquerque in the early 1970’s and specimens that were collected by the Wyoming Game and Fish Department as vouchers for Wyoming inventory and monitoring efforts.

We continued our efforts to have the most precise georeferencing available for all of the specimens in the collection. In addition, a new process, “reverse georeferencing” has been added to our workflow. Many researchers provide only geographical coordinates for the deposited material and we now describe the locality based on those coordinates.

Skeletal material and frozen tissues were two types of preparation that received special attention in 2010. We now have tissue available for genetic analyses from over 600 recent specimens.

6. AWARDS, GRANTS, AND CONTRACTS


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


**8. ACTIVITIES IN LEARNED SOCIETIES**

A. Invited/Plenary Talks and/or Seminars

**JT Giermakowski**

Herpetological collections: present and future challenges. Integrated Biological Inventories Class. University of New Mexico, Department of Biology. September.


**HL Snell**


B. Contributed Talks/Posters (*presenter*)


C. Attendance at Professional Meetings

**J.T. Giermakowski**


Southwestern Partners in Amphibian and Reptile Conservation, Fort Collins, Colorado. August.

Landscape Conservation Cooperative Organizational Meeting, Bureau of Indian Affairs, Albuquerque, New Mexico. December.
HL Snell

US Fish and Wildlife Service Symposium on Climate Change and Herpetology Conservation, Albuquerque, March.


D. Service as Editor or on Editorial Board of a Journal

H.L. Snell, Chair of the Museum of Southwestern Biology Publications Committee

E. Service as Officer of Professional Society/Organization

None.

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentation to General Audience in a Scholarly Capacity

J.T. Giermakowski

Local amphibians and reptiles. Presentation to the Bosque Academy Summer Camp Program, Albuquerque, NM. July.

B. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.

H.L. Snell

Member of New Mexico Department of Game and Fish Species Recovery Team for Boreal Toads. New Mexico Department of Game & Fish.


Member of the General Assembly, Charles Darwin Foundation for the Galapagos Islands

C. Scholarly Service as a Member of a Local/State/Regional/National Committee, Panel, etc.

H.L. Snell.

New Mexico Department of Game & Fish Species Recovery Board.
J.T. Giermakowski.

Member of the Southwestern Partners in Amphibian and Reptile Conservation Steering Committee.

Member of Collections Committee for the American Society of Ichthyologists and Herpetologists.

Member of New Mexico Department of Game & Fish Species Recovery Board.

Collection Manager Representative to the Museum of Southwestern Biology Executive Committee.

Invited to US Fish and Wildlife Service panel on the Jemez Mountain Salamander.

D. Journal Referee

M.J. Ryan. Revista Biologia Tropical
H.L. Snell. Herpetologica

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

Elected Board Member, Tierra Grande Improvement Association (organization that administers 15,000 acres of protected areas in southern Manzano Mountains, Valencia County).


Work with Environmental Health Division on Urban Biodiversity, Albuquerque, NM

Work with Whitfield Wildlife Conservation Area, Belen, NM
Mapping Trails & Natural Resource Distributions, Manzano Mountains, Mountair Ranger District, Cibola National Forest, Valencia & Torrence Counties

Member NM Department of Game & Fish Species Recovery Board, Santa Fe & Albuquerque, NM

Work with the New Mexico Mountain Club to promote wilderness activities throughout New Mexico.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

M.J. Ryan
Idea Wild. $400 equipment grant. UNM SRAC. $475.
Grove Scholarship UNM Biology Department (2010). $3,000.
UNM Latin American & Iberian Institute PhD Fellowship (2010). $12,500/year

E.W. Schaad
UNM Summer SRAC award.

12. DONATIONS AND GIFTS RECEIVED

Donation of 2010 issues of the Southwestern Naturalist and Texas Journal of Science.

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

Giermakowski, J.T. Collection Manager

McInnes, T.L. Graduate Assistant (Fall)
Timmons, H.L. Graduate Assistant (Spring)

B. Graduate students

Giermakowski, J.T., Ph.D./Snell
Gray, L.N., M.S./Poe
Latella, I.M., M.S./Snell and Poe
McInnes, T.L., M.S./Snell
Pederson, N., M.S./Snell
Phillips, R.B., Ph.D./Snell
Ryan, M.J.,Ph.D./Poe
C. Undergraduate Student Workers and Volunteers

Chour, Jobette. Student employee (UnO).
Gibboney, Krista. Volunteer.
Wilson, Cassandra. Student employee

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
1. DIVISION HIGHLIGHTS

Highlights for the Division (in conjunction with the research laboratory of KB Miller) include initiation or continuation of multiple NSF grants, a US National Park Service grant and USDA grants totaling $2.4 million with one of these an NSF grant specifically for improvement to the Arthropod Division ($453,444). New insect cabinets as well as other new equipment were purchased with these funds. We also made a major shift to development of a Specify database for our collection holdings. Major field campaigns for insect collecting were conducted to Costa Rica, Mexico, and Nicaragua as well as locally in the southwest producing large numbers of new specimens for the collection.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Specimens Accessioned</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Information Requests</th>
<th>Publications</th>
<th>Citing MSB Specimens</th>
</tr>
</thead>
<tbody>
<tr>
<td>8000</td>
<td>6</td>
<td>25</td>
<td>25</td>
<td>100</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTION

BIOL 485/585, Discovering Arthropods, 24 students
BIOL 371L, Invertebrate Zoology, 25 students

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

Miller, K.B.
BIOL 485/585, Discovering Arthropods, 16 students
BIOL 203, Ecology and Evolution
BIOL 419, Field Entomology

5. COLLECTION MANAGEMENT

With more undergraduate and graduate students working in the division, we increased our efforts to curate and re-label older specimens as well as process the large numbers of new specimens. We purchased drawers and cabinets to fill our compactor space using NSF funds. Our databasing efforts have been dramatically revised as we have moved into a new database, Specify, from our existing one. We anticipate that this change will make our data considerably more accessible going forward. Fourteen undergraduate students and 6 graduate students have contributed to Arthropod Division activities in various ways in the past year.
6. AWARDS, GRANTS, AND CONTRACTS
Joint Research on endemism at White Sands National Monument and the Cuatrociénegas Protected Area, K.B. Miller, David Lightfoot, National Park Service, $120,000, 2010-2011, 10%.
Identification Resource for the Ironclad and Cylindrical Bark Beetles and the Longhorned Wood Boring Beetle Tribe Onciderini, K.B. Miller, USDA-APHIS, $85,000 + $10,000 supplement, 2010, 10%.
REVSYS: Multilevel Revision within the Praying Mantises (Insecta, Dictyoptera, Mantodea), G.J. Svenson, PI; K.B. Miller, NSF Systematic Biology and Biodiversity Inventories Grant #DEB-1050569, $603,742, 2010-2012, 51%.
Phylogenetic Revisions of South American Water Beetles (Coleoptera: Adephaga: Hydradephaga): A Model for Teaching Systematic Biology, K.B. Miller, NSF CAREER #DEB-0845984, $675,000, 2009-2014, 51%.
Improvements to the Division of Arthropods Collection, Museum of Southwestern Biology, K.B. Miller, Sandra Brantley and David Lightfoot, NSF Division of Biological Infrastructure Grant #DBI-0847847, $453,444, 2009-2012, 51%.
Survey of the Aquatic Insects of Northern Venezuela with an emphasis on Coleoptera, A.E.Z. Short, K.B. Miller, NSF Systematic Biology and Biodiversity Inventories Grant #DEB-0816904, $500,000 (~$60,000 to UNM), 2008-2012, 51%.

7. PUBLICATIONS
A. Books, Book Chapters, Edited Volumes
B. Journal Articles


C. Web-Based

D. Technical Reports

E. Theses/Dissertations Completed

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


B. Contributed Talks/Posters (*presenter)

Tafoya, A.J. Searching for Subterranean Arthropods: A Comparison Between the Edwards-Trinity Aquifer of Texas and the Karst Systems of New Mexico. Undergraduate Research Presentations; Earth and Planetary Sciences Department. UNM, Albuquerque, NM (May 7)


C. Attendance at Professional Meetings

Brantley, S. Entomological Collection Network National Meeting, San Diego, CA, 11/2010

D. Service as Editor or on Editorial Board of a Journal

Lightfoot, D.C. Associate editor (entomology and ecology) Western North American Naturalist
Miller, K.B. Subject editor (Coleoptera) Proceedings of the Entomological Society of Washington.

E. Service as Officer of Professional Society/Organization

Miller, K.B. Vice president elect, Entomological Society of America.

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentation to General Audience in a Scholarly Capacity

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.

D. Journal Referee

E. Hosting Professional Colleagues and Groups

10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

B. Public Service

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS

12. DONATIONS AND GIFTS RECEIVED

Miller, K.B. 9000 specimens

13. CURRENT STAFF

A. Faculty/Staff
Kelly Miller, Assistant Professor, Curator
Manuel Molles, Professor Emeritus, Curator Emeritus
Sandra Brantley, Research Assoc. Professor, Senior Collection Manager
David Lightfoot, Research Assoc. Professor, Senior Collection Manager

B. Graduate Students
Nathan Lord, Ph.D. student
Eugenio Nearns, Ph.D. student
Michael Medrano, Ph.D. candidate
Heidi Hopkins, Ph.D. student
Karen Wetherill, Ph.D. student
Grey Gustafson, Ph.D. student

C. Undergraduate Student Workers and Volunteers
Sharyn Davidson, volunteer
Emily Hodson
Nicole Telles (UNM MARC program)
William Edelman (UNM IMSD program)
Catherine Geisik
Elizabeth Montano (honors)
Erin Fenton
Rebecca Zalar
Jessica Smith
Shelley MacNeil
Martha Lara
Amber Schwettmann
Eoghan Doyle
R. Antonio Gomez, (UNM MARC program, honors)
Nicholas Homziak, (UNM UNO program, honors)
14. MUSEUM ASSOCIATES
A. Research Associates
Ana Davidson, postdoctoral fellow, UNM and UNAM
Eric Metzler, Ohio State University, retired
Ernest Valdez, USGS
DIVISION OF BIRDS

1. DIVISION HIGHLIGHTS

- 8 field expeditions in Peru that collected over 1800 specimens.
- 8 scientific papers published
- Division participated in American Ornithologists' Union meetings in San Diego
- Field work in Southwestern US: San Diego County, CA; New Mexico: Elk Mountain, Boone's Draw,
- Completed Sandhill Crane Survey field work along the Rio Grande Valley for the Sunzia Transmission Line Project.

2. TABLE OF COLLECTION USE

Collection Growth (specimens cataloged): 963
Loans (outgoing): 8 from dry collections; 14 tissue loans
Loans (incoming): 2 for dry collections; x tissue loans received.
Visitors: 108
Information Requests: 76
Publications Citing MSB Bird Specimens: 5

3. COURSES USING THE COLLECTIONS (3)

BIOL. 386, General Vertebrate Zoology: Spring and Fall semester, 36 students per semester
BIOL 402/502, Avian Scientific Specimen Preparation: Spring Semester, 6 students

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers (9)

Witt:

2010: Spring: Molecular Systematics Discussion (Biology 502) (6 students)
2010: Fall: Molecular Systematics Discussion (Biology 502) (8 students)
2010: Spring: Basic Graduate Evolution (Biology 517) (~20 students)
2010: Spring: GUEST LECTURE: Tropical Biology
2010: Fall: GUEST LECTURE: Integrated Inventories
2010: Fall: Graduate research problems (Biology 551) (4 graduate students)

2010: Fall: Undergraduate research problems (Biology 499) (1 undergraduate student)

2010: Spring: Undergraduate research problems (Biology 499) (1 undergraduate student)

Wolf:
Fall: Biol. 502, Topic: Animal Physiological Ecology, 1 student
Biol. 516, Basic Graduate Ecology, 18 students (co-taught with J.H. Brown and F. Smith)
Fall: Biol. 204, Plant and Animal Form and Function, 172 students (two sections; co-taught with D.T. Hanson)
Biol. 402, Topic: Animal Physiological Ecology, 1 student

5. COLLECTION MANAGEMENT
We started 2010 in the same manner we ended 2009: camped on the side of a mountain in Peru. Our team consisting of 7 members of the bird lab and two Peruvians visited a high-elevation site in Apurimac department, where we collected data on the physiology of high-elevation adapted birds typical to that region, and also made important discoveries of populations of several globally rare species. These findings were published in the journal Endangered Species Research (Benham et al. 2010).

Shortly after our return from Peru, over half of our lab attended the American Ornithologists' meeting in San Diego, California, where we attended a variety of stimulating talks that proved to be reinvigorating. Closer to home, we received some very important specimens this year: A Sooty Tern found its way to New Mexico after a hurricane. This first state record was found dead in the Laguna Grande salt ponds southeast of Carlsbad. It has been archived in the collection and a note on its occurrence has been submitted to the journal Western Birds.

After a ca. 30 year hiatus, field work has once again commenced at Boone's Draw. This site is a small woodland on the eastern plains of New Mexico that attracts migrant birds. Then-New Mexico Department of Game and Fish personnel John P. Hubbard and C. Gregory Schmitt (now MSB Birds associates) et al. worked at this site in the late 1970's studying migration of birds. They discovered many eastern species of birds occurred there quite commonly, although they were rarely encountered previously. In the fall of 2010, Matthew Baumann and Nick Pederson reestablished a relationship with the land owner and began resampling the site. Their work thus far has resulted in many important specimens for the collection, including the first specimen of Wood Thrush from the state, and some important series of more common species that will facilitate our understanding of migration on the eastern plains.

Another important bit of field work was that conducted by MSB Birds Personnel on Elk Mountain in the early winter. We explored this area several years ago and found it to be a good accessible site for high elevation species in New Mexico, but only started working there this fall. Of great significance was a series of Rosy Finches (Leucosticte) that will be used in a variety of ongoing research projects by MSB Bird students Michael Hilchey and Raymond VanBuskirk.

In the collection, a problem in the database with duplicating records has slowed cataloging
progress. We prepared many specimens this year, which reflects the growing numbers of personnel in our division and their enthusiasm for museum work.

6. AWARDS, GRANTS, AND CONTRACTS

Phred Benham:

CHAPMAN MEMORIAL FUND GRANT, $2250. GRAC: $400

Jonathan Schmitt:

Ryan Beaulieau Memorial Fund, $1000.

Natalie Wright:

AOU student research grant: $1500; UNM Bio Scholarship: $1000

Elizabeth Beckman:

GRAC: $400; UNM Bio Scholarship: $500


Witt, C. C. CETI Seed Grant: Diversity and host-parasite dynamics of avian malaria along a tropical altitudinal gradient. ~1 December 2010 – 1 December 2011. PI- C. C. Witt; but subaward of NIH-CETI grant to P.I.’s E. S. Loker and R. Miller; $40,000.

Witt, C. C. The Phylogenetic and Biogeographic History of High Altitude Adaptation in Hummingbirds: Selection on Hemoglobin Proteins as a Function of Oxygen Supply and Demand; (2) J. A. McGuire, (written and carried out by Christopher C. Witt); (3) National Science Foundation DEB-0543556; (4) No-cost extension awarded in 2010 (~$60,000 remaining). [Award to University of California-Berkeley].

Wolf, B.O. Desert Tortoises as Walking Tree Rings: Evaluating the Effects of Climate and Resource Variability on Tortoise Growth and Survival Using Stable Isotopes”; I. Murray and B.O. Wolf, co-PIs; Arizona Game and Fish Department; $59,543, September 2009– September 2011.

Wolf, B.O. Use of Wildlife Water Developments by the Bird and Bat Community on the KOFA National Wildlife Refuge, Arizona”; B.O. Wolf, PI; Arizona Game and Fish Department, $65,000, April 1, 2009–February 1, 2010.
7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes (5)

Dickerman, R. W. Great-Horned Owl. *in* Raptors of New Mexico (Jean-Luc Cartron, ed.). University of New Mexico Press.


B. Journal Articles (8)


C. Web-Based
None

D. Technical Reports


E. Theses/Dissertations Completed
None

F. Work In Progress (partial list)

Dickerman, R. W. Notes of the Elf Owls of western Texas, adjacent Coahuila, and southeastern New Mexico. Western Birds target journal.
Williams, S. O. III, P. Mehlhop and D. A. Zimmerman, Birds of New Mexico.

G. Publications/Reports Based on MSB Bird Division Specimens/Data (2)


ACTIVITIES IN LEARNED SOCIETIES

A. Invited/Plenary Talks and/or Seminars (1)

B. Contributed Talks/Posters (7)


Witt, C. C. Avian Malaria of the Tropical Andes; in Designing informative indicators: A workshop to advance interdisciplinary geo-epidemiology; University of New Mexico, October 2010.


C. Attendance at Professional Meetings
Johnson, A. B.
New Mexico Ornithological Society Meeting Albuquerque, NM
128th Meeting of the American Ornithologists’ Union, San Diego, CA, USA.

Witt, C. C.
New Mexico Ornithological Society Meeting Albuquerque, NM
128th Meeting of the American Ornithologists’ Union, Philadelphia, PA, USA.

Williams, S. O. III
New Mexico Ornithological Society Meeting Albuquerque, NM
Schmitt, C. J.
New Mexico Ornithological Society Meeting Albuquerque, NM
128th Meeting of the American Ornithologists' Union, San Diego, CA, USA.

Benham, P.M.
New Mexico Ornithological Society Meeting Albuquerque, NM
128th Meeting of the American Ornithologists' Union, San Diego, CA, USA.

DuBay, S.G.
New Mexico Ornithological Society Meeting Albuquerque, NM
128th Meeting of the American Ornithologists' Union, San Diego, CA, USA.

Beckman, E.J.
New Mexico Ornithological Society Meeting Albuquerque, NM

Wolf, B.O.
Annual Meeting of the Society of Integrative and Comparative Biology, Seattle WA, January 3-7, 2010.


D. Service as Editor or on Editorial Board of a Journal

Williams, S. O. III
New Mexico Editor, North American Birds (USA).
Editor, New Mexico Ornithological Society Field Notes

Wolf, B. O.
Associate Editor, Oecologia (USA)

E. Service as Officer of Professional Society/Organization

None.

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.

Secretary, New Mexico Bird Records Committee.

E. Journal Referee

Johnson, A.B.
Journal of Field Ornithology (1)

Williams, S. O. III.
Reviewer for NMOS Bulletin in 2010.

Witt, C. C.
Condor (1); Cotinga (2); Journal of Field Ornithology (1); New Mexico Ornithological Society Bulletin (1); Occasional Papers of the Museum of Southwestern Biology (1)

Wolf, B.O.
American Naturalist (1); Biological Journal of the Linnean Society (1); Comparative Biochemistry and Physiology (1); Ecosphere (1); Ibis (1); Journal of Experimental Biology (1); Madrono (1); Oecologia(1); Proceedings of the National Academy of Sciences of the United States (1); The Auk (1)

10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

B. Public Service

Williams, S.O. III
Secretary of the New Mexico Bird Records Committee
New Mexico Coordinator of the North American Breeding Bird Survey (BBS)

Wolf, B.O.
Institutional Animal Care and Use Committee
Department of Biology Grad Policy Committee

Witt, C. C.
Popular press coverage of the Division and its Scientific Publications

Schmitt, C. J.
Volunteer participant in bird survey of Magdalena Mountains, Socorro County, NM for North American Migratory Bird Count day

Benham, P.M.
Migration talk at Rio Grande Nature Center "Herbfest" for International Migratory Bird Day

Wright, N.A.
MSB Birds Representative at Albuquerque Biopark for International Migratory Bird Day weekend.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

None

12. DONATIONS AND GIFTS RECEIVED

Robert W. Dickerman: $50,000

13. CURRENT STAFF

A. Faculty/Staff

Christopher C. Witt, Curator of Birds
Andrew B. Johnson, Collection Manager
Blair O. Wolf, Associate Curator

B. Graduate students

Natalie Wright, Ph.D. Student
Elizabeth Beckman, Ph.D. Student
Phred Benham, Masters' Student
Shane DuBay, Masters' Student

C. Undergraduate Student Workers and Volunteers

Student Workers, REU students, and paid undergraduates:

Alessandra Quiñonez, postbac worker (Peru)
Sheila Figeroa, Undergraduate worker (Peru)
Monica Flores, Undergraduate (Peru)
Kobie Boslough

William Talbot
Michael Hilchey
Cole Wolf
Raymond VanBuskirk
C. Jonathan Schmitt
Donna Schmitt
Gregory Schmitt
Sarah Sheldon

Sara Swiderek
Matthew Graus
Matthew Jones
Doug Whalen
Geneva Williams
Ashley Smiley
Natalie Wright
Shane Dubay
Michael Lelevier  
Liana Schmader  
Bethany Abrahamson  
Sabrina McNew  
Matt O’Donnell

Elizabeth Beckman  
Phred Benham  
Nick Pederson  
Matthew Baumann

14. MUSEUM ASSOCIATES

A. Curatorial Associates

Robert W. Dickerman  
John P. Hubbard

B. Research Associates

Sartor O. Williams, III  
Hira A. Walker  
C. Gregory Schmitt  
Donna C. Schmitt  
Mary Alice Root  
J. David Ligon
DIVISION OF FISHES

1. DIVISION HIGHLIGHTS
Currently, the MSB Division of Fishes has **85,821** cataloged lots of fishes (3,881,167 specimens). During the year, 5,773 lots of fishes (246,771 specimens) were cataloged and integrated into the main collections. Integration of the New Mexico Department of Game and Fish State Reference Collections and associated data continued throughout 2010, with a total of 5,138 lots (out of 10,447 lots) or 264,073 specimens now fully incorporated. These collections are important both geographically and historically, adding underrepresented species, drainages, and timeframes to the MSB fish collections.

**$322,105** annual funding through grants and contracts was available for ichthyological research, aquatic studies, and museum curation of fish collections, undertaken by MSB Division of Fishes staff, students, and research associates during 2010.

Dr. Stephen T. Ross, Curator Emeritus was awarded the C. A. Schultz Conservation Award in February 2010. This award is given to individuals who have demonstrated excellence in the fields of ichthyology, fisheries or aquatic ecology in terms of activities that promote conservation, sound taxonomy and/or public awareness of Mississippi’s aquatic resources. Dr. Ross retired as Professor of Biological Sciences and Curator of Fishes at the University of Southern Mississippi prior to accepting the position of MSB Fishes Curator Emeritus and UNM Adjunct Professor of Biology in 2004.

**Outreach Summary:** Education: Received 6 buckets of Carolina Biological preserved fish specimens from St. Pius XII High School, Albuquerque and distributed to life science classes Ortiz Middle School, Santa Fe and Tierra Adentro Charter School, Albuquerque. Tours: Dine College, Tsaile AZ (25 students), University of New Mexico Biology Graduate Student Orientation (23 students), American Indian Science & Engineering Society (30 students).

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth</th>
<th>Loans-out</th>
<th>Loans-in</th>
<th>Visitors-number of days</th>
<th>Information Requests</th>
<th>Publications Citing MSB Specimens</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,773 lots 246,771</td>
<td>38</td>
<td>0</td>
<td>40 visitors 82 days</td>
<td>27 requests 21.5 hours</td>
<td>4</td>
</tr>
</tbody>
</table>

1. Specimen loans, return of loans, gifts, exchanges, and tissue (consumptive) transfers
2. Loans, gifts or tissue transfers from other institutions
3. Research, accessing specimens, or info exchange (not tour groups)/number of visitor days
4. Emails, letters, telephone calls (not tour groups or website “hits”)
5. Publications in peer review journals

3. COURSES USING THE COLLECTIONS

BIOL. 324 Natural History of the Southwestern USA, Fall 2010, 12 students

BIOL. 386L General Vertebrate Zoology Lab, Spring 2010, 32 students
BIOL. 204L Plant and Animal Form and Function, Fall 2010, 30 students
BIOL. 496L Limnology, Spring 2010, 20 students

4. COURSES TAUGHT BY MSB PERSONNEL
A. Faculty/Collection Managers/Research Associates
   Turner, T. F.
   BIOL. 502 Ecology and Evolution of Fishes, Spring 2010, 5 students
   BIOL. 551 Research Problems, Fall and Spring 2010, 6 students
   BIOL. 599 Master's Thesis, Spring and Fall 2010, 1 student
   BIOL. 651 Advanced Field Biology, Spring and Fall 2010, 1 student

B. Graduate Students
   Krabbenhoft, T.J.
   BIOL. 495L Limnology, Spring 2010, 7 students

5. COLLECTION MANAGEMENT
Eleven accessions of specimens were received during 2010. Primary contributors included U.S.
Fish and Wildlife Service Fish and Wildlife Conservation Office, New Mexico Department of
Game and Fish, the Wyoming Department of Game and Fish, Aquatic Conservation Facility in
the Albuquerque BioPark, and American Southwest Ichthyological Researchers.

Five undergraduate students and one graduate student were employed as Curatorial Assistants
and Research Assistant for 2010. The undergraduate students were responsible for processing
specimen collections and data received from several ongoing, large scale projects in the San
Juan, Gila, and Pecos Rivers in New Mexico; the Powder, Green, and Snake Rivers in Wyoming.
Except for San Juan River collections; the NMDGF State Reference Collections from other NM
river drainages, collected 1982 - 2008 have been completely processed and integrated, after
three and half years of effort on the part of the undergraduate Curatorial Assistants (2007-2010).

Digital files, consisting of original field notes, now number 51,690 tiff files as archival backups
and 18,161 .pdf files that are cleaned and hyperlinked to database for viewing.

The graduate student Research Assistant, Tyler J. Pilger was responsible for all georeferencing,
editing, validation, and cleaning of subsets of MSB fish locality data. Almost one-half of the
MSB fishes localities are now georeferenced and in ArcView (i.e.18,311 out of a total of 38,249
locality records). He identified collections of fishes from the Gila River as part of the NMDGF
collection integration effort and all collections received from Wyoming Department of Game and
Fish.

6. AWARDS, GRANTS, AND CONTRACTS
Curation of NM Fish and Wildlife Conservation Office Collections No. 201819G905. A.M.
Snyder PI and T.F. Turner Co-PI. U.S. Fish and Wildlife Service. Total award: $130,000 1 Oct
2008 to 1 Oct 2013. Annual budget $26,000.

Grant Agreement for Curatorial Services Between Bureau of Reclamation upper Colorado
Region and the Museum of Southwestern Biology at the University of New Mexico 05-FG-40-

*Accession and Integration of NMDGF Fish Collections in Museum of Southwestern Biology, Division of Fishes No. T-39-1* A.M. Snyder PI and T.F. Turner Co-PI. New Mexico Department of Game and Fish. Total award: $60,000 1 Jul 2008 to 30 Jun 2011. **Annual budget $20,000.**

*Baseline genetic studies of fishes native to the Gila River* T.F. Turner, PI and T.J. Pilger Co-PI. New Mexico Department of Game and Fish. Total award: $11,000 1 Jul 2010 to 30 Jun 2011. **Annual budget $11,000.**


*Genetic and demographic studies to guide conservation management of bonytail chub and razorback sucker in off-channel habitats.* T. Dowling PI Arizona State University and T.F. Turner Co-PI subaward. US Bureau of Reclamation. Total award: $44,760 1 Oct 2010 to 30 Sep 2015 **Annual budget $44,760.**

*Assessment and monitoring of Rio Grande silvery minnow genetics.* US Bureau of Reclamation, Middle Rio Grande ESA Collaborative Program T.F. Turner PI and M.J. Osborne Co-PI. Total Award: $772,000 (based on annual renewals) 1 Oct 2007 to 30 Sep 2012. **Annual budget $170,954**

*Genetic Status of Arkansas River Shiner (Notropis girardi) and Evaluation of Hybridization Among Cyprinids.* M.J. Osborne PI and T.F. Turner Co-PI. New Mexico Department of Game and Fish. Total Award: $8,000 30 Aug 2009 to 30 Jun 2010 **Annual budget $8,000**

*Baseline Genetic Studies of the Chihuahua Chub (Gila nigrescens)* M.J. Osborne PI and T.F. Turner Co-PI. New Mexico Department of Game and Fish. Total Award: $6,000 30 Aug 2009 to 30 Jun 2010 **Annual budget $6,000**


7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes:

B. Journal Articles


C. Web-Based

http://msb.unm.edu/fishes/aquatic.htm

D. Technical Reports


E. Theses/Dissertations Completed
NONE for 2010

F. Work In Progress


Pilger, T.J. and K.B. Gido. Overlapping Unionid assemblages between streams and a reservoir with the Kansas River Basin. American Midland Naturalist. In Review.


Wilson, W. D., and T. F. Turner. Evolution of the MHC class II DAB locus in the family Salmonidae. Immunogenetics. **In review**

**G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers**


**8. ACTIVITIES IN LEARNED SOCIETIES**

**A. Invited/Plenary Talks and/or Seminars**


**B. Contributed Talks/Posters (Presenters’ name in bold)**


Krabbenhoft, T.J., S.P. Platania, and T.F. Turner. Reproductive phenology of fishes of the middle Rio Grande, New Mexico. 34th Annual Larval Fish Conference, American Fisheries Society, Early Life History Section, Santa Fe New Mexico. 30 May – 3 June 2010. Honorable Mention for Sally Richardson Award for best student oral presentation


### C. Attendance at Professional Meetings

**W.H. Brandenburg**
- 34th Annual Larval Fish Conference, Santa Fe NM 30 May-3 June

**A.S. Burdett**
- North American Benthological Society 58th Annual Meeting (joint meeting with American Society for Limnology and Oceanography) Santa Fe, NM. 6-11 May 2010

**T.J. Krabbenhoft**
- 34th Annual Larval Fish Conference, Santa Fe NM 30 May-3 June 2010

**C.A. Love**
- North American Benthological Society 58th Annual Meeting (joint meeting with American Society for Limnology and Oceanography) Santa Fe, NM. 6-11 May 2010

**M.J. Osborne**
- Desert Fishes Council 42nd Annual Meeting, Moab, UT. 18-21 November 2010.
- North American Benthological Society 58th Annual Meeting (joint meeting with American Society for Limnology and Oceanography) Santa Fe, NM. 6-11 May 2010

**T.J. Pilger**
- Desert Fishes Council 42nd Annual Meeting, Moab, UT. 18-21 November 2010.

**S.T. Ross**
- Desert Fishes Council 42nd Annual Meeting, Moab, UT. 18-21 November 2010.
A.M. Snyder
- 34th Annual Larval Fish Conference, Santa Fe NM 30 May-3 June 2010

T.F. Turner
- North American Benthological Society 58th Annual Meeting (joint meeting with American Society for Limnology and Oceanography) Santa Fe, NM. 6-11 May 2010
- Desert Fishes Council 42nd Annual Meeting, Moab, UT. 18-21 November 2010

D. Service as Editor or on Editorial Board of a Journal
T.F. Turner

E. Service as Officer of Professional Society/Organization
S.P. Platania
- Member, Endowment and Finance Committee, American Society of Ichthyologists and Herpetologists, 2008-2012

T.F. Turner
- Member, Education and Human Resources Committee, American Society of Ichthyologists and Herpetologists, 2009-2012.

S.T. Ross
- Member, Nominating Committee, American Society of Ichthyologists and Herpetologists 2009-2010.

9. OTHER PROFESSIONAL ACTIVITIES
A. Presentation to General Audience in a Scholarly Capacity
A.S. Burdett. Guest lecture Stable Isotopes and Food Web Ecology. Biol. 495 Limnology, C. Dahm, University of New Mexico. 23 April 2010


T.F. Turner. Guest lecturer *Fishes of New Mexico* Natural History of the Southwest, U. Shepherd, University of New Mexico, Honors Program, 7 October 2010.


T.F. Turner. *Comparative phylogeography of abundant and highly migratory prochilodontid fishes in rivers of northern South America.* Instituto de Ecologia y Evolucion, Universidad Austral de Chile, Valdivia, Chile. November, 2010

B. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees
NONE

C. Scholarly Service as a Member of a Local/State/Regional/Nat’l Committee, Panel

A.S. Burdett
- Database Management System Ad Hoc Work Group, Middle Rio Grande Endangered Species Collaborative Program. April 2008 – present
- San Acacia Reach Ad Hoc Work Group, Middle Rio Grande Endangered Species Collaborative Program. September 2009 – 2010
- Invited external proposal reviewer: CALFED Delta Science Program

R.K. Dudley

T.J. Krabbenhoft
- Member, Publication Reimbursement Committee, Department of Biology, University of New Mexico.
- Graduate Student Representative, Graduate Application Review Committee, Department of Biology, University of New Mexico.
- Secretary, Biology Graduate Student Association, Department of Biology, University of New Mexico.

M.J. Osborne
- Member, Rio Grande silvery minnow (*Hybognathus amarus*) Propagation and Genetics Workgroup. US Fish and Wildlife Service, Albuquerque NM.
- Member, Population viability analysis of Rio Grande silvery minnow (*Hybognathus amarus*) US Fish and Wildlife Service, Albuquerque NM.
- Invited External Proposal Reviewer: CALFED: Delta Science Program

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.
T.F. Turner
- Museum of Southwestern Biology Executive Committee (Chair)
- UNM Biology Department Space Committee
- UNM Biology Department Tenure and Promotion Committee
- UNM Biology Comparative Evolutionary Immunologist Search Committee
- UNM Biology Department Administrator Search Committee
- UNM Arts & Sciences Council of Chairs and Directors
- UNM Museum Collections Committee
- UNM Museum Studies Committee
- UNM Representative Colorado Plateau Cooperative Ecosystems Study Unit
- Invited external proposal reviewer: CALFED Delta Science Program

D. Journal Referee
T.J. Krabbenhoft  Canadian Journal of Zoology (1)

M.J. Osborne  Journal of Biogeography (1), Transactions of the American Fisheries Society (1), Molecular Phylogenetics and Evolution (1), Aquatic Biology (1)

T.J. Pilger  Ecology of Freshwater Fish (1), Fisheries (1), Western North American Naturalist (1)

T.F. Turner  Conservation Genetics (2), Evolutionary Applications (1), Limnology and Oceanography (1), Oikos (1); Grant proposal reviews National Science Foundation (2), National Science and Education Research Council-Canada (1)

E. Hosting Professional Colloquia and Groups  NONE

10. SERVICE
A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.  NONE

B. Public Service
A.S. Burdett
- Judge at Amy Biehl High School Science Fair
- Regional judge for Central NM Science and Engineering Research Challenge
- Judge for Research Day, UNM Biology Department
- Judge at North American Benthological Society Annual Meeting

R.K. Dudley
- Technical and scientific advisory role for the conservation and management of threatened and endangered native fishes for the New Mexico Department of Game and Fish, US Army Corps of Engineers, US. Bureau of Reclamation, and the US Fish and Wildlife Service. 1999 - present

A.M. Snyder
- Voting Member, Institutional Animal Care and Use Committee (IACUC) Main Campus University of New Mexico, June 2010 – July 2013

T.F. Turner
- Gila Trout Recovery Team Member, US Fish and Wildlife Service, 2010
• Rio Grande silvery minnow Genetics and Propagation Workgroup Member, Middle Rio Grande Endangered Species Collaborative Program, 2010

• Participant in AIM-UP! Program whose goal is to integrate natural history museum specimens and data in undergraduate education – organizational meeting in Santa Fe, 15 October 2010.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.
• Krabbenhoft T.J. Grove Doctoral Memorial Scholarship, Department of Biology, University of New Mexico. $10,000

12. DONATIONS AND GIFTS RECEIVED
Six unopened buckets of Carolina Biological Supply fish specimens from St Pius XII High School, Albuquerque. Redistributed to middle school science labs.

13. CURRENT STAFF
A. Faculty/Staff
Ayesha S. Burdett, Postdoctoral Research Associate
Megan J. Osborne, Research Assistant Professor
Steven P. Platania, Associate Curator of Fishes
Stephen T. Ross, Curator Emeritus and UNM Adjunct Professor of Biology
Alexandra M. Snyder, Collections Manager
Thomas F. Turner, Curator of Fishes and MSB Director

B. Graduate students
Museum Research Assistants
Trevor J. Krabbenhoft, UNM Biology Ph.D. candidate
D. Scott Nacke, UNM Art Ph.D. student
Hemishilpa Kalagara, UNM Engineering Ph.D. student

MSB Fishes Graduate Students, UNM Biology
Mary A. Brandenburg, M.Sci. student
Trevor J. Krabbenhoft, Ph.D. candidate
Corey A. Love, M.Sci. student
Sierra L. Netz, M.Sci. student
Tyler J. Pilger, Ph.D. student
Steven D. Scholle, M.Sci. student

C. Undergraduate Students
Curatorial Assistants
Stephani L. Clark, A&S Biology
Kaitlin M. Hulsbos, A&S Earth and Planetary Sciences
Chanel S. Jim, A&S Biology
Kristyn M. McDonald, A&S Biology
Kylie R. Naegele, A&S Biology
Teodulo E. Ortega, A&S Biology
Undergraduate Research Students
Rebecca J. Bixby and Ayesha S. Burdett Student Mentorship
Nathan Lopez-Brody, research assistant
Jessica M. Esquibel, research assistant and senior research project:
Effects of nitrogen as a limiting resource on aquatic abundance and richness

Ayesha S. Burdett Student Mentorship
Harmony Lu (Brown University), Sevilleta summer REU student

Thomas F. Turner and Ayesha S. Burdett Student Mentorship
Raphaelita K. Bishara, UNO student
Erica L. Johnson, research assistant
Jennifer S. Kraus, research assistant
Corey A. Love, research assistant
Matthew F. Peralta, UNO student
Kayla R. Sayre, REU student and research assistant

Thomas F. Turner and Megan J. Osborne Student Mentorship
Tracy Diver, Turner Lab Research Assistant
Alana Sharp, Turner Lab Research Assistant

Thomas F. Turner and Tyler J. Pilger Student mentorship
Jesse D. Trujillo, UNO student

14. MUSEUM ASSOCIATES
A. Curatorial Associates
David L. Propst, Ph.D. New Mexico Dept. of Game and Fish, Santa Fe

B. Research Associates
W. Howard Brandenburg, American SW Ichthyological Research, Albuquerque
Astrid Kodric-Brown, Ph.D. University of New Mexico, Albuquerque
Brooks M. Burr, Ph.D. Southern Illinois University, Carbondale
Michael Collyer, Ph.D. Stephen F. Austin State University, Nacogdoches
Thomas E. Dowling, Ph.D. Arizona State University, Tempe
Robert K. Dudley, Ph. D. American SW Ichthyological Researchers, Albuquerque
Michael A. Farrington, American SW Ichthyological Researchers, Albuquerque
Keith B. Gido, Ph.D. Kansas State University, Manhattan KS
Richard L. Mayden, Ph.D. St Louis University, St Louis
Norman Mercado Silva, Ph.D. University of Arizona, Tucson
Division of Genomic Resources

1. DIVISION HIGHLIGHTS

The Division of Genomic Resources (DGR) of the Museum of Southwestern Biology (MSB) is a centralized repository for cryogenic material from all MSB divisions at the University of New Mexico and other individuals and institutions worldwide for which archival agreements are extant. The DGR frozen tissue collection is taxonomically broad and contains multiple tissue samples from over 200,000 specimens, including Mammals, Birds, Reptiles and Fishes. The collection is ranked as one of the largest collections of its kind worldwide. In total, 18,800 new NK numbers were issued to the MSB mammal division and used to NK mammal specimens in DGR. The collection manager processed 36 outgoing loans for mammals and 5 loans for the bird division, containing 6,151 individual specimens to 19 states, 2 foreign countries, including 11 tissue loans for UNM students.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth (Specimens catalogued)</th>
<th>Outgoing Loans (loans/specimen)</th>
<th>Incoming Loans (loans/specimen)</th>
<th>Visitors</th>
<th>Responses to Information Requests</th>
<th>Publications 2010 Citing MSB Specimens from DGR Loans</th>
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<tr>
<td>18,800/10,000</td>
<td>41/6151</td>
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<td>100</td>
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3. COURSES USING THE COLLECTIONS.
UNM BIOL 386L General Vertebrate Zoology
UNM BIOL 489 Mammalogy
UNM Natural Sciences 262L
BIOL 400 (Fall) Senior Honors Thesis
BIOL 599 Master’s Thesis
BIOL 699 Dissertation

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers
See Mammal Division Report, Joseph Cook for specific activity.

B. Graduate Students
See Mammal Division Report, Joseph Cook for specific activity.
5. COLLECTION MANAGEMENT

This year, the DGR collection manager focused on loan processing, specimen archiving, maintaining the publication database, database record cleaning, and equipment maintenance. Publications resulting from all DGR tissue loans to date have been entered into the ARCTOS database, and associated links to GenBank are finished and available to the public.

Current projects generating specimens for DGR

- Beringian Coevolution Project - NSF
- Mexican wolf reintroduction – USFWS (130 blood samples, 12 whole animals)
- Mongolian Vertebrate Parasite Project – NSF (800 specimens)
- Chilean Hantavirus Project – ICIDR NIH
- Panama Hantavirus – ICIDR NIH
- Panama Climate Change Project - STRI/Gorgas
- Bighorn Sheep Reintroduction Program – NMGF (18 *Puma concolor*)
- ISLES
- Mongolia
- Western U.S.
- Mammalogy Class
- James Derr *Bison bison* DNA cards (5000)
- Nevada test site hantavirus project (400 specimens)
- Valles Caldera National Preserve
- Cook-graduate students-Frogs, Pumas, Bears
- Peru Birds-Witt
- Mammal & Bird Prep Room
- USGS

Freezer Space:
We still have not been able to replace all of our missing freezers and still remain space challenged with no back-up freezer.

Specimens removed from the collection:
CDC decided not to take the oral swab specimens (11,577) and they are being re-archived in DGR.

Old Projects Cleaned Up by DGR
Russian specimens 250 specimens with multiple tubes.
Re-Nk of double specimens 200.
Finish NK of Bison specimens.
 Archived room temperature DNA.
Bears and Mountain Lions.
NK Wolverine Tongues.

**MSB specimens 2010 including 4,184 specimens, 331 species.**
Count  Scientific_Name
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56
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| 1  | Equus caballus      | 1 | Marmosops        |
| 3  | Euchoreutes naso    | 4 | Marmosops invictus |
| 1  | Eudromia elegans    | 3 | Marmota flaviventris |
| 2  | Falco columbarius   | 2 | Marmota sibirica |
| 1  | Falco mexicanus     | 1 | Martes        |
| 1  | Falco peregrinus nesiotes | 16 | Martes americana |
| 1  | Falco sparverius    | 3 | Martes caurina |
| 1  | Gazella subgutturosa | 2 | Megascops kennicotti |
| 4  | Gazella subgutturosa | 5 | Melanerpes formicivorus |
| 1  | Geococcyx californianus | 1 | Melospiza melodia |
| 16 | Grus canadensis     | 1 | Mephitis mephitis |
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| 1  | Grus canadensis rowani | 19 | Meriones unguiculatus |
| 6  | Gulo gulo           | 5 | Metachirus nudicaudatus |
| 7  | Hemiechinus auritus | 2 | Microtus |
| 12 | Heteromys desmaresianus | 4 | Microtus gregalis |
| 1  | Himantopus mexicanus | 222 | Microtus longicaudus |
| 1  | Hirundo rustica     | 30 | Microtus miurus |
| 1  | Hylocichla mustelina | 121 | Microtus montanus |
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| 2  | Icterus bullockii   | 54 | Microtus pennsylvanicus |
| 1  | Ictinia mississipiensis | 5 | Microtus richardsoni |
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| 1  | Junco hyemalis dorsalis | 10 | Mustela erminea |
| 1  | Junco hyemalis mearnsi | 2 | Mustela frenata |
| 1  | Lanius ludovicianus | 1 | Mustela nivalis |
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| 37 | Lasiopodomys brandti | 2 | Myiarchus cinereascens |
| 40 | Lemmiscus curtatus  | 1 | Myodes |
| 3  | Lemmus trimucronatus | 30 | Myodes gapperi |
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| 14 | Lepus tolai        | 8 | Myotis mystacinus |
| 1  | Leucosticte atrata  | 1 | Myotis volans |
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| 4  | Leucosticte tephrocotis | 8 | Neotoma cinerea |
| 26 | Liomys adpersus     | 14 | Neotoma lepida |
| 1  | Lontra canadensis   | 44 | Neotoma mexicana |
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| 1  | Lophura leucomelas williamsi | 6 | Ochotona pallasi |
| 7  | Loxia curvirostra   | 5 | Odocoileus hemionus |
| 1  | Marmosa             | 2 | Oligoryzomys flavescens |</p>
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5 Sphyrapicus nuchalis 1 Troglodytes aedon
2 Sphyrapicus thyroideus 1 Troglodytidae
2 Spizella pallida 1 Trogon elegans canescens
1 Spizella passerina 5 Turdus migratorius
1 Stelgidopteryx serripennis 1 Tympanuchus pallidicinctus
1 Stellula calliope 1 Tyto alba
1 Sturnella magna 1 Vermivora ruficapilla
1 Sturnella neglecta 16 Vespertilio murinus
30 Stylodipus andrewsi 1 Vireo cassini
8 Sylvilagus audubonii 1 Vireo griseus
1 Sylvilagus brasiliensis 17 Vireo huttoni
2 Sylvilagus nuttallii 1 Vireo plumbeus
1 Tachycineta thalassina 2 Vireo solitarius
1 Tamias 1 Vormela peregusna
4 Tamias amoenus 1 Vulpes vulpes
39 Tamias minimus 14 Wilsonia pusilla
20 Tamias quadriovittatus 1 Xanthocephalus xanthocephalus
4 Tamiasciurus hudsonicus 144 Zapus princeps
2 Taxidea taxus 1 Zapus princeps princeps
4 Thomomys elegans 1 Zenaida macroura
10 Thomomys bottae 2 Zonotrichia albicollis
1 Thomomys idahoensis 1 Zonotrichia leucophrys
8 Thomomys talpoides 2 Zonotrichia leucophrys gambelii
1 Thryomanes bewickii 5 Zonotrichia leucophrys oriantha
13 Thylamys elegans 12 Zygodontomys brevicauda
2 Toxostoma curvirostre 3 unidentifiable
3 Toxostoma redivivum

6. AWARDS, GRANTS, AND CONTRACTS

Cook, J.A.
NSF-DEB 0956129  5/01/2010-4/30/2015
RCN-UBE: Advancing Integration of Museums into Undergraduate Programs (AIM-UP!) (w/ E. Lacey, S. Edwards, S. Ickert-Bond). $485,648

Wilburforce Foundation
A Test of Landscape Connectivity across the Sky Islands Region using Large Carnivores as Model Organisms---II
(co-PI; PI is Gary Roemer, NMSU).

USDA Forest Service
ISLES—Amendment 1 (9/09-12/12)
URM: Undergraduate Nurturing Opportunities (UNO)”; JA Cook, PI; Division of Environmental Biology (DEB) 0731350, National Science Foundation; $1,010,000, August 1, 2007–August 1, 2012, $200,155/year (OH $15,000).

ISLES—Island Survey to Locate Endemics”; J.A. Cook, PI; USDA Forest Service; $100,000, September 1, 2008–September 1, 2012, $50,000/year.

Mongolia Vertebrate Parasite Project”; S. Gardner, PI, J.A. Cook, co-PI; Division of Environmental Biology (DEB) 0717214, National Science Foundation; $466,000, September 11, 2007–September 1, 2009, $ 210,000/year (grant and OH to University of Nebraska).


7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes


B. Journal Articles

Cook, J. A.


A. Web-Based
All MSB publications are available via the web.

B. Books, Chapters, Edited Volumes
See Mammal Division Report, Joseph Cook for specific activity.

D. Technical Reports

C. Theses/Dissertations Complete

F. Work In Progress
Projects
See Mammal Division Report, Joseph Cook for specific activity.

G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers
shrew (Sorex tundrensis) based on mitochondrial genes. Biological Journal of the Linnean Society 101:721-746.


8. ACTIVITIES IN LEARNED SOCIETIES.

A. Invited or plenary talks


B. Contributed Talks/Posters

D. Attendance at professional meetings. Contributed talks or posters
Cook, J.A.
American Society of Mammalogists, Annual Meeting, Laramie, Wyoming, June 2010

D. Service as editor or on editorial board of a journal.
Cook, J.A.

E. Service as officer of professional society or organization.
Cook, J.A.
Member, Board of Directors, American Society of Mammalogists (elected) 2007-2010.

9. OTHER PROFESSIONAL ACTIVITIES.

A. Colloquium Presentations.
See Mammal Division Report, Joseph Cook for specific activity.

B. Presentation to General Audience in a Scholarly Capacity.

C. Presentations in a Scholarly Capacity at Hearings, Workshops, Legislative Committees, etc.
None.

D. Service in a Scholarly Capacity as a Member of a Local, State, Regional or National Committee, Panel etc.
Cook, J.A.
Grant Review Panel, National Science Foundation, 2010.
NSF RCN Oversight Panel NSF, 2010
Member, MSB Executive Committee
Editorial Board, MSB Publications Series
Member, Resolutions Committee, American Society of Mammalogists
Chair, Latin American Scholarship Committee, American Society of Mammalogists

E. Journal Referee.
Cook, J.A.
Journal of Mammalogy (1)
Evolution (1)

Hosting Professional Colleagues and Groups
42 visiting academics and professionals from 25 outside institutions or departments visited the collections for research purposes.

Cook personally hosted the following individuals:
Dr. Enrique Lessa, Universidad Nacional, Montevideo, Uruguay
Dr. Eric Hoberg, National Parasite Lab, Beltsville.
10. SERVICE.

A. Symposia, Workshops, Conferences, etc. Sponsored, Organized, Held etc.
See Mammal Division Report, Joseph Cook for specific activity.

B. Public Service

Joseph Cook:

See Mammal Division Report for specific activity.

Cheryl Parmenter:

Division tours – provided educational tours and assistance for visitors. Answered all division emails and telephone calls.

Visitors:
Dr. Robert Baker
Dr. Gary Simpson
Dr. Robert Parmenter

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

See Mammal Division Report for specific activity.

12. DONATIONS AND GIFTS RECEIVED.
None.

13. CURRENT STAFF.

Faculty:
Joseph A. Cook: Curator of Genomic Resources, Curator of Mammals Museum of Southwestern Biology and Professor the Department of Biology UNM.

Staff:
Cheryl Parmenter: Collection manager 1.0FTE.

Students:
Jessica Weber: Graduate Assistant .05FTE. Fall and Winter semesters.

13. MUSEUM ASSOCIATES.

A. Curatorial Associates

None

B. Research Associates

Robert J. Baker
Troy L. Best

The Museum, Texas Tech University, Lubbock, TX
Department of Biology, Auburn University
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Derr</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td>Jerry Dragoo</td>
<td>UNM Department of Biology</td>
</tr>
<tr>
<td>Jennifer Frey</td>
<td>New Mexico State University,</td>
</tr>
<tr>
<td>Scott L. Gardner</td>
<td>Dept. Nematology, Curator, University Nebraska.</td>
</tr>
<tr>
<td>Bruce J. Hayward</td>
<td>Department of Biology, Western New Mexico University</td>
</tr>
<tr>
<td>Edward J. Heske</td>
<td>Illinois Biological Survey</td>
</tr>
<tr>
<td>Dwight W. Moore</td>
<td>Emporia State University</td>
</tr>
<tr>
<td>Robert Parmenter</td>
<td>Valles Caldera Preserve- Chief Scientist</td>
</tr>
<tr>
<td>James L. Patton</td>
<td>Museum of Vertebrate Zoology, University of California</td>
</tr>
<tr>
<td>Luis Ruedas</td>
<td>Portland State University, Portland, Oregon</td>
</tr>
<tr>
<td>Jorge-Salazar Bravo</td>
<td>Texas Tech University, Lubbock, TX</td>
</tr>
</tbody>
</table>
HERBARIUM

1. DIVISION HIGHLIGHTS

The UNM herbarium contained more than 123,522 accessioned specimens of vascular and non-vascular plants at the end of 2010.

Interpretive activities or Collections-related Outreach including tours for UNM students and the Native Plant Society of New Mexico and maintaining the Herbarium webpage.

The Herbarium continues to provide the leadership for the statewide collection database, New Mexico Biodiversity Consortium (NMBCC), which serves natural history specimen data via the World Wide Web.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Growth (specimens catalogued &amp; entered in collection)</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>
</thead>
<tbody>
<tr>
<td>4517</td>
<td>20/759</td>
<td>11/475</td>
<td>245</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

3. COURSES USING THE COLLECTIONS

Bio 463- Flora of New Mexico- Fall 2010

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Manager

**Hanson, D.**
Biol. 578L- Plant Physiology – 2 Graduate Students
Bio 478L: Plant Physiology - 14 undergrads
BIO 204L: Plant and Animal Form and Function - 175 students

**Lowrey, T.K.**
Biol. 499, Research Problems.
Biol. 463- Flora of New Mexico- 13 students

B. Graduate Students/Associates

**Bixby, R.J.**
BIOL 495 – Limnology
5. COLLECTION MANAGEMENT

Herbarium staff processed and added 4517 new acquisitions to the collection. The UNM Herbarium received 35 gifts of specimens, totaling 4517 specimens. The majority of specimens were collected from New Mexico.

The herbarium logged more than 247 visits from the botanical community as well as group visits by schools and organizations. We average 2-3 information requests per week by e-mail and/or phone, and the Biodiversity website receives many hits per month for herbaria in the state.

Accessions for 2010:

2010.01 NHNM, Yvonne Chauvin, 115 specimens, Parkinson Ranch –Roosevelt County.
2010.02 NHNM, Yvonne Chauvin, 24 specimens
2010.03 R. Sivinski, 1 specimen
2010.04 Jim McGrath, 136 specimens
2010.05 Mike Howard, 9 BLM vouchers for Seeds of Success
2010.06 NHNM, Yvonne Chauvin, 14 specimens
2010.07 Tim Lowrey, 2 Townsendia by R.A. Denham
2010.08 Bill Martin (27 Nov. 1923 – 18 Jan. 2010), 93 specimens found in Bill’s office.
2010.09R. Sivinski 2009 collections, 320 sheets.
2010.10IS TC. Steve Okane. One Isotype of Physaria scrotiformis.
2010.11 Joanne Schleger, NY, 16 specimens Ateraceae and Urticaceae.
2010.12 BRY- 24 specimens sent on exchange.
2010.13 Jim Nellesen 34 Specimens.
2010.14 ASC, Flagstaff. 82 specimens from Ecological Restoration Institute Sites
2010.15 College of Santa Fe, 3000 Herbarium specimens - flowering plants and bryophytes.
2010.16 Julie Korb, ASC, Flagstaff. 8 exotics from National Parks.
2010.17 Sevilleta – found 8 grasses in cabinet.
2010.18 Laird McIntosh, 41 old specimens from the Gray Ranch.
2010.19 Tim Lowrey’s Medicinals, 45 Various from Tim.
2010.21 NHNM, Yvonne Chauvin, 93 Riparian and Playa Specimens
2010.22 Steve Reed. 11 specimens plus dupes (Erigeron hessii and Townsendia spp.)
2010.24 Bill Dunn, UNM graduate student, 2 Juncus from Colorado.
2010.25 Bob Merkel. 1 Streptanthella longirostris.
2010.26 Chick Keller. 6 specimens from Northern New Mexico.
2010.27 Jack Carter, Silver City. 54 Specimens.
2010.28 Rocky Mountain Herbarium (RM). 6 specimens from Guy Nesom and Ron Hartman
2010.29 Jane Mygatt. 17 Nettles from California.
2010.30 Ellen DeBruin. 33 specimens from the Gray Ranch in Dave Bleakley’s Cabinet.
6. AWARDS, GRANTS, AND CONTRACTS
Awarded:


$480,000 (360,000 to UNM). Collaborative Research: Light enhanced $^{13}$C enrichment of dark respired CO$_2$: Implications for leaf internal CO$_2$ conductance and respiration in the light. **D.T. Hanson**, Nate McDowell, and Todd Rosenstiel (Portland State University). National Science Foundation Integrative Organismal Biology Environmental and Structural Systems Cluster. Award period: 08/15/2007 - 06/30/2010

$20,909. *From Benchtop to Raceway: Dynamic biological processes in algal communities:* Sandia National Laboratory subcontract, 06/01/10-09/31/10. David T. Hanson (on subcontract).

7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes

B. Journal Articles


*journal cover article*


C. Web-Based / Curriculum Development

D. Technical Reports


Tonne, P. 2010. Status report for Chihuahua Scurf pea (*Pediomelum pentaphyllum*; Fabaceae). Natural Heritage New Mexico, University of New Mexico, Albuquerque, NM.
Tonne, P. 2010. Pollination Ecology of the Todsen's Pennyroyal (*Hedeoma todsenii*) in the San Andres and Sacramento Mountains. Natural Heritage New Mexico, University of New Mexico, Albuquerque, NM.

Tonne, P. 2010. Surveys for the Chihuahua Scurf Pea (*Pediomelum pentaphyllum*; Fabaceae) within an area of proposed use for Border Patrol Operations and Facilities on Federal Lands. BLM – Las Cruces District Office. Natural Heritage New Mexico, University of New Mexico, Albuquerque, NM.

E. Theses/Dissertations Completed

F. Work In Progress

G. Publications/Reports Based on MSB Specimens (including outside researchers)


8. ACTIVITIES IN LEARNED SOCIETIES

A. Invited/Plenary Talks and/or Seminars

B. Contributed Talks/Posters


Bixby, R.J. and A.S. Burdett. 2010. Nutrient and water quality influences on periphyton biomass and community composition in an aridland river. 21st International Diatom Symposium, St. Paul, MN.

C. Attendance at Professional Meetings

Hanson, D. T. American Society of Plant Biologists; Montreal, Canada; July 2010


D. Service as Editor or on Editorial Board of a Journal

Bixby, R.J.
Editorial Board, *Diatom Research*, 2005-present

Lowrey, T.K.

E. Service as Officer of Professional Society/Organization

Hanson, D.T.
Vice-Chair/Chair, Gordon Research Conference on CO$_2$ Assimilation in Plants, August 30, 2008–August 30, 2014 (elected). Secretary, UNM Chapter of Sigma Xi, August 1, 2008–August 1, 2011 (appointed).

Lowrey, T.K.
Member, Board of Directors, Flora North America, Elected.

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentation to General Audience in a Scholarly Capacity (*presenter*)

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.

Hanson, D.T.
Grant Reviewer, National Science Foundation 2010
Panel Member, National Science Foundation 2010
Grant Reviewer, SWISS National Science Foundation 2010

Lowrey, T.K.
Member, New Mexico Rare Plant Technical Council
Member, Native Plant Society of New Mexico

Mygatt, J.
Member, New Mexico Rare Plant Technical Council
Member, Native Plant Society of New Mexico

Sivinski, R.
Member, New Mexico Rare Plant Technical Council
Member, Native Plant Society of New Mexico

**Tonne, P.C.**
Member, New Mexico Rare Plant Technical Council.

**D. Journal Referee**

**Bixby, R.J.**
Botany (1), Journal of the North American Benthological Society (1)

**Hanson, D.T.**
Acta Oecologia 2
BMC Plant Biology 1
Canadian Journal of Forest Research 2
ISMEJ 1
New Phytologist 2
Plant, Cell and Environment 2
Physiologia Plantarum 2

**Lowrey, T.K.**
International Journal of Plant Science (1)
Madrono (3)
Systematic Botany (1)

**E. Hosting Professional Colloquia and Groups**

**10. SERVICE**

**A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.**

**B. Public Service**

**Lowrey, T.K.**
Plant Identification for the general public in the UNM Herbarium.

**Mygatt, J.**
Webmaster of the Native Plant Society of New Mexico website. http://npsnm.unm.edu

**C. University and Departmental Committees**

**Hanson, D. T.**
Biology Department Seminars Committee
Greenhouse Committee
Seminars Committee

**Lowrey, T.K.**
Policy Committee, UNM Faculty Senate
Committee on Governance
Biology Dept. Space Committee

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

12. DONATIONS AND GIFTS RECEIVED

$500 annually. Native Plant Society donation for New Mexico Herbaria.

13. CURRENT STAFF (List Faculty/Staff, Students and Volunteers)

A. Faculty/Staff
Lowrey, T.K., Curator
Mygatt, J., Collection Manager

B. Graduate students
Murphy, K.R. (Spring and Fall 2009)

C. Undergraduate Student Workers and Volunteers

14. MUSEUM ASSOCIATES

A. Curatorial Associates
Hanson, D.T., UNM Faculty (Curator of Bryophytes)
Sivinski, R., New Mexico State Botanist

B. Research Associates
Bixby, R.J. UNM Research Associate, Diatoms
Bleakly, D., Botanical Consultant
Carter, J.L., Emeritus Professor, Colorado College and Botanist
Dunmire, W., Retired U.S. National Park Service and Author
Keller, C., Retired, Los Alamos National Laboratory
Knight, P., Botanical Consultant
Tonne, P., Natural Heritage New Mexico, Rare Plant Botanist
1. DIVISION HIGHLIGHTS.

A. Collection Growth. The DOM added 10,416 specimens to its catalogue during 2010 and now contains over 210,000 specimens. DGR records are currently being converted to DOM records as they are catalogued into the DOM. When mammal specimens from the DGR and DOM are combined, the MSB holds over 240,000 mammal specimens (3rd largest collection in the Western Hemisphere).

The collection remains among the fastest growing in the world. The continued exceptional growth is the result of a number of important facets of our operation:

a. Specimen growth through fieldwork
   i. Directed specimen-based studies within Joe Cook’s research program.
   ii. Highly successful fieldwork in a wide variety of projects spanning the Western Hemisphere, eastern Asia, and collaborations with state and federal resource agencies in the western US and Canada. Work primarily sponsored by the National Science Foundation, National Institutes of Health, USDA Forest Service and US Fish and Wildlife Service.
   iii. New initiatives focused on building the collection in certain geographic regions.

b. Specimen growth through donation
   i. A well-developed network of researchers and agencies worldwide which are now heavily invested in the strength of the DOM and continue to deposit their material here.
   ii. Donations of personal collections from individual researchers.

The fact that we continue to grow as a repository for research material points to the strength and good standing of the collection in the greater scientific community.

B. Training in specimen based research and curation. Training remains one of the integral goals of the DOM. Students are involved in all activities of the division. During 2010, 29 students worked in the division at some point (3 graduate students, 21 undergraduates and 2 high school interns, 3 volunteers. Of these, 19 were females, 10 males, and 10 from under-represented groups. Students gain experience in bioinformatics, natural history collection preparation and curation, and field and laboratory based research.

D. Arctos database and collection accessibility. The Arctos database is a cutting-edge relational database that continues to provide an invaluable resource for researchers worldwide. Arctos is web-accessible and greatly enhances the visibility of the MSB. Since 2008, we saw an increase from 35,000 site visits to Arctos to 155,000 in 2010, demonstrating that usage continues to climb. Importantly, 5,745 (3.70%) visits came through referrals from the NCBI website. Additionally, 64% of our visitors were new, suggesting a good balance of new and return users. Access from foreign countries also increased from 187 visits to 208. Further resources would improve accessbility of our website, especially the front end interface where the majority of our interactions with the community lie.

E. NSF BRC Improvement grant – “Curation, Data Basing and Integration of the Orphaned Illinois Mammal Collection”. UIMNH Collection Integration: The integration of the 32,746 specimens from the UIMNH collection was completed and all data and specimens are now available. All records with sufficient locality data have been accurately georeferenced (27,778 of 32,742).

Student training in UIMNH project: This project was instrumental in helping to convey the historical and future value of specimens to the next generation of environmental scientists. A total of 26 students (5 Graduate students, 19 undergraduate students, 2 high school interns) were trained in techniques of database development and specimen preservation and curation (including 9 minority students and 14 females).

F. Integration of USGS Collection. Great progress was made during 2010 in terms of integrating the USGS Biological Surveys collection (25,000 specimens) with 100% of the collection now fully integrated.

2. COLLECTION USE

<table>
<thead>
<tr>
<th>Collection Goals</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visits</th>
<th>Information Requests</th>
<th>Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimens entered</td>
<td>10,416*</td>
<td>17(197) / 36(61)</td>
<td>6</td>
<td>341**</td>
<td>&gt;500***</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>42</td>
</tr>
</tbody>
</table>

* Currently the fastest growing mammal collection worldwide.
** Loans originating in DOM / loans of mammal tissue originating in DGR
Combined total of 53 loans of 6151 specimens of traditional voucher specimens, mammalian parasites, and tissue samples.
*** 43 visiting researchers from 25 institutions, 11 school group tours (185 people), 8 UNM classes (94 students), 19 other visitors.
Estimate of email or phone requests to Jon Dunnum and Joe Cook. Web visits to the DOM searchable database (ARCTOS) tracked via Google analytics = 155,309 visits (from 208 countries (3.7% (5,745) visitors referred to our site from GenBank).

3. COURSES USING THE COLLECTIONS

Classes receiving loans of material for educational purposes
UNM BIOL 204L - Plant and Animal Form and Function, Spring
BIOL 204L - Plant and Animal Form and Function, Fall
UNM BIOL 386L General Vertebrate Zoology, Spring
UNM BIOL 489 Mammalogy, Fall
UNM NTSC 262L Spring
UNM NTSC 262L Fall

UNM Courses using collection
BIOL 461/561 Tropical Biology (12 students)
BIOL 489L Mammalogy (15 students)
Drawing I
Freshman Learning LLC (15 students)
ART 387 (Photo interior spaces) (2 students)
BIOL 599 Master Thesis (2 student)
BIOL 699 Dissertation (6 students)

Visiting researchers: 43 from 25 institutions or departments

Alpine Archeology Inc.
Bat Conservation International
Centro de Investigaciones Biologias (Mexico)
Florida Museum of Natural History
Ft. Hayes University
Indiana University
Instituto de Ecologia A.C. & Asociacion
Mexicana de Mastozoologia (Mexico)
Louisiana State University
New Mexico Dept. Game and Fish
New Mexico Museum of Natural History
Pueblo of Santa Ana
US Geological Survey
Rotterdam Natural History Museum
US Forest Service
Univ California- Riverside
Univ Central Oklahoma
Univ Nebraska-Lincoln
Univ North Carolina-Chapel Hill
The Wilderness Society
Texas Tech University
UNM Anthropology
UNM Center for Global Health
UNM Maxwell Museum
UNM Office of Contract Archeology
UNM Biology
UNM Art & Ecology
UNM Art History

Educational tours
UNM Classes: 94 students from 8 classes
Paleoecology Lab
Tropical Biology
Museum Studies
Photography (387?) Interior Spaces class
Freshman LLC Class
AISES
Drawing I Class
UNM Valencia campus

K-12 schools and educational groups: 185 students from 11 groups
  Johns Hopkins
  Dine College
  APS under-represented groups afterschool program (25 students)
  Escuela del Sol Montessori School
  Highland High School Anatomy and Physiology class (18 students)
  Mesa Middle School (Mora, NM)
  National Museum of Nuclear Science and History
    – Awesome Anatomy, Science is Everywhere
    Summer camp
  Rio Rancho Headstart
  St. Pius High School microbiology class
  Summer Majik
  Zia Elementary School

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

Cook, J. A.
Spring: Biol. 461/561, Introduction to Tropical Biology, 12 students
Fall: Biol. 489, Mammalogy, 15 students

Student Mentoring
Undergraduates

2. David Banks-Richardson, UnO Program, worked in molecular genetics lab and museum, January 1–August 1, 2010.
6. Justin Pichardo, UnO Program,

**High school interns**
1. Shane Wilder, June-August 2010
2. Dana Jarigese, June-August 2010

**B. Graduate Students (labs, etc.)**
BIOL 489L – Mammalogy Lab
BIOL 386L - General Vertebrate Zoology Lab

**5. COLLECTION MANAGEMENT**
The DOM received 65 new accessions of material (over 10,000 specimens) and added approximately 10,000 specimens to its catalogue during 2010. DGR records are currently being converted to DOM records as they are catalogued into the DOM.

**Current projects generating specimens for DOM**
- Beringian Coevolution Project - NSF
- Mexican wolf reintroduction – USFWS (130 blood samples, 12 whole animals)
- Mongolian Vertebrate Parasite Project – NSF (550 specimens)
- Chilean Hantavirus Project – ICIDR NIH
- Panama Hantavirus – ICIDR NIH
- Panama Climate Change Project - STRI/Gorgas
- Bighorn Sheep Reintroduction Program – NMGF (18 *Puma concolor*)
- ISLES—USDA Forest Service
- Jackson Whitman carnivore collection (800 small mammals ID, AK)
- James Derr *Bison bison* DNA cards (5000)
- Nevada Test site hantavirus project (400 specimens)

The majority of staff time was spent:
1. Integration of USGS and UIMNH material into the main collection.
2. Development of the Arctos database.
3. Reorganizing and relabeling of dry collections.
4. Training student technicians and UnO students in museum work.
5. Preparation, cataloging and installation of museum specimens.
6. Data entry for the incoming accessions.
7. Filling information requests.
8. Processing loan material.
9. Assisting with BIOL 489 – Mammalogy and other courses.

**6. AWARDS, GRANTS, AND CONTRACTS**

**Bell, K.C.**
1. Biology Graduate Students Association, University of New Mexico (2010).

Cook, J.A.
1. NSF-DEB 0956129 5/01/2010-4/30/2015
RCN-UBE: Advancing Integration of Museums into Undergraduate Programs (AIM-UP!) (w/ E. Lacey, S. Edwards, S. Ickert-Bond). $485,648

2. Wilburforce Foundation
A Test of Landscape Connectivity across the Sky Islands Region using Large Carnivores as Model Organisms---II (co-PI; PI is Gary Roemer, NMSU).

3. USDA Forest Service
ISLES—Amendment 1 (9/09-12/12)

4. “URM: Undergraduate Nurturing Opportunities (UNO)”; JA Cook, PI; Division of Environmental Biology (DEB) 0731350, National Science Foundation; $1,010,000, August 1, 2007–August 1, 2012, $200,155/year (OH $15,000).

5. “ISLES—Island Survey to Locate Endemics”; J.A. Cook, PI; USDA Forest Service; $100,000, September 1, 2008–September 1, 2012, $50,000/year.

6. “Mongolia Vertebrate Parasite Project”; S. Gardner, PI, J.A. Cook, co-PI; Division of Environmental Biology (DEB) 0717214, National Science Foundation; $466,000, September 11, 2007–September 1, 2009, $210,000/year (grant and OH to University of Nebraska).


Dunnun, J. L.

2. Improved housing of Mexican wolf (Canis lupus baileyi) specimens and its conservation in New Mexico. U. S. Fish and Wildlife Service. Total $7,000 (No F&A).

Hope, A

Rearick, J.
1. 2nd year of 3-year National Science Foundation Graduate Fellowship.

Malaney, J
1. $5,000 – Cryptic lineages, phylogeography, and conservation genetics of the endangered Zapus hudsonius luteus and Zapus princeps princeps in the Southwest – UNM Graduate Research Development grant

7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes
Cook, J.A.

Dragoo, J.

B. Journal Articles

Bell, K.C.

Cook, J. A.
Dunnum, J.L.

Hope, A.G

Malaney, J.L.

C. Web-Based
All publications in the MSB series are available via free-download from our website.

D. Technical Reports

E. Theses/Dissertations Completed


F. Work In Progress (Only in press and already submitted)

Bell, K.C.


Cook, J. A.


Dunnum, JL

1. Dunnum, J. L. Family Caviidae, in Mammals of South America vol. II Rodents (James Patton, ed.). University of Chicago Press. Accepted.

Hope, A


G. Publications/Reports Based on MSB Specimens/Data by Outside Researchers


8. ACTIVITIES IN LEARNED SOCIETIES

J.A. Cook


B. Contributed Talks/Posters

Bell, K.C.

Cook, J.A.


Hope, A.

Malaney, J.

C. Attendance at Professional Meetings

Bell, K.C.
American Society of Parasitologists, Colorado Springs, CO
American Society of Mammalogists, Laramie, WY

Cook, JA.
American Society of Mammalogists, Laramie, Wyoming, June 2010

Dunnum, J.L.
American Society of Mammalogists, Laramie, Wyoming, June 2010

Hope, A. G.

Malaney, J.
D. Service as Editor or on Editorial Board of a Journal

Cook, J.A.

E. Service as Officer or Professional Society/Organization

Cook, J.A.
Member, Board of Directors, American Society of Mammalogists (elected) 2007-2010.

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentations to General Audience in a Scholarly Capacity

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.

Cook, J.A.
Grant Review Panel, National Science Foundation, Fall 2010.
Member, MSB Executive Committee
Editorial Board, MSB Publications Series
Member, Resolutions Committee, American Society of Mammalogists
Chair, Latin American Scholarship Committee, American Society of Mammalogists

D. Journal Referee

Cook, J.A.
Journal of Mammalogy (1)
Evolution (1)

Dunnun, J.L.
AMNH Novitates (1)
Journal of Mammalogy (1)
Genetics and Molecular Biology (1)
Journal of Experimental Zoology (1)

Hope, A
Journal of Biogeography (1)
Northeastern Naturalist (1)

Malaney, J
Southwestern Naturalist (1)
E. Hosting Professional Colleagues and Groups
42 visiting academics and professionals from 25 outside institutions or departments visited the collections for research purposes.

Cook personally hosted the following individuals:
  Dr. Enrique Lessa, Universidad Nacional, Montivideo, Uruguay
  Dr. Eric Hoberg, National Parasite Lab, Beltsville.

10. SERVICE

A. Symposia, Workshops, Conferences, etc. Sponsored, Organized, Held, etc.

B. Public Service

General

A significant portion of DOM staff time is spent providing information or assistance to the public either during visits to the collection, through phone calls, emails or through outreach endeavors. This is an important and ongoing activity of all DOM personnel.

Cook, J. A.

1. Faculty Sponsor, UNM NM Wilderness Alliance, Student Organization

Dunnum, J. L.

1. Division tours – provided educational tours and information for visitors and school groups. 341 visitors to collection.
2. Presentation on evolution and adaptations – Truman Middle School.

12. DONATIONS AND GIFTS RECEIVED

Lackey Collection
B. J. Hayward Fund established, $15,000

13. CURRENT STAFF

A. Faculty/Staff

J.A. Cook, Curator
J.L. Dunnum, Collection Manager
C.A. Ramotnik, USGS Collection Manager
M.A. Bogan, Emeritus Curator
J.S. Findley, Emeritus Curator
Stephen O. MacDonald, Curator II
B. Graduate students

Barker, Brittany. 5th year Ph.D. student. Landscape genetics of two frogs from Puerto Rico: *Eleutherodactylus antillensis* and *E. portoricensis*.

Escobedo, Yadeeh. 4th year Ph.D. Linkage corridors along the North Pacific Coast.

Kavanaugh, John. 2nd year Master’s student.

Hope, Andrew. Ph.D. Candidate. Comparative phylogeography of trans-Beringian *Sorex*: a tool for investigating geographic and genetic responses to climate change.

Malaney, Jason. 5th Ph.D. student. *Zapus* and *Lepus* historical biogeography and plant herbivore coevolution.

Rearick, Jolene. 4th year Ph.D. Phylogeography and molecular evolution of freeze tolerance in *Lithobates sylvaticus*.

Thomas, Jason Andrew. 5th year Ph.D. student. Phylogeography of the Sin Nombre virus, *Peromyscus maniculatus*: a coevolutionary relationship.

Brooks Kohl. 1st year Master’s student. Phylogeography of high latitude *Myodes*.

C. Undergraduate Student Workers and Volunteers

22 undergraduate students

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
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<tbody>
<tr>
<td>Jamie Raines</td>
<td>Elizabeth Glenn</td>
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<tr>
<td>Randle McCain</td>
<td>Kate Cauthen</td>
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<tr>
<td>Justin Pichardo</td>
<td>Andrea Kartchner</td>
</tr>
<tr>
<td>Kyle Crossey</td>
<td>Jackson Sabol</td>
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<tr>
<td>Hiyatsi Bassett</td>
<td>Sienna Wright</td>
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<tr>
<td>Melissa Picchione</td>
<td>Kelly Speer</td>
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<tr>
<td>Audrey Chismar</td>
<td>Sadie Yurista</td>
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<tr>
<td>Joanna Johnson</td>
<td>Sienna Wright</td>
</tr>
<tr>
<td>Diego Joshua Matek</td>
<td>Eudora Claw</td>
</tr>
<tr>
<td>Sophia Thompson</td>
<td>David Banks Richardson</td>
</tr>
<tr>
<td>Ashley Smiley</td>
<td>Andrea Jackson</td>
</tr>
</tbody>
</table>

2 Volunteers

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Loren Ortiz</td>
</tr>
<tr>
<td>Sonia Peterson</td>
</tr>
<tr>
<td>Aja King</td>
</tr>
</tbody>
</table>
2 high school interns
  Dana Jarigese
  Shane Wilder

14. MUSEUM ASSOCIATES

A. Curatorial Associates

James H. Brown, UNM Department of Biology
Jerry W. Dragoo, UNM Department of Biology
William Gannon, UNM Research Ethics
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
Fernando Cervantes, UNAM, México City, México
Paul J. Cryan, Ft. Collins, Colorado
John Demboski, Denver Museum of Science and Nature, Denver, 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
Tony R. Mollhagen, Lubbock, Texas
Gary Morgan, New Mexico Museum Natural History, New Mexico
Dwight W. Moore, Emporia State University
Michael J. O’Farrell, Jr., Las Vegas, Nevada
Thomas J. O’Shea, Ft. Collins, Colorado
Eduardo Palma, Valdavia, Chile
Robert Parmenter, Valles Caldera, Jemez, New Mexico
James L. Patton, Museum of Vertebrate Zoology, Berkeley, California
Paul J. Polechla, Albuquerque, New Mexico
Robert Rausch, University of Washington, Seattle
Brett R. Riddle, University of Nevada, Las Vegas, NV
Jorge Salazar Bravo, Texas Tech University, Texas
C. Greg Schmitt, Farmington, New Mexico
Richard E. Sherwin, Christopher Newport University, Virginia
Fred Szalay, Los Ranchos de la Rio Grande, New Mexico
Sandy Talbot, Molecular Ecology Lab- USGS Anchorage, Alaska
Ernie Valdez, Tijeras, New Mexico
Alasdair Veitch, Department of Renewable Resources, Norman Wells, NWT, Canada
Jack Whitman, Alaska Department of Fish and Game – Fairbanks, Alaska
Don E. Wilson, Smithsonian, Washington, DC
Nyamsuren Batsaikhan, National University of Mongolia, Ulaan Baatar
Natural Heritage New Mexico Division

1. DIVISION HIGHLIGHTS

In 2010, the Natural Heritage New Mexico Division continued to work with agencies and private partners to conduct a suite of conservation science projects and build its conservation information data systems. Within the division, there are four working groups: Conservation Data Center, Conservation Ecology, Zoology, and Botany.

As part of our service role in the museum to provide conservation information to the broader public as well as for research, the Conservation Data Center Group (Rayo McCollough, Lead; Teri Neville, GIS manager) worked on projects to make conservation data more readily available via the web. We have helped facilitate improvements in the NMBCC (New Mexico Biodiversity Collections Consortium), http://nmbiodiversity.org/. We are continuing are work with the U.S. Fish and Wildlife Service, U.S. Forest Service, Bureau of Land Management, NM Department of Game and Fish, NM Energy, Minerals and Natural Resources Department to gather, enter, and quality control data on the State’s sensitive species and to build tools for dissemination of that information via the web.

The Conservation Ecology Group (Esteban Muldavin, Lead; Elizabeth Milford, Riparian Ecologist; and Paul Arbetan, Assoc. Ecologist). In collaboration with New Mexico Environment Department (NMED), we completed the first version of the “New Mexico Rapid Assessment Method” (NMRAM) for New Mexico’s wetlands and riparian areas. The goal of the NMRAM was to develop a tool of easily applied landscape, biotic, and abiotic metrics to evaluate and rank the ecological condition and function of wetlands for conservation, restoration, and management. The outcome was a manual and field guide to be used by a broad spectrum of agencies and NGOs that are now available on the NMED and NHNM websites. As part of the Collaborative Forest Restoration Program (USFS) grant at a post-fire riparian restoration site in the Middle Rio Grande near Belen restoration, we completed the initial sampling as part of a multi-group monitoring for the project that includes Middle Rio Grande Conservancy District, Inter-state Stream Commission, Hawks Aloft, Inc., and the Bosque Ecosystem Monitoring Program (BEMP). In cooperation with the U.S. Army Corps of Engineers, we continued the data acquisition and entry of a legacy dataset of the middle Rio Grande Hink and Ohmart ecological studies from the early 1980s, and completed the re-establishment and rereading of a set of their transects as the foundation for an analysis of ecosystem change over the last 40 years in the middle Rio Grande. Working with the Bureau of Land Management (BLM), we completed another year of monitoring and analysis of vegetation response following removal of grazing in an Area of Critical Environmental Concern (ACEC) in the lower reach of the Santa Fe River. With respect to our upland projects, we completed vegetation classifications and maps for Capulin Volcano National Monument and White Sands National Monument. We continued work on similar maps for El Malpais National Monument, Guadalupe Mountains National Park, Pecos National Monument, and Fort Davis National Monument. The data collected on national parks will provide a valuable reference dataset for comparing the potential conservation value of other sites around the state. We continued providing biological monitoring and assessment for New Mexico Army National Guard lands. We participated in a multi-state Integrated Landscape Analysis Project (ILAP) sponsored by the U.S. Forest Service that included the acquisition and
databasing of vegetation data from USFS and BLM lands across New Mexico and Arizona and the development of vegetation dynamics models for target ecosystems to support wall-to-wall spatial models of ecosystem change across the two states. We continued our research and monitoring work in pinyon-juniper ecosystems with an on-going analysis of the effects of planned and unplanned fires in pinyon-juniper woodlands of the USFWS San Andres National Wildlife Refuge in south-central New Mexico, and on BLM lands in the Wild Rivers Recreation along the Rio Grande in north-central New Mexico.

The Zoology Group conducts field research and modeling of the habitats of animal species of conservation concern in New Mexico. In 2010, we cooperated with the National Park Service to complete Natural Resource Condition Assessments for Pecos National Historical Park and Fort Union National Monument. We finished year two of a three-year, multi-scale habitat modeling study of pinyon-juniper birds on three DOD installations. We conducted a second year of monitoring grassland birds and raptors at Holloman Air Force Base. We surveyed migrating and breeding wetland birds and completed a revised operational plan for constructed wetland management at the Lake Holloman Wetland Complex Area. Finally, we created a web map interface of Gunnison’s prairie dog occurrence data for the NM Department of Game and Fish.

For the Botany Group (Phil Tonne, Lead), our focus was on two key sensitive species in the state: the Chihuahua scurf pea and Holy Ghost Ipomopsis. We have focused on documenting the sole New Mexico population (one of two recorded globally in recent history) and informing public agencies of its conservation needs. For Holy Ghost Ipomopsis, we partnered with the State Forestry Division and U.S. Forest Service to implement critical forest-thinning projects in Holy Ghost Canyon, the only natural population of this rare plant. Documenting and implementing management needs such as forest thinning is critical to understanding the habitat needs of this endangered plant.

2. TABLE OF COLLECTION USE

<table>
<thead>
<tr>
<th>Collection</th>
<th>Growth (specimens catalogued)</th>
<th>Loans (outgoing)</th>
<th>Loans (incoming)</th>
<th>Visitors</th>
<th>Info/Requests Personally Responded</th>
<th>Publications Count</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7,898 new records, 9,457 updated records</td>
<td>NA</td>
<td>NA</td>
<td>9,455 to web site</td>
<td>143 personally, 42,403 pubs downloaded</td>
<td>UNKNOWN</td>
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</tbody>
</table>

3. COURSES USING THE COLLECTIONS

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

B. Staff

None.
5. COLLECTION MANAGEMENT
As part of our service role in the museum to provide conservation data to the broader public as well as for research, in 2010 the Conservation Data Management Group worked on several initiatives to add to our conservation information. We added over 2,000 records and updated another 570 to our NMBiotics database, and we added over 1,100 records to our new Web data-entry database. These combined conservation data sets were made available to partners via the updated web mapping website for data discovery and analysis. We created an online data-entry website so authorized biologists can enter data from anywhere they have an internet connection. We also worked on several initiatives to build our conservation database (see Section 1). As an outcome of our database activities, we completed 141 information requests.

6. AWARDS, GRANTS, AND CONTRACTS

NHNM AWARDS:

$66,150. NM Military Affairs Dept. Banner #048897. Rare, protected, and endangered and threatened species survey for Roswell WETS. Paul Arbetan, PI. 10/07-12/10. $33,864 (F&A $5,690).

$50,000. NM Military Affairs Dept. Banner #048898. Rare, protected, and endangered and threatened species survey for Black Mtn. Training Site; Night-blooming Cereus monitoring & surveys. Paul Arbetan, PI. 10/07-12/10. $21,450 (F&A $3,575).

$47,000. NM Military Affairs Dept. Banner #04800S. Aplomado falcon habitat survey. Paul Arbetan, PI. 02/09-12/10. $30,625 (F&A $5,104).


$81,238. NM Military Affairs Dept. Banner #04805F. Integrated Natural Resources Management Plan Revision. Paul Arbetan, PI. 10/10-3/12. $0 (F&A $0).


$50,000. Army Corps of Engineers. Banner #04800V. Pinyon jay surveys at Kirtland AFB. Kristine Johnson, PI. 03/09-12/10. $26,839 (F&A $3,397).

$40,000. Dept. of Defense. Banner #04800C. Raptor surveys at Holloman AFB. Kristine Johnson, PI. 01/09-09/11. $19,514 (F&A $4,503).

$85,000. Dept. of Defense. Banner #04800D. Grassland bird surveys at Holloman AFB. Kristine Johnson, PI. 01/09-09/11. $29,966 (F&A $6,915).


$85,000. Dept. of Defense. Banner #04803X. Grassland bird surveys at Holloman AFB. Kristine Johnson, PI. 05/10-03/12. $2,538 (F&A $571).

$40,000. Dept. of Defense. Banner #04803Y. Raptor surveys at Holloman AFB. Kristine Johnson, PI. 05/10-12/11. $5,918 (F&A $1,330).


$72,400. NM Dept. of Game and Fish. Banner #048960. Remote-sensing monitoring of black-tailed prairie dogs. Kristine Johnson, PI. 08/08-06/10. $27,099 (F&A $4,517).

$49,950. NM Dept. of Game and Fish. Banner #04803W. Gunnison’s prairie dog surveys. Kristine Johnson, PI. 05/10-02/11. $4,321 (F&A $720).


$15,000. BLM. Banner #04804D. Biological resources data collection and storage 2010. Rayo McCollough, PI. 10/09-09/12. $5,330 (F&A $794).


$16,700. NM Dept. of Game and Fish. Banner #04801K. Abstracts for species of greatest conservation need. Rayo McCollough, PI. 05/09-05/10. $6,337 (F&A $1,056).
$13,000. NM Dept. of Game and Fish. Banner #04805D. Organizing federally listed species information. Rayo McCollough, PI. 11/10-10/11. $1,646 (F&A $274).

$13,744. NM Dept. of Game and Fish. Banner #04806O. Organizing federally listed species information (BISON-M). Rayo McCollough, PI: 11/10-10/11. $0 (F&A $0).

$18,000. NM Environment Dept. Banner #04801W. NM rapid assessment database – final requirements. Rayo McCollough, PI. 07/09-10/10. $9,248 (F&A $1,541).

$25,000. BLM. Banner #04802Q. Santa Fe River vegetation map. Esteban Muldavin, PI. 10/09-09/12. $8,957 (F&A $1,334).

$30,000. BLM. Banner #04802P. Pinyon-juniper woodlands and bird diversity in Wild Rivers Recreation Area. Esteban Muldavin, PI. 10/09-10/11. $20,399 (F&A $3,038).

$20,000. BLM. Banner #04806N. Pediomelum pentaphyllum surveys Esteban Muldavin, PI. 10/09-09/12. $0 (F&A $0).


$152,363. NPS. Banner #048721. Vegetation map for Petroglyphs Nat’l Monument. Esteban Muldavin, PI. 06/06-03/11. $3,407 (F&A $444).


$69,928. NPS. Banner #048847. Monitoring long-term vegetation dynamics in Big Bend Nat’l. Park. Esteban Muldavin, PI. 09/07-12/10. $6,076 (F&A $905).

$65,472. NPS. Banner #048819. Vegetation mapping at Capulin Volcano NM & Pecos NHP. Esteban Muldavin, PI. 05/07-04/10. $20,968 (F&A $3,123).


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<th>Amount</th>
<th>Agency</th>
<th>Banner #</th>
<th>Project Description</th>
<th>PI</th>
<th>Start-Date</th>
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<th>Direct-Cost</th>
<th>F&amp;A-Cost</th>
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<td>$16,000.</td>
<td>NPS</td>
<td>048842</td>
<td>Map tamarisk park-wide – White Sands Nat’l. Monument.</td>
<td>Esteban Muldavin</td>
<td>09/07-01/10</td>
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<td>048963</td>
<td>Evaluating vegetation response to prescribed fire at San Andres Nat’l. Wildlife Refuge.</td>
<td>Esteban Muldavin</td>
<td>09/08-09/12</td>
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<td>$14,900.</td>
<td>NPS</td>
<td>04801H</td>
<td>Plant species inventory and herbarium specimen verification, Petroglyph Nat’l. Monument.</td>
<td>Esteban Muldavin</td>
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<td>$2,475.</td>
<td>NPS</td>
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<td>Supplemental work to improve vegetation mapping for three SOPN parks.</td>
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<td>NPS</td>
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<td>Pinyon-juniper restoration monitoring.</td>
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<td>Development of vegetation classification and map for Ft. Davis Nat’l. Historic Site.</td>
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<td>Pinyon-Juniper woodlands and bird diversity in Wild Rivers Recreation Area.</td>
<td>Esteban Muldavin</td>
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<td>$199,957.</td>
<td>NMD</td>
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<td>05/08-09/11</td>
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<td>$99,258.</td>
<td>NMD</td>
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<td>Wetland vegetation index for riverine wetland on the upper Rio Grande.</td>
<td>Esteban Muldavin</td>
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<td>04803G</td>
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<td>U.S. Forest Service</td>
<td>04803U</td>
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<td>04/10-12/13</td>
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<td>U.S. Geological Service</td>
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<td>Protected Areas Database for New Mexico.</td>
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<td>BLM</td>
<td>04802R</td>
<td>Pediomelum pentaphyllum surveys.</td>
<td>Phil Tonne</td>
<td>10/09-10/11</td>
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</table>
$16,800. NM Energy, Minerals & Natural Resources Dept.. Banner #04801Z. Holy Ghost Ipomopsis 2009-10. Phil Tonne, PI. 08/09-06/10. $9,056 (F&A $1,059).

$9,000. NM Energy, Minerals & Natural Resources Dept.. Banner #04802W. Endangered plants recovery. Phil Tonne, PI. 12/09-06/10. $8,982 (F&A $1,497).

$9,320. NM Energy, Minerals & Natural Resources Dept.. Banner #04804T. Holy Ghost Ipomopsis recovery. Phil Tonne, PI. 09/10-12/10. $9,139 (F&A $1,523).

$12,500. NM Energy, Minerals & Natural Resources Dept.. Banner #04804R. Holy Ghost Ipomopsis recovery. Phil Tonne, PI. 09/10-12/10. $12,501 (F&A $2,084).


PUBLICATIONS

A. Books, Book Chapters, Edited Volumes

B. Journal Articles

C. Web-Based

D. Technical Reports


E. Theses/Dissertations Completed

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
B. Contributed Talks/Posters

S. Wondzell, E. Muldavin, and J.A. Ludwig. 2009. Fifty Years of Community Change in a Chihuahuan Desert Ecosystem Using the U.S. National Vegetation Classification to link the past to the future. Organized Oral Session (OOS), Ecological Society of America-Albuquerque, NM 2010 Annual meeting, Pittsburgh, PA.

C. Attendance at Professional Meetings (List division personnel alphabetically then list meetings attended under each)

E. Muldavin: Ecological Society of America-Albuquerque, NM 2010 Annual meeting. Pittsburgh, PA

D. Service as Editor or on Editorial Board of a Journal

E. Service as Officer of Professional Society/Organization

None

9. OTHER PROFESSIONAL ACTIVITIES

A. Presentation to General Audience in a Scholarly Capacity

E. Milford. Progress report on New Mexico Rapid Assessment Methodology for the New Mexico Wetlands Roundtable.

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.

E. Muldavin: Ecological Society of America Vegetation Panel, New Mexico Rare Plant Council
K. Johnson: NM Prairie Dog Working Group
P. Tonne: Rare Plant Technical Council
E. Milford: New Mexico Wetlands Roundtable
R. McCollough: Jemez mountains salamander recovery team; Dune Sagebrush Lizard GIS Group

D. Journal Referee

K. Johnson: Auk
E. Muldavin: Madrono, Oecologia

E. Hosting Professional Colloquia and Groups
10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

New Mexico Rapid Assessment Training Workshop, Santa Fe New Mexico October 1, 2010

Habitat Use by Pinyon-Juniper Birds Workshop. University of New Mexico October 15, 2010

B. Public Service

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.

12. DONATIONS AND GIFTS RECEIVED

13. CURRENT STAFF

A. Faculty/Staff

Paul Arbetan, Research Assistant Professor
Lisa Arnold, GIS Analyst
Stephanie Baker, Research Tech/Life Sciences
Matthew Baumann, Research Tech/Life Sciences
Yvonne Chauvin, Sr. Research Tech/Life Sciences
Anthony Fettes, Research Tech/Life Sciences
Charles Jackson, Research Tech/Life Sciences
Kristine Johnson, Research Associate Professor
Rebecca Keeshen, Unit Administrator I
Rayo McCollough, Database Administrator
Elizabeth Milford, Research Scientist III
Esteban Muldavin, Research Associate Professor
Teri Neville, GIS Analyst
Jacqueline Smith, Sr. Research Tech/Life Sciences
Phil Tonne, Sr. Research Scientist I
Hannah Varani, Sr. Field Research Tech

B. Graduate students

Keith Woodell, M.A.

C. Undergraduate Student Workers and Volunteers

Matthew Baumann
Katie Carillo
Bryant Flores
Rachel Grey
Jeff Hess
Phillip Houk
Hugh Hulse
Brian Kramer
Eric Lindahl
Natalie Sommer
Adam Summers
Eugene Upston
Matthew Wilder
Cassandra Wilson
Cole Wolf

14. MUSEUM ASSOCIATES
None
DIVISION OF PARASITES

1. DIVISION HIGHLIGHTS

Establishing the Division as an official division of the MSB, curating the Rausch collection

2. TABLE OF COLLECTION USE

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<th>Specimens Accessed</th>
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3. COURSES USING THE COLLECTION

None

4. COURSES TAUGHT BY MSB PERSONNEL

A. Faculty/Collection Managers

Loker, E.S. Evolutionary Immunology

5. COLLECTION MANAGEMENT

This division is still in its development stages. A student was hired to stabilize the Rausch collection

6. AWARDS, GRANTS, AND CONTRACTS


7. PUBLICATIONS

A. Books, Book Chapters, Edited Volumes


B. Journal Articles


C. Web-Based

None.

D. Technical Reports

None.

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

None.

8. ACTIVITIES IN LEARNED SOCIETIES
A. Invited/Plenary Talks and/or Seminars

Brant SV. 2010. Evolution and diversity in avian schistosomes (cercarial dermatitis: is there really happiness in having a scratch for every itch?). Otago University, New Zealand.
Hosts: Robert Poulin and Anson Koehler

**B. Contributed Talks/Posters (*presenter*)**


**C. Attendance at Professional Meetings**

**Loker, E. S.**
June 2010 American Society of Parasitologists, Colorado Springs, Colorado
September 2010 Rocky Mountain Conference of Parasitologists, Cedar Point, Nebraska

**Brant, S.V.**
June 2010 American Society of Parasitologists, Colorado Springs, Colorado

**D. Service as Editor or on Editorial Board of a Journal**

None.

**E. Service as Officer of Professional Society/Organization**

Vice-President (president elect), American Society of Parasitologists

**9. OTHER PROFESSIONAL ACTIVITIES**

**A. Presentation to General Audience in a Scholarly Capacity**

E.S. Loker: UNM Global Health Program \^ lecture on helminths of global public health concern, 14 Jan

E.S. Loker: Grand rounds seminar on global health, gave talk on African schistosomiasis, 21 Jan 2010

E.S. Loker: 26 February, Macroevolutionary Immunology. Southeastern Louisiana University

**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.**

**D. Journal Referee**

Loker, E. S. *Journal of Helminthology, Journal of Parasitology, PLoS NTD, Developmental and Comparative Immunology, International Journal of Parasitology*

E. Hosting Professional Colleagues and Groups

E.S. Loker: Mike Strand, University of Georgia, 11 March, 2010
E.S. Loker: External Advisory Committee meeting, NIH COBRE program, March, 2010.

10. SERVICE

A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

E.S. Loker:
External Advisory Committee meeting, NIH COBRE program, March, 2010
NIH study section, NCRR centers of biomedical research excellence program, 16-18 March, 2010, Washington, DC
Schistosomiasis consortium for operational research and evaluation (score), funded by Bill and Melinda Gates foundation, harmonization meeting, 16-19 February, 2010.

B. Public Service
None.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS

None.

12. DONATIONS AND GIFTS RECEIVED

13. CURRENT STAFF

A. Faculty/Staff

Eric S. Loker, Regent's Professor, Curator
Sara Brant, Research Assoc. Professor, Collection Manager

B. Graduate Students

Ramesh Devkota
Alex Bochte

C. Undergraduate Student Workers and Volunteers

Candice Espinoza

14. MUSEUM ASSOCIATES

A. Research Associates
1. DIVISION HIGHLIGHTS
Integration of the U.S. Geological Survey (USGS) collection of dry mammals into the MSB Division of Mammals is nearing completion thanks to efforts led by long-term employee Adrienne Raniszewski. In 2010 over 41,000 mammal specimens of skins and skeletons were reorganized; specimen records were updated in the database; and case and drawer labels were updated and reprinted. USGS and the divisions of fishes, amphibians and reptiles, birds, and mammals share curatorial responsibility by jointly reviewing and processing specimen loans and information requests. In addition, the Curator Emeritus and collection manager attend numerous MSB meetings throughout the year.

As a Federal agency that manages museum property and has expertise with natural history collections, USGS is responsive to other federal Department of Interior (DOI) agencies. USGS staff routinely responds to National Park Service requests on annual inventories and loan agreement renewals, and provides technical assistance to DOI on collection issues such as integrated pest management, specimen deposition, and museum supplies. Cindy Ramotnik, Museum specialist, is an active member on the Department of Interior and USGS museum property committees, and serves on a DOI subcommittee that is currently revising the departmental policies on managing Federal museum property. In addition, her participation on the New Mexico Endemic Salamander Team has increased in 2010 due to recent actions to list the Jemez Mountains salamander as federally endangered and because of loss of habitat from wildfire and drought.

Ernie Valdez, a USGS wildlife biologist and Research Associate of MSB, conducted an assessment of the FWS threatened Mariana fruit bat (Pteropus mariannus mariannus) on the Pacific Islands of Anatahan, Sarigan, Guguan, Alamagan, Pagan, Agrihan, Asuncion, and Maug during the summer of 2010. This study represents current information that was compared against earlier assessments conducted over 10 years ago. These findings were written as an administrative report. In the autumn, Valdez assisted Joe Cook by teaching 6 lectures in mammalogy, where he focused on Chiroptera and Lagomorpha, as well as the history of mammalogy and its role within the USGS and other DOI-related agencies. In addition to these lectures, Valdez made presentations on bat-related topics to San Antonito Elementary School, UNM Biology Department, and Region 3 Forest Service biologists. He also represented USGS at a DOI-wide program, held at the Southwestern Indian Polytechnic Institute, which promoted diversity within the federal agency. The effort resulted in hiring a recent SIPI graduate for the summer to work in the USGS collections. Valdez reviewed manuscripts for Acta Theriologica, Animal Behaviour, and The Northeast Naturalist. He also reviewed the New Mexico and Arizona’s WNS response state plans. Valdez continues his studies on bats of the Southwest and Pacific, with two of four manuscripts being accepted for publication. Valdez serves on the Fort Collins Science Center Fleet Vehicle Panel as a representative for biologists in the field.

Janet Ruth, a USGS Research Ecologist/Ornithologist, was the lead author on a USGS Open-File Report on a three-year project with a Co-Principal Investigator from the University of Southern Mississippi that used NEXRAD radar data to document bird migration patterns and stopover...
habitat in the Southwest. Ruth conducted the second year of fieldwork on the breeding ecology of the Arizona Grasshopper Sparrow (Ammodramus savannarum ammolegus) in the Sonoita Valley of southeastern Arizona. Ruth presented at the BLM’s A Decade of Discovery NLCS Science Symposium in Albuquerque and later reprised her presentation at the Science in the Sonoita Plains Symposium in Elgin, AZ. She continued work on her USGS Quick Response Program to synthesize information about birds in semi-desert grasslands and pine-oak woodlands. The project is conducted in collaboration with the Sonoran Joint Venture, the Rio Grande Joint Venture, the Playa Lakes Joint Venture, and the Intermountain West Joint Venture. Ruth serves as the Partners in Flight (PIF) Coordinator for USGS and was a co-author on an international PIF publication. She also participated in a PIF Symposium on tri-national bird conservation at the Joint COS/AOU/SCO annual meetings in San Diego. She attended national meetings of the PIF Implementation Committee and the PIF Federal Agency Committee. Ruth was also the lead author on a chapter about White-tailed Kite in the book Raptors of New Mexico.

Mike Bogan, Curator Emeritus of the USGS collection, and Tony Mollhagen, MSB Research Associate, resumed their work on mammals of the Henry Mountains of south-central Utah during 2010. Specimens from this study are deposited in the MSB collection. They also continued to verify identifications of vesperilionid bats in the MSB collection and Bogan assisted the integration effort by verifying identifications of additional mammals in the collection. In 2010, Bogan and Mollhagen submitted their Final Report on a resurvey of the bats of Dinosaur National Monument. This effort compared current information on numbers of species and individuals of bats with historic data on bats from their original survey in the 1980s. The work was funded by the National Park Service with funds administered by the NPS Colorado Plateau Cooperative Ecosystems Studies Unit to the University of New Mexico. Bogan continued to serve on the MSB Executive Board during 2010.

2. TABLE OF COLLECTION USE

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3. COURSES USING THE COLLECTIONS
See MSB Divisions.

4. COURSES TAUGHT BY MSB/USGS PERSONNEL
A. Faculty/Collection Managers
Valdez, E.W. (gave 6 lectures)
BIOL 489 Mammalogy, Fall 2010, 18 students

B. Graduate Students
None.
5. COLLECTION MANAGEMENT

The USGS cataloged 1,085 specimens of fishes, amphibians and reptiles, birds, and mammals, including 146 lots of fishes in 2010. The fishes included important collections of endangered species of Colorado pike minnows, humpback chubs, and roundtail chubs from the upper Colorado River Basin in the southwest United States. Staff accessioned 10 collections (637 specimens) and 2 legacy collections of bird eggs and fish skeletons that date from the 1920s. The specimens are associated with the establishment of the Denver Food Habits Laboratory, which formed the nucleus of the Biological Surveys Collection. Staff reviewed 28 mammal tissue requests and 4 specimen requests for loans of birds, amphibians, and mammals. Staff responded to numerous requests for information on specimens, and to over 40 requests for technical information on pest control, specimen identification, and museum supplies. Staff assisted 20 researchers with use of the collections and personally provided 6 tours, ranging from 2-20 individuals, and included preschoolers, high school students, undergraduates, and the public. Federal specimens were included in 5 outgoing loans: 3 mammal tissue loans and 2 loans of voucher specimens (birds and amphibians).

Integration of Federal mammals into the MSB Division of Mammals progressed steadily through August under the direction of USGS employee Adrienne Raniszewski, who works with MSB staff to simultaneously integrate the Federal collection and a collection of 32,700 specimens of mammals formerly at the University of Illinois Museum of Natural History. During 2010 approximately 41,000 specimens of skins and skeletons were reorganized; mammal drawer and case labels were updated, and vial and box labels for USGS specimens were printed and installed. Adrienne updated specimen records in the database Arctos to reflect changes in taxonomy and specimen disposition. Ramotnik and MSB collection manager Tom Giermakowski updated the herpetological community on the integration of USGS and MSB amphibians and reptiles with a note to *Herpetological Review*.

Integration was postponed after August, to await the arrival of case drawers, and collection efforts were redirected. During the remainder of the year we processed several fish accessions and conducted routine collection management activities such as responding to loans and information requests, conducting integrated pest management activities, and updating or entering new specimen records into the Arctos database.

As a Federal agency that manages museum property and has expertise with natural history collections, USGS staff is responsive to other federal Department of Interior (DOI) agencies. We routinely respond to NPS requests on annual inventories and loan agreement renewals; and provide technical assistance to DOI on requests for integrated pest management, specimen disposition, and museum supplies. Ramotnik is an active member on the DOI and USGS museum property committees, and serves on a DOI subcommittee that is revising the departmental manual on managing federal museum property.

In 2010 we hired a recent graduate from the Southwestern Indian Polytechnic Institute (SIPI), Tanya Velarde. She learned of the opportunity at a DOI job fair held at SIPI in April 2010 where she met Ernie Valdez. Tanya got firsthand experience working with natural history collections: she prepared scientific specimens of birds, organized mammal skins and skulls, and worked with
fluid-preserved specimens of amphibians, reptiles, and fishes, including a collection of endangered fishes from the upper Colorado River

Ramatnok attended numerous meetings with MSB collection managers throughout the year to share information on integration, databases, website development, and museum policy. She also participated in fire extinguisher training at MSB and a half-day UNM shipping course.

6. AWARDS, GRANTS, AND CONTRACTS
Faculty and Staff:


$111,000.00 Population Assessment of the Mariana Fruit Bat (Pteropus mariannus mariannus) on Anatahan, Sarigan, Guguan, Alamagan, Pagan, Agrihan, Asuncion, Maug, and Uracus. 5/10-5/11. $108,000.00 E. W. Valdez, P.I.

$40,000.00 Review of “State of Texas Mine: A Comparison of 2010 Modified Cupola and Cable-net Video Surveys” and Supporting Data. 10/10-5/11. $2,000.00 E. W. Valdez, P.I.

7. PUBLICATIONS
A. Books, Book Chapters, Edited Volumes


B. Journal Articles
None.

C. Web-Based

Ruth, J.M. Ongoing. Serves as the content webmaster for the following websites:
- Partners in Flight – U.S. website (national) http://www.partnersinflight.org
- New Mexico Ornithological Society http://www.nmbirds.org

D. Technical Reports


E. Theses/Dissertations Completed
None.

F. Work In Progress


Valdez, E.W., and P.M. Cryan. Feeding habits and mortality of the hoary bat at wind turbine facilities.
Valdez, E.W., G. J. Wiles, and T. J. O'Shea. Diets of the sympatric Pacific sheath-tailed bat 
(Emballonura semicaudata rotensis) and Mariana swiftlet (Aerodramus bartschi) on 
Aguiguan, Mariana Islands. Pacific Science.

Wiles, G.J., T.J. O'Shea, D.J. Worthington, J.A. Esselstyn and E.W. Valdez. Status and natural 
history of the last known population of Emballonura semicaudata rotensis. Acta 
Chiropterologica.

G. Publications/Reports Based on MSB-USGS Specimens/Data by Outside Researchers

Buckley, L.B. 2010. The range implications of lizard traits in changing environments. Global 

Evolution;64:429-443.

8. ACTIVITIES IN LEARNED SOCIETIES
A. Invited/Plenary Talks and/or Seminars

Valdez, E.W. 2010. Emergence of white-nose syndrome (WNS). Talk presented to USDA 
Region 3 Forest Service biologists. February 2010.


B. Contributed Talks/Posters

relating specimens, specimen-based science, and archival documentation. Oral 
presentation by Jarrell at the Geological Society of America annual meeting, Denver, CO, 
31 October 31 – 3 November 2010.


Ruth, J.M. 2010. Ten years of research on grassland birds in Arizona, including BLM’s Las 
Cienegas National Conservation Area. A Decade of Discovery. Bureau of Land 

Ruth, J.M., C. Arizmendi, K.V. Rosenberg, and P.J. Blancher. 2010. Information gaps on 
limiting factors and other critical research needs for landbird conservation. Joint meeting 
of the Cooper Ornithological Society, American Ornithologists’ Union, and the Society 

Valdez, E.W. 2010. Food habits of the Pacific sheath-tailed bat and Mariana swiftlet from 
Aguiguan. Oral presentation at the 2010 North American Society for Bat Research 
(NASBR), Denver, October 2010.
C. Attendance at Professional Meeting

Ramotnik, C.A. Climate Change and the Conservation of Native Amphibians and Reptiles, hosted by the Southwest Region, U.S. Fish & Wildlife Service, Albuquerque, March.


Valdez, E.W. North American Society for Bat Research (NASBR), Denver, October.

D. Service as Editor or on Editorial Board of a Journal

Ramotnik, C.A. Associate Editor, Collection Forum (Society for the Preservation of Natural History Collections).

E. Service as Officer of Professional Society/Organization

Ramotnik, C.A. Society for the Preservation of Natural History Collections (SPNHC): Conservation Committee (Chair, Resources Subcommittee); member of the following standing committees: Documentation, Membership, and Publication.

Ruth, J.M. New Mexico Ornithological Society, Board Member.

9. OTHER PROFESSIONAL ACTIVITIES (List division personnel alphabetically and in bold with list of other professional activities under each)

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.

Bogan, M.A. Member, MSB Executive Committee.

Ramotnik, C.A. Member, Department of Interior Museum Property Committee and 411 DM Subcommittee; Member, USGS Museum Property Committee; Member, USGS Geologic Discipline Geologic Materials Working Group; Member, New Mexico Endemic Salamander Team; and USGS Arid Lands Field Station representative for Combined Federal Campaign.
Ruth, J.M. USGS Partners in Flight (PIF) Coordinator; Chair of PIF National Research Working Group; Member of PIF Science Committee and PIF Implementation Committee; Steering Committee Member, New Mexico Avian Conservation Partners.

E. Journal Referee
Bogan, M.A. The Southwestern Naturalist (1), Western North American Naturalist (2), and Journal of Mammalogy (1).

Ramotnik, C.A. The Southwestern Naturalist (1) and USGS series (1).

Ruth, J.M. MSB (1); Conservation Genetic Resources (1).

Valdez, E.W. Acta Theriologica (1); Animal Behaviour (1); The Northeast Naturalist (1); and the New Mexico and Arizona’s white-nose syndrome response state plans.

F. Hosting Professional Colleagues and Groups
N/A

10. SERVICE
A. Symposia, Workshops, Conferences etc. Sponsored, Organized, Held, etc.

Valdez, E.W. Represented USGS at a Department of Interior job fair to promote diversity within the federal agency; Southwestern Indian Polytechnic Institute, Albuquerque.

B. Public Service
Bogan, M.A. Member, Corrales Bosque Advisory Commission, Corrales, NM.

England, A.E. Member, UNM Building Space Committee, Research Day Committee, and Biology Graduate Students Association.

England, A.E. Graduate Research Allocations Committee (GRAC) grants reader, Spring 2009.

Ramotnik, C.A. Participated in the Albuquerque Christmas Bird Count.

Ruth, J.M. Participated in the Albuquerque and Five Points (Sevilleta NWR) Christmas bird counts. Annually conducts/participates in two Breeding Bird Survey routes – Counselors, NM and Fence Lake, NM.

Ruth, J.M. Member, Technical Advisory Group and Member, Corrales Bosque Advisory Commission, Corrales, NM.

Valdez, E.W. Served as Science Fair judge at San Antonito Elementary School. April.

Valdez, E.W. Presented a talk on bats at San Antonito Elementary School. October.

11. ADVANCED STUDY, HONORS, AWARDS, FELLOWSHIPS, ETC.
Bogan, M.A. Served as Faculty Co-Advisor for one doctoral candidate in the Department of Biology, UNM.

Ramotnik, C.A. Received Star Award from USGS for participation on USGS-GD Geologic Materials Repository Working Group.

12. DONATIONS AND GIFTS RECEIVED
None.

13. CURRENT STAFF
A. Faculty/Staff
Michael A. Bogan – Curator Emeritus
Cindy A. Ramotnik – Museum Specialist (Zoology)
Adrienne Raniszewski – Museum Technician
Janet M. Ruth – Research Ecologist (Ornithology), Adjunct Assistant Professor (UNM)
Ernest W. Valdez—Wildlife Biologist, Adjunct Assistant Professor (UNM)

B. Graduate students
Angela E. England—Wildlife Biologist, Ph.D. candidate

C. Undergraduate Student Workers and Volunteers
Tanya Velarde – museum technician (undergraduate)

14. MUSEUM ASSOCIATES
A. Curatorial Associates
None.

B. Research Associates
Paul Cryan, Ph.D., USGS wildlife research biologist, Ft. Collins, CO.
Keith Geluso, Assistant Professor, University of Nebraska-Kearney, NE.
Tony R. Mollhagen, Ph.D., emeritus professor, Texas Tech Univ., Lubbock, TX.
Tom O’Shea, Ph.D., USGS wildlife research biologist, Ft. Collins, CO.
Ernest Valdez, Ph.D., USGS wildlife research biologist, Albuquerque, NM.
1. List the student learning outcomes (SLOs) that were assessed during the academic year, including those for which data were gathered as well as those for which developmental work was done, such as the creation or piloting of assessment measures.

Please refer to Table 1 “Global and Specific Student Learning Objectives for the Biochemistry Major”. Note that many of the stated SLOs are derived from curricular documents published by our disciplinary society, American Society for Biochemistry and Molecular Biology; (1) and by the Association of American Medical Colleges and the Howard Hughes Medical Institute (2).

2. For each learning outcome, describe a) the measures used (at least one-half of the measures used are to be direct measures, and at least one direct measure must be used for each SLO), b) the sample of students from whom data were collected, c) the timetable for the collection, and d) the setting in which the measures were administered.

Please refer to Table 1 “Global and Specific Student Learning Objectives for the Biochemistry Major”, for a synopsis of the SLOs and of the direct measures of student learning. The direct measures of student learning used for assessment are abbreviated as follows:
- Capstone experience (CE)
- Standardized subject matter exams (SE)
- National standardized subject matter exam from the American Chemical Society (ACS)
- Laboratory Skill Performance (Practicum) (LS)
- Student academic awards (AA)
- Problem-solving exams (see references 3,4,5) (PS)

In the matrix, “X” in a cell indicates the course(s) in which that the concept/skill is assessed by either in-course exams, or, a performance assessment (in laboratory sessions.)
Please refer to Table 2 “Undergraduate Biochemistry Major: Summary of Class Statistics”, and Table 3 “Undergraduate Biochemistry Majors Accepted into UNM-SOM”, for both direct and indirect measures of student learning.

The students from whom data were collected included all graduating Biochemistry majors. The timetable for the collection (of all except individual course assessment data) was the final semester before graduation (so, for the May 2011 graduates, all information was gathered in the Spring 2011 semester.)

The settings in which the measures were administered varied:
- individual course assessments were administered according to the individual course syllabi.
- the ACS exam was administered in a classroom, following the guidelines set by the American Chemical Society (2 hours, closed book)
- GPA information was obtained through UNM student records
- Research Honors designations were assessed by the BMB faculty as a group, based on evaluation of Research Honors written theses and student presentation of their work at the Biochemistry Research Symposium (Capstone Experience). (Outside guest are invited to these presentations, but only the BMB faculty evaluate the students for level of Honors awarded.)
- Acceptance into graduate and professional programs, and university honors designation were self-reported by students through a required Graduating Biochemistry Majors Survey, which was sent to the students, and returned, via e-mail.

3. Describe the results of the assessment. (What do they tell you about student learning in general and mastery of measured SLOs in particular? What did you learn about strengths and weaknesses of your program?) If specific results are not available, describe the progress that has been made on the initiatives included in the approved assessment plan.

In general, our majors are academically successful during their time at UNM, as measured by the overall GPA, and achievement of university honors. The length of time to degree is very acceptable. Over the past nine years, the exit scores on the American Chemical Society Biochemistry certification exam (used as a direct measure of Biochemistry majors’ exit content knowledge) of BMB graduates have remained stable (similar to top-ranked programs in the country), while there has been an increase in retention of URM biochemistry graduates; in other words, outstanding performance has been maintained as the percentage of URM graduates has increased. UNM is listed in the group of schools producing the largest absolute numbers of both Native American and Hispanic Biochemistry graduates nationally. Our students are going on to the next stage of scientific training, as measured by the numbers going on to graduate or professional programs. (Table 2).

Our program represents a significant pipeline program for UNM SOM. (Table 3).

Faculty review of student performance on the ACS exam over the past three years has shown us that there are some critical biochemical concepts that our students are not learning/retaining. For example, we have determined that certain quantitative skills are difficult for the majority of the graduating seniors, and that they have an insufficient understanding of ketone biochemistry. In
addition, based on the disciplinary recommendations for process competencies (1, 2), we have focused on providing our students extensive practice in scientific problem solving strategies.

4. Describe the departmental process by which faculty reviewed the assessment procedures and results and decided on the actions and/or revisions that were indicated by them.

The BMB faculty as a whole are kept apprised of the yearly assessment data. M. Osgood, as Director of the program, and W. Anderson, as former Director and as departmental Chair, are primarily responsible for implementing the changes described below.

5. Describe the actions and/or revisions that were implemented in response to the assessment processes and results.

Focus on the critical biochemical concepts on which our students were under-performing on the ACS exam has been increased in the 445, 446, and 448 courses. The 2010 ACS exam results are being analyzed to determine if this focus has improved those conceptual scores.

We have developed problem-solving strategy assessments, for both group and individual use, to allow us to provide practice in, and evaluation of, student development of problem-solving skills. We are continuing to gather data using these tools, and are in the developmental stage of several other process measurement tools. (Refs 3, 4, 5)

6. Given the assessment activities and results to date, describe your assessment plans for the next academic year. If significant changes have been made to degree program SLOs or to the general assessment strategy, please clearly describe. (Remember that half of all assessment measures must be direct measures of student learning (see link in #2 above).)

We plan to continue to gather assessment data as described above.

NOTE: in 2007-2008, Dr. Anderson consulted with the Associate Dean of Arts and Sciences on how to best collect and present retention/time-to-graduation data for the Biochemistry program. Because students do not actually begin taking courses in the degree program until after at least two years of prerequisite courses, the decision was made to consider students to be entering the program when they enter the first Biochemistry course, BCHM 445, as officially declared Biochemistry majors.

References


Table 1: Global Student Learning Objectives for the Biochemistry Major and Assessment Measures

- Understanding of the fundamentals of chemistry and biology and the key principles of biochemistry and molecular biology (SE, ACS)
- Awareness of the major issues at the forefront of Biochemistry (CE, SE, ACS, LS)
- Ability to evaluate primary papers critically (CE, LS, PS)
- Good "quantitative" skills such as the ability to accurately and reproducibly prepare reagents for experiments (LS)
- Ability to dissect a problem into its key features (CE, PS)
- Ability to design experiments and understand the limitations of what the experimental approach can and cannot tell you (LS, PS)
- Ability to interpret experimental data and identify consistent and inconsistent components (LS, PS)
- Ability to design follow-up experiments (LS, PS)
- Ability to work safely and effectively in a laboratory (LS)
- Awareness of the available resources and how to use them (LS, PS)
- Ability to use computers as information and research tools (CE, LS, PS)
- Ability to collaborate with other researchers (CE, LS, PS)
- Ability to use oral, written and visual presentations to present work to both a science-literate and a science-non-literate audience (CE, LS, AA, PS)
- Ability to think in an integrated manner and look at problems from different perspectives (CE, SE, ACS, LS, PS)
- Awareness of the ethical issues in the molecular life sciences (LS)

Direct measures of student learning used for assessment:
- Capstone experience (CE)
- Standardized subject matter exams (SE)
- National standardized subject matter exam from the American Chemical Society (ACS)
- Laboratory Skill Performance (Practicum) (LS)
- Student academic awards (AA)
- Problem-solving exams (see references 3,4,5) (PS)
TABLE 1: In the matrix below, "X" in a cell indicates the course(s) in which that the concept/skill is assessed by either in-course exams, or, a performance assessment (in laboratory sessions.)

**Specific Student Learning Objective Matrix**

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<th>Physics</th>
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Table 2: Undergraduate Biochemistry Major
Summary of Class Statistics

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<tr>
<th>Class</th>
<th>Number (Fall + Spring)</th>
<th>GPA</th>
<th>ACS Exit Exam Performance (national ranking, percentile)</th>
<th>Percent URM Graduates</th>
<th>(Entering Class)*</th>
<th>University Honors Students</th>
<th>Research Honors Students</th>
<th>At Graduation Admitted to UNM SOM</th>
<th>At Graduation Admitted to Other Professional Schools</th>
<th>At Graduation Admitted to Graduate School</th>
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*Entering Class = BIOC 445 Enrolled student with an officially declared biochemistry major

Table 3: Undergraduate Biochemistry Majors Accepted into UNM SOM

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<th>SOM Class</th>
<th>No. BIOC Graduates</th>
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Indirect measures of student learning used for assessment

Student Retention (Students completing program within 3 years of taking the first BIOC course): 93-100%

Length of time to degree: 2 Years +/- 0.5 years