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## Contract and Grant Awards Fiscal Year 2009

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*Office of the Vice President for Research*

CONTRACT AND GRANT AWARDS: FISCAL YEAR 2009

MAIN CAMPUS & BRANCHES

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- 2 Chemistry
- 3 Communication and Journalism
- 4 Electrical and Computer Engineering
- 5 Mechanical Engineering
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- 8 Sociology
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## **ANDERSON SCHOOLS OF MANAGEMENT**

Crespy, Charles  
Universidad Autonoma de Queretaro \$76,584  
CIDES/UAQ Partnership

DiGregorio, Dante  
East Tennessee State University \$45,001  
Sustaining Rural Communities in North America via Entrepreneurship Education

Kassicieh, Suleiman/Gouvea, Raul  
Fundacao Centro de Analise, PesQuisa E Inovacao Technologica of Manaus, Brazil \$17,890  
(FUCAPI, Manaus, Brazil) Innovation and Technology Lectures

Kassicieh, Suleiman/Walsh, Steven/White, Craig  
Los Alamos National Laboratory \$637,377  
Technological Entrepreneurship Program Contract

## **SCHOOL OF ARCHITECTURE AND PLANNING**

Fleming, William  
NM Water Resources Research Institute \$5,000  
Alternative Stormwater Management Research Project

Gallegos, Phillip  
NM Economic Development Department \$30,000  
State Main Street Program: Design Planning Assistance Center

Gallegos, Phillip  
City of Grants \$100,000  
Fire and Ice Pavilion, Grants, New Mexico

Jojola, Ted  
Arizona State University \$74,250  
Joint Faculty Appointment as Visiting Distinguished Professor

Jojola, Ted  
NM Department of Indian Affairs \$20,000  
UNM Indigenous Planning Institute

Jojola, Ted/Tiano, Susan  
Department of Education \$64,512  
Indigenous Planning Exchange 2007 (IPEX7)

Morrow, Baker  
National Park Service/Department of the Interior \$50,000  
Cultural Landscape Inventories for Gran Quivira Unit (Salinas Pueblo Missions National Monument/El Malpais National Monument)

Rivera, Jose  
National Science Foundation \$35,325  
NM EPSCoR RII3: Climate Change Impacts on New Mexico's Mountain Sources of Water

Simon, Alfred  
NM Department of Transportation \$40,500  
Architectural and Aesthetic Design and Design Guidelines for Context-Sensitive Highway Design in New Mexico

Taylor, Anne  
Albuquerque Public Schools \$23,940  
Career Discovery in Architecture and Design

## **COLLEGE OF ARTS AND SCIENCES**

### **Anthropology**

Hayashida, Frances Mariko  
National Science Foundation \$259,048  
The Ynalche Project: The Political Ecology of Late Prehispanic Agriculture on the North Coast of Peru

Hayashida, Frances Mariko  
Wenner-Gren Foundation \$24,997  
The Ynalche Project Water, Land, Politics, and Society on the Late Prehispanic North Coast of Peru

Hunley, Keith  
Yale University \$16,287  
Dynamics of Hunter-Gatherer Language Change

Kaplan, Hillard  
University of Southern California \$92,250  
Preparation of Samples for Investigation of Biological Aging Among the Tsimane

Kaplan, Hillard  
University of Southern California \$61,500  
Preparation of Samples for Investigation of Biological Aging Among the Tsimane

Prufer, Keith  
National Science Foundation \$4,000  
The Uxbenka Archaeological Project

Prufer, Keith/Asmerom, Yemane  
National Science Foundation \$280,354  
Collaborative Research: (Collaborative Research: AOC) Development and Resilience of Complex Socioeconomic Systems: A Theoretical Model and Case Study from the Maya Lowlands

Thompson, Melissa  
Boston University \$50,462  
Understanding the Role of Ecology In Orangutan Reproduction

Thompson, Melissa  
American Association of Physical Anthropologists \$5,000  
Energetics of Lactation in Chimpanzees

Wills, Wirt  
Western National Parks Association \$7,215  
Remote Sensing Studies for Research and Resource Management at Pueblo Bonito, Chaco Culture National  
Historic Park

Wills,Wirt/Jolie, Edward Alexander  
National Science Foundation \$15,000  
Doctoral Dissertation Improvement Grant: Learning Networks and Social Diversity in the Chaco System,  
A.D. 850-1140: An Analysis of Basketry Technological Style

Wills, Wirt/Crown, Patricia  
National Park Service/Department of the Interior \$44,000  
Archeological Site Condition Assessments for FMSS and Visitor Interpretation

### **Biology**

Bixby, Rebecca  
Bureau of Reclamation/Department of the Interior \$126,921  
Effects of Nutrient Availability on Periphyton Growth and Diversity in the Middle Rio Grande:  
Top-down and Bottom-up Factors

Brown, James  
National Institutes of Health \$193,319  
Program in Interdisciplinary Biological and Biomedical Sciences

Collins, Scott  
National Science Foundation \$921,163  
Sevilleta LTER IV: Abiotic Pulses and Constraints: Effects on Dynamics and Stability in an Arid Land  
Ecosystem

Collins, Scott  
National Science Foundation \$82,235  
REU Site: New Mexico Sevilleta LTER REU Site Program

Collins, Scott  
National Science Foundation \$45,452  
Collaborative Research: Convergence and Contingencies in Savanna Grasslands

Cook, Joseph  
Forest Service/Department of Agriculture \$13,600  
NFIM Mammal Monitoring and Inventory of the Tongass National Forest

Cook, Joseph  
Forest Service/Department of Agriculture \$100,000  
ISLES-Tongass



Cook, Joseph  
NM Game and Fish Department \$20,100  
Foxy ID

Cook, Joseph  
NM Game and Fish Department \$12,000  
Zapus Genetics

Cook, Joseph/Dunnum, Jonathan/Gannon, William  
National Science Foundation \$108,581  
Collaborative Proposal: Curation, Data Basing and Integration of the Orphaned Illinois Mammal Collection

Cook, Joseph/Dawson, Natalie  
Alaska Department of Fish and Game \$8,630  
Kuiu Island Coastal Marten

Cook, Joseph/Gannon, William  
National Science Foundation \$7,500  
URM: Undergraduate Nurturing Opportunities (UNO) in the Biological Sciences in the Southwestern US

Crawford, Clifford  
Army Corps of Engineers \$79,002  
Investigating Ground Water/Surface Water Interaction at the Diversion Dam Site

Crawford, Clifford  
U.S. Fish & Wildlife Service/Department of the Interior \$25,000  
Bosque Ecosystem Monitoring Program (BEMP)

Cripps, Richard  
National Institute of General Medical Sciences/NIH/DHHS \$262,170  
Genetic Regulation of Muscle Fiber Diversity

Cripps, Richard  
National Heart, Lung, and Blood Institute/NIH/DHHS \$246,528  
Genetic Regulation of Cell Fate in the Drosophila Heart

Cripps, Richard  
March of Dimes \$246,713  
Specification and Function of the Cardiac Pacemaker

Cripps, Richard  
NIH \$346,054  
UNM PREP: Post-baccalaureate Research Education Program-Renewal

Dahm, Clifford  
U.S. Geological Survey/Department of the Interior \$412,413  
IPA for Dr. Cliff Dahm with the US Geological Survey

Dahm, Clifford  
National Science Foundation \$99,225  
NM EPSCoR RII3 – Climate Change Impacts on New Mexico's Mountain Sources of Water

Dahm, Clifford/Coonrod, Julie  
Army Corps of Engineers \$76,006  
Evapotranspiration, Water Tables, Diel Fluctuations, Flow Fields, and Riparian Zone (Bosque) Restoration

Dunnum, Jonathan/Gannon, William  
U.S. Fish & Wildlife Service/Department of the Interior \$5,000  
Improved Housing and Maintenance of *Canis Lupus Baileyi* in the MSB Division of Mammals

Johnson, Kristine  
NM Game and Fish Department \$72,400  
Remote Sensing Monitoring of Black-Tailed Prairie Dogs

Johnson, Kristine  
National Park Service/Department of the Interior \$94,340  
Natural Resource Condition Assessment for Pecos National Historical Park

Johnson, Kristine  
Army Corps of Engineers \$50,000  
Pinyon Jay Surveys at Kirtland AFB

Kenkre, Vasudev/Parmenter, Robert  
National Science Foundation \$21,000  
REU to EID: Ecological Drivers of Rodent-borne Disease Outbreaks: Trophic Cascades and Dispersal Waves

Kodric-Brown, Astrid/Swenton, Daniella M.  
National Science Foundation \$11,830  
Behavioral and Ecological Factors Mediating the Co-Occurrence of Two *Gambusia* Species

Litvak, Marcy E.  
Department of Energy \$449,953  
Linking Ecosystem Scale Vegetation Change to Shifts in Carbon and Water Cycling: The Consequences of Widespread Pinon Mortality

Loker, Eric S.  
National Institutes of Health \$40,752  
Evo-epidemiology of *Schistosoma Mansoni* in Children in Kenya

Lowrey, Timothy  
NM Energy, Minerals, and Natural Resources Department \$125,000  
New Mexico Biodiversity Collections Consortium

Lowrey, Timothy  
NM Institute of Mining and Technology \$22,500  
Effect of Medicinal Plants used by Tribes on Cancer and Bacteria

McCullough, Charles  
NM Game and Fish Department \$62,443  
Information for Species of Greatest Conservation Need Project

McCollough, Charles  
Bureau of Land Management/Department of the Interior \$10,000  
Biological Resource Data Collection and Storage 2008/2009

Miller, Kelly B.  
National Science Foundation \$134,929  
CAREER: Phylogenetic Revisions of South American Water Beetles (Coleoptera: Adephaga: Hydradephaga):  
A Model For Teach

Muldavin, Esteban  
National Park Service/Department of the Interior \$24,908  
Pinyon-Juniper Restoration Monitoring

Muldavin, Esteban  
Santa Fe County \$25,778  
Galisteo Watershed: Wetlands for the Santa Fe Growth Management Strategy

Muldavin, Esteban  
National Park Service/Department of the Interior \$10,000  
Vegetation Mapping Accuracy Assessment Supplement for Bandelier National Mounument

Muldavin, Esteban  
National Park Service/Department of the Interior \$7,020  
Preliminary GIS Hearth Maps for White Sands National Monument (WSNM)

Muldavin, Esteban  
U.S. Fish & Wildlife Service/Department of the Interior \$31,920  
Evaluating Vegetation Response to Prescribed Fire at San Andres NWR

Muldavin, Esteban  
National Park Service/Department of the Interior \$31,206  
Vegetation Classification and Map of Fort Davis National Historic Site

Muldavin, Esteban/McCollough, Charles  
U.S. Fish & Wildlife Service/Department of the Interior \$19,720  
Middle Rio Grande Bosque Initiative Web Page Database and GIS

Muldavin, Esteban/McCollough, Charles  
NM Environment Department \$2,000  
NM Rapid Assessment Database - Draft Requirements

Muldavin, Esteban/Milford, Elizabeth  
NM Environment Department \$168,100  
Rapid Assessment of Riverine Wetlands in the Upper Rio Grand Watershed

Muldavin, Esteban/Milford, Elizabeth  
Middle Rio Grande Conservancy District \$91,453  
Post-Fire Bosque Restoration in the Middle Rio Grande: a Landscape-Scale Approach Towards Revitalization  
of an Ecosystem

Muldavin, Esteban/Milford, Elizabeth  
Bureau of Land Management/Department of the Interior \$20,000  
Pecos River Riparian Monitoring Study

Natvig, Donald  
Forest Service \$8,800  
Does Drought Exacerbate Damage Caused by Bark-Beetle-Associated Fungi in Pinyon-Juniper Woodland Ecosystems?

Nelson, Mary Anne  
National Institutes of Health \$347,602  
Undergraduate Research Training at UNM/MARC (Minority Access to Research Careers Program)

Northup, Diana/Crossey, Laura  
National Science Foundation \$6,625  
Collaborative Research: Biogenic Cave Carbonates: Identifying Surface Carbon Inputs to Subsurface Ecosystems

Pockman, William  
Department of Energy \$339,176  
Hydraulic Mechanisms of Survival and Mortality During Drought in Pinon-juniper Woodlands of Southwestern USA

Pockman, William  
Northern Arizona University \$208,249  
Ecosystem Consequences of Precipitation Variability and Extremes in Semiarid Grassland and Shrubland

Poe, Steven  
National Science Foundation \$350,277  
Adaptation, Exaptation, and Colonization in Solitary Anolis Lizards

Snider, Jessica/Northrup, Diana  
Southwest Region of the National Speleological Society \$375  
Nutrient Analysis of Microbial Energy Sources in Three New Mexico Lava Tubes

Snyder, Alexandra  
Bureau of Reclamation/Department of the Interior \$26,578  
Grant Agreement for Curatorial Services between U.S. Bureau of Reclamation and the Museum of Southwestern Biology at the University of New Mexico

Snyder, Alexandra/Turner, Thomas  
NM Game and Fish Department \$60,000  
Accession and Integration of NMDGF Fish Collections in Museum of Southwestern Biology, Division and Fishes

Tonne, Philip  
Bureau of Land Management/Department of the Interior \$10,000  
Kuenzler Surveys

Tonne, Philip  
NM Energy, Minerals, and Natural Resources Department \$28,000  
Endangered Plants Survey and Recovery

Turner, Thomas  
Tetra Tech, Inc. \$33,769  
Survey of Aquatic Community Structure and Food Web Constituents at the Bosque del Apache NWR

Turner, Thomas  
NM Game and Fish Department \$15,504  
Conservation Genetics of Zuni Bluehead Sucker

Werner-Washburne, Margaret  
Harvard University \$248,340  
Flybase-Genome Annotation Project

Werner-Washburne, Margaret  
National Institutes of Health \$604,351  
Initiative to Maximize Student Diversity

Werner-Washburne, Margaret  
National Institute of General Medical Sciences/NIH/DHHS \$60,657  
IMSD 08-09 Supplement #2

Werner-Washburne, Margaret  
Sandia National Laboratories \$25,000  
Use of GFP-Fusion Protein Library for Biosensors

Werner-Washburne, Margaret  
National Institutes of Health \$24,999  
Chemical Screen of TOR Pathway GFP Fusion Proteins in *S. Cerevisiae*

Wolf, Blair  
Arizona Game and Fish Department \$65,000  
Use of Water Developments by Birds and Bats on the KOFA Wildlife Refuge

Wolf, Blair/Murray, Ian  
Arizona Game and Fish Department \$59,543  
Desert Tortoises as Tree-Rings: A Stable Isotope Approach to Nutritional Ecology

Center for Evolutionary & Theoretical Immunology

Adema, Coenraad  
National Institute of Allergy and Infectious Diseases/NIH/DHHS \$365,000  
STIMULUS-Anti-pathogen Responses in *Biomphalaria Glabrata*

Gerrish, Philip  
National Institutes of Health \$197,127  
Mutation Rate Catastrophe: Testing a Novel Theory for the Extinction of Colonial Organisms

Hlavacek, William  
National Institute of General Medical Sciences/National Institutes of Health/Department of Health and  
Human Services \$267,575  
Computational Tools for Rule Based Modeling of Biochemical Systems

Loker, Eric/Adema, Coenraad  
National Institutes of Health \$289,338  
Biology of Trematode-Snail Associations

Zhang, Si-Ming  
National Institute of Allergy and Infectious Diseases/ National Institutes of Health/Department of Health  
and Human Services \$735,750  
Molecular Studies of Immuno-Parasitology in Snails

Museum of Southwestern Biology

Turner, Thomas  
National Science Foundation \$136,205  
Community Responses to River Drying in an Arid-Land Ecosystem: A Field and Experimental Study

Natural Heritage New Mexico

Arbetan, Paul/Muldavin, Esteban  
NM Military Affairs Department \$47,000  
Aplomado Falcon Habitat Survey

Arbetan, Paul/Muldavin, Esteban  
NM Military Affairs Department \$49,000  
Environmental Assessment, Grey Vireo Monitoring, Gunnison's Prairie Dog Survey

Johnson, Kristine  
Department of Defense \$117,494  
Habitat Use by Pinyon-Juniper Birds

Johnson, Kristine  
Department of Defense \$85,000  
Grassland Bird Surveys at Holloman AFB

Johnson, Kristine  
Department of Defense \$40,000  
Raptors Surveys at Holloman AFB

Johnson, Kristine  
Department of Defense \$110,000  
Management, Wetlands/Floodplain

McCollough, Charles  
NM Game and Fish Department \$10,800  
Abstracts for Species of Greatest Conservation Need

Muldavin, Esteban  
National Park Service/Department of the Interior \$14,900  
Plant Species Inventory and Herbarium Specimen Verification, Petroglyph National Monument

Tonne, Philip  
Forest Service/Department of Agriculture \$25,800  
Development of Native Plant Materials Program

**Center for Advanced Studies**

Atlas, Susan/Koch, Steven John

Defense Threat Reduction Agency \$1,452,390

Atomistic Modeling and Experimental Studies of Energy Transduction and Catalysis in the Molecular Motor Protein Kinesin

Caves, Carlton

Office of Naval Research \$74,560

Quantum Entanglement and High-Precision Measurements

Deutsch, Ivan

National Science Foundation \$75,000

Quantum Control Atomic Spins

Deutsch, Ivan

Office of Naval Research \$122,026

Quantum Control of Trapped Atoms for Improved Stability of Optical Clocks

Deutsch, Ivan

National Institute of Standards & Technology/Technology Administration/DOC \$390,014

Elements of Neutral Atom Quantum Computing with Optical Control

Landahl, Andrew

Sandia National Laboratories \$111,000

Quantum Error Correction in Double Quantum Dot Qubits

Prasad, Sudhakar

Boeing Company \$21,991

EVITA Project Continuation

Prasad, Sudhakar

Air Force Office of Scientific Research \$199,983

Combining Imaging and Nonimaging Observations for Improved Space Object Identification

**Center for Research in Ecological Studies and Technology**

Michener, William

Duke University \$48,428

A Digital Repository for Preservation and Sharing of Data Underlying Published Works in Evolutionary Biology

Michener, William

National Science Foundation \$749,739

INTEROP: Creation of a Virtual Data Center for the Biodiversity, Ecological and Environmental Sciences

Michener, William

U.S. Geological Survey/Department of the Interior \$170,431

National Biological Information and Infrastructure (NBII) and UNM Metadata Standardization Project

Michener, William/Waide, Robert  
National Science Foundation \$1,487,500  
Long Term Ecological Research Network Office FY 09-15

Waide, Robert  
National Science Foundation \$440,000  
All Scientists Meeting 2009

Waide, Robert  
University of Puerto Rico \$50,000  
Luquillo LTER

Waide, Robert  
Colorado State University \$47,160  
Targeted Partnership: Culturally Relevant Ecology, Learning Progressions and Environmental Literacy

Waide, Robert/Brunt, James  
National Science Foundation \$200,000  
Long Term Ecological Network (CREST Center Plan)

### **Chemistry**

Cabaniss, Steve  
University of Florida \$57,523  
Novel Sensor for the In Situ Measurement of Uranium Fluxes

Deck, Lorraine  
Arizona State University \$756  
Synthesis of Natural Product Analogues

Deck, Lorraine  
Arizona State University \$756  
Design and Synthesis of Therapeutics for Cancer

Dunaway Mariano, Debra  
University of Maryland Biotechnology Institute \$73,673  
Structure-Function Studies of Human Hyaluronidases

Dunaway Mariano, Debra  
Los Alamos National Laboratory \$99,000  
LANL Standard Research Contract 70137-001-08

Dunaway Mariano, Debra  
Boston University \$225,000  
Mechanism and Function in HSD Phosphotransferases

Dunaway Mariano, Debra/Mariano, Patrick  
National Institutes of Health \$494,832  
Enzymes: Structure, Mechanism, Function, Inhibition



Grey, John  
Oak Ridge Associated Universities \$5,000  
Mapping Structure-Function Relationships in Molecular Photovoltaic Devices

Grey, John  
American Chemical Society \$100,000  
Uncovering and Understanding Morphology-Dependent Charge Transport and Trapping in Polymer Photovoltaic Materials

Guo, Hua  
Department of Energy \$122,999  
Wave Packet Based Statistical Approach to Complex-Forming Reactions

Guo, Hua  
National Institutes of Health \$75,000  
Mechanism and Inhibition of Arginine Deiminase

Guo, Hua  
American Chemical Society \$100,000  
Catalytic Mechanisms for Hydrogen Production by Methanol Steam Reforming

Kemp, Richard  
Sandia National Laboratories \$24,927  
Materials Synthesis

Kemp, Richard  
Sandia National Laboratories \$52,214  
Conversion of CO<sub>2</sub> into Useful Chemicals and Fuels

Kemp, Richard  
Sandia National Laboratories \$3,688  
High-Throughput Reactor Setup

Kemp, Richard  
American Chemical Society \$100,000  
TT-Bonded Cationic Ligands as Catalysts and Precursors

Kirk, Martin  
National Science Foundation \$125,000  
Electronic and Magnetic Studies of Heterospin Inorganic/Organic Molecular Materials

Kirk, Martin  
National Institute of General Medical Sciences/NIH/DHHS \$29,384  
Spectroscopic Studies of Molybdoenzymes and Models

Kirk, Martin  
National Institute of General Medical Sciences/NIH/DHHS \$264,456  
Spectroscopic Studies of Molybdoenzymes and Models

Mariano, Patrick  
University of Maryland \$216,487  
Giardia Drug Targets: Structure Function and Inhibitors

Paine, Robert  
Department of Energy \$135,000  
Preorganized and Immobilized Ligands for Metal-Ion Separations

Paine, Robert  
Department of Energy \$141,005  
Design and Development of Selective Extractants for An/Ln Separations

Paine, Robert  
Washington State University \$100,000  
Advanced Aqueous Separation Systems for Actinide Partitioning

Tierney, David  
National Science Foundation \$95,857  
Integrated Paramagnetic Resonance of High-Spin Co (II) Systems

Wang, Wei  
National Science Foundation \$133,000  
Bifunctional Organic Molecule-Mediated Catalysis

### **Communication and Journalism**

Oetzel, John  
NM Human Services Department \$64,999  
Assessment Attitudes and Communication about Mental Health Stigma

Schaefer, Richard  
University of Iowa \$6,967  
FIPSE-Project VITAL

### **Earth and Planetary Sciences**

Asmerom, Yemane  
National Science Foundation \$52,624  
SGER: Dating Volcanic Rocks Using Syngenetic Non-Silicate Minerals

Asmerom, Yemane  
Sloan (Alfred P.) Foundation \$61,002  
Towards Broader Participation in the Earth Sciences

Brearley, Adrian  
National Aeronautics & Space Administration \$195,000  
Formation and Alteration Behavior of Chondritic Materials

Brearley, Adrian  
National Aeronautics & Space Administration - Washington \$64,000  
Integrated Mineralogical and Isotopic Studies of STARDUST Cometary Samples

Crossey, Laura  
NM State University \$2,600  
UNM - Alliance for Minority Participation

Crossey, Laura  
NM State University \$949,716  
New Mexico Louis Stokes Alliance for Minority Participation - Bridge to the Doctorate

Crossey, Laura  
NM Water Resources Research Institute \$5,000  
Aqueous Geochemistry of Springs and Wells of the Sevilleta NWR

Crossey, Laura  
NM State University \$50,500  
New Mexico Alliance for Minority Participation: Phase IV

Crossey, Laura/Karlstrom, Karl  
National Science Foundation \$91,116  
“Continental Smokers”: Evaluating Mantle Degassing, CO<sub>2</sub> Flux, Geomicrobiology, and Water Quality In Extensional Continental Regimes

Fischer, Tobias  
National Science Foundation \$183,381  
Acquisition of a Gas Chromatograph and Quadrupole Mass Spectrometer System for Analysis of Volatiles in Earth Sciences

Galewsky, Joseph  
New Mexico Institute of Mining and Technology \$15,000  
New Mexico Computing Applications Center (NMCAC) Internships

Galewsky, Joseph  
National Science Foundation \$121,945  
NM EPSCoR RII3: Climate Change Impacts on New Mexico's Mountain Sources of Water

Galewsky, Joseph/Sharp, Zachary  
National Science Foundation \$62,300  
Collaborative Research: Intercomparison of Water Vapor Isotope Measurements from Mauna Loa, Hawaii

Geissman, John  
GeoForschungsZentrum Potsdam \$32,500  
Workshop on Integrated Scientific Coring on and Adjacent to the Colorado Plateau: Early Mesozoic History

Gutzler, David  
National Oceanic & Atmospheric Administration/Department of Commerce \$33,902  
The Seasonal Cycle of Drought

Jiang, Ying-Bing  
Sandia National Laboratories \$20,000  
Tuning Nanostructures by Atomic Layer Deposition

Jiang, Ying-Bing  
Sandia National Laboratories \$40,000  
Fabrication of Nanochannels by Atomic Layer Deposition and Energetic Particle Processings

Jones, Rhian  
National Aeronautics & Space Administration - Washington \$117,000  
Petrologic, Chemical, and Experimental Investigation of Early Solar System Materials

Jones, Rhian  
National Aeronautics & Space Administration - Washington \$484,000  
Early Solar System Materials: Chemical, Petrologic, and Isotopic Investigations

Karlstrom, Karl/Crossey, Laura  
National Science Foundation \$49,488  
Collaborative Research: CREST – Colorado Rockies Experiment and Seismic Transects

Karlstrom, Karl/Crossey, Laura  
National Science Foundation \$607,650  
Collaborative Research: The Trail of Time: A Geoscience Exhibition at Grand Canyon National Park

Meyer, Grant  
Department of the Interior \$11,996  
(Colorado Plateau Cooperative Ecosystem Studies Unit) Geomorphic Influence of Beaver on Fluvial Systems in the Greater Yellowstone Ecosystem

Nyman, Matthew  
Institute for Global Environmental Strategies \$9,996  
Earth System Science Education Alliance - Distance Learning Classes for Teachers

Nyman, Matthew/Ellwein, Amy  
NM Public Education Department \$97,500  
Pathways Towards Science and Math Integration: Elementary Teacher Institute for Bernalillo Public Schools for 2008-2009

Selverstone, Jane  
National Science Foundation \$53,021  
Collaborative Research: What is the Strength of Low-Angle Normal Faults?

Sharp, Zachary  
National Aeronautics & Space Administration - Washington \$74,000  
Chlorine Isotope Distribution in Meteorites: Search for Multiple Nebular Reservoirs

VandeCastle, John  
NM Department of Health \$31,650  
Environmental Public Health Tracking Implementation Project, FY 08-09

Weissmann, Gary/Wawrzyniec, Tim  
Department of Energy \$15,000  
Collaboration: Investigation into the Relationship Between Heterogeneity and Heavy-Tailed Solute Transport

Weissmann, Gary  
NM Water Resources Research Institute \$4,952  
The Dependency of Anomalous Transport Behavior on Flow Path Orientation

### **Earth Data Analysis Center**

Baros, Shirley

State Of New Mexico \$106,509

Geospatial Support for the New Mexico Public School Facilities Authority

Baros, Shirley

Federal Emergency Management Agency \$128,083

Subproject for Institution #22686 entitled The University of New Mexico Multi-Hazard Mitigation Plan

Benedict, Karl

Valles Caldera Trust \$13,891

Application of Daily MODIS remote sensing Imagery to Grassland Fuels Management in Northern New Mexico

Benedict, Karl

National Science Foundation \$120,893

NM EPSCoR R113: Climate Change Impacts on New Mexico's Mountain Sources of Water

Budge, Thomas

Sandia National Laboratories \$15,220

Global Security Engagement and International Safeguards Organization/Cooperative Monitoring Center (CMC)

Budge, Thomas

Sandia National Laboratories \$10,600

Sandia Laboratories Geospatial Analysis Support

Budge, Thomas

Los Alamos National Laboratory \$22,847

Land Cover Map Revision

Budge, Thomas

NM Energy, Minerals, and Natural Resources Department \$5,000

MMD Georeferencing

Inglis, Michael

Federal Emergency Management Agency \$60,000

Map Modernization Management Support (MMMS) Cooperative Program

Inglis, Michael

NM Department of Health \$238,292

Development and Implementation of New Mexico Environmental Public Health Tracking System

Inglis, Michael

NM Department of Finance & Administration \$198,500

Subproject for Institution #30633

Morain, Stanley/Benedict, Karl

National Aeronautics & Space Administration - Washington \$316,886

Adding NASA Earth Science Results to EPHTN via the NM/EPHT System

**Economics**

Berrens, Robert

Forest Service/Department of Agriculture \$19,500

Economic Analysis in Support of National Forest Planning

Berrens, Robert/Thacher, Jennifer

Department of Agriculture \$50,000

A Continuing Research Agenda into Understanding Behavioral and Economics Responses to Forest Restoration Programs in the Southwest

Bohara, Alok

Department of the Interior \$38,850

Habitat Use of Mountain Goats (*Oreamnos Americanus*) in the Kenai Mountains, South-Central Alaska

Brookshire, David

University of Arizona \$139,648

Sustainability of Water Resources in Semi-Arid Regions

Brookshire, David

U.S. Geological Survey/Department of the Interior \$50,000

The Management Plan and Resource Agreement for Science Impact Laboratory for Policy and Economics (SILPE)

Brookshire, David

NM State University \$19,717

Gila Economic Forum

Chermak, Janie

National Science Foundation \$11,775

NM EPSCoR RII3: Climate Change Impacts on new Mexico's Mountain Sources of Water

Fontenla, Matias

Johnson (Robert Wood) Foundation \$10,000

Do Vulnerable Populations Enjoy Improved Health During Periods of Economic Growth

Fontenla, Matia

Johnson (Robert Wood) Foundation \$9,947

The Effects of Business Cycles on Mortality for Vulnerable Populations by Age and Cause of Death

Krause, Catherine

MDRC \$308,091

A Demonstration of Performance Based Scholarships - University of New Mexico Site

Krause, Catherine

MDRC \$105,280

Performance-Based Scholarships

**English**

Dunaway, David

San Francisco State University \$58,275

Temporary Assignment as Distinguished Faculty

Nocentelli, Carmen  
Newberry Library \$40,000  
Fellow in Residence

### **Foreign Languages and Literatures**

Kolchevska, Natasha  
National Security Agency \$78,760  
(National Foreign Language Center) Startalk: Summer Language Institute in Arabic and Chinese for High School Students Summer 2008

Kolchevska, Natasha  
National Foreign Language Center \$99,493  
Summer 2009 Language Institute in Arabic and Chinese

### **Geography**

Lane, Maria  
National Science Foundation \$67,529  
Intersections of Authority: Science, Law, and the Management of Water Resources in New Mexico's Rio Grande Valley

Matthews, Olen  
National Geographic Society \$50,000  
(National Geographic Education Foundation) 2008/2009 Alliance Network Grant

Zandbergen, Paul  
National Science Foundation \$121,980  
Reverse Geocoding, Geographic Masking, and Geospatial Privacy

Zandbergen, Paul  
American Civil Liberties Union of Florida \$29,500  
Availability and Spatial Distribution of Affordable Housing in Miami-Dade County

### **History**

Scharff, Virginia  
Yale University \$60,000  
(Bienecke Library, Yale University Library) Fellow in Residence

Truett, Samuel  
Newberry Library \$40,000  
Newberry Library Fellow In Residence

### **Institute for Medieval Studies**

Graham, Timothy  
New Mexico Humanities Council \$5,509  
Spring Lecture Series 2009: Vision and Visionaries in the Middle Ages

### **Institute of Meteoritics**

Agee, Carl

National Aeronautics & Space Administration - Washington \$125,000  
Experimental Studies of Planetary Magmas at High Pressure

Agee, Carl

National Science Foundation \$326,845  
Collaborative Research: High Pressure Experimental Melt Density

Draper, David

National Aeronautics & Space Administration - Washington \$100,000  
Experimental Simulation of Lunar Magma Ocean Crystallization

Newsom, Horton

University of California, Los Angeles \$7,415  
Dawn Mission Educational Activities

Newsom, Horton

Los Alamos National Laboratory \$18,208  
ChemCam Project

Newsom, Horton

National Aeronautics & Space Administration - Washington \$114,015  
Chemical Fractionation Due to Impact Processes on the Earth, Moon and Other Planetary Bodies

Newsom, Horton

National Aeronautics & Space Administration - Washington \$30,000  
Using LIBS to Understand the Role of Cold Evaporites and Ice-Mineral Mixtures on the Martian Surface

Newsom, Horton

National Aeronautics & Space Administration - Washington \$48,169  
Slow Motion Field Test of Laser-Induced Breakdown Spectroscopy (LIBS) and other Instruments for Geological Mapping of Rocks and Surficial Materials at the Houghton Impact Structure, Devon Island, Canada

Papike, James

National Aeronautics & Space Administration \$270,000  
Microbeam Studies of Planetary Materials

Shearer, Charles

National Aeronautics & Space Administration - Washington \$98,838  
Lunar Advanced Science and Exploration Research

Spilde, Michael/Polyak, Victor

NM Institute of Mining and Technology \$29,920  
Snowy River Comprehensive Science and Management Program

### **Linguistics**

Axelrod, Melissa

National Science Foundation \$27,958  
Nambe Tewa Language Revitalization Project Production of an Electronic Archive



Morford, Jill  
Gallaudet University \$186,058  
Science of Learning Center for Visual Language and Visual Learning (VL2)

**Mathematics and Statistics**

Aceves, Alejandro  
National Science Foundation \$9,617  
Nonlinear Optics in Photonic Micro and Nanostructures

Blair, Matthew  
National Science Foundation \$64,683  
Fourier Analysis in Bounded Domains

Briand, Cathy  
NM Public Education Department \$68,125  
Implementation of Math Recovery/Add + Vantage Mathematics in the Moriarty, Edgewood, and APS Cluster Schools

Coutsias, Evangelos  
University of California, San Francisco \$82,500  
Physics Based Refinement of Comparative Protein Models

Ellison, James  
Department of Energy \$261,000  
STIMULUS: Investigations of Beam Dynamics Issues at Current and Future Accelerations; 02-05

Lushnikov, Pavel  
University of Notre Dame \$33,741  
Multiscale Stochastic Model of Myxobacteria Dynamics

Lushnikov, Pavel  
National Science Foundation \$108,385  
Turbulence from Singular Collapses in Nonlinear Schroedinger Type of Equations

Storlie, Curtis  
Sandia National Laboratories \$40,000  
SURP FY08-09: Advances in Sensitivity analysis for Complex Computer Models

Sulsky, Deborah  
Purdue University \$211,575  
PRISM: Center for Prediction of Reliability, Integrity & Survivability of Microsystems

Umland, Kristin  
NM Public Education Department \$200,000  
La Meta: Mathematics Educators Targeting Achievement

**Maxwell Museum of Anthropology**

Dixon, E. James  
National Science Foundation \$43,914  
Gateway to the Americas

Dixon, E. James  
National Science Foundation \$70,241  
Ice Patch Archeology Transfer from University of Colorado, Boulder

Dixon, E. James  
National Park Service/Department of the Interior \$44,548  
Lake Clark Ice Patch Archeology

Edgar, Heather/Kroth, Philip  
National Library of Medicine/NIH/DHHS \$132,889  
The Impact of an Ethnically Diverse, Web-based Case File in Orthodontic Education

Huckell, Bruce  
National Geographic Society \$15,000  
A Second Cache of Clovis Artifacts near Beach, North Dakota

Huckell, Bruce  
National Park Service/Department of the Interior \$34,773  
Archaeological Assessment of the Hidden Ridge Site in Tonto National Monument

Phillips, David  
Army Corps of Engineers \$5,800  
Archeological Curation, Federal FY 2006

Phillips, David  
Department of Defense \$7,000  
Ongoing Curation of Kirtland AFB Archaeological Documents and Collections (Initial Year Plus up to Two Option Years at Same Price

Phillips, David  
National Park Service/Department of the Interior \$20,923  
Inventory and Re-Housing Aztec Ruins Museum Collections

Phillips, David  
National Park Service/Department of the Interior \$27,510  
Cataloging Bis Sa'ani Archaeological Museum Collection

**Office of Contract Archeology**

Chapman, Richard  
Valles Caldera Trust \$3,602  
Flotation Processing of LA 26917 Samples 185-974

Chapman, Richard  
National Park Service/Department of the Interior \$94,378  
Documentation and Mapping of the Cavate Dwellings at Tsankawi Mesa, Bandelier National Monument

Chapman, Richard  
National Park Service/Department of the Interior \$43,090  
Archeological Resources Inventory and Evaluation Fort Union National Monument, New Mexico (185-994)  
(National Park Service)

Chapman, Richard  
Waszak Family Homes \$12,399  
Monitoring Plan for Initial Site Preparation near the Chamisal Archeological Site Chamisal Rd and Rio Grande Blvd NW Los Ranchos, New Mexico (185-997)

Chapman, Richard  
Gulf South Research Corp. \$95,574  
Data Recovery of Sites LA 159221 and LA 159224, near Antelope Wels, Hidalgo County, New Mexico

Chapman, Richard  
Gulf South Research Corp. \$273,683  
Archeological Data Recovery of Cultural Resources at Three Sites on Federal Lands in Dona Ana County, New Mexico (185-1005)

Chapman, Richard  
Gulf South Research Corp. \$769,122  
Archeological Data Recovery of Cultural Resources at Eleven Sites on Private and Federal Land in Hidalgo County, New Mexico (185-1004)

Chapman, Richard  
Albuquerque Police Department \$9,000  
Professional Archeological and Osteological Constultation: Rate Schedule (1851010)

Chapman, Richard  
Gulf South Research Corp. \$17,250  
Cultural Resources Survey of Three Alternative Parcels for U S Customs and border Protection Station, Dona Ana County, New Mexico

Chapman, Richard  
Gulf South Research Corp. \$19,820  
Cultural Resources Survey of Two Parcels Near Fabens, Texas

Chapman, Richard  
Albuquerque Public Schools \$7,985  
Cultural Resources Survey of 12 Acres for the Albuquerque Public Schools Camp Gallagher on Santa Fe

Chapman, Richard  
Albuquerque Public Schools \$11,328  
Trench Construction Monitoring and Reburial Activities at Site LA 421, APS Alameda Elementary School (185-1026)

Hogan, Patrick  
Army Corps of Engineers \$33,265  
Archaeological Data Gathering, Survey and Report, Middle Rio Grande Bosque Restoration Feasibility, Bernalillo and Sandoval County, New Mexico (185-996)

Hogan, Patrick  
Army Corps of Engineers \$109,544  
Archaeological Data Gathering, Survey, and Report, John Martin Reservoir, Bent County, New Mexico (185-1003)

Hogan, Patrick/Chapman, Richard  
Central New Mexico Community College \$100,539  
CNM Rio Rancho Campus Cultural Resources Treatment Plan (185-992)

Hogan, Patrick  
NM Military Affairs Department \$30,000  
Cultural Resources Management Services

Hogan, Patrick  
NM Military Affairs Department \$25,000  
Cultural Resources Survey of NMARNG Readiness Centers

Hogan, Patrick  
Central New Mexico Community College \$9,940  
Cultural Resources Survey of 40 Acres, SunCal-CNM Site No. 4, Bernalillo County, New Mexico

Hogan, Patrick  
Central New Mexico Community College \$33,104  
DR at LA 158641 and Monitoring of Construction of Temporary Parking Area on UNM Land, Rio Rancho

### **Physics and Astronomy**

Bassalleck, Bernd  
Missile Defense Agency \$187,501  
IPA James Welch

Bassalleck, Bernd/Doug Fields  
Department of Energy \$313,000  
Strange Particles and Heavy Ion Physics

Boyd, Stephen  
Defense Threat Reduction Agency \$628,339  
New Materials and Geometries for Magnetic Microcalorimetry

Boyd, Stephen  
Defense Threat Reduction Agency \$74,675  
Boyd Subproject for Proposal # 33200

Caves, Carlton  
National Science Foundation \$200,000  
Quantum-Classical Tradeoffs for Information Processing Tasks

Diels, Jean-Claude  
Keck (W.M.) Foundation \$1,100,000  
For a Facility to Perform Biomolecular Imaging, Real Time Phase Mapping of Biological Dynamics

Fields, Douglas  
Brookhaven National Laboratory \$79,000  
FVTX HDI Development

Gold, Michael  
Department of Energy \$138,000  
NM Center for Particle Physics: Task A2: Collider Physics 04-07

Kenkre, Vasudev  
Air Force Research Laboratory \$85,000  
Theoretical Transport Studies of Non-Equilibrium Carriers Driven by High Electric Fields

Koch, Steven  
Defense Threat Reduction Agency \$238,312  
Atomistic Modeling and Experimental Studies of Energy Transduction and Catalysis in the Molecular

Landahl, Andrew  
National Science Foundation \$180,000  
EMT/QIS: Continuous-time Quantum Computation

Lidke, Keith  
National Institutes of Health \$177,745  
A Hyperspectral Microscope Optimized for Spectrally Multiplexed Live Cell Imaging

Loomba, Dinesh  
National Science Foundation \$96,945  
CAREER: Development of a New Generation of Gas-based Detectors for the Directionality Signature from Dark Matter

Loomba, Dinesh, Gold, Michael  
National Science Foundation \$105,000  
DRIFT-II: R&D and Operations Towards Dark Matter Detection

Loomba, Dinesh/Gold, Michael/Bassalleck, Bernd/Fields, Douglas/Matthews, John  
Los Alamos National Laboratory \$45,000  
R&D Towards Alternative Low-Background Readouts for Dark Matter Searches

Matthews, John  
Department of Energy \$174,000  
New Mexico Center for Particle Physics – Task B: Particle Astrophysics

McGraw, John  
Air Force Research Laboratory \$98,757  
The Surveillance of Space (SOS): Tech Transfer from the Near Earth Space Surveillance Initiative (NESSI) to the Air Force SSA Mission

Prasad, Sudhakar  
Catholic University of America \$10,025  
Enhanced Resolution Integrated Digital Super-Resolution Imaging Systems

Rand, Richard  
National Science Foundation \$129,570  
Measuring Radially Varying Pattern Speeds in Spiral Galaxies

Rudolph, Wolfgang  
Army Research Office \$383,486  
Optically Pumped Atomic and Molecular Gas Lasers

Rudolph, Wolfgang  
Colorado State University \$318,000  
Fundamental Understanding of Optical Coatings and Novel Strategies for Power Scaling of High Power Free Electron Lasers

Rudolph, Wolfgang  
Office of Naval Research \$249,917  
Increasing Standoff Detection Range for IEDs by Combining Femtosecond Pulse Filamentation with Other Spectroscopic Methods

Rudolph, Wolfgang  
Army Research Office \$109,725  
Acquisition of a Pulsed Infrared Spectrometer

Rudolph, Wolfgang  
Precision Photonics Corp. \$11,000  
(Precision Photonics Corp.) Eye-Safe Optically-Pumped Gas-Filled Fiber Lasers

Rudolph, Wolfgang  
Army Research Office \$50,000  
CW UV Radiation through Second-Harmonic Generation of Blue Diode-Laser Output

Schwoebel, Paul  
Sandia National Laboratories \$141,733  
An Advanced Neutron Generator for Field Based Active Neutron Interrogation Systems

Schwoebel, Paul  
Defense Threat Reduction Agency \$199,954  
Schwoebel Subproject for Institution #33200

Seidel, Sally  
Department of Energy \$300,557  
Collider Physics, Task A1

Seidel, Sally  
Brookhaven National Laboratory \$94,200  
Engineering for the ATLAS Laboratory

Seidel, Sally  
National Science Foundation \$14,948  
International: A Study of the Heavy Quark Content of B-Jets

Seidel, Sally  
Department of Energy \$20,000  
2009 Linear Collider Workshop of the Americas

Seidel, Sally  
National Science Foundation \$65,225  
STIMULUS-Reu: The Los Alamos Summer School

Seidel, Sally/Thomas, Timothy  
National Science Foundation \$50,838  
REU: The Los Alamos Summer School 05-08

Sheik-Bahae, Mansoor  
Air Force Office of Scientific Research \$300,045  
Consortium for Laser Induced Cooling in Solids

Sheik-Bahae, Mansoor  
Defense Threat Reduction Agency \$125,000  
Sheik-Bahae Subproject for Proposal # 33200

Taylor, Gregory  
Naval Research Laboratory \$10,000  
Array Design for the Dark Ages Lunar Interferometer

Taylor, Gregory  
University of Colorado, Boulder \$10,644  
Low-Frequency Cosmology and Astrophysics from the Moon

Zrilic, Djuro/Diels, Jean-Claude  
Air Force Office of Scientific Research \$82,156  
Bit-Error Rate Monitor for Laser Communications

Consortium of the Americas for Interdisciplinary Science

Dunlap, David/Kenkre, Vasudev  
Defense Threat Reduction Agency \$250,457  
Dunlap Subproject for Proposal #33200

**Political Science**

Atkeson, Lonna  
Pew Charitable Trusts \$186,100  
Assessing Electoral Performance in New Mexico Using an Eco-System Approach

Hansen, Wendy/Adhikari, Prakash  
National Science Foundation \$12,000  
Doctoral Dissertation Research in Political Science: Conflict-Induced Displacement, Understanding the Causes of Flight

Hansen, Wendy/Bohara, Alok  
Johnson (Robert Wood) Foundation \$19,426  
Understanding the Social Costs of Natural Disasters: A Study of the Impact of Hurricane Katrina on the Health and Well-Being of Affected Families and their Children

Ross, Andrew  
Defense Threat Reduction Agency \$162,152  
Training and Education Alliance

Sanchez, Gabriel  
Johnson (Robert Wood) Foundation \$20,000  
Assessment of Hispanic Specific Attitudes Regarding Health Coverage Reform in New Mexico

### **Psychology**

Bryan, Angela  
University of Colorado \$80,677  
Mediators and Moderators of Exercise Behavior Change

Gasparovic, Charles  
MIND Research Network \$16,552  
Spectroscopy Software Development

Goldsmith, Timothy  
Federal Aviation Administration \$175,000  
Structural Knowledge Analysis of Aviation Safety Reports

Hodge, Gordon  
Washington University School of Medicine in St. Louis \$168,495  
Test Enhanced Learning

Kiehl, Kent  
MIND Research Network \$1,874  
Graduate Research Assistant Support for Kent Kiehl

Matthews, Dan  
Second Judicial District Court \$101,384  
FAIR Family Assessment and Intervention Resources

Miller, Geoffrey  
Veterans Administration Medical Center \$3,636  
IPA/Statistical Analysis on Data Concerning Stroke Research Graduate Student Joshua Tybur

Smith, Jane Ellen  
MIND Research Network \$210,231  
Jointly Recruited UNM Faculty/MRN Researchers (Vince Clark)

Smith, Jane Ellen  
MIND Research Network \$212,861  
Jointly Recruited UNM Faculty/MRN Researchers (Kent Kiehl)



Smith, Jane Ellen  
MIND Research Network \$233,386  
Jointly Recruited UNM Faculty/MRN Researchers (Kent Hutchison)

Verney, Steven  
University of Colorado \$14,170  
Native Investigator's Development Program

Yeater, Elizabeth  
Veterans Administration Medical Center \$32,750  
IPA Funding for Psychology Graduate Student Tim Hoyt

Yeater, Elizabeth  
Veterans Administration Medical Center \$38,485  
IPA Funding for Psychology Graduate Student Erica Nason

Yeo, Ronald  
MIND Research Network \$36,420  
Attentional Dysfunctional/Recovery in TBI

Yeo, Ronald  
MIND Research Network \$43,937  
Ron Yeo Research Support

*See also: Center on Alcoholism, Substance Abuse, and Addictions*

### **Sociology/Institute for Social Research**

Broidy, Lisa  
NM Corrections Department \$12,000  
Corrections Education: Evaluation of Career Training Program

Broidy, Lisa  
Bureau of Justice Statistics \$52,965  
SAC Website Development and Visibility

Broidy, Lisa  
City of Albuquerque \$1,515,000  
AMCI: Albuquerque Metro Central Intake

Broidy, Lisa  
NM Public Safety Department \$4,500  
Project Safe Neighborhoods Supplement

Broidy, Lisa  
Johnson (Robert Wood) Foundation \$19,519  
Factors Influencing Decision Making for the HPV Vaccine

Broidy, Lisa/Wadsworth, Tim  
NM Public Safety Department \$114  
Project Safe Neighborhoods - Anti-Gang

**Speech and Hearing Sciences**

Rodriguez, Barbara

Penn State University \$148,916

Assessment of Phonological Abilities in Bilingual Children

**Sustainability Studies Program**

Milne, Bruce

McCune Charitable Foundation \$20,000

Cultivate New Mexico

**COLLEGE OF EDUCATION**

Howell, Richard

Albuquerque Public Schools \$1,544,280

APS/UNM Partnership Exchange for Services Collaborative Contract Agreement FY 2009-2010

Howell, Richard/Murphy, Susanna

Albuquerque Public Schools \$1,125,322

APS/UNM Partnership Exchange for Services Collaborative Contract Agreement 2008-09

Kitchen, Richard/Celedon-Pattichis, Sylvia

University of Arizona \$403,476

Center of Mathematics Education for Latino/as (CEMELA)

Luckasson, Ruth/Howell, Richard

Albuquerque Public Schools \$45,892

ESC-APS/UNM Partnership in Special Education Educational Diagnostician Preparation Program

Meyer, Richard

National Writing Project \$46,000

High Desert Writing Project

Mitchell, Rosalita

NM Public Education Department \$345,000

Online Mentoring Project

Mitchell, Rosalita

NM Public Education Department \$450,000

3 Tiered Licensure System Year 5

Mitchell, Rosalita

NM Public Education Department \$884,655

Teachers in Action Plan

**Educational Leadership and Organizational Learning**

Morris, Michael

Albuquerque Public Schools \$75,000

Albuquerque Community Learning Centers Project

**Educational Specialties**

Morris, Michael/Howell, Richard  
New Mexico Community Foundation \$350,000  
New Mexico Integrated Services In Schools Initiative (NMISII)

**Family Development Program**

Vermilya, Lois/Howell, Richard  
Santa Fe Community Foundation \$6,614  
Santa Fe Summer Day Camp Project

**Individual, Family, and Community Education**

Lockner, Donna  
University of California, Los Angeles \$12,279  
Partners in Excellence Leadership Training in Maternal and Child Health Nutrition

Lockner, Donna  
NM Department of Health \$98,455  
Revitalizing Quality Nutrition Services 734-12

Moreno, Roxana  
National Science Foundation \$70,020  
Guided Interactive Virtual Environments (GIVEs) For Case Based Learning

**Institute for Professional Development**

Mitchell, Rosalita  
NM Department of Finance & Administration \$100,000  
Wallace

Mitchell, Rosalita  
NM Public Education Department \$257,000  
Transition to Teaching

**Language, Literacy, and Sociocultural Studies**

Blum-Martinez, Rebecca  
NM Secretary of State \$3,000  
MOU between NM Secretary of State and UNM School of Law for the Development of  
Administrative Rules

Blum-Martinez, Rebecca  
Instituto Tecnológico de Monterrey \$43,056  
Summer English Language Program for TEC de Monterrey Instructors 08

Blum-Martinez, Rebecca  
Secretariat for Education of the State of Jalisco \$40,185  
(Secretary of Education, State of Jalisco) Diplomado in ESL Theory and Practice

Blum-Martinez, Rebecca  
NM Public Education Department \$3,500  
Spanish Language Immersion Institute for Bilingual Teachers

Manuelito, Kathryn  
NM Public Education Department \$230,771  
Institution for American Indian Education Scholarship Continuation Program 2008-2009

Manuelito, Kathryn  
NM Public Education Department \$151,391  
American Indian Educational Services FY08-09

Sims, Chris  
Department of Education \$286,899  
American Indian Language and Policy Research and Teacher Training Center

Sims, Chris  
NM Department of Indian Affairs \$35,000  
Tribal Language Certification Training Project 2009

**Multicultural Education Center**

Mahn, Holbrook/Ortiz, Leroy  
Department of Education \$299,680  
Academic Literacy for All

**Physical Performance and Development**

Saavedra, Elba  
Con Alma Health Foundation \$60,000  
Comadre A Comadre Program

Saavedra, Elba  
McCune Charitable Foundation \$7,500  
Comadre A Comadre Program: Support, Education, and Resources about Breast Health and Breast Cancer for Hispanic Latina Women

**Teacher Education**

Schaffer, Linda  
Academy of Applied Science \$18,700  
Southwest Junior Science and Humanities Symposium 2009

**SCHOOL OF ENGINEERING**

**Alliance for Transportation Research**

Brogan, James  
NM Department of Transportation \$90,000  
NMDOT CRRAFT

**Center for Biomedical Engineering**

Chi, Eva<sup>1</sup>

Oak Ridge Associated Universities \$5,000

Lipid Membrane Templated Protein Misfolding in Alzheimer's Disease

Dirk, Elizabeth<sup>1</sup>

Oak Ridge Associated Universities \$5,000

Limited Competition: Development of Biocompatible Materials with Complex 3D Nanometer-Scale Architecture

Graves, Steven<sup>1</sup>

National Institute for Health Care Management Research and Educational Foundation \$348,456

Low Cost Portable Flow Cytometry

Graves, Steven<sup>1</sup>

Los Alamos National Laboratory \$748,189

Next Generation Optically Activated Large Particle Sorting

Lopez, Gabriel<sup>1</sup>

Army Research Office \$100,000

Transmembrane Proteins in Robust Nanostructured Thin Films

Lopez, Gabriel<sup>1</sup>/Ista, Linnea

Office of Naval Research \$150,000

Model Surfaces for Studying Substratum Physicochemical Effects on Attachment and Release Of Marine Fouling Organisms

Lopez, Gabriel<sup>1</sup>/Atanassov, Plamen<sup>1</sup>

Office of Naval Research \$318,358

A Comprehensive Facility for Surface Plasmon Resonance Spectroscopy at the University of New Mexico

Petsev, Dimiter<sup>1</sup>

National Science Foundation \$417,592

New Generation of Lab on a Chip Separators Based on Independent Fluid and Analyte Control

Petsev, Dimiter<sup>1</sup>

National Science Foundation \$400,000

CAREER: Transport Control in Fluidic Micro and Nanochannels

Whitten, David<sup>1</sup>/Ista, Linnea/Lopez, Gabriel<sup>1</sup>

Defense Threat Reduction Agency \$400,000

Elucidating the Role of Conjugated Polyelectrolytes as Sensitizers of Reactive Oxygen Species and Versatile Antimicrobials

Whitten, David<sup>1</sup>

Defense Threat Reduction Agency \$200,125

Whitten Subproject for Proposal #33200

### **Center for Emerging Energy Technologies**

Atanassov, Plamen<sup>1</sup>  
Air Force Office of Scientific Research \$999,826  
Fundamentals and Bioengineering of Enzymatic Fuel Cells

Atanassov, Plamen<sup>1</sup>  
Daihatsu Motor Company Ltd. \$150,000  
Novel Electrocatalysts for Oxygen Reduction (ORR) in Alkaline Media

Atanassov, Plamen<sup>1</sup>  
Sandia National Laboratories \$89,375  
Printable Lithium Batteries

Atanassov, Plamen<sup>1</sup>/Petsev, Dimiter<sup>1</sup>/Fulghum, Julia<sup>1</sup>/Datye, Abhaya<sup>1</sup>/Ward, Timothy<sup>1</sup>  
Department of Energy \$1,090,000  
DOE EPSCoR Materials for Energy Conversion

Atanassov, Plamen<sup>1</sup>/Ivnitski, Dmitri<sup>1</sup>  
Air Force Research Laboratory \$100,000  
Bio/Nano Architectures for Enzyme Catalyzed Energy Conversion

### **Chemical and Nuclear Engineering**

Fulghum, Julia  
Battelle \$91,322  
Joint Appointment Agreement - Cassiano de Oliveira

Gilfeather, Frank/de Oliveira, Cassiano  
Defense Threat Reduction Agency \$311,170  
Applied Sciences

Hecht, Adam  
Battelle \$2,000  
Project #53244 Actinide Isomer Detection

Loehman, Ronald  
Sandia National Laboratories \$54,350  
Advanced Material Lab Support

Loehman, Ronald  
Sandia National Laboratories \$18,877  
AML Lab Support

Prinja, Anil  
INEL \$120,000  
NNST ACE Activities

Prinja, Anil  
Los Alamos National Laboratory \$77,694  
X-3 Diagnostics Applications – Improved Methods for Monte Carlo Transport

Prinja, Anil/Cooper, Gary  
Texas A&M University \$99,861  
Nuclear Security Science and Policy Institute

*See also: Center for Biomedical Engineering and Center for Micro-Engineered Materials*

**Civil Engineering**

Bogus Halter, Susan  
AMEC Earth & Environmental, Inc. \$38,355  
TA 5-R-alue QC Test Method Recommendation for US62/180 Gypsum Subgrade; G7012

Brogan, James/Hall, Jerome  
NM Department of Transportation \$100,000  
Queue Length Modeling

Coonrod, Julie  
Albuquerque Metro Arroyo Flood Control \$50,000  
Open Channel Modeling, Year Twenty

Coonrod, Julie/Meyer, Grant  
Army Corps of Engineers \$79,348  
Coupling of Hydrologic/Hydraulic Models and Aerial Photos through Time

Coonrod, Julie/Stormont, John  
Army Corps of Engineers \$80,831  
Bank Erosion Monitoring

Coonrod, Julie/Stormont, John  
Army Corps of Engineers \$83,062  
Investigating Ground/Water Surface Water Interaction at the Diversion Dam Site

Coonrod, Julie/Stormont, John  
Army Corps of Engineers \$98,718  
Bed Load Sampler/Collector Evaluation on Rio Grande

Coonrod, Julie/Stormont, John  
Army Corps of Engineers \$19,850  
Project Coordination and Oversight

Gerstle, Walter  
NM Department of Transportation \$83,292  
Bridge Load Rating Project

Howe, Kerry/Thomson, Bruce  
WateReuse Foundation \$300,000  
WateReuse Foundation Development of Selective Recovery Methods for Desalination Concentrate Salts

Lenke, Lary  
Karagozian & Case \$80,318  
German Concrete Evaluation

Lenke, Lary  
Naval Facilities Engineering Command \$30,857  
Technologies and Methodologies to Prevent Concrete Deterioration from Alkali Silica Reaction

Maji, Arup  
Air Force Research Laboratory \$162,488  
Precision Composite Space Structures

Maji, Arup  
Defense Threat Reduction Agency \$250,046  
Maji Subproject for Proposal #33200

Ross, Timothy  
Oak Ridge Associated Universities \$21,434  
Timothy Ross - Subproject for Institution #31104

Ross, Timothy  
Defense Threat Reduction Agency \$299,940  
Ross Subproject for Proposal #33200

Ross, Timothy  
Oak Ridge Associated Universities \$9,588  
Ross Subproject for Proposal # 33197

Ross, Timothy/Taha, Mahmoud Reda  
Oak Ridge Associated Universities \$17,385  
Ross Subproject for Proposal #33196

Schuler, Andrew  
National Science Foundation \$192,727  
Development of Distributed State Simulators: A Critical New Approach to Modeling Biological Reactor Systems

Schuler, Andrew  
National Science Foundation \$234,971  
CAREER-Microbial Storage Products and Density: Overlooked Fundamentals and Promising Opportunities in Biological Solids Separation

Schuler, Andrew  
Water Environment Research Foundation \$100,000  
Paul L. Busch Award

Stormont, John/Coonrod, Julie  
Army Corps of Engineers \$89,545  
Determine State of Practice for Vegetative Barriers for Levees

Taha, Mahmoud Reda  
Sandia National Laboratories \$40,813  
Optimization of NPC Structure for Efficient Energy Transmission



Taha, Mahmoud Reda  
Army Research Office \$378,061  
Multi-Scale Topological Optimization for Next Generation Impact-Tolerable Composites

Taha, Mahmoud Reda  
NM Department of Transportation \$80,000  
Examining Short and Long Term Properties of Self Consolidating Concrete

Tarefder, Rafiqul  
National Science Foundation \$51,631  
Characterization and Modeling of Asphalt Concrete for Moisture-Induced Damage

Tarefder, Rafiqul  
NM Department of Transportation \$399,777  
Development of a Flexible Pavement Database for Local Calibration of MEPDG

Tarefder, Rafiqul  
NM Department of Transportation \$126,070  
Analysis of FWD Data and Characterization of Airfield Pavement Materials in New Mexico

Tarefder, Rafiqul  
NM State University \$24,973  
Predicting Failure Behavior of Polymeric Composites in Space Vehicles Using a Unified Constitutive Model

Tarefder, Rafiqul  
National Science Foundation \$297,701  
GOALI: Nanoscale Testing and Molecular Modeling of Aging in Asphalt

Thomson, Bruce  
NM Department of Finance & Administration \$135,301  
Development of a Fluoride Treatment Process for Small Communities in New Mexico

### **Computer Science**

Bridges, Patrick  
Defense Threat Reduction Agency \$313,323  
Bridges Subproject for Institution #31044 – Networking

Bridges, Patrick  
Defense Threat Reduction Agency \$70,273  
Bridges Subproject for Network Survivability Project #30998

Bridges, Patrick/Gilfeather, Frank  
Defense Threat Reduction Agency \$162,320  
Subproject for Institution #33198

Crandall, Jedidiah  
National Science Foundation \$400,000  
CAREER: Developing Measurement Techniques for Internet Censorship

Forrest, Stephanie  
National Science Foundation \$75,000  
Metabolic Scaling of Computing

Forrest, Stephanie  
Lovelace Respiratory Research Institute \$66,743  
Modeling Influenza Virus Replication in Primary Human Lung Cells

Forrest, Stephanie  
Santa Fe Institute \$14,000  
Santa Fe Institute Research

Kapur, Deepak  
National Science Foundation \$50,000  
Collaborative Research: Cybertrust Research

Lane, Terran  
National Science Foundation \$447,900  
RI: Synergistic Machine Learning: Collaboration and Topology Discovery in Dynamic Networks

Luan, Shuang  
University of Maryland \$76,314  
Four-Dimensional IMAT Planning Using Graph Algorithms

Luger, George  
Management Sciences \$15,000  
Computer Architectures for Understanding

Luger, George  
Management Sciences \$60,000  
SigInt

Moore, Cristopher  
Santa Fe Institute \$69,263  
Research at Santa Fe Institute

Moore, Cristopher  
National Science Foundation \$50,000  
Collaborative Research: EMT/QIS: Quantum Algorithms and Post-Quantum Cryptography

Moore, Cristopher  
Santa Fe Institute \$12,973  
SFI MCDonnell Foundation

Moses, Melanie  
Sandia National Laboratories \$25,000  
Sandia National Labs/UNM Excellence in Engineering Research Program to Support a Graduate Research Fellow

Saia, Jared/Forrest, Stephanie  
University of Virginia \$128,000  
Enterprise Health: Self-Regenerative Incorruptible Enterprise

Saia, Jared  
National Science Foundation \$98,781  
Collaborative Research: Computational Methods for Understanding Social Interactions in Animal Populations

Stefanovic, Darko  
National Science Foundation \$27,660  
CBC Phase 1: Center for Molecular Cybernetics

Stefanovic, Darko  
National Science Foundation \$300,000  
Collaborative: EMT: Foundations of Molecular Robotics

Stefanovic, Darko  
National Science Foundation \$252,000  
Collaborative Research: EMT/MISC: Making Molecular Computation Practical for Biodetection Applications

### **Electrical and Computer Engineering**

Abdallah, Chaouki  
National Science Foundation \$15,000  
Student Travel Grant for the IEEE CDC 2008

Abdallah, Chaouki  
MIND Research Network \$38,340  
Professional Services Agreement

Abdallah, Chaouki  
NM State University \$10,000  
Spaceport America Student Launch Program at University of New Mexico

Abdallah, Chaouki  
NM Institute of Mining and Technology \$100,000  
Colman Support Activity at the University of New Mexico

Abdallah, Chaouki  
MIND Research Network \$186,779  
Subproject for ECE MIND Faculty Researcher Vincent Calhoun

Balakrishnan, Ganesh  
University of Arizona \$180,000  
High Power Laser Using Optically Pumped Semiconductor Laser (OSPL) Concepts

Brueck, Steven  
Cornell University \$259,375  
National Nanotechnology Information Network (NNIN)

Brueck, Steven  
Defense Advanced Research Projects Agency \$135,000  
OMC: Spatial, Temporal and Spectral Localization for Advanced Photonics Capabilities

Brueck, Steven  
Air Force Office of Scientific Research \$100,000  
Tunable Infrared Semiconductor Lasers

Brueck, Steven  
Army Research Office \$100,000  
Nanofabrication for THZ Spectroscopy: Nanochannels and Nanodots

Brueck, Steven  
Sandia National Laboratories \$70,000  
Metamaterials Grand Challenge

Brueck, Steven  
Sandia National Laboratories \$60,000  
Growth of Direct Patterned Quantum Dots

Brueck, Steven/Krishna, Sanjay  
Lockheed Martin Corporation \$50,000  
High Operating Temperature Mid-Wave Infrared Focal Plane Arrays (HOT MWIR)

Brueck, Steven/Lester, Luke  
Air Force Office of Scientific Research \$603,298  
Optoelectronics Research Center

Calhoun, Vince  
MIND Research Network \$17,499  
Proposal to Provide Graduate Research Assistant Support to the MIND Institute

Caudell, Thomas  
Oak Ridge Associated Universities \$18,977  
Thomas Caudell - Subproject for Institution #31104

Chen, Jingkuang  
National Science Foundation \$350,000  
Integrating Light with Sound: a Photoacoustic Flashlight for 3D Brain Imaging

Christodoulou, Christos  
Air Force Office of Scientific Research \$90,000  
Modeling and Prototyping of Ultra Wideband Antennas for Bioelectromagnetic Effects Investigations

Christodoulou, Christos  
Sandia National Laboratories \$89,290  
Analysis of Photonic Band Gap Structures

Christodoulou, Christos  
Air Force Research Laboratory \$2,822,145  
FMAC Support Activity at the University of New Mexico

Christodoulou, Christos  
Los Alamos National Security, LLC \$100,000  
Switchblade

Christodoulou, Christos/Pattichis, Marios  
Air Force Research Laboratory \$1,562,940  
Real-Time Reconfigurable Systems for Space Applications

Dietz, David  
Air Force Research Laboratory \$492,164  
Models for Elemental Modeling

Fierro, Rafael  
Oklahoma State University \$78,666  
CRI:IAD A Research and Education Infrastructure for Enabling Autonomic Sensor Grid Systems  
and Multidisciplinary Applications

Fleddermann, Charles  
Texas Tech University \$12,000  
FIPSE: Fund for Improvement of Post Secondary Education

Gaudet, John  
Air Force Office of Scientific Research \$31,515  
AFOSR Center of Excellence in High Power Gas Phase Electric and Hybrid Lasers

Ghani, Nasir  
Department of Energy \$175,000  
Collaborative-Hybrid Multi-Layer Network Control for Emerging Cyber-Infrastructures

Ghani, Nasir/Hayat, Majeed  
Defense Threat Reduction Agency \$460,076  
Paradigms for Survivability of Cyber-Infrastructure Backbone Networks Against WMD

Gilmore, Mark  
Department of Energy \$119,871  
Collaborative Research on the Generation of Intermittent Structures Through the Interaction of  
Drift Turbulence with Controlled Plasma Flows

Gilmore, Mark  
HyperV Technologies Corp. \$6,108  
Preliminary Calculations for Plasma Liner Formation by Merging Plasma Jets

Hawkins, Charles  
Sandia National Laboratories \$9,055  
State of the Art Research on Large Ethernet Novell/Windows NT

Hayat, Majeed  
Sandia National Laboratories \$25,000  
Novel Signal Processing Strategies for Remote detection of Vibrational Signals

Hayat, Majeed  
Defense Threat Reduction Agency \$116,749  
Subproject for Institution #22733

Hayat, Majeed  
Defense Threat Reduction Agency \$338,818  
Hayat - Subproject for Institution #31044 Networking

Hayat, Majeed  
Defense Threat Reduction Agency \$166,521  
Subproject for Institution #31044

Hayat, Majeed  
Defense Threat Reduction Agency \$52,848  
Hayat Subproject for Network Survivability Project #30998

Hayat, Majeed  
Department of Energy \$845,000  
Algorithms and Methodologies for Detecting Vibrations Using Synthetic Aperture Radar: A Fractional-Fourier Transform Approach

Hayat, Majeed/Krishna, Sanjay  
Los Alamos National Laboratory \$325,000  
Intelligent and Adaptable Spectral-Sensing Systems Based on Tunable Infrared Super Quantum-dot Focal Plane Arrays

Hayat, Majeed/Santhanam, Balu  
National Science Foundation \$140,959  
Co-registered Vibrometry and Imaging: A Combined Synthetic-Aperture Radar and Fractional-Fourier Transform Approach

Heileman, Gregory  
Moberg Research, Inc. \$89,880  
Military Surgical Information System

Hersee, Steve  
Sandia National Laboratories \$15,000  
GaN Nanowire Devices

Hersee, Steve  
Rensselaer Polytechnic Institute \$625,000  
ERC in Smart Lighting

Huffaker, Diana  
Air Force Office of Scientific Research \$34,000  
III-V Quantum Dot Solar Cells

Jain, Ravinder  
Air Force Office of Scientific Research \$21,000  
Integrated Plasmon-Optic Circuits for Nanometric Sources and Sensors

Jain, Ravinder  
National Science Foundation \$10,000  
Fiber Optics Communications and Ultrabroadband Systems (FOCUS)

Jayaweera, Sudharman  
National Science Foundation \$201,747  
A Cooperative Game Theoretic Framework for Collaborative Signal Processing in Distributed Sensor Nets

Krishna, Sanjay  
California Institute of Technology \$50,679  
Hyperspectral Sensors with Nanoscale Quantum Dots and Plasmon Assisted Photonic Crystal Cavities

Krishna, Sanjay  
Air Force Research Laboratory \$98,448  
Nanoscale Quantum Confined Structures with Photon Controlling Cavities

Krishna, Sanjay  
Air Force Office of Scientific Research \$162,936  
Demonstration of a Polarimeter in a Pixel

Krishna, Sanjay  
IRnova \$50,000  
Development of Long Wave Infrared Superlattice Detectors

Krishna, Sanjay  
QmagiQ, LLC \$300,000  
Development of Very Longwave Infrared Detectors Based on Type-II Strained Layer Superlattices (Phase II)

Lester, Luke  
Air Force Office of Scientific Research \$22,500  
Quantum Dot Mode-Locked Lasers

Lester, Luke  
Air Force Research Laboratory \$50,000  
High-Power Quantum Dot Mode-Locked Lasers

Lester, Luke  
Southwest Sciences, Inc. \$126,960  
Monolithic Quantum Dot Mode-Locked Semiconductor Laser

Lester, Luke  
Mesa Photonics, LLC \$30,000  
Compact Quantum Dot Mode-Locked Lasers for Arbitrary Waveform Generation

Lester, Luke/Mostofi, Yasamin Chekhanomi  
BAE Systems \$549,460  
MAST CTA

Mostofi, Yasamin Chekhanomi  
National Science Foundation \$400,000  
CAREER: Compressed Collective Sensing and Control in Mobile Networks

Mostofi, Yasamin Chekhanomi  
Defense Threat Reduction Agency \$112,867  
Mostofi - Subproject for Institution #31044 Networking

Mostofi, Yasamin Chekhanomi  
Defense Threat Reduction Agency \$114,992  
Mostofi - Subproject for Institution #31044 Networking

Mostofi, Yasamin Chekhanomi  
Defense Threat Reduction Agency \$112,867  
Subproject for Institution #33198

Mostofi, Yasamin Chekhanomi/Fierro, Rafael  
National Science Foundation \$350,000  
RI-Small: An Integrative Framework to Communication and Control in Mobile Networks Operating in Fading Environments

Osinski, Marek  
National Science Foundation \$20,000  
Exploratory Studies of Optical Response to Gamma and Neutron Radiation of Doped and Undoped II-VI, III-V, and Novel Scintillating Core/Shell Nanocrystals

Osinski, Marek  
Defense Threat Reduction Agency \$250,000  
High-Performance Low-Cost Portable Radiological and Nuclear Detectors Based on Colloidal Nanocrystals

Osinski, Marek  
National Science Foundation \$350,458  
Injection-Locked Unidirectional Semiconductor Ring Lasers: A Novel Class of Ultrafast Transmitters

Osinski, Marek/Smolyakov, Gennady  
Department of Homeland Security \$100,000  
ARA-SA: Nuclear Radiation Detectors Based on Colloidal Nanocrystals

Osinski, Marek/Wilson, Michael/Oliver, Janet/Parkes, Jay/Thomas, James  
National Science Foundation \$650,000  
Integrating Nanotechnology with Cell Biology and Neuroscience

Pattichis, Marios  
VisionQuest Biomedical, LLC \$137,078  
Diabetic Retinopathy Image Analysis (VisionQuest Biomedical, LLC)

Pineda, Andrew  
Sandia National Laboratories \$85,813  
Parallelization of all Electron Density Functional Theory

Plusquellic, James  
National Science Foundation \$99,987  
CT-ISG: Collaborative Research: Detection and Isolation of Malicious Inclusions in Secure Hardware



Schamiloglu, Edl/Gilmore, Mark  
Air Force Office of Scientific Research \$250,000  
Minimizing Surface Plasmas in High Power Microwave Sources

Schamiloglu, Edl  
Sienna Technologies, Inc. \$30,000  
Non-linear Dielectric Nanocomposite for High Frequency Operation

Schamiloglu, Edl  
SAIC \$40,457  
Development of Verification Tools and Tutorials for Particle-in-Cell Codes

Sen, Pradeep  
Sandia National Laboratories \$40,000  
SURP FY08-09: An Augmented-Reality Display System for Visualization and Training

Sen, Pradeep  
National Science Foundation \$495,513  
CAREER: A Framework for Sparse Signal Reconstruction for Computer Graphics

Watts, Christopher  
Department of Energy \$100,000  
Coupling of the Photosphere to the Solar Wind: A Laboratory and Observational Study of Alfvén Wave Interaction with a Neutral Gas

Watts, Christopher  
Air Force Office of Scientific Research \$41,348  
Three Dimensional High-Resolution Reconstruction of the Ionosphere over the Very Large Array

*See also: Center for High Technology Materials*

### **Engineering Student Services**

Ami, Carlon  
Arizona State University \$24,490  
MEP 2008 Freshmen Summer Bridge Program

Castillo, Elsa Maria  
NM State University \$174,000  
NMSGC Statewide Fellowship/Scholarship (Q01261)

Castillo, Elsa Maria  
NM Department of Workforce Solutions \$120,000  
WIRED Scholarships

Peralta, Steven  
NM State University \$100,000  
Native American Program in the School of Engineering Support

Peralta, Steven  
American Indian Science and Engineering Society \$68,570  
AISES ExxonMobil Bernard Harris Summer Science Camp '09 (AISES-EBHSSC '09)

Thompson, Maurice  
NM Department of Transportation \$44,994  
2008 STI - Summer Transportation Institute

**Institute for Space and Nuclear Power**

El-Genk, Mohamed<sup>1,5</sup>  
Sandia National Laboratories \$24,500  
Dynamic Simulation Model Improvements for the SNL-RPCSM

El-Genk, Mohamed<sup>1,5</sup>  
International Atomic Energy Agency \$15,176  
Shielding Calculations and Design for the SHARS Hot Cell at Egyptian Atomic Energy Authority

**Manufacturing Engineering and Industrial Relations**

Lumia, Ronald<sup>5</sup>  
National Science Foundation \$59,773  
Modeling IPMC Actuators and Sensors for Microgripper Applications

Pleil, Matthias<sup>5</sup>/Wood, John<sup>5</sup>  
National Science Foundation \$712,593  
Southwest Center for Microsystems Education

Wood, John<sup>5</sup>/Lumia, Ronald<sup>5</sup>/Starr, Gregory<sup>5</sup>  
Department of Energy \$800,000  
Simulation-Based System Realization (SBSR)

Wood, John<sup>5</sup>  
Economic Development Administration/Department of Commerce \$750,000  
MTTC Cleanroom Project, Phase IV

**Mechanical Engineering**

Al-Haik, Marwan  
National Science Foundation \$231,518  
Novel Structural Composites Using Surface Grown Carbon Nanotubes

Al-Haik, Marwan/Luhurs, Claudia/Leseman, Zayd Chad/ Taha, Mahmoud Reda  
National Science Foundation \$12,000  
NUE: An Integrated Nanotechnology Undergraduate Education Program

Al-Haik, Marwan/Leseman, Zayd Chad  
Department of Defense \$195,000  
DURIP: Instrumentation for Nanoscale Enhanced Impact Resistance for Optimized Structures

Al-Haik, Marwan  
Defense Threat Reduction Agency \$250,246  
Al-Haik Subproject for Proposal # 33200

Ingber, Marc  
National Science Foundation \$239,543  
IPA Intergovernmental Personnel Act

Leseman, Zayd Chad/Weaver, Harry  
Sandia National Laboratories \$97,208  
Microsystems Research and Development

Leseman, Zayd Chad  
Sandia National Laboratories \$241,318  
Modeling and Fabrication of Phononic Bandgap Crystals

Leseman, Zayd Chad  
National Science Foundation \$240,000  
Collaborative: Improvement of MEMS Performance by Structural Vibrations: Theory and Practical Implementations

Leseman, Zayd Chad  
NM State University \$50,000  
Growth of Carbonaceous Materials for Enhanced Material Properties

Leseman, Zayd Chad  
Sandia National Laboratories \$40,000  
SURP FY08-09: Improvement of MEMS Performance by Structural Vibrations (Second Year Proposal)

Mammoli, Andrea  
Sandia National Laboratories \$257,520  
University of New Mexico GridWise Demonstration Project

Mammoli, Andrea/Lavrova, Olga  
Electric Power Research Institute \$71,847  
Mesa del Sol Smart Grid Project with PNM

Merritt, Paul  
Schafer Corporation \$116,886  
System Engineering Support - Beam Support

Razani, Arsalan  
Air Force Research Laboratory \$78,408  
IPA - Space Vehicles Directorate

Shen, Yu-Lin  
Arizona State University \$47,000  
Mechanical Behavior of Nanolayered Metal/Ceramic Composites Coatings

Vorobieff, Peter/C. Randall Truman  
Defense Threat Reduction Agency \$199,496  
Vorobieff Subproject for Proposal #33200

*See also: Center for High Performance Computing*

**NM Engineering Research Institute**

Jones, Peter  
National Reconnaissance Office \$346,997  
IPA for Peter F. Jones

**School of Engineering Dean's Office**

Datye, Abhaya  
National Science Foundation \$570,801  
IGERT Nanoscience and Microsystems

**COLLEGE OF FINE ARTS**

**Art and Art History**

Gilbert, William  
McCune Charitable Foundation \$10,000  
Land Arts of the American West Program

von Schwerin, Jennifer

National Endowment for the Humanities/National Foundation on the Arts and Humanities  
\$24,517

Digital Documentation and Reconstruction of an Ancient Maya Temple and Prototype Design of  
Internet GIS Database of Maya Architecture

**SCHOOL OF LAW**

Lopez, Antoinette

Internal Revenue Service \$48,025  
UNM School of Law Clinical Law Program-Business and Tax/Economic Development Clinic

Martin, Nathalie/Gerding, Erik

National Conference of Bankruptcy Judges \$10,000  
Empirical Study of Payday Lending

Romero, Leo

Hastings College of the Law \$86,820  
Teaching Services of Professor Robert Schwartz

Romero, Leo

Howard University \$187,821  
Teaching Services of Professor Ted Occhialino

**Institute of Public Law**

Biderman, Paul  
NM Environment Department \$100,000  
Revise Storage Tank Rules and Other Related Work

Biderman, Paul  
State of New Mexico, Seretary of State \$32,500  
Elections and the Confidential Address Program Rules Revisions

Biderman, Paul  
Florida Supreme Court \$20,000  
Domestic Violence Virtual Trial (Florida Office of Court Improvement)

Biderman, Paul  
NM Administrative Office of the New Mexico Courts \$122,017  
Court Improvement Project Training Y-3

Biderman, Paul  
NM Administrative Office of the New Mexico Courts \$40,500  
Water Rights Adjudication Inquiry

Biderman, Paul  
NM Tourism Department \$110,000  
Off-Highway Motor Vehicle Safety Instruction and Guide Services and Related Legal Services

Biderman, Paul  
NM Traffic Safety Bureau \$797,380  
TSB State Division Projects

Biderman, Paul  
NM Traffic Safety Bureau \$257,200  
TSB Federal Division Projects

Biderman, Paul  
NM Traffic Safety Bureau \$250,000  
TSB DWI Initiatives Projects

Biderman, Paul  
NM Administrative Office of the New Mexico Courts \$20,000  
Warrant Enforcement Training Seminar FY08-09

Biderman, Paul  
NM Traffic Safety Bureau \$100,000  
TSB Traffic Safety Summit Summer 2009

Biderman, Paul/Guerin, Paul  
NM Children, Youth and Family Department \$100,000  
Planning and Design of a Juvenile Justice Training Institute and Curriculum

Flynn-O'Brien, Judy  
Humane Society of the United States \$10,000  
Wildlife Law News Quarterly

## **BRANCH CAMPUSES**

### **Gallup Branch**

Bartlett, Carol

Department of Education \$248,056

UNM-Gallup Student Support Services/TRiO

Campbell, Marjorie

NM Higher Education Department \$172,371

Nursing Enhancement-UNM-Gallup

Feldman, Walter

NM Public Education Department \$866,980

Middle College High School - Operational Budget FY07-08

Gleason-Abassary, Katherine

NM Higher Education Department \$230,716

Equipping McKinley County for the Future-State FY09

Gleason-Abassary, Katherine

NM Higher Education Department \$88,150

Equipping McKinley County for the Future-Federal FY09

Gleason-Abassary, Katherine

NM Higher Education Department \$27,720

ABE College and Career Transition Projects

Jarvis, Ann

NM Public Education Department \$214,885

Education to Careers

Kaplan, Charles

NM Public Education Department \$27,908

Middle College Lease Payment Assistance (NM Public School Facilities Authority)

Sanchez, Elsie

NM Small Business Development Center \$214,461

UNM-Gallup Small Business Development Center-State FY 08-09

Sayers, Jim

Department of Education \$359,002

Alliance for Responsive and Coordinated Curriculum Change (ARCC)

Sharma, Kamala

National Institute of Child Health and Human Development/National Institutes of Health/Department of Health and Human Services \$53,302

Biomedical and Behavioral Research Initiative at UNM-Gallup

Sharma, Kamala

Arizona State University \$630

Chemistry Peer Study Group

Watt, Paula  
Arizona State University \$189  
Peer Study for Physical Science

Watt, Paula  
Arizona State University \$756  
Subproject for Institution # 33378

Zongolowicz, H.M.  
National Writing Project \$43,000  
Four Corners Writing Project

**Los Alamos Branch**

Boyer, Patricia  
Los Alamos National Laboratory Foundation \$20,000  
Transition to Success - Summer Bridge Program

Boyer, Patricia  
Los Alamos National Laboratory Foundation \$1,500  
Middle and Early High School Days (7th, 8th, 9th, 10th grades)

Massengale, Kate  
NM Higher Education Department \$74,460  
UNM-Los Alamos Adult Basic Education Grant (Federal) FY 09

Massengale, Kate  
NM Higher Education Department \$122,312  
UNM-Los Alamos Adult Basic Education Grant (State) FY 09

Page, Cedric  
Los Alamos National Laboratory \$100,000  
UNM-LA Associate of Applied Science in Applied Technologies Degree Project

Page, Cedric/Willerton, Beverly Kay  
Los Alamos National Laboratory Foundation \$15,000  
Bridge to Success in Stem Courses

Page, Cedric  
NM Small Business Development Center \$194,290  
New Mexico Small Business Development Center (State)

Page, Cedric  
NM Small Business Development Center \$218,029  
New Mexico Small Business Development Center

Page, Cedric  
NM Small Business Development Center \$17,729  
New Mexico Small Business Development Center (Federal)

Willerton, Beverly/ Massengale, Kate  
NM Department of Workforce Solutions \$42,000  
WIRED UNM-LA

**Taos Education Center**

Corry, Brandy/Hofer, Judy  
Los Alamos National Laboratory Foundation \$7,500  
UNM-Taos FRC/ABE Collaborative

Corry, Brandy  
NM Children, Youth, and Family Department \$241,221  
Early Childhood Training and Technical Assistance Program

Corry, Brandy  
Holy Cross Hospital \$35,000  
ECRC First Born

Gonzales, Patricia  
NM Children, Youth, and Family Department \$68,020  
UNM-Taos Kid's Campus PreK Program

Gonzales, Patricia  
Department of Housing and Urban Development \$600,000  
UNM-Taos Pre-School Center for Early Learning-Construction

Gonzales, Patricia  
NM Higher Education Department \$4,050  
GEAR UP Summer Camp

Green, Theresa  
NM Public Education Department \$98,968  
UNM Taos Career Technical Network

Hofer, Judy  
NM Higher Education Department \$57,528  
UNM-Taos ABE Program-Federal Funding FY09 (State)

Hofer, Judy  
NM Higher Education Department \$110,402  
UNM-Taos ABE Program-State Funding FY09

Hofer, Judy  
NM Coalition for Literacy \$18,050  
UNM-Taos Literacy Project FY09

Hofer, Judy  
Town of Taos \$15,000  
UNM-Taos Literacy



Montes, Juan  
Northern New Mexico College \$218,481  
UNM-Taos Title V: Student Engagement Program

Niemeyer, Richard  
National Park Service/Department of the Interior \$46,155  
IMR Building a Better Future Facility Management Internship Program

Vincent, Lawrence  
Department of Education \$433,511  
STEM Application in Water and Natural Resources Information Systems

**Valencia Branch**

Auletta, Rosa  
Department of Education \$501,386  
Title V Grant - Student Success through Teaching and Learning

Bach, John  
Department of Education \$151,800  
Upward Bound/TRIO

Bach, John  
Department of Education \$99,000  
Trio Upward Bound 08-09

Chavez, Cindy  
NM Public Education Department \$9,710  
UNM Valencia Instructional Project Perkins III Redistribution Funds

Chavez, Cindy  
NM Public Education Department \$140,630  
UNM Valencia Instructional Project FY08-09

Chavez, Miriam  
Department of Labor \$1,381,546  
Nursing Expansion Program (NEP) for Rural Valencia County

Garcia, Reinaldo  
NM Children, Youth, and Family Department \$116,040  
Pre-K 2007-2008

Garcia, Reinaldo  
NM Children, Youth, and Family Department \$6,000  
Child and Adult Care Food Program

Garcia, Reinaldo  
Department of Education \$1,855,021  
STEM Graduation and Transfer Project

Manea, Najib  
Department of Education \$400,167  
Cooperating to Improve Rural Hispanic Student Success Through Technology (Title V) FY 08-09

Newby, Tina  
NM Public Education Department \$17,514  
Instructional Materials (ABE)

Newby, Tina  
NM Higher Education Department \$361,730  
Adult Education Center State FY 08-09

Newby, Tina  
NM Higher Education Department \$35,041  
Adult Basic Education (ABE) English Literacy/Civics FY09

Newby, Tina  
NM Higher Education Department \$160,419  
Adult Basic Education (ABE) Adult Education Center-Federal FY09

Scott, Roberta  
NM Small Business Development Center \$195,171  
Small Business Development Center UNM-Valencia Campus Serving Valencia, Socorro and  
Torrance Counties (FY09)

Scott, Roberta  
NM Small Business Development Center \$17,729  
Small Business Development Center UNM-Valencia Serving Valencia, Socorro and Torrance  
Counties (Federal)

White, Lyn  
Department of Education \$248,056  
OnTRAC Student Support Services/TRIO FY08-09

## **PRESIDENT'S OFFICE**

Florez, Viola  
Coalition of Urban Serving Universities \$5,000  
Establishing Urban Universities as Anchor Institutions in Developing Cross-Sector P-20 Access and  
Success Partnerships

## **VICE PRESIDENT FOR ACADEMIC AFFAIRS**

### **Continuing Education**

Martinez-Purson, Rita  
NM Children, Youth, and Family Department \$10,000  
CYFD Headstart Collaboration Website

Martinez-Purson, Rita  
NM Children, Youth, and Family Department \$127,000  
CYFD NM Kids CCR&R

Martinez-Purson, Rita  
NM Department of Workforce Solutions \$90,000  
Workforce Innovation in Regional Economic Development

Martinez-Purson, Rita  
NM Public Education Department \$164,581  
NM PED Pre-K

Martinez-Purson, Rita/Delgado-Raby, Dora  
Osher (Bernard) Foundation \$100,000  
Osher Life Long Learning Institute

Martinez-Purson, Rita/Miera, Joe  
NM Children, Youth, and Family Department \$55,772  
CYFD Market Rate Survey

Martinez-Purson, Rita/Miera, Joe  
NM Children, Youth, and Family Department \$60,000  
CYFD NM Kids Website/Database

Martinez-Purson, Rita/Miera, Joe  
NM Children, Youth, and Family Department \$162,753  
CYFD Pre-K Website

Martinez-Purson, Rita/Miera, Joe  
NM Children, Youth, and Family Department \$125,000  
CYFD Home Visiting Database

### **Extended University**

Dominguez, Jeronimo/Cornish, John  
Los Alamos National Laboratory \$132,145  
Graduate and Upper Division Programs

### **Graduate Studies**

Fledderman, Charles  
National Science Foundation \$145,250  
NSF Graduate Research Fellowship Program FY 08-13

Fledderman, Charles  
National Science Foundation \$258,855  
Graduate Research Fellowship

**KUNM-FM**

Towne, Richard  
Corporation for Public Broadcasting \$64,432  
CPB 2008 Radio Community Services

Towne, Richard  
Corporation for Public Broadcasting \$190,181  
CPB 2009 Community Service Grant

**Latin American and Iberian Institute**

Tiano, Susan  
Department of Education \$85,000  
UNM UIFSL Title VI.A> Languages Across the Curriculum, Health, and Cultural Integrity

Tiano, Susan/van Reenen, Johann  
Department of Education \$192,000  
UNM's Harvester for Creating Knowledge Streams in the Americas Project

**National Institute for Native Leadership in Higher Education**

Chavez, Eloisa  
Fieldstone Alliance, Inc. \$23,000  
Consulting Services for Fundraising and Board Development

Chavez, Eloisa  
Lumina Foundation for Education \$10,000  
Third Year of 3-Year Sponsorship for Salary Support for Institute/Completion of Grant Applications

**New Media and Extended Learning**

Knotts, Debby  
NM State University \$80,000  
New Mexico Learning Network Website Development Project

**Robert Wood Johnson Center for Health Policy**

Valdez, Robert  
University of Notre Dame \$86,760  
Native American Research Centers for Health Evaluation Project

Valdez, Robert  
New Mexico Medical Review Association \$28,049  
Aligning Forces: The Regional Quality Strategy

Wiese, William  
McCune Charitable Foundation \$50,000  
Access to Healthcare

**Southwest Hispanic Research Institute**

Garcia y Griego, Larry Manuel  
Albuquerque Public Schools \$390,000  
ENLACE Albuquerque Family Centers

**VICE PRESIDENT FOR ATHLETICS**

**Athletic Department**

Weig-Pickering, Richard  
NM Public Education Department \$100,000  
NMAA Boys and Girls State High School Basketball Tournament

**VICE PRESIDENT FOR BUSINESS AND FINANCE**

**LodeStar Astronomy Center**

Beining, David  
Chabot Space & Science Center \$280,347  
Maya Skies

**VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT**

**KNME-TV**

Anderson, Mary (Polly)  
Corporation for Public Broadcasting \$994,323  
Television Community Service Grant – FY09

Anderson, Mary (Polly)  
Corporation for Public Broadcasting \$33,000  
Television Distance Service Grant – FY09

Anderson, Mary (Polly)  
Corporation for Public Broadcasting \$20,420  
Television Interconnection Grant – FY09

Davis, Chad  
Educational Broadcasting Corporation \$10,000  
NATURE

Gale, James M.  
Corporation for Public Broadcasting \$4,500  
Digital Distribution Fund Round 12B

Kamis, Michael  
NM Cultural Affairs Office \$7,057  
Forte

Kamis, Michael  
Corporation for Public Broadcasting \$25,000  
New Mexico Election 2008

Kamis, Michael  
NM Children, Youth, and Family Department \$12,500  
Children of Incarcerated Parents (w.t.) Contract #2

Kamis, Michael/Davis, Chad  
NM Historical Records Advisory Board \$5,943  
KNME Archives Project

Kamis, Michael/Davis, Chad  
Frontline \$5,000  
Frontline Social Entrepreneurs

Kamis, Michael/Davis, Chad  
Museum of New Mexico \$114,434  
NM History Museum Exhibition Videos

Ulman, Ed  
Corporation for Public Broadcasting \$15,000  
Ready to Lead in Literacy – Year 3

Ulman, Ed  
Public Broadcasting Service \$39,000  
KNME TeacherLine

Ulman, Ed  
Bernalillo County \$35,000  
Ready to Learn (Bernalillo County)

Ulman, Ed  
KCET \$21,300  
Caregiver Recognition Project

Ulman, Ed  
Public Broadcasting Service \$4,000  
PBS Teacherline Local Course Provider Agreement

Wyckoff, Laurel  
KCET \$21,500  
A Place of Our Own – Los Niños en su Casa

Wyckoff, Laurel  
WETA \$15,000  
Untold Stories

## **VICE PRESIDENT FOR RESEARCH AND ECONOMIC DEVELOPMENT**

Baca, Matthew  
NM Department of Health \$25,529  
Inventory Design, Assessment and Assistance Project

Fulghum, Julia  
Los Alamos National Laboratory \$512,729  
Formation of the Institute for Advanced Studies

Fulghum, Julia  
Los Alamos National Laboratory \$890,691  
Administrative Support for the Institute of Advanced Studies (IAS)

Fulghum, Julia/Holder, Richard  
MIND Research Network \$98,546  
Senior Program Manager Support

Fulghum, Julia/Holder, Richard  
MIND Research Network \$91,290  
Senior Program Manager Support

Gilfeather, Frank  
Defense Threat Reduction Agency \$850,000  
Technology Transition

Gilfeather, Frank  
Defense Threat Reduction Agency \$1,522,699  
Black Sea Regional Academic Network

Gilfeather, Frank  
Defense Threat Reduction Agency \$170,001  
Gilfeather Subproject for Proposal #33200

Gilfeather, Frank  
Defense Threat Reduction Agency \$837,848  
Training and Education Alliance

Gilfeather, Frank  
Oak Ridge Associated Universities \$20,035  
Gilfeather Subproject for Proposal #33197

Gilfeather, Frank  
Oak Ridge Associated Universities \$27,239  
Gilfeather Subproject for Proposal #33196

Gilfeather, Frank  
Defense Threat Reduction Agency \$1,367,878  
Gilfeather Subproject for Network Survivability

Gilfeather, Frank  
Defense Threat Reduction Agency \$400,000  
University Strategic Partnership

Gilfeather, Frank  
Argonne National Laboratory \$647,884  
Threat Risk Indicators and Countermeasure Analysis (TRICA) System

Gilfeather, Frank  
Defense Threat Reduction Agency \$500,000  
Risk Assessment Investment Decision Support Plus System (RAIDS+)

Gilfeather, Frank/Taylor, Gregory  
Office of Naval Research \$1,832,241  
Long Wavelength Array Engineering and Science Development

Gilfeather, Frank/Caudell, Thomas/Ross, Timothy  
Oak Ridge Associated Universities \$29,589  
Professional/Technical Assistance Services II

Gilfeather, Frank/Mann, Greg  
Defense Threat Reduction Agency \$300,000  
Student Research Associate

Kimbell, Barbara  
National Science Foundation \$562,499  
NM EPSCoR RII (NM New ) Proposal

Krause, Catherine  
NM Children, Youth and Family Department \$29,501  
CYFD Aim High Cost Study

Kuidis, Deborah  
Federal Emergency Management Agency \$10,784  
Subproject for Institution #22686: The University of New Mexico Multi-Hazard Mitigation Plan

Kuidis, Deborah/Hallstrom, Gregory  
Air Force Research Laboratory \$25,058  
HEL-JTO Security Support

Mann, Greg/Shirley, Candace  
Defense Threat Reduction Agency \$300,719  
University Strategic Partnership Post-Doctoral Fellowship Research Program

Michener, William  
National Science Foundation \$81,950  
DataNet Preliminary Proposal: DataNetONE (Observation Network for Earth)



**Bureau of Business and Economic Research**

Alcantara, Adelamar

NM Department of Finance and Administration \$176,500

Census LUCA Review

Mitchel, Jeffrey

NM Economic Development Department \$93,000

A Study of Arts and Cultural Districts in New Mexico Main Street Communities

Mitchel, Jeffrey

Santa Fe County \$65,000

Study of the Relationship of the Market Housing Development and the Demand for Affordable Housing in Santa Fe County

Mitchel, Jeffrey

City of Las Cruces \$20,000

The Impact of Tax Incremental District in Downtown Las Cruces

Mitchel, Jeffrey

NM Highlands University \$24,928

The Demand for Higher Education in San Juan County

Mitchel, Jeffrey

Sheehan, Sheehan & Stelzner \$20,534

The Economic Impact of Increased Energy Prices on the City of Raton, New Mexico

Mitchel, Jeffrey

The New Mexico Community Development Loan Fund \$60,000

Survey and Analysis of Target Markets for the New Mexico Loan Fund

Mitchel, Jeffrey/Reynis, Lee

City of Albuquerque \$6,000

Economic Impact of the Arts and Cultural Industries in Albuquerque-Bernalillo County, New Mexico

Reynis, Lee

NM Finance Authority \$35,000

County Level Data Base III

Reynis, Lee

NM Department of Finance and Administration \$99,608

State Forecasting Services

Reynis, Lee

Buckman Direct Diversion Board \$11,000

Buckman Direct Diversion Economic Impact Analysis

Reynis, Lee

NM Department of Transportation \$101,541

Federal Highway Administration Reports

**Center on Alcoholism, Substance Abuse, and Addictions**

Bogenschutz, Michael<sup>7</sup>

National Institute on Drug Abuse/National Institutes of Health/Department of Health and Human Services \$1,506,212

Clinical Trial Network: Southwest Node

Bryan, Angela<sup>7</sup>/Hutchinson, Kent

National Institute on Alcohol Abuse and Alcoholism/ National Institutes of Health/Department of Health and Human Services \$613,148

HIV Prevention with Adolescents: Neurocognitive Deficits and Treatment Response

May, Philip<sup>8</sup>

National Institute on Alcohol Abuse and Alcoholism/National Institutes of Health/Department of Health and Human Services \$1,101,500

FAS Prevention in South Africa: A Trial of the IOM Model

May, Philip<sup>8</sup>

San Diego State University Foundation \$209,869

A Multi-site Neurobehavioral Assessment of Fetal Alcohol Spectrum Disorders

May, Philip<sup>8</sup>

National Institute of Mental Health/ National Institutes of Health/Department of Health and Human Services \$280,625

New Mexico Access To Research Careers in Mental Health

May, Philip<sup>8</sup>

National Institute on Alcohol Abuse and Alcoholism/ National Institutes of Health/Department of Health and Human Services \$1,527,697

A Trial of FAS Prevention in American Indian Communities

McCrary, Barbara

Rutgers University \$15,894

Testing CBT Models and Change Mechanisms for Alcohol Dependent Women

McCrary, Barbara

Clarity Counseling P.C. \$11,334

Enhance the Safety of Children Affected by Parental Methamphetamine or Other Substance Abuse

Moyers, Theresa<sup>7</sup>

National Institute on Alcohol Abuse and Alcoholism/ National Institutes of Health/Department of Health and Human Services \$525,201

Testing Theory-Based Training in Motivational Interviewing

Moyers, Theresa<sup>7</sup>

Loyola University Chicago \$39,260

Trauma Center Brief Alcohol Treatments and Cost Effectiveness

Romero, Jerome

NM Human Services Department \$19,800

Women's Street Outreach Media Campaign

Romero, Jerome  
NM Department of Health \$110,000  
Fetal Alcohol Spectrum Disorder Prevention Project

Tesche, Claudia<sup>7</sup>/Houck, Jon/Moyers, Theresa<sup>7</sup>  
National Institute on Drug Abuse/ National Institutes of Health/Department of Health and Human  
Services \$229,712  
The Neuroscience of Motivational Interviewing Change Talk

Tonigan, J. Scott<sup>7</sup>  
National Institutes of Health \$136,187  
AA Social Dynamics: The Context for Mobilizing Behavior Change

Venner, Kamilla<sup>7</sup>  
National Institute on Drug Abuse/National Institutes of Health/Department of Health and Human  
Services \$458,854  
Zuni MI/CRA Project

Woodall, W. Gill<sup>3</sup>  
National Institute on Alcohol Abuse and Alcoholism/ National Institutes of Health/Department of  
Health and Human Services \$479,524  
Web-based Responsible Beverage Service Training

Woodall, W. Gill<sup>3</sup>  
National Institute on Alcohol Abuse and Alcoholism/ National Institutes of Health/Department of  
Health and Human Services \$581,914  
Web-based Responsible Beverage Retail Service Training

Woodall, W. Gill<sup>3</sup>  
Department of Health \$62,361  
Gambling Accountability and Transparency Assessment

Woodall, W. Gill<sup>3</sup>/Davis, James W./Guerin, Paul  
NM Traffic Safety Bureau \$60,761  
Comprehensive DWI Evaluation Project

Yeagley, Jill Anne  
NM Department of Health \$160,000  
Higher Education Prevention Coalition

Yeagley, Jill Anne  
NM Department of Health \$50,000  
NM PEAC (Prevention, Education, Awareness and Cessation)

**Center for High Performance Computing**

Caudell, Thomas<sup>4</sup>  
Defense Threat Reduction Agency \$300,060  
Caudell Subproject for Proposal #33200

Caudell, Thomas<sup>4</sup>  
Oak Ridge Associated Universities \$15,376  
Caudell Subproject for Proposal #33197

Caudell, Thomas<sup>4</sup>  
Oak Ridge Associated Universities \$15,376  
Caudell Subproject for Proposal #33196

**Center for High Technology Materials**

Balakrishnan, Ganesh<sup>4</sup>  
University of Arizona \$180,000  
High Power Laser Using Optically Pumped Semiconductor Laser (OSPL) Concepts

Brueck, Steven<sup>4, 6</sup>  
Cornell University \$259,375  
National Nanotechnology Information Network (NNIN)

Brueck, Steven<sup>4, 6</sup>  
Defense Advanced Research Projects Agency \$135,000  
OMC: Spatial, Temporal and Spectral Localization for Advanced Photonics Capabilities

Brueck, Steven<sup>4, 6</sup>  
Air Force Office of Scientific Research \$100,000  
Tunable Infrared Semiconductor Lasers

Brueck, Steven<sup>4, 6</sup>  
Army Research Office \$100,000  
Nanofabrication for THZ Spectroscopy: Nanochannels and Nanodots

Brueck, Steven<sup>4, 6</sup>  
Sandia National Laboratories \$70,000  
Metamaterials Grand Challenge

Brueck, Steven<sup>4, 6</sup>  
Sandia National Laboratories \$60,000  
Growth of Direct Patterned Quantum Dots

Brueck, Steven<sup>4, 6</sup>/Krishna, Sanjay<sup>4</sup>  
Lockheed Martin Corporation \$50,000  
High Operating Temperature Mid-Wave Infrared Focal Plane Arrays (HOT MWIR)

Brueck, Steven<sup>4, 6</sup>/Lester, Luke<sup>4</sup>  
Air Force Office of Scientific Research \$603,298  
Optoelectronics Research Center

Diels, Jean-Claude<sup>6</sup>  
Keck (W.M.) Foundation \$1,100,000  
For a Facility to Perform Biomolecular Imaging, Real Time Phase Mapping of Biological Dynamics

Han, Sang<sup>1</sup>  
Sandia National Laboratories \$80,000  
Fabrication of Low-Cost, Light-Weight, High-Efficiency Solar Cells on Germanium-on-Silicon  
Substrates

Hayat, Majeed<sup>4</sup>  
Department of Energy \$845,000  
Algorithms and Methodologies for Detecting Vibrations Using Synthetic Aperture Radar: A  
Fractional-Fourier Transform Approach

Hayat, Majeed<sup>4</sup>/Krishna, Sanjay<sup>4</sup>  
Los Alamos National Laboratory \$325,000  
Intelligent and Adaptable Spectral-Sensing Systems Based on Tunable Infrared Super Quantum-dot  
Focal Plane Arrays

Hersee, Steve<sup>4</sup>  
Sandia National Laboratories \$15,000  
GaN Nanowire Devices

Hersee, Steve<sup>4</sup>  
Rensselaer Polytechnic Institute \$625,000  
ERC in Smart Lighting

Huffaker, Diana<sup>4</sup>  
Air Force Office of Scientific Research \$34,000  
III-V Quantum Dot Solar Cells

Jain, Ravinder<sup>4</sup>  
Air Force Office of Scientific Research \$21,000  
Integrated Plasmon-Optic Circuits for Nanometric Sources and Sensors

Jain, Ravinder<sup>4</sup>  
National Science Foundation \$10,000  
Fiber Optics Communications and Ultrabroadband Systems (FOCUS)

Krishna, Sanjay<sup>4</sup>  
California Institute of Technology \$50,679  
Hyperspectral Sensors with Nanoscale Quantum Dots and Plasmon Assisted Photonic Crystal  
Cavities

Krishna, Sanjay<sup>4</sup>  
Air Force Research Laboratory \$98,448  
Nanoscale Quantum Confined Structures with Photon Controlling Cavities

Krishna, Sanjay<sup>4</sup>  
Air Force Office of Scientific Research \$162,936  
Demonstration of a Polarimeter in a Pixel

Krishna, Sanjay<sup>4</sup>  
IRnova \$50,000  
Development of Long Wave Infrared Superlattice Detectors

Krishna, Sanjay<sup>4</sup>  
QmagiQ, LLC \$300,000  
Development of Very Longwave Infrared Detectors Based on Type-II Strained Layer Superlattices  
(Phase II)

Lester, Luke<sup>4</sup>  
Air Force Office of Scientific Research \$22,500  
Quantum Dot Mode-Locked Lasers

Lester, Luke<sup>4</sup>  
Air Force Research Laboratory \$50,000  
High-Power Quantum Dot Mode-Locked Lasers

Lester, Luke<sup>4</sup>  
Southwest Sciences, Inc. \$126,960  
Monolithic Quantum Dot Mode-Locked Semiconductor Laser

Lester, Luke<sup>4</sup>  
Mesa Photonics, LLC \$30,000  
Compact Quantum Dot Mode-Locked Lasers for Arbitrary Waveform Generation

Lester, Luke<sup>4</sup>/Mostofi, Yasamin Chekhanomi<sup>4</sup>  
BAE Systems \$549,460  
MAST CTA

Osinski, Marek<sup>4</sup>  
National Science Foundation \$20,000  
Exploratory Studies of Optical Response to Gamma and Neutron Radiation of Doped and Undoped  
II-VI, III-V, and Novel Scintillating Core/Shell Nanocrystals

Osinski, Marek<sup>4</sup>  
Defense Threat Reduction Agency \$250,000  
High-Performance Low-Cost Portable Radiological and Nuclear Detectors Based on Colloidal  
Nanocrystals

Osinski, Marek<sup>4</sup>  
National Science Foundation \$350,458  
Injection-Locked Unidirectional Semiconductor Ring Lasers: A Novel Class of Ultrafast Transmitters

Osinski, Marek<sup>4</sup>/Smolyakov, Gennady<sup>4</sup>  
Department of Homeland Security \$100,000  
ARA-SA: Nuclear Radiation Detectors Based on Colloidal Nanocrystals

Zrilic, Djuro<sup>4</sup>/Diels, Jean-Claude<sup>6</sup>  
Air Force Office of Scientific Research \$82,156  
Bit-Error Rate Monitor for Laser Communications

#### **Center for Micro-Engineered Materials**

Atanassov, Plamen<sup>1</sup>  
Los Alamos National Laboratory \$103,500  
New Electrocatalysts for Polymer Electrolyte Fuel Cells

Atanassov, Plamen<sup>1</sup>  
Sharp Labs of America \$35,000  
CCMC Membership

Atanassov, Plamen<sup>1</sup>  
Sandia National Laboratories \$24,000  
Materials for Printable Battery Electrodes

Atanassov, Plamen<sup>1</sup>/Datye, Abhaya<sup>1</sup>  
Thermagon, Inc. \$15,000  
CMEM Membership

Atanassov, Plamen<sup>1</sup>/Datye, Abhaya<sup>1</sup>  
MesoFuel, Inc. \$15,000  
CCMC Membership - Meso Fuel Inc. Renewal

Atanassov, Plamen<sup>1</sup>/Datye, Abhaya<sup>1</sup>  
CFD Research Corp. \$40,000  
CCMC Membership

Brinker, C. Jeffrey<sup>1</sup>  
University of Illinois at Urbana-Champaign \$182,600  
National Center for Design of Biomimetic Nanoconductors

Brinker, C. Jeffrey<sup>1</sup>  
Air Force Office of Scientific Research \$388,600  
Biocompatible and Biomimetic Self-Assembly of Functional Nanostructures

Brinker, C. Jeffrey<sup>1</sup>  
Sandia National Laboratories \$30,000  
Self-Assembly of Quantum Dots

Brinker, C. Jeffrey<sup>1</sup>  
Sandia National Laboratories \$65,861  
Direction and Analysis of Self and Directed-Assembly of Nanocomposites

Challa, Sivakumar<sup>1</sup>  
Sandia National Laboratories \$46,000  
Synthesis and Characterization of Metalloporphyrin-based Photocatalysts

Challa, Sivakumar<sup>1</sup>  
Sandia National Laboratories \$75,000  
Characterization of Nanomaterials

Datye, Abhaya<sup>1</sup>  
Toyota Technical Center, USA, Inc. \$80,000  
CCMC Membership

Datye, Abhaya<sup>1</sup>  
Cabot Superior MicroPowders \$40,000  
CCMC Membership - Cabot Superior Micropowders

Datye, Abhaya<sup>1</sup>  
Department of Energy \$475,000  
Nanostructured Catalysts for Hydrogen Generation from Renewable Feedstocks

Datye, Abhaya<sup>1</sup>  
National Science Foundation \$100,000  
REU Site in Micro-Engineered Materials

Datye, Abhaya<sup>1</sup>  
National Science Foundation \$500,000  
PIRE: Molecular Engineering for Conversion of Biomass-Derived Reactants to Fuels, Chemicals,  
and Materials

Datye, Abhaya<sup>1</sup>  
Iowa State University \$142,810  
ERC: Center for Biorenewable Chemicals

Datye, Abhaya<sup>1</sup>  
Sandia National Laboratories \$46,000  
Characterization of Self Assembled Materials

Jiang, Ying-Bing<sup>9</sup>  
T3 Scientific \$33,000  
Sulfur-Resistant Ultrathin Dense Membrane for Production of High-Purity Hydrogen

Loehman, Ronald<sup>1</sup>  
Sandia National Laboratories \$12,000  
R&D Support for Ceramic Research

Medforth, Craig<sup>1</sup>  
Sandia National Laboratories \$165,000  
Synthesis and Characterization of Porphyrin Nanostructures

Ward, Timothy<sup>1</sup>  
Sandia National Laboratories \$7,000  
Alumina Nanoparticle Synthesis Using Aerosol Methods

Ward, Timothy<sup>1</sup>  
National Science Foundation \$15,750  
Group Travel Support for the 10th International Conference on Inorganic Membranes in Tokyo,  
Japan

**Center for Science, Technology, and Policy**

Ross, Andrew  
Sandia National Laboratories \$88,267  
CSTP/New Mexico Nuclear Study Group Workshop



**Division of Government Research**

Davis, James  
NM Traffic Safety Bureau \$52,055  
Subproject for Institution #33464, Comprehensive DWI Evaluation Project

Nguyen, Bich-Hanh  
NM Traffic Safety Bureau \$460,200  
Traffic Safety Data Analysis

Nguyen, Bich-Hanh  
Experian Information Solutions, Inc. \$7,000  
NMDOT 2000-2005 Crash Files

Nguyen, Bich-Hanh  
NM Taxation and Revenue Department \$9,000  
Administrative Hearing Data Analysis  
Nguyen, Bich-Hanh  
Pacific Institute for Research and Evaluation \$4,500  
Long Tern Recovery Among Convicted Drunk Drivers

**New Mexico EPSCoR**

Michener, William/Galewsky, Joseph/Dahm, Clifford/Chermak, Janie/Rivera, Jose/Benedict, Karl  
National Science Foundation \$2,700,537  
New Mexico EPSCoR RII3: Climate Change Impacts on New Mexico’s Mountain Sources of Water

**VICE PRESIDENT FOR STUDENT AFFAIRS**

Gutierrez, Tim  
Department of Education \$226,067  
UNM Educational Opportunity Center

Gutierrez, Tim  
Department of Education \$377,527  
UNM College Assistance Migrant Program (CAMP)

Gutierrez, Tim  
Department of Education \$413,520  
UNM High School Equivalency Program

**Enrollment Management**

Babbitt, Terry/Roybal, Lawrence  
NM Higher Education Department \$1,058,700  
ENLACE New Mexico

**Outreach Services**

Cervantes, Rosa  
NM Children, Youth, and Family Department \$8,300  
CEOP – Upward Bound Summer Food Program

Cervantes, Rosa/Gutierrez, Tim  
NM Higher Education Department \$194,855  
CEOP – College Prep Programs/Gear Up

**Special Programs**

Cervantes, Rosa  
NM Children, Youth, and Family Department \$16,285  
Summer Food Program

Cervantes, Rosa  
NM Children, Youth, and Family Department \$16,783  
CEOP – College Prep Programs

Cervantes, Rosa/VoPalka, Charles  
NM Children, Youth, and Family Department \$21,739  
Lunch Program

Gutierrez, Tim  
Department of Education \$571,648  
UNM Title V

Gutierrez, Tim  
Department of Education \$248,063  
Student Support Services Years 2 and 3

Gutierrez, Tim  
Department of Education \$443,998  
UNM Upward Bound Program

Gutierrez, Tim  
Department of Energy \$51,611  
National LULAC Leadership Program

Gutierrez, Tim/Cervantes, Rosa  
Department of the Air Force \$83,404  
US Air Force JROTC Honors Program

Gutierrez, Tim/Cervantes, Rosa  
City of San Bernardino \$23,929  
College Bridge Preparation Program

Gutierrez, Tim/Gonzales, Andrew  
Department of Education \$231,448  
UNM McNair Program

Morris, Michael/Gutierrez, Tim  
Corporation for National and Community Service \$22,800  
University of New Mexico Service Corps

**UNM Children's Campus for Early Care and Education**

Aguirre, Elena  
Department of Education \$248,763  
Child Care Access Means Parents in School Program

Aguirre, Elena  
NM Children, Youth and Family Department \$266,892  
Pre-Kindergarten 2007-2008

**OTHER**

**Agora Crisis Center**

McCoy Brack, Molly  
NM Department of Health \$58,025  
NM Crisis Line

CONTRACT & GRANT AWARDS, FISCAL YEAR 2009

Office of the Vice President for Research

[research@unm.edu](mailto:research@unm.edu)

<http://research.unm.edu>