2007

2006 Major Sponsored Program and Faculty Awards for Research & Creative Activity

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2006 Major Sponsored Program
and Faculty Awards
For Research & Creative Activity

Office of Research & Graduate Studies
At the University of Nebraska–Lincoln
Awards of $3 million or more
Awards of $1 million to $2,999,999
Awards of $200,000 to $999,999
CAREER and K Awards
Arts and Humanities Awards of $50,000 or more
Arts and Humanities Awards of $5,000 to $49,999
Patents Issued
Intellectual Property Licences
Creative Works in Fine and Performing Arts
Books
Recognitions and Honors
Glossary of Federal Agency Abbreviations

On the Cover: A photo illustration of UNL’s Diocles Laser, a 100-terawatt, ultra-fast laser with the highest combination of peak and average power of any laser in the United States.
This is the fifth annual “Major Sponsored Program and Faculty Awards for Research and Creative Activity” report. This booklet highlights the successes of University of Nebraska–Lincoln faculty during 2006. The funding sources, projects and investigators on major grants and sponsored program awards received during the year are listed, as well as patents issued; published books and scholarship; fellowships and other recognitions; intellectual property licenses; and performances and exhibitions in the fine and performing arts. This impressive list grows each year and I am pleased to present evidence of our faculties’ accomplishments.

During FY2005-06, we achieved a funding milestone — UNL faculty attracted $104.6 million in external funding to the institution. This is the first time we exceeded $100 million and this in fact tripled the comparable figure achieved ten years ago.

How have we reached this success? We have worked to closely integrate our research priorities with our established programs of excellence building on each success. We zealously foster interdisciplinary research and collaborations with public and private partnerships, thus expanding our economic development efforts by working with business and industry. And we celebrate our achievements and recognize that excellence attracts excellence.

This booklet reports only the largest dollar amounts as reported through our Office of Sponsored Programs. However, the majority of our research and creative activity is conducted by single investigators and scholars who are pioneering new frontiers across all fields. Many faculty obtain funding at levels below the significantly high thresholds set for inclusion in this report. This in no way diminishes their scholarly contributions and we are proud of all faculty achievement.

Thank you for your interest and support of research at UNL. We are on the move!

Prem S. Paul
Vice Chancellor for Research and
Dean of Graduate Studies
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Award Amount</th>
<th>Start/End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen, David</td>
<td>Engineering</td>
<td>$7,500,000</td>
<td>6/25/04 – 6/24/09</td>
</tr>
<tr>
<td></td>
<td>Blast Wave Absorbing Structures: an Experimental &amp; Modeling Program</td>
<td></td>
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<td></td>
<td>DOD-Army Research Laboratory</td>
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<td></td>
<td>David Allen, dean of the College of Engineering and professor of engineering mechanics, with funding from the Army Research Laboratory-Weapons and Materials Research Directorate, directs a collaborative effort focused on development of new materials and technologies relevant to blast mitigation and weapons detection. The program includes 24 UNL faculty from six different departments—civil engineering, structural engineering, chemical and biomolecular engineering, electrical engineering, engineering mechanics and mechanical engineering—working on 15 multidisciplinary projects. The projects have the common objective of providing new materials and technologies for blast mitigation, mine detection and pathogen detection.</td>
<td></td>
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<tr>
<td>Banerjee, Ruma</td>
<td>Biochemistry</td>
<td>$10,190,697</td>
<td>9/30/02 – 8/31/07</td>
</tr>
<tr>
<td></td>
<td>Redox Biology Center</td>
<td></td>
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<td></td>
<td>Ruma Banerjee, George Holmes University professor of biochemistry in the Institute of Agriculture and Natural Resources, is the director of the Redox Biology Center. The center was established in 2002 with a grant from the National Institutes of Health as a Center of Biomedical Research Excellence. The center’s researchers investigate how cells maintain a reduction-oxidation balance, a process called redox homeostasis, and study links between redox homeostasis and diseases such as cancer, cardiovascular disease, Alzheimer’s disease and cataracts. The center’s research will provide important advances in the understanding of redox regulation, comprising aspects of cellular aging and controlled cell death.</td>
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<td>Cassman, Kenneth</td>
<td>Nebraska Center for Energy Sciences, Agronomy and Horticulture</td>
<td>$5,000,000</td>
<td>4/1/06 - 3/31/2011</td>
</tr>
<tr>
<td></td>
<td>* Nebraska Center for Energy Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Paul, Prem, Vice Chancellor for Research and Dean of Graduate Studies</td>
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<td></td>
<td>Kenneth Cassman directs the Nebraska Center for Energy Sciences Research, a collaboration between UNL and the Nebraska Public Power District. The center was established in April 2006 with NPPD’s five-year, $5 million commitment to support energy research that produces new technologies, processes and systems that provide new or</td>
<td></td>
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</tr>
</tbody>
</table>
significantly enhanced renewable energy sources, improves the quality of life and boosts economic opportunity. The center fosters interdisciplinary collaboration among UNL faculty and with other research institutions, public-sector agencies, and private sector companies with similar interests. The center supports both basic and applied research and has a broad mandate to explore a range of renewable energy opportunities (including biofuels, wind and solar energy), as well as opportunities for energy conservation.

Cotton, Dan  
Cooperative Extension  
eXtension—The Transformation of Cooperative Extension  
$6,800,000 (through 12/31/07)  
University of Kentucky and North Carolina State University. This is a collaborative effort of the nation’s 107 land-grant universities and the U.S. Department of Agriculture’s Cooperative State Research, Education and Extension Service to develop content and technology for the eXtension project. eXtension is a virtual educational environment that provides science-based, objective information. Users may take advantage of learning opportunities and interact with the expertise available from the land-grant university system.

Epstein, Michael  
Special Education and Communication Disorders  
Center for Behavior and Reading  
$4,498,231  
10/1/01 – 9/30/07  
Michael Epstein, William Barkley Professor of special education and communication disorders, and co-investigator Ron Nelson, associate research professor of special education and communication disorders, have established the Center for Behavior and Reading in the Center for At-Risk Children’s Services to focus on implementing and evaluating reading and behavior intervention programs for school-aged children. The aim of their research is to assess the overall and intervention-specific effects of various programs on school, staff, child and family levels. The project is funded by the U.S. Department of Education and involves seven participating schools in Lincoln’s public school system.

Fromm, Michael  
Center for Biotechnology  
A Protein Interaction Database for Rice Protein Kinases  
$6,057,747  
9/1/02 – 8/31/07  
Michael Fromm, director of the Center for Biotechnology and a professor of agronomy and horticulture in the Institute of Agriculture and Natural Resources, is the Plant Genome Research Center’s principal investigator. The Center was established in 2002 with a grant from the National Science Foundation and involves scientists from six universities. Research at the center focuses on protein kinases of plants, in particular those of cereal crops. Protein kinases are enzymes that affect the way plants react to their environments. Manipulating kinases could provide a means of regulating the tolerance of plants to disease and environmental stresses, such as drought and temperature extremes.

Metabolite Signaling Center  
$4,057,419  
2/1/04 - 1/31/07  
Metabolite Signaling Center scientists examine the influence of dietary molecules on human biology. They study the molecular response to metabolites using primarily genomic technologies to better understand the influence of chemicals in food on human and animal growth and development, an emerging area of critical importance for Nebraska’s economy. One goal of the research is development of agricultural products with value-added compositional changes that have beneficial effects on human health. It is among the first centers in the country to focus on effects of plant metabolites on gene expression and development in the consuming organism. Researchers use genomics technologies such as microarrays, genome sequences, cell-based bioassays and whole animal physiological studies.

Goddard, Stephen  
Computer Science and Engineering  
Drought Risk, Impact and Mitigation Information System  
$6,407,473  
9/1/05 – 9/30/08  
Stephen Goddard, associate professor of computer science and director of UNL’s Laboratory for Advanced Research Computing, is principal investigator in a $6.4 million joint effort by climatologists and computer scientists to bring cutting-edge computer science technologies to agricultural producers’ age-old decision-making processes. The three-year partnership agreements are between the U.S. Department of Agriculture’s Risk Management Agency, UNL’s Department of Computer Science and Engineering and the UNL-based National Drought Mitigation Center. A separate $1 million cooperative agreement, directed by Donald Wilhite, professor in the School of Natural Resources and director of the
Lewis, Jim  
**Mathematics**

- **Math in the Middle Institute Partnership**
  - NSF
  - Ruth Heaton, associate professor of teaching, learning and teacher education
  - Tom McGowan, professor of teaching, learning and teacher education
  - Barbara Jacobson, curriculum director for Lincoln Public Schools
  - 8/1/04 – 7/31/09

Jim Lewis, professor of mathematics; Ruth Heaton, associate professor of teaching, learning and teacher education; Tom McGowan, professor of teaching, learning and teacher education; and Barbara Jacobson, curriculum director for Lincoln Public Schools, are co-leaders of a $5 million project titled the Math in the Middle Institute Partnership. The goal is to create the next set of leaders in middle school mathematics who will mentor peers and offer challenging courses to their students. During the five years of the project, about 120 teachers will participate in three in-residence summer sessions, four non-resident academic semesters and take 10 courses created by math and pedagogy experts. Middle school is a gateway to high school success, and efforts to improve middle school learning, especially in mathematics, show benefits at later stages in students’ academic careers.

Meagher, Michael  
**Chemical and Biomolecular Engineering**

- **Process Research & Development of Antibodies as Countermeasures for C. Botulinum Neurotoxin**
  - DOD-Army Medical Research
  - $10,627,000
  - 3/1/02 – 2/10/07

Michael Meagher, Donald F. Othmer Professor of chemical and biomolecular engineering, is the director of the Biological Process Development Facility. The facility provides clients with process research and early manufacturing of new therapeutic molecules for human clinical testing. The facility is also involved in the development of vaccines against biological warfare agents and products that can be used as therapeutic countermeasures to treat people who have been exposed to biological agents. Department of Defense funding has led to the building of new laboratories that give the Biological Process Development Facility new capabilities in mammalian cell culture process research and development.

Jose, H. Douglas  
**Agricultural Economics**

- **North Central Risk Management Education Center**
  - Dept. of Agriculture-CSREES
  - $3,600,000
  - 9/15/04 – 9/14/08

The North Central Risk Management Education Center provides program leadership and coordination for risk management education in the North Central Region (Kansas, Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota and Wisconsin). It is one of four Risk Management Education Centers in the United States. They were established in 2001 to provide risk management education for agricultural producers to help them develop knowledge, skills and tools needed to make informed risk management decisions for their operations.

Harwood, David  
**Geosciences**

- **ANDRILL: Investigating Antarctica’s Role in Cenozoic Global Environmental Change**
  - NSF
  - $12,978,160
  - 6/1/05 – 5/31/10

David Harwood, professor of geosciences, leads an international team of scientists drilling beneath the Antarctic ice pack to unearth geological strata that could hold ancient clues to contemporary global warming trends. The National Science Foundation has awarded $12.9 million to a consortium of five U.S. universities headed by UNL and Northern Illinois University. Dubbed ANDRILL (ANtarctic geological DRILLing), the project is administered by the ANDRILL Science Management Office headquartered at UNL. ANDRILL is backed by more than $30 million in funding, including $9.7 million in previous and ongoing national agreements to support operations and nearly $8 million from the other countries to support scientific research. Other members of the U.S. consortium making up the American portion of the ANDRILL program are Florida State University, Ohio State University and the University of Massachusetts Amherst. The project also includes scientists from Germany, Italy and New Zealand.

National Drought Mitigation Center, will support continued work on a tool that uses satellite technology and climate information to detect vegetation stress on the ground for a much more detailed view of drought’s scope and potential impact.

Fast-Track Production of a Heptavalent Botulinum Vaccine
- **DynPort Vaccine Company**
  - $6,799,173
  - 9/1/03 – 2/28/08

Meagher is also collaborating with DynPort Vaccine Co., the University of Colorado, and the U.S. Army Medical Research Institute of Infectious Disease to develop a vaccine that protects against botulinum neurotoxin, a lethal agent that could be used for bioterrorism. The goal is to develop vaccines that protect against five subtypes of the toxin within the next one to two years and to develop a vaccine for the other two types within five years. The new vaccines could eliminate the threat of botulism as a weapon of mass destruction.
Laurence Rilett  
Civil Engineering  
$6,225,000  
Department of Transportation—Research and Innovative Technology Administration  
2007 – 2010  
The U.S. Department of Transportation’s Research and Innovative Technology Administration has designated UNL’s Mid-America Transportation Center as a regional University Transportation Center. MATC is a consortium with UNL as the lead institution with regional partners Kansas State University, University of Kansas, University of Missouri-Rolla and Lincoln University of Missouri. The Nebraska Department of Roads and the Kansas and Missouri Departments of Transportation also are key partners. Laurence Rilett, Keith W. Klaasmeyer Chair in engineering and technology in UNL’s civil engineering department, directs the center. Its focus is “improving safety and minimizing risk associated with increasing multi-modal freight movement on the U.S. surface transportation system.” MATC will focus on safety research related to rural transportation. Key safety research areas include traffic control, animal crashes, safer at-grade railway crossings and work zones and the development of more effective and economical roadside crash barriers. The university transportation centers program supports transportation research, education and technology transfer that promote scientific innovations in a variety of transportation modes and disciplines. Region 7 serves Iowa, Kansas, Missouri and Nebraska. It is one of 10 regional university transportation centers in the nation.

Sellmyer, David  
**Center for Materials Research**  
Materials Research Science & Engineering Center; Nanomagnetic Structures  
$5,491,000  
NSF  
9/1/02 – 8/31/08  
David Sellmyer, George Holmes Distinguished Professor in the department of physics and astronomy at UNL, leads the Materials Research Science and Engineering Center. The center was established in 2002 with a grant from the National Science Foundation and involves scientists from the departments of physics and astronomy, chemistry and mechanical engineering, and the School of Biological Sciences. MRSEC projects focus on fabricating and studying new magnetic structures and materials at the nanometer scale. The research has applications in advanced computing and data storage, handheld electronic devices, advanced sensors and future medical technologies.

Sheridan, Susan  
Educational Psychology  
$5,087,110  
Parent Engagement and Learning Birth to Five  
9/26/03 – 9/30/08  
Susan M. Sheridan, Willa Cather Professor of educational psychology, and co-investigator Carolyn Edwards, Willa Cather Professor of psychology and family and consumer sciences, are leading a team of researchers from UNL and UNMC in a school-readiness project funded by three federal agencies. The team will launch and evaluate a comprehensive, community-based early education program for children aged 0-5. The goal is to increase children’s readiness for school by teaching parents to build an effective relationship with their children at home and to be active participants in their children’s learning when they enter school. The program is designed to enhance children’s cognitive, behavioral and socioemotional well-being, which together set the stage for school readiness.

Tomkins, Alan  
Public Policy Center  
Community-Based & Faith-Based Organization Partners in an Integrated System of Behavioral Health Care in Nebraska  
$3,504,226  
DHHS-Admin for Children & Families  
9/30/02 – 3/31/06  
Alan Tomkins, director of the Public Policy Center and professor of psychology and law, is leading a project funded by the U.S. Department of Health and Human Services. The goal is to enhance and expand the capacity of community- and faith-based organizations to provide high-quality services as part of an integrated system of behavioral health care to rural and urban communities. Among the hoped-for outcomes is to address the problem of insufficient resources by tapping into the extensive network of community- and faith-based organizations who offer behavioral health care services. The project will be a model for other states to emulate in coordinating and integrating these groups into an effective delivery system.

Velander, William  
Chemical and Biomolecular Engineering  
cGMP Recombinant FIX and Oral Hemophilia B Therapy  
$9,794,346  
DHHS-NIH-NHLBI  
9/6/05 – 8/31/10  
William Velander, Donald R. Voelte Jr. and Nancy A. Keegan Endowed Chair in engineering, is principal investigator in a partnership funded by a $9.9 million grant from the National Institutes of Health/National Heart, Lung and Blood Institute. The goal is to develop an abundant, pure, safe and effective therapy for Hemophilia B using recombinant human coagulation proteins produced in the milk of transgenic pigs. The project builds on innovative bioengineering technologies.
pioneered by Velander that enable improved intravenous and novel oral delivery of hemophilic factors to patients. Hemophilia B is a congenital bleeding disorder that causes pain, crippling injuries and early death. It can be treated by Factor IX, a blood protein, but the costs are prohibitive and most patients do not receive it. Velander’s project isolates Factor IX in the milk of transgenic pigs.

Production and Purification of Fibrinogen Components for Production Fibrin Sealant of Hemostatic Dressing

$5,398,990  DOD-Army Medical Research
Meagher, Michael  Chemical and Biomolecular Engineering
Van Cott, Kevin  Chemical and Biomolecular Engineering
Inan, Mehmet  Chemical and Biomolecular Engineering
8/1/05 – 10/31/08
Velander is also leading a project, funded by the Department of Defense, to develop processes to produce recombinant fibrinogen and other blood proteins for bandages and implant devices, and to conduct research and clinical trials on their effectiveness. The fibrinogen bandage is a potentially life-saving technology for patients who lose large amounts of blood. When applied, the bandage immediately begins clotting the wound, stemming blood loss. The technology could be used in battlefield or other applications where patients are hemorrhaging. Fibrinogen technology could also play a role in helping develop implantable devices with increased biological compatibility. Fibrinogen made from human plasma is scarce and expensive; Velander has developed a process for producing it from transgenic cattle bred with a human gene that enables them to produce fibrinogen.

Whitbeck, Les  Sociology
Cultural Resilience of Rural & Remote Ojibwe Families

$3,138,960  DHHS-NIH-NIMH
Hoyt, Dan  Sociology
7/1/02 – 6/30/07
Ojibwe Pathways Through the High School Years

$3,262,793  DHHS-NIH-NIDA
Johnson, Kurt  Sociology
Park, Mingue  Sociology
Hoyt, Dan  Sociology
9/3/05 – 6/30/12
Les Whitbeck, professor of sociology, is coordinating two major projects. The National Institute of Mental Health is funding a five-year project to identify precursors of mental disorders and to evaluate cultural risks and protective factors among a population of pre-teen Native children in the Upper Midwest area. A second project, funded by the National Institute on Drug Abuse, is a five-year project to investigate risk and resilience for early onset substance use and abuse among pre-teen Native children in the same region.

Wood, Charles  Nebraska Center for Virology
Biological Sciences  DHHS-NIH-NCRR

$10,354,057  9/26/05 – 4/30/10
Charles Wood, Lewis Lehr/3M University
Professor of biological sciences, is the director of the Nebraska Center for Virology. The center, funded by the National Institutes of Health, combines the expertise and facilities of Nebraska’s leading biomedical research institutions: UNL, the University of Nebraska Medical Center and Creighton University. Center research addresses pathogenic and therapeutic aspects of some of the most devastating viral and neuroimmune disorders facing the global community, including AIDS, HIV-associated cancers, Alzheimer’s disease and chronic infections caused by herpes viruses and a new class of infectious agents called prions.

Kaposi’s Sarcoma & Human Herpesvirus in Africa

$3,036,741  DHHS-NIH-Nat Cancer Institute
Since the onset of the AIDS epidemic, Kaposi’s sarcoma has become the most frequently diagnosed pediatric cancer in sub-Saharan Africa. It is associated with Human Herpesvirus 8 (HHV-8) and Kaposi’s Sarcoma Herpesvirus (KSHV). The project looks to understand how these viruses are transmitted to children by studying children in Lusaka, Zambia. The goal is to establish the rates of transmission and to identify virologic, immunologic and ethnographic risk factors that predispose children to HHV-8 infection. It is anticipated that the information could be used to develop intervention strategies.

Yohe, John  IANR-Intl Programs
International Sorghum/Millet Collaborative Research Support Program (INTSORMIL)

$36,990,000  U.S. Agency for International Development
7/1/96 – 6/30/06
$9,000,000  9/30/06 – 9/29/11
John Yohe, associate professor in the department of agronomy and horticulture, directs the International Sorghum/Millet (INTSORMIL) Collaborative Research Support Program. INTSORMIL is a collaborative international organization that supports research focused on improving nutrition and increasing income in developing countries and the United States. Scientists from U.S. land grant universities collaborate with scientists in host countries in the development of technology to improve production and utilization of sorghum and millet and facilitate natural resource management. Their work is done in Africa, Eurasia, Latin America and the United States.
Awards of $1 Million to $2,999,999
Active awards in 2006
* Indicates new in 2006

Banerjee, Ruma  Biochemistry
Cystathionine Beta Synthase & Hyperhomocysteinemia
$1,177,264  DHHS-NIH-NHLBI
Mechanism of Methylmalonyl-CoA Mutase: A Radical Enzyme
$1,023,449  DHHS-NIH-NIDDK
Regulation of Homocysteine-dependent Redox Homeostasis
$1,531,581  DHHS-NIH-NIDDK

Barycki, Joseph  Biochemistry
* Structural Insights into Redox Homeostasis
$1,093,775  DHHS-NIH-NIGMS

Buckendahl, Chad  Educational Psychology
Evaluation of the National Assessment of Educational Progress
$2,398,258  Dept. of Education

Davis, Susan  Educational Psychology

Caldwell, Robert  School of Natural Resources
Thematic Soil Mapping for Site-Specific Management
$1,025,000  Dept. of Agriculture-IFAFS
Dobermann, Achim  Agronomy and Horticulture
Adamchuk, Viacheslav  Biological Systems Engineering
Ferguson, Richard  Agronomy and Horticulture

Cerutti, Heriberto  Plant Science Initiative
RNA-Mediated Silencing: Mechanisms and Biological Roles in Chlamydomonas
$1,042,852  DHHS-NIH-NIGMS

Chen, Bing  School of Engineering Technology
SPIRIT: Silicon Prairie Initiative on Robotics in IT
$1,170,488  NSF

Cotton, Dan  Cooperative Extension
* New Technologies for Ag Extension (eXtension)
$1,425,600  Department of Agriculture-CSREES

DeKraai, Mark  Public Policy Center
Child Mental Health SIG
$1,629,313  Nebraska Dept. Health and Human Services

Diamond, Judy  University of Nebraska State Museum
Explore Evolution
$2,851,409  NSF

Doll, Elizabeth  Educational Psychology
Inspiring Inquiry: Science Instruction Model for Teachers in Rural, Culturally Diverse Schools
$1,261,684  Dept. of Education
Bruning, Roger  Educational Psychology
Bonnstetter, Ron  Teaching, Learning and Teacher Education
Horn, Christy  Educational Psychology
Dzenis, Yuris  
Engineering Mechanics  
NIRT: Manufacturing of Novel Continuous  
Noncrystalline Ceramic Nanofibers  
$1,095,200  
Zeng, Xiao Cheng  
Chemistry  
Engineering Mechanics  
Feng, Ruqiang  
Engineering Mechanics  
Turner, Joseph  
Chemical and Biomolecular Engineering  
Larsen, Gustavo  

Eccarius, Malinda  
Special Education and Communication Disorders  
Mountain-Prairie Upgrade Partnership  
$1,155,054  

Espy, Kimberly  
Associate Vice Chancellor for Research and Graduate Studies  
* Prenatal Tobacco Exposure: Perinatal and Genetic Risks  
$1,242,130  
Wiebe, Sandra  
Office of Research  

Faller, Ronald  
Civil Engineering  
Evaluation & Field Installation of Steel Tube & Foam Energy Reduction (SAFER) Barrier  
$1,045,913  
Holloway, Jim  
Civil Engineering  
Reid, John  
Mechanical Engineering  
Rohde, John  
Civil Engineering  
Sicking, Dean  

Farrell, Michael  
University Television  
* IPY: Engaging Antarctica  
$1,168,014  
Diamond, Judy  
University of Nebraska State Museum  

Farritor, Shane  
Mechanical Engineering  
Track Stability Assessment & Data Transmission  
$1,681,506  
Turner, Joseph  
Engineering Mechanics  
Nelson, Carl  
Mechanical Engineering  
Jones, Elizabeth  
Civil Engineering  
Khattak, Aemal  
Civil Engineering  
Sharif, Hamid  
School of Engineering Technology  
Rilette, Laurence  

Gladyshev, Vadim  
Biochemistry  
Functions of Mammalian Thioredoxin Reductases  
$1,181,146  
Selenoprotein as a Target for Cancer Prevention  
$1,356,161  
Methionine Sulfoxide Reduction, Selenium and Aging  
$1,256,826  
* Identity & Functions of Selenoprotein Genes  
$1,138,800  

Goddard, Stephen  
Computer Science and Engineering  
Climate & Soil Risk Information System  
$1,212,056  
Willhite, Donald  
School of Natural Resources  
Hubbard, Kenneth  
School of Natural Resources  

Green, Jordan  
Special Education and Communication Disorders  
Early Speech Motor Development  
$1,779,288  

Hoagland, Kyle  
School of Natural Resources  
DNR Ground Water Management and Protection Act Service Agreement  
$1,500,000  

Hubbard, Kenneth  
School of Natural Resources  
Services of the NOAA Regional Climate Centers  
$2,065,032  

Jones, Vicky  
Northeast Research & Extension Center  
Northeast Nebraska Paraprofessional Ladder Project  
$1,976,095  
Lopez, William  
Teaching, Learning and Teacher Education  

Josiah, Scott  
NE State Forest Service  
Cooperative Forestry Program  
$1,342,785  

Kamil, Alan  
Biological Sciences  
Landmarks, Bearings and Way-Finding  
$1,338,934  
Mechanisms of Visual Search and Attention  
$1,029,062  

Koszewski, Wanda  
Nutrition and Health Sciences  
Building Nebraska Families  
$2,226,983  
Birnstihl, Elizabeth  
IANR-Cooperative Ext  
Schneppf, Marilyn  
Nutrition and Health Sciences  
Nutrition Education Program  
$1,280,914  
Birnstihl, Elizabeth  
IANR Cooperative Extension  
Schneppf, Marilyn  
Nutritional and Health Sciences  

Leslie-Pelecky, Diandra  
Physics and Astronomy  
GK-12: Project FULCRUM-Building Partnerships  
$1,572,817  
Dussault, Patrick  
Chemistry  
Kirby, Roger  
Physics and Astronomy  
Track 2, GK-12: Project Fulcrum: Phase II  
$1,987,732  
Kirby, Roger  

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Project Description</th>
<th>Funding</th>
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<tr>
<td>Lou, Marjorie</td>
<td>Veterinary and Biomedical Sciences</td>
<td>Protein-Thiol Mixed Disulfide in Cataractogenesis</td>
<td>$1,721,697</td>
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<td>Lu, Yongfeng</td>
<td>Electrical Engineering</td>
<td>Multi-Laser-Beam Open-Atmosphere Surface Coating Techniques Based on Precursor Excitation, Photodissociation and Controlled Cooling</td>
<td>$2,999,970</td>
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<tr>
<td>Meagher, Michael</td>
<td>Chemical and Biomolecular Engineering</td>
<td>Process Research and Development of Antibodies as Countermeasures for C. Botulinum Neurotoxin</td>
<td>$2,877,000</td>
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<td>Schlegel, Vicki</td>
<td>Chemistry</td>
<td>Assembly Mechanisms of TBP–Nucleated Complexes</td>
<td>$1,115,504</td>
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<td>Zhang, Wenhui</td>
<td>Chemical and Biomolecular Engineering</td>
<td>* Purification of proPRT-201 and Production of Reference Standard</td>
<td>$1,126,678</td>
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<tr>
<td>Sun, Joey</td>
<td>Biochemistry</td>
<td>Enzymology of Reductive Acetyl-CoA Pathway</td>
<td>$1,235,700</td>
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<tr>
<td>Robertson Jr., Vaughn</td>
<td>Student Affairs</td>
<td>* UNL Educational Talent Search</td>
<td>$2,042,795</td>
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<tr>
<td>Sheridan, Susan</td>
<td>Center on Children, Youth, Families and Schools</td>
<td>Evaluation of Efficacy of CBC for Addressing Disruptive Behaviors of Children-at-Risk for Academic Failure</td>
<td>$1,368,067</td>
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<td>Simpson, Melanie</td>
<td>Biochemistry</td>
<td>Role of Hyaluronan Matrix in Prostate Cancer Progression</td>
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<td>Snow, Greg</td>
<td>Physics and Astronomy</td>
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<td>Perez, Lance</td>
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<td>Robert Jr., Vaughn</td>
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<td>* UNL Educational Talent Search</td>
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<td>Umstadter, Donald</td>
<td>Physics and Astronomy</td>
<td>* Research &amp; Development of a High-Power-Laser-Driven Electron Accelerator Suitable for Applications</td>
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<td>Assembly Mechanisms of TBP–Nucleated Complexes</td>
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Awards of $200,000 - $999,999

Active awards in 2006

* Indicates new in 2006

**Weeks, Donald**  
Biochemistry  
Development of Dicamba-Resistant Crops  
Monsanto Co.  
$2,500,000

**Whitbeck, Les**  
Sociology  
Great Plains Cultural Ways Mental Health Careers Program  
DHHS-NIH-NIMH  
Sociology  
$1,514,284

**White, Lynn**  
Sociology  
Infertility: Pathways & Psychosocial Outcomes  
DHHS-NIH-NICHD  
Sociology  
$2,559,414

**Wilcke, William**  
IANR-Research  
North Central Regional Sustainable Agriculture Research & Education Program - SARE  
Dept. of Agriculture-CSREES  
$2,707,719

**Wilcox, Brian**  
Center on Children, Families and the Law  
Midwest Child Care Research Consortium  
DHHS-Admin for Child & Families  
Family and Consumer Sciences  
$1,200,000

**Wilhite, Donald**  
School of Natural Resources  
Rangeland and Forage Geospatial Decision Support System for Drought Risk Management  
Dept. of Agriculture-RMA  
$1,023,038

**Wood, Charles**  
Biological Sciences  
Programs in HIV & AIDS Assoc Diseases/Malignancies  
DHHS-NIH-Fogarty Intl Center  
Evolution of Clade C HIV-1 in Infected Children  
DHHS-NIH-NICHD  
$2,130,669

**Yamamoto, Catherine**  
Student Affairs  
Upward Bound Program-Northeast Nebraska  
Dept. of Education  
$1,338,496

**Zempleni, Janos**  
Nutrition and Health Sciences  
Vitamin-Dependent Modifications of Histones  
DHHS-NIH-NIDDK  
$1,000,877

**Zhang, Luwen**  
Center for Virology  
* Oncogenic Properties of Interferon Regulatory Factor 7  
DHHS-NIH-Nat Cancer Institute  
$1,145,961

**Admiraal, David**  
Civil Engineering  
Low-Cost Energy Dissipation at Culvert Exits  
Ne Dept. of Roads  
$201,856

**Albrecht, Julie**  
Nutrition and Health Sciences  
Entrepreneurial Center Development for Food & Textile Small Scale Business in Tajikistan  
Dept. of State-BECA  
$256,000

**Alfano, James**  
Plant Pathology  
Isolation & Characterization of Pseudomonas Type III Effectors that Suppress Programmed Cell Death in Eukaryotes  
NSF  
$375,000

**Alexander, Dennis**  
Electrical Engineering  
* Ultrafast Laser Interaction Processes for Libs & Other Sensing Technologies  
University of Central Florida  
$600,000

**Alfano, James**  
Plant Science Initiative/Plant Pathology  
* Secretion Signals & Type III Chaperones in Pseudomonas Syringae Type III Secretion System  
NSF  
$430,000

**Allen, Craig**  
School of Natural Resources  
* Monitoring, Mapping & Risk Assessment for Non-Indigenous Invasive Species in Nebraska  
Nebraska Environmental Trust  
School of Natural Resources  
$325,081

**Allen, David**  
Engineering Mechanics  
* U.S.-Brazil Dual-Degree in Infrastructure & Sustainability Engineering Program  
Dept. of Education-FIPSE  
Inter-University Program for Human Resources Training in Computational Mechanics  
Dept. of Education-FIPSE  
$208,211

**Anderson, Mark**  
Geosciences  
* Atmospheric Conditions Associated with Sea Ice Characteristics over Arctic Ocean during Melt Season  
NASA  
$208,699

**Asard, Han**  
Biochemistry  
Physiological Functions & Biochemical Properties of Plant Cytochromes b561  
NSF  
$386,084
Atkin, Audrey  
Biological Sciences  
Wild-Type PPR1 mRNA Decay by Yeast Nonsense-Mediated mRNA Decay Pathway  
$403,219  
NSF  
Moriyama, Etsuko  
Plant Science Initiative  
Avramov, Luchezar  
Mathematics  
Homology & Cohomology over Commutative Rings  
$356,322  
NSF  
Avramova, Zoya  
Biological Sciences  
ATX1, Epigenetic Regulator of Plant Development  
$442,500  
NSF  
Azizinamini, Atorod  
Civil Engineering  
Simple for Dead-Continuous for Live Load System with Partial Pre-Fabricated Deck System  
$242,038  
Ne Dept. of Roads  
Development of Design Tools for Steel Bridge Systems, Simple for Dead Loads & Continuous for Superimposed Dead Load & Live Loads  
$242,038  
Ne Dept. of Roads  
Steel Box System Monitoring of N-2 over I-480 Bridge  
$292,244  
Ne Dept. of Roads  
IBRC 2002 Project  
$240,000  
Ne Dept. of Roads  
Baenziger, P. Stephen  
Agronomy and Horticulture  
Developing Winter Wheat with Improved Fusarium Head Blight Tolerance by Conventional and Transgenic Approaches  
$260,603  
Dept. of Agriculture-ARS  
Mitra, Amit  
Plant Pathology  
Watkins, John  
Plant Pathology  
Clemente, Thomas  
Agronomy and Horticulture  
Baltensperger, David  
Panhandle Research and Extension Center  
Genetic Basis of Agronomic Traits Controlled by Chromosome 3A in Wheat  
$390,000  
Dept. of Agriculture-NRICGP  
Eskridge, Kent  
Statistics  
Dweikat, Ismail  
Agronomy and Horticulture  
Balkir, Sina  
Electrical Engineering  
* All Solid-State Wireless Sensor Network for Nuclear Proliferation Detection  
$417,191  
Dept. of Energy  
Hoffman, Michael  
Electrical Engineering  
Barletta, Raul  
Veterinary and Biomedical Sciences  
Molecular Analysis of Mycobacterium Paratuberculosis Colony-Morphology Attenuated Mutant  
$270,000  
Dept. of Agriculture-NRICGP  
Barker, Bradley  
Center on Children, Youth, Families and Schools/4-H State Office  
* Robotics & GPS/GIS in 4-H: Workplace Skills for the 21st Century  
$864,139  
NSF  
Adamchuk, Viacheslav  
Center on Children, Youth, Families and Schools/Biol Syst Engr  
Basolo, Alexandra  
Biological Sciences  
Behavioral Plasticity in Preexisting Receiver Bias  
$366,000  
NSF  
Effects of Sexual Selection & Predation on a Genetic Polymorphism for Body Size  
$519,721  
NSF  
Batelaan, Herman  
Physics and Astronomy  
Matter Optics with Intense Laser Light  
$424,997  
NSF  
Becker, Donald  
Biochemistry  
Spectroelectrochemistry of the Novel PutA Flavoprotein  
$785,540  
DHHS-NIH-NIGMS  
* MRI: Acquisition of Beckman XL-I Analytical Ultracentrifuge  
$284,160  
NSF  
Belli, Robert  
Gallup Research Center  
Verbal Behaviors in Computerized Lifecourse Surveys  
$414,430  
DHHS-NIH-Nat Inst Aging  
Bellows, Laurie  
Graduate Studies  
Ronald E. McNair Post-baccalaureate Achievement Program  
$960,172  
Dept. of Education  
Belot, John  
Chemistry  
GOALI: Chemical Factors Affecting Metal-Organic Chemical Vapor Deposition Precursors  
$365,000  
NSF  
Benson, Andrew  
Food Science and Technology  
Functional Consequences of Genome Evolution in Listeria Monocytogenes  
$261,515  
Dept. of Agriculture-NRICGP  
Genome Biology of Francisella Tularensis Populations  
$391,459  
DHHS-NIH-NIAID  
Berkowitz, David  
Chemistry  
New Approaches to Catalyst Screening & Development  
$423,000  
NSF  
Development of Cystathionine Beta-Synthase Inhibitors  
$214,500  
American Heart Association  
Beukelman, David  
Special Education and Communication Disorders  
Rehabilitation Engineering Research Center on Communication Enhancement  
$379,992  
Duke University Medical Center  
Bevins, Rick  
Psychology  
Acquired Appetitive Properties of Nicotine  
$902,065  
DHHS-NIH-NIDA  
Billesbach, David  
Biological Systems Engineering  
Development & Field Testing of a Rapidly Deployable Carbon Dioxide Flux Management System  
$443,594  
Dept. of Energy-Berkeley Nat Lab  
$200,000 – $999,999
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<td>* Novel Rare-Earth Semiconductors for Solid-State Neutron Detectors</td>
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<td>Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Programs</td>
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<td>Listeria Monocytogenes Controls in Ready to Eat Meat Products</td>
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<td>* Relocation to the Buffalo Commons: Marketing Approach to Understand Residential Decisions among Migrants</td>
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<td>Psychology</td>
<td>Parenting &amp; Sociocognitive Correlates of Prosocial Behaviors in Mexican American &amp; European American Children</td>
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<td>Carr, Timothy</td>
<td>Nutrition and Health Sciences</td>
<td>* Method for Enhancing the Cholesterol-Lowering Property of Plant Sterol &amp; Stanol Esters</td>
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<td>Transcriptional Gene Silencing in Chlamydomonas &amp; Arabidopsis</td>
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<td>* Histone Modifications &amp; Transcriptional Silencing in Chlamydomonas</td>
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<td>Molecular/Biochemical Investigations of PEPC (and its novel ser/thr-Kinase) and SuSy (Nodulin-100), 2 Phosphorylated Metabolic Enzymes in Plants</td>
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<td>Agrobacterium-Mediated Genetic Transformation of Wheat &amp; Soybeans</td>
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<td>Research in Nebraska on Improved Soybean Oil for Biodiesel Fuel</td>
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<td>* Functional Analysis of Soybean Genes through Transposon Mutagenesis</td>
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<td>United Soybean Board/Smith/Bucklin</td>
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<td>Comfort, Steven</td>
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<td>Field-Scale Demonstrations of Innovative Remediation Techniques for Contaminated Soil and Water</td>
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<td>Environmental Protection Agency</td>
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<td>Daly, Edward</td>
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<td>School Psychology Leadership Specialization in Response-to-Intervention Research &amp; Systems Change</td>
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| DiMagno, Stephen | Chemistry | Hydrogen for Fuel Cells | $966,000 | DOD-Office of Naval Research |
| Takacs, James | Chemistry | | |
| Berkowitz, David | Chemistry | Hydrogenase and Alkane Functionalization Catalysts | $599,748 | DOD-Office of Naval Research |
| Redepenning, Jody | Chemistry | | |

| Dowben, Peter | Center for Materials Research | Surface Chemistry of Adsorbates on Crystalline Polymers | $690,000 | NSF |

| Drummond, Wayne | Architecture | Neighborhoods in Transition: Community Outreach Partnerships | $388,914 | Dept. of Housing & Urban Development |
| Parsons, Gerald | Agricultural Leadership/Education | | |
| Carranza, Miguel | Sociology | | |
| Cantarero, Rodrigo | Community and Regional Planning | | |
| Waite, Michelle | Chancellor’s Office | | |
| Larrick, Steven | Architecture | | |
| Fritz, Susan | Agricultural Leadership/Education | | |

| Du, Liangcheng | Chemistry | * Biosynthesis of Mycotoxin Fumonisins: Characterization of Enzymes for Vicinal Diol & Tricarballylic Ester Formation | $284,667 | NSF |

| Ducharme, Stephen | Nanoscience/Physics and Astronomy | * Nanostructure-Designed Dielectric Material for High-Energy-Density Capacitors | $586,000 | DOD-DEPSCoR |
| | | * Ferroelectric Polymer Langmuir-Blodgett Films for Nonvolatile Random-Access Memory Applications | $240,000 | NSF |

| Dwyer, Matthew | Computer Science and Engineering | Software Model Checking for Embedded Systems | $239,560 | Kansas State University |
| | | Program Analysis Techniques to Support Dependable RTSJ Applications | | NSF |
| Elbaum, Sebastian | Computer Science and Engineering | | |
| Goddard, Stephen | Computer Science and Engineering | | |
| Rothermel, Gregg | Computer Science and Engineering | | |
| | | * Finite-State Verification for High-Performance Computing | $300,000 | NSF |

| Dzenis, Yuri | Engineering Mechanics | Fundamentals of Fabrication of Nanofiber Assemblies by Electrospinning | $372,000 | NSF |
| Farritor, Shane | Mechanical Engineering | Novel Continuous Carbon Nanofibers for the Next Generation Lightweight Structural Nanocomposites | | NSF |
| | | * Next Generation Super Carbon Fiber | | Hexcel Corporation |
| | | * Nanoengineered Interfaces | | NSF |
| | | * Modeling-Based Control of Electrospinning Process | $250,002 | NSF |
| | | | |
| Eccarius, Malinda | Special Education and Communication Disorders | Mountain Prairie Upgrade Partnership - Early Childhood | $781,642 | Dept. of Education |
| Marvin, Chris | Special Education and Communication Disorders | | |

| Eckhardt, Craig | Chemistry | * Experimental Investigation of the Role of Defects in Detonation Sensitivity of Energetic Materials | $600,000 | DOD-Office of Naval Research |
| | | * A Study of the Mechanochemistry of Carbamazepine Polymorphs | $227,200 | Pfizer Inc/PGRD Groton Labs |

| | | ITR: Dependable End-User Software | $211,294 | NSF |

<p>| Engen-Wedin, Nancy | Teaching, Learning and Teacher Education | Indigenous Roots Teacher Education Program | $704,730 | Dept. of Education |
| McGowan, Thomas | Teaching, Learning and Teacher Education | | |</p>
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<td>Randomized Clinical Trial of Wraparound Services for Elementary School Students in School Settings</td>
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<td>Espy, Kimberly</td>
<td>Vice Chancellor for Research and Graduate Studies</td>
<td>*Executive Function Development in Preschool Children</td>
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Chromatographic Automation of Immunoassays
$959,749  DHHS-NIH-NIGMS
* Chromatographic Studies of Functional Proteomics
$779,787  DHHS-NIH-NIDDK

Harbison, Gerard  Chemistry
Structure & Dynamics of DNA Hairpins
$845,363  DHHS-NIH-NIGMS

Harnisch, Delwyn  Teaching, Learning and Teacher Education
Nebraska Assessment Cohorts (NAC05/06) & Nebraska Leadership for Learning Cohorts (NLL05/06)
$200,000  Ne Dept. of Education

Harris, Steven  Plant Science Initiative/Plant Pathology
* Autophagy in Fungal Hyphae: Functional Genomic & Mechanical Strength Studies
$201,907  University of Maryland-Baltimore

Harshman, Lawrence  Biological Sciences
Identification of Genes & Proteins that Regulate Stress Resistance
$505,985  DOD-DEPSCoR
* Comparative Functional Genomics of Drosophila Obesity
$516,548  Cornell University
* Molecular Evolution of Genes Expressed in D. melanogaster Sperm Storage Structures
$283,213  NSF
Moriyama, Etsuko  Plant Science Initiative
* Quantitative Genomics of Sexual Dimorphism
$212,434  University of California-Davis

Hay, DeLynn  IANR-Cooperative Ext
North Central Region Sustainable Agriculture Professional Development Program—FY 2005
$910,283  Dept. of Agriculture-CSREES

Hebets, Eileen  Biological Sciences
Searle Scholar: Exploring Neural Basis of Complex Behavior in Amblypygids
$240,000  Chicago Community Trust/Searle Scholar

Hein, Gary  Panhandle Research and Extension Center
Biologically Intensive Areawide IPM of Russian Wheat Aphid & Greenbug
$516,594  Dept. of Agriculture-RMA-FCIC

Henry, Christopher  Biological Systems Engineering
Livestock Producer Environmental Assistance Project
$600,000  Ne Environmental Trust
* Development of Alternative Technologies for Small Livestock Producers
$221,881  Ne Dept. of Environmental Quality
Gross, Jason  Biological Systems Engineering

Hergert, Gary  Panhandle Research and Extension Center
* Enhancing Irrigation Management Tools & Developing a Decision Support System for Managing Limited Irrigation Supplies for the High Plains
$885,093  Dept. of Agriculture-RMA-FCIC
Burgener, Paul  Panhandle Research and Extension Center
Lyon, Drew  Panhandle Research and Extension Center
Martin, Derrel  Biological Systems Engineering
Pavlista, Alexander  Panhandle Research and Extension Center
Supalla, Raymond  Agricultural Economics
Urrea Florez, Carlos  Panhandle Research and Extension Center
Yonts, C. Dean  Panhandle Research and Extension Center
* Demonstrate & Adapt Remote Sensing Technology to Produce Consumptive Water Use Maps for the Nebraska Panhandle
$239,951  Dept. of Agriculture-NRCS
Baltensperger, David  Panhandle Research and Extension Center
Berger, Aaron  Panhandle Research and Extension Center
DeBoer, Karen  Panhandle Research and Extension Center
Hla, Aung  Panhandle Research and Extension Center
Lyon, Drew  Panhandle Research and Extension Center
Pavlista, Alexander  Panhandle Research and Extension Center
Yonts, C. Dean  Panhandle Research and Extension Center

Heusel, Gary  Student Involvement
Midwest Consortium for Service-Learning in Higher Education
$469,903  Corporation for National Service

Hoagland, Kyle  School of Natural Resources
* Solving Complex Issues in Nebraska: Modeling the Western Platte River Valley-Phase II
$347,200  Environmental Protection Agency
Fritz, Sherilyn  Geosciences

Holmes, Mary Anne  Geosciences
* Building a Community of Women Geoscience Leaders
$228,774  NSF

Holz, John  School of Natural Resources
Classification of Nebraska Streams and Rivers: Phase I Data Assessment, Collection and Analysis
$287,853  Nebraska Dept. of Environmental Quality

Horn, Christy  Educational Psychology
Building Accepting Campus Communities
$945,171  Dept. of Education

Hu, Qi (Steve)  School of Natural Resources
Engaging Agricultural Communities in Great Plains of US with Applications & Development of Climate Prediction & Information
$436,424  Dept. of Commerce-NOAA

Hunt, Robert  University of Nebraska State Museum
* Renovation & Computerization of University of Nebraska Vertebrate Paleontology Collection
$315,839  NSF
Voorhies, Michael  University of Nebraska State Museum
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<td><strong>Liou, Sy-Hwang</strong></td>
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Agronomy and Horticulture  
Pollution & Economic Decision Support Tool for Impaired Watershed Management Plans in Eastern Nebraska  
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Helmers, Glenn  
Agricultural Economics  
Ginting, Daniel  
Agronomy and Horticulture  
Wortman, Charles  
Agronomy and Horticulture

Martin, Alex  
Agronomy and Horticulture  
IWM Implementation: A Regional Approach  
$766,718  
Dept. of Agriculture-CSREES

Martin, Derrel  
Biological Systems Engineering  
Modeling and Field Experimentation to Determine Effects of Land Terracing-Republican River Basin (CESU)  
$359,800  
Dept. of Interior-BR  
Food & Agricultural Sciences National Needs Graduate Fellowship Grants Program

McQuillan, Julia  
Sociology  
* Infertility: Pathways & Psychosocial Outcomes  
$229,420  
Pennsylvania State University

Meagher, Michael  
Chemical and Biomolecular Engineering  
Recombinant Type E Botulinum Neurotoxin Vaccine  
$345,756  
DynPort Vaccine Company  
Swanson, Todd  
Chemical and Biomolecular Engineering  
* Optimization of Phytase Production in Pichia Pastoris  
$372,874  
Syngenta  
Inan, Mehmet  
Chemical and Biomolecular Engineering  
* Protean Fermentation Protocol Selection  
$351,091  
Proteon Therapeutics

Miller, Nancy  
Textiles, Clothing and Design  
Collaborative Research on Small Business Network Creation and Outcomes for Change and Innovation  
$230,011  
NSF

Mitra, Amit  
Plant Pathology  
Efficient Gene Silencing by Intrinsic Direct Repeats: Mechanism & Utilization  
$390,000  
NSF

Morris, T. Jack  
Biological Sciences  
The Role of a Host Protein (TIP) in the Resistance Response of Arabidopsis to Turnip Crinkle Virus Infection  
$360,000  
Dept. of Energy  
Qu, Feng  
Biological Sciences

Nickerson, H. Doak  
NE State Forest Service  
* Restoring the Pine Ridge Forest Ecosystem  
$300,000  
Ne Environmental Trust

Noureddini, Hossein  
Chemical and Biomolecular Engineering  
* Reduction of Phosphorus from Ethanol By-Product used as Livestock Feed  
$210,781  
Nebraska Corn Board

Oglesby, Robert  
Geosciences  
* Evaluating the Role of Global Snow Cover on Seasonal to Interannual Predictability of Temperature & Precipitation  
$598,216  
NASA

Orr, John  
Mathematics  
Evolution of Advanced Electronic Educational Support Material  
$408,752  
Brownstone Research Group

Orti, Guillermo  
Biological Sciences  
RCN: DeepFin Will Advance the Phylogeny of “Fishes”  
$500,000  
NSF

Pattnaik, Asit  
Veterinary and Biomedical Sciences  
Analyses of Virulence & Attenuation Determinants of PRRSV using Reverse Genetics  
$320,000  
Dept. of Agriculture-NRICGP  
Osorio, Fernando  
Veterinary and Biomedical Sciences  
VSV RNA Transcription and Replication  
$996,128  
DHHS-NIH-NIAID

Perez, Lance  
Electrical Engineering  
* Self-Configuration & Localization in Ad Hoc Wireless Sensor Networks  
$548,807  
DOD-DEPSCoR  
Goddard, Stephen  
Computer Science and Engineering

Peters, Ed  
School of Natural Resources  
Nebraska Statewide Stream Inventory  
$329,967  
Ne Game & Parks Commission

Pilson, Diana  
Biological Sciences  
Transgenic Virus Resistant Squash: Ecological Effect  
$314,877  
Dept. of Agriculture-CSREES  
Morris, T. Jack  
Biological Sciences

Platt, Stephen  
Mechanical Engineering  
* In Vivo Robotic Camera System for Laparoscopic Surgery  
$394,550  
DHHS-NIH-NIBIB  
Farritor, Shane  
Mechanical Engineering

Powell, Larkin  
School of Natural Resources  
* Productivity and Biology of Ducks Nesting in the Sandhills of Nebraska  
$824,969  
Ne Game & Parks Commission
Ragsdale, Stephen  
**Biochemistry**  
Enzymology of Methanogenesis: Mechanism of Methyl-Coenzyme M Reductase  
$420,000  
Dept. of Energy  
Biochemistry of the Anaerobic Dehalogenation of Chlorinated Aromatics  
$435,000  
NSF

Rajca, Andrzej  
**Chemistry**  
Organic Polymers with Magneto-Dielectric Properties  
$308,608  
DOD-Air Force Off of Sci Rsch  
Very High-Spin Polyradicals & Chiral Pi-Conjugated Systems  
$555,000  
NSF

Rajurkar, Kamlakar  
**Industrial and Management Systems Engineering**  
Analysis & Gap Monitoring for Improving Micro EDM Performance-Supplement  
$202,500  
NSF  
Yu, Zuyuan  
Industrial and Management Systems Engineering

Ramamurthy, Byrav  
**Computer Science and Engineering**  
Secure Group Communication over Wired & Wireless Networks  
$349,990  
NSF  
Varilyam, Vinod  
Computer Science and Engineering

Ratliffe, Brett  
**Entomology**  
A Faunistic Survey of the Dynastinae of Honduras, Nicaragua & El Salvador  
$342,842  
NSF

Redepenning, Jody  
**Center for Materials Research**  
Chemically Modified Nano-Electrodes for Magnetoelectronics Applications  
$390,000  
NSF  
Binek, Christian  
Physics and Astronomy  
Sokolov, Andrei  
Physics and Astronomy

Reichenbach, Stephen  
**Computer Science and Engineering**  
SEI: Information Modeling for Comparative Visualizations & Analyses  
$351,428  
NSF

Reid, John  
**Mechanical Engineering**  
Investigating the Use of Small Diameter Softwood as Guardrail Posts  
$280,000  
Dept. of Agriculture-FS  
Faller, Ronald  
Civil Engineering

Reid, Robert  
**Special Education and Communication Disorders**  
* Leadership Training in Attention Deficit Hyperactivity Disorder  
$620,006  
Dept. of Education

Rilett, Laurence  
**Civil Engineering**  
Development of State of the Art Traffic Micro-Simulation Model for Nebraska  
$222,896  
Ne Dept. of Roads  
Jones, Elizabeth  
Civil Engineering  
* Intelligent Transportation System Deployment Project  
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Ne Dept. of Roads  
Jones, Elizabeth  
Civil Engineering  
Khattak, Aemal  
Civil Engineering

Robertson, Brian  
**Mechanical Engineering**  
Development of a Novel Inorganic Dielectric Barrier Layer for Magneto-Resistive Junctions  
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Doudin, Bernard  
Physics and Astronomy  
Dowben, Peter  
Physics and Astronomy

Rohde, John  
**Civil Engineering**  
Midwest States Regional Pooled Fund Program-Yr 16  
$535,000  
Ne Dept. of Roads  
Sicking, Dean  
Civil Engineering  
Reid, John  
Mechanical Engineering  
Faller, Ron  
Civil Engineering

Rothermel, Gregg  
**Computer Science and Engineering**  
CRI: Community Resource to Support Controlled Experimentation with Program Analysis and Testing Techniques  
$874,636  
NSF  
Elbaum, Sebastian  
Computer Science and Engineering  
Dwyer, Matthew  
Computer Science and Engineering  
* ITR: Dependable End-User Software  
$345,933  
Oregon State University

Rupp, Gary  
**Veterinary and Biomedical Sciences**  
* Biosecurity Practices/Wholesome Food  
$249,792  
Dept. of Agriculture-CSREES  
Griffin, Dee  
Veterinary and Biomedical Sciences  
Smith, David R  
Veterinary and Biomedical Sciences

Samal, Ashok  
**Computer Science and Engineering**  
* Building Knowledge Discovery & Information Fusion Tools for Collaborative Systems to Adaptively Manage Uncertain Hydrological Resources  
$552,100  
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Chen, Xun-Hong  
School of Natural Resources  
Soh, Leen-Kiat  
Computer Science and Engineering  
Tommkins, Alan  
Public Policy Center  
Zellmer, Sandra  
College of Law

Saraf, Ravi  
**Chemical and Biomolecular Engineering**  
Nanodevice for Imaging Normal Stress Distribution with Application in Sensing Texture and Feel by Touching  
$272,156  
NSF

Schacht, Walter  
**Agronomy and Horticulture**  
Grasslands Ecological Monitoring System  
$608,880  
Dept. of Agriculture-RMA-FCIC
Scheffler, Marilyn  
Special Education and Communication Disorders  
Project PROMOTE  
$797,184  
Dept. of Education

Sanger, Dixie  
Special Education and Communication Disorders  
Project Support: Speech-Language Pathologists Supporting Literacy Instruction  
$800,000  
Dept. of Education

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Special Education and Communication Disorders  
Project Re-entry: Preparing Speech-Language Pathologists to Serve Students with Traumatic Brain Injury  
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Dept. of Education

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Special Education and Communication Disorders  
Project Re-entry: Preparing Speech-Language Pathologists to Serve Students with Traumatic Brain Injury  
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Mechanical Engineering

Siegfried, Blair  
Mechanical Engineering  
A Site Specific Field Corn IPM Program that Incorporates Transgenic Technology  
$283,913  
Pennsylvania State University

Shapiro, Charles  
Northeast Research and Extension Center  
Improving Organic Farming Systems across Nebraska Agroecosystems  
$762,949  
Dept. of Commerce-NTIA

Shank, Nancy  
Public Policy Center  
Bridging the Gap: Information & Referral Database Interoperability  
$600,000  
Dept. of Education

Shea, Patrick  
School of Natural Resources  
Targeting Watershed Vulnerability & Behaviors Leading to Adoption of Conservation Management Practices  
$570,000  
Dept. of Agriculture-CSREES

Sheridan, Susan  
Educational Psychology  
Leadership Training in Interdisciplinary Collaboration  
$800,000  
Dept. of Education

Shield, Jeffrey  
Mechanical Engineering  
The Effect of Long-Range Dumbbell Ordering on the Properties & Microstructures of Rare Earth Permanent Magnets  
$340,000  
NSF

Sickling, Dean  
Civil Engineering  
Identification of Vehicular Impact Conditions Associated with Serious Run-Off-Road Crashes  
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Civil Engineering

Khattak, Aemal  
Civil Engineering  
Improved Procedures for Safety Performance Evaluation of Roadside Features  
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Civil Engineering

Jones, Elizabeth  
Civil Engineering  
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$833,940  
Civil Engineering

Faller, Ronald  
Entomology  
A Site Specific Field Corn IPM Program that Incorporates Transgenic Technology  
$283,913  
Pennsylvania State University

Sellmyer, David  
Physics and Astronomy  
Fundamental & Magnetic-Hardening Studies of Advanced Nanocomposite Magnets  
$270,000  
Dept. of Energy

Shapiro, Charles  
Northeast Research and Extension Center  
Improving Organic Farming Systems across Nebraska Agroecosystems  
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Dept. of Agriculture-CSREES

Baltensperger, David  
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Dept. of Agriculture-CSREES

Brandle, James  
School of Natural Resources  
Agronomy/Horticulture  
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Dept. of Agriculture-CSREES

Francis, Charles  
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Agronomy/Horticulture  
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Dept. of Agriculture-CSREES

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Entomology  
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Dept. of Agriculture-CSREES

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Dept. of Agriculture-CSREES

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Dept. of Agriculture-CSREES

Milner, Maribeth  
School of Natural Resources  
Agronomy and Horticulture  
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Dept. of Agriculture-CSREES

Smith, Andrew  
University of Nebraska State Museum  
Scarab Biodiversity of Southern South America  
$300,000  
NSF

Ocampo, Federico  
University of Nebraska State Museum  
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NSF

Smith, David R.  
Veterinary and Biomedical Sciences  
Intervention Strategies to Reduce Escherichia Coli 0157:H7 in Beef Feedyards  
$500,000  
Dept. of Agriculture-NRICGP

Erickson, Galen  
Animal Science  
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Dept. of Agriculture-NRICGP

Hinkley, Susanne  
Veterinary and Biomedical Sciences  
Animal Science  
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Dept. of Agriculture-NRICGP

Klopfenstein, Terry  
Veterinary and Biomedical Sciences  
$500,000  
Dept. of Agriculture-NRICGP

Moxley, Rodney  
Veterinary and Biomedical Sciences  
$500,000  
Dept. of Agriculture-NRICGP

Sheridan, Susan  
Educational Psychology  
Leadership Training in Interdisciplinary Collaboration  
$800,000  
Dept. of Education

Snow, Gregory  
Physics and Astronomy  
* GAANN Fellowships for Physics at UNL  
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Dept. of Education

Somerville, Greg  
Vascular and Biomedical Sciences  
* Environmental Regulation of Staphylococcus epidermidis PIA Synthesis  
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<td>Colorado State University</td>
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<td>Stone, Julie</td>
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<td>* Role of Transcriptional Regulator in Programmed Cell Death &amp; Plant Development</td>
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Thomas, Steven  
School of Natural Resources  
$307,189  
University of California-Riverside  
* FIBR: Linking Genes to Ecosystems

Tiller, Dale  
School of Engineering Technology  
Converging Redundant Sensor Network  
Information for Improved Building Control  
$327,000  
Dept. of Energy-Natl Energy Tech  
Henze, Gregor  
School of Engineering Technology

Torquati, Julia  
Family and Consumer Sciences  
Evaluation of Promising Models and Delivery Approaches to Child Care Provider Training  
$305,393  
Iowa State University  
Wilcox, Brian  
Center on Children, Families and the Law  
Raikes, Helen  
Center on Children, Families and the Law

Trainin, Guy  
Teaching, Learning and Teacher Education  
* Arts Linc  
$261,674  
Lake Elsinore USD

Tsymbal, Evgeny  
Physics and Astronomy  
Theory of Electronic Magnetic & Transport Properties of Nanoscale Magnetic Junctions  
$300,000  
NSF  
Jaswal, Sitaram  
Physics and Astronomy  
* Multiscale Modeling of Magnetic Nanocontacts  
$200,751  
Seagate Technology

Uiterwaal, Kees  
Physics and Astronomy  
Inside a Focused Laser Beam: Molecular Dynamics  
$442,001  
NSF

Umstadter, Donald  
Physics and Astronomy  
Ion Acceleration with High Intensity Lasers  
$401,277  
NSF  
* Laser Produced Coherent X-Ray Sources  
$270,000  
Dept. of Energy

Van Etten, James  
Plant Pathology  
Center for Innovation in Membrane Protein Production  
$428,684  
Univ of California-San Francisco  
Dunigan, David  
Plant Pathology

Variyam, Vinod  
Computer Science and Engineering  
Studies in Computational Complexity Theory  
$200,000  
NSF

Vasa, Stanley  
Special Education and Communication Disorders  
Project NETS: Nebraska Educational Transition Specialists  
$798,624  
Scheffler, Marilyn  
Dept. of Education  
Special Education and Communication Disorders

Verma, Shashi  
School of Natural Resources  
$941,161  
Knops, Johannes  
Cassman, Kenneth  
* Carbon Sequestration and Global Climate Change  
Dept. of Energy-EPSCoR  
Biological Sciences  
Agronomy and Horticulture

Vidaver, Anne  
Plant Pathology  
Molecular Characterization of Clavibacter iranicus & Related Species  
$318,742  
Dept. of Agriculture-ARS

Viljoen, Hendrik  
Chemical and Biomolecular Engineering  
Vortex-Tube Based Thermocycler w/Intelligent Software  
$350,636  
DHHS-NIH-Nat Ctr Rsch Resources  
Gogos, George  
Mechanical Engineering

Wagner, William  
Biological Sciences  
Communication of Direct Mating Benefits to Females  
$301,283  
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Waldren, Vernon  
Southeast Research and Extension Center  
* HUD Omaha Lead Site  
$300,000  
Dept. of Housing and Urban Development

Walstad, William  
Economics  
Interactive Teaching in Undergraduate Economic Courses  
$674,928  
NSF

Wang, Jun  
Computer Science and Engineering  
CSR-PDOS: Energy-Efficient, High-Performance Storage Array Systems  
$260,000  
NSF

Wang, Xinwei  
Mechanical Engineering  
Sub-Surface Structural Damages in Laser-Assisted Surface Nanostructuring  
$249,999  
NSF  
Lu, Yongfeng  
Electrical Engineering

Weeks, Donald  
Biochemistry  
Development of Herbicide-Resistant Plants for Environmentally-Safe Production Energy & Biomass Crops  
$232,000  
Consortium for Plant Biotechnology Research

Weisz, Victoria  
Center on Children, Families and the Law  
Nebraska State Court Improvement  
$861,502  
Supreme Court of Nebraska

Weldon, Robert  
Biological Sciences  
Intracellular Targeting of HIV Gag Proteins  
$393,825  
DHHS-NIH-NIAID
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<td>* Estimating the Impacts of Complex Climatic Events: Drought in Colorado, Nebraska &amp; New Mexico</td>
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<th>Wilson, Brent</th>
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<th>Woldt, Wayne</th>
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<td>$259,742</td>
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<th>Wood, Charles</th>
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<td>Jose, H. Douglas</td>
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<th>Resistance of Sulfur Dyed Fabrics to Oxidative Bleaching &amp; Acidic Tendering: Improvement &amp; Application</th>
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<td>Procter &amp; Gamble</td>
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Career and K Awards
Active awards in 2006
* Indicates new in 2006

NSF CAREER Grants
National Science Foundation CAREER grants are awarded only to untenured junior faculty. NSF emphasizes that the grants recognize research and education "of the highest quality and in the broadest sense." CAREER grants are unique in requiring a four- to five-year plan for the scientist’s development as both a researcher and an educator.

Adams, Stephanie
Industrial and Management Systems Engineering
Designing Effective Teams in the Engineering Classroom for the Enhancement of Learning
$623,918 NSF

Becker, Donald
Biochemistry
Spectrochemical Studies of Novel PutA Flavoprotein
$314,250 NSF

Binek, Christian
* Education & Research on Nanoscale Spintronic Systems & Heterostructures
$500,000 NSF

Bloom, Kenneth
Physics and Astronomy
Top-Quark Physics, Computing & Software at Large Hadron Collider
$550,000 NSF

Choueiry, Berthe
Computer Science and Engineering
Detecting Interchangeability Relations in Constraint Satisfaction Problems and Exploiting them in Problem Solving and Interactions with Users
$600,000 NSF

Dominguez, Aaron
Physics and Astronomy
* Superior Silicon Tracking & Discovery as CMS & D0
$550,000 NSF

Elbaum, Sebastian
Computer Science and Engineering
Leveraging Field Data to Test Pervasive Systems
$412,594 NSF
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<th>Name</th>
<th>Department</th>
<th>Project Title</th>
<th>Funding</th>
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<td>Gursoy, Mustafa</td>
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<td>CAREER: Energy-Efficient Wireless Communications under Channel Uncertainty</td>
<td>$400,000</td>
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<td>Orti, Guillermo</td>
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<td>Molecular Systematics of Ray-Finned Fishes</td>
<td>$533,295</td>
<td>NSF</td>
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<td>Perez, Lance</td>
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<td>NSF</td>
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<td>Making Exponential-Time Learning Algorithms Efficient</td>
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<td>Wang, Lily</td>
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<td>Integrating Time-Variant Source Directivity into Architectural Acoustic Auralizations</td>
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**K Awards**

National Institutes of Health K Awards provide support for intensive development experiences in one of the biomedical, behavioral or clinical sciences leading to research independence. Candidates for these awards normally must have a research or health-professional doctorate and postdoctoral research experience at the time of application. The proposed career-development experience must be in a research area new to the applicant and/or one in which an additional supervised research experience will substantially add to the applicant’s research capabilities. Candidates must provide a plan for achieving independent research support by the end of the award, and must be willing to spend a minimum of .75 FTE conducting research and career development during the award three-, four-, or five-year project period.
Cahan, David  
**History**  
A Biography of Hermann von Helmholtz  
$102,868  
1/1/05 – 12/31/07  
David Cahan, Charles Bessey Professor and professor of history, is writing a full-scale, definitive biography of Hermann von Helmholtz (1821-1894), one of the major figures of modern science. The biography will provide a fresh account of Helmholtz’s personal life within the context of his family, schooling and friends, and portray and analyze his working life as a scientist—principally as a physiologist and physicist, but also as a leader in other fields (chemistry, mathematics, psychology and meteorology), all within the context of German science. It will show how he represented the aims, results and image of science to the educated but otherwise non-scientific classes of Europe and America. It also will show the implications of contemporary science that he drew for the fine arts, medicine, industry and society at large. The extensive use of correspondence means the work will be the first new modern biography of Helmholtz as well as one of the most detailed biographies of a scientist ever published.

Kooser, Ted  
**English**  
American Life in Poetry Project  
$125,000  
1/1/05 – 12/31/07  
The Poetry Foundation, in partnership with the Library of Congress, supports the American Life in Poetry project, an initiative of Ted Kooser, the Poet Laureate Consultant in Poetry to the Library of Congress. American Life in Poetry is a free weekly column for newspapers and online publications featuring a poem written by a contemporary American poet, chosen by Kooser, with a brief introduction written by Kooser. The sole mission of this project is to promote poetry. The Poetry Foundation funds the project, with administrative support provided by the UNL English Department, where the project office is located.

Price, Kenneth  
**English**  
Walt Whitman Archive  
$500,000  
8/1/05 – 3/31/09  
Ken Price, professor of English and Hillegass Chair of 19th Century American Literature, is principal investigator for a $500,000 We the People Challenge Grant from the National Endowment for the Humanities. The award is contingent on UNL acquiring a 3-1 match of $1.5 million in the next four years. When fundraising is completed, the $2 million establishes an endowment at the University of Nebraska Foundation, the proceeds of which provide permanent annual operating funding for the Walt Whitman Archive. The Whitman Archive is an electronic research and teaching tool that makes Whitman’s huge body of work easily and conveniently accessible. Whitman amassed a huge volume of work during his life. Some 70,000 manuscripts are housed in about 80 locations, although the bulk is known to be in just five libraries. But the logistics of finding these various documents, let alone assessing and comparing their relevance and content, are daunting. The Archive allows scholars to search the entire body of Whitman’s writings and scholarship on those works and offers scholarly analysis.

The Walt Whitman Hypertext Archive  
$200,000  
National Endowment for the Humanities  
5/1/03 – 4/30/06  
Price is also part of a project to produce The Walt Whitman Hypertext Archive, which will build on, enhance and contextualize the 22-volume Collected Writings of Walt Whitman by publishing a comprehensive on-line Walt Whitman archive website. The project involves encoding all materials in the Collected Writings and editing, encoding, linking and annotating all remaining materials, including the vast archive of Whitman’s poetry manuscripts.

Walter, Katherine  
**Libraries**  
Interoperability of Metadata Standards for Digital Thematic Research Collections  
$169,651  
11/1/05 – 10/31/07  
Price, Kenneth  
Bolin, Mary  
Barney, Brett  
Katherine Walter, chair of special collections and preservation and professor of libraries, is principal investigator on a team hoping to develop guidelines that will serve as a model for the integration of standards used by scholarly digital projects and could influence future development. Metadata integration is an important but yet unattained goal for digital thematic research collections, which employ standards for transcriptions, digital images, finding aids and administrative records. These standards have been developed by different communities. The Metadata Encoding and Transmission Standard (METS) shows promise as a means of integrating various standards, but no testing of METS has been done using digital thematic research as a model; thus ad hoc and idiosyncratic solutions have sprung up, with various unreliable results. UNL will create a METS profile to test its reliability and also submit the package to two digital library systems at Brown University and the University of Virginia.

Benjamin A. Botkin Collection-Preservation/Access  
$97,435  
National Endowment for the Humanities  
7/1/01 – 6/30/06  
Walter is also using a National Endowment for the Humanities grant to preserve a vast collection of materials from the Benjamin A. Botkin Collection of Applied American Folklore and microfilming it to improve its accessibility to scholars and the public. Botkin was national folklore editor of the Federal Writers Project and...
chief of the Library of Congress Archive of American Folk Song. The collection adds to the understanding of this discipline in development and it consists of 8,000 books, 447 linear feet of archival materials and 700 recordings. The project preserves 291 linear feet on microfilm and also preserves 200 sound recordings made by Botkin himself.

Implementation Grants for Special Projects—
Journals of Lewis and Clark Online Edition
$222,177 National Endowment for the Humanities
Dunham, Gary University Press
9/1/03–8/31/05
Walter and Gary Dunham, University of Nebraska Press director, are using a National Endowment for the Humanities grant to create an on-line edition of the Journals of the Lewis and Clark Expedition, edited by Gary E. Moulton, UNL professor emeritus of history. The interdisciplinary team is drawn from the UNL Libraries, the University of Nebraska Press, and the Center for Great Plains Studies. The site will also feature supplementary texts relating to Euro-American and Native perspectives on the Lewis and Clark expedition, images, and audio files of poet William Kloefkorn reading selected passages. Online searchability will make the website a useful resource for scholars and the general public. The project is timed to coincide with the bicentennial commemoration of Lewis and Clark’s expedition.

Arts and Humanities Awards
$5,000–$49,999
Active awards in 2006
* Indicates new in 2006

Brooke, Robert English
Voices from Young Citizens: Writing from Rural Nebraska Youth Involved in Place Conscious Education
$8,100 Nebraska Humanities Council

Dunham, Gary University Press
Moravian Springplace Mission among the Cherokees
$20,000 National Historic Publications and Records Publication of “Beaver Steals Fire”
$6,000 Montana Committee for Humanities

Engen-Wedin, Nancy Lied Center for Performing Arts
* ArtsReach
$41,500 Nebraskans for the Arts
* Umo"ho" Cultural Arts Program
$11,250 Kennedy Center for Performing Arts

Handa, Rumiko Architecture
Spirit of Design: Multidisciplinary, Multimedia Database and Website
$12,000 Graham Foundation
Potter, James Architecture

Randolph, Ladette University Press
* Access to Artistic Excellence: International Translations
$25,000 National Endowment for the Arts

Steger, Paul Johnny Carson School of Theatre and Film
* Nebraska Repertory Theatre Statewide
$7,210 Nebraska Arts Council

Walter, Katherine University Libraries
Quilt Index National Leadership Project
$20,000 Michigan State University
Crews, Patricia Textiles, Clothing and Design
Homestead — Broken Bow Microfilming Project (CESU)
$20,000 Dept. of Interior-NPS
Edwards, Rick Economics

Weiss, Wendy Textiles, Clothing and Design
* Hillestad Textiles Gallery
$5,285 Friends of the Hillestad Textiles Gallery
Alfano, James
Biological Sciences
Title: DNA Molecules and Polypeptides of Pseudomonas Syringae HRP Pathogenicity Island and Their Uses
Description: Novel pharmaceutical targets
Date: September 5, 2006
No. 7,102,059
Country: United States

Jorgensen, James
Electrical Engineering
Title: Sound Generating Apparatus for Use with Gloves and Similar Articles
Description: Cheer gloves
Date: May 2, 2006
No. 7,038,575
Country: United States

Klopfenstein, Terry J.
Animal Science
Title: Rumen Inert Oil
Description: Ruminant feed
Date: 1/3/2006
No. PI9609476-1
Country: Brazil

Oleynikov, Dmitry; Farritor, Shane Michael; Hadzialic, Adnan; Platt, Stephen
Mechanical Engineering
Title: Microrobot for Surgical Applications
Description: Miniature surgical robot
Date: May 9, 2006
No. 7,042,184
Country: United States

Redepenning, Jody
Chemistry
Title: Electrolytic Deposition of Coatings for Prosthetic Metals and Alloys
Description: Bone-like coating for prosthetics
Date: 3/21/2006
No. 7,014,749
Country: United States

Weeks, Donald
Biochemistry
Title: Methods and Materials for Making and Using Transgenic Dicamba-Degrading Organisms
Description: Dicamba resistant crops
Date: March 2, 2006
No. 558,838
Country: Republic of Korea

Date: March 9, 2006
No. 528,010
Country: New Zealand

Date: April 4, 2006
No. 7,022,896
Country: United States

Date: September 12, 2006
No. 7,105,724
Country: United States
Licensee: Apath
Description: Influenza plasmids
Inventor: Donis, Rueben
Department: Veterinary and Biomedical Sciences

Licensee: Arrow Seed Co. Inc.
Description: Beefmaker variety of intermediate wheatgrass
Inventors: Baltensperger, David D.; Nicholson, R.A.; Reece, Patrick; Schuman, G.; Vogel, Kenneth
Department: Agronomy and Horticulture

Licensee: Arrow Seed Co. Inc.
Description: Bonanza variety of big bluestem grass
Inventors: Anderson, Bruce; Klopfenstein, Terry; Mitchell, Robert; Vogel, Kenneth
Department: Agronomy and Horticulture, Animal Science

Licensee: Bauer, Dennis
Description: Beefmaker variety of intermediate wheatgrass
Inventors: Baltensperger, David D.; Reece, Patrick; Vogel, Kenneth; Schuman, G.; Nicholson, R.A.
Department: Agronomy and Horticulture

Licensee: Biotechnology Research and Development Corporation
Description: Technology related to male sterility in plants
Inventors: Abdelnoor, Ricardo Vilela; Mackenzie, Sally
Department: NRI Center for Biotechnology

Licensee: Blooms of Bressingham
Description: Sweet Joanne penstemon hybrid
Inventors: Lindgren, Dale Tennis; Todd, Kim
Department: Agronomy and Horticulture

Licensee: Cereplast Inc.
Description: Water resistant degradable foam, biodegradable polymers
Inventors: Biby, Gerald D.; Chinnaswamy, Rangaswamy; Fang, Qi; Hanna, Milford A.
Department: Biological Systems Engineering, Industrial Ag Products Center

Licensee: DTL Controls, LLC
Description: Air flow conductors
Inventor: Liu, Mingsheng
Department: Architecture

Licensee: E-Tech
Description: Conductive concrete overlay for bridge deck de-icing
Inventors: Chen, Bing; Nguyen, Lim; Tuan, Christopher
Department: Civil Engineering, Computer and Electronics Engineering

Licensee: Gayland Ward Seed Co. Inc.
Description: Atlas brm-12 variety of forage sorghum
Inventors: Funnell, Deanna; Grant, Richard; Oliver, Amanda; Pedersen, Jeffrey; Toy, John
Department: Agronomy and Horticulture, Plant Pathology

Licensee: GC Image
Description: Software for processing data from comprehensive two-dimensional gas chromatography
Inventor: Reichenbach, Stephen
Department: Computer Science

Licensee: Intellectual Ventures
Description: Communications, memory and circuitry technologies
Inventors: Algrain, Marcello C.; Bandyopadhyay, Supriyo; Ehlers, Doug; Hardt, Stephen L.; Hoffman, Michael; Nguyen, Lim; Sayood, Khalid; Zhu, Quiming
Department: Computer and Electronics Engineering, Computer Science, Electrical Engineering

Licensee: Laursen, Daniel
Description: Beefmaker variety of intermediate wheatgrass
Inventors: Baltensperger, David D.; Nicholson, R.A.; Reece, Patrick; Schuman, G.; Vogel, Kenneth
Department: Agronomy and Horticulture

Licensee: Nebraska Surgical Solutions, Inc.
Description: Surgical miniature robotic device
Inventors: Oleynikov, Dmitry; Farritor, Shane Michael; Hadzialic, Adnan; Platt, Stephen
Department: Mechanical Engineering

Licensee: The Seed Company
Description: Varieties of high protein soybeans, high sucrose soybeans, and high yield soybeans
Inventor: Graef, George
Department: Agronomy and Horticulture

Licensee: Star Seed Inc.
Description: Bonanza variety of big bluestem grass
Inventors: Anderson, Bruce; Klopfenstein, Terry; Mitchell, Robert; Vogel, Kenneth
Department: Agronomy and Horticulture, Animal Science

Licensee: Star Seed Inc.
Description: Goldmine variety of big bluestem
Inventors: Anderson, Bruce; Klopfenstein, Terry; Mitchell, Robert; Vogel, Kenneth
Department: Agronomy and Horticulture, Animal Science

Licensee: Stock Seed Farm
Description: Bonanza variety of big bluestem grass
Inventors: Anderson, Bruce; Klopfenstein, Terry; Mitchell, Robert; Vogel, Kenneth
Department: Agronomy and Horticulture, Animal Science
Licensee: Todd Valley Farms
Description: NE-KYB-05-001 variety of Kentucky bluegrass
Inventors: Riordan, Terrance P.; Shearman, Robert C.; Wit Jr., Leonard A.
Department: Agronomy and Horticulture

BAILEY, JOHN R.  School of Music
Performer, invited recital for the National Flute Association national convention, Flute and Piano Works of Theodor Blumer, Pittsburgh, Pa., with Laura Silverman, pianist, University of Akron.
Conductor, The American Flute Orchestra tour in Russia, Latvia, and Estonia.

BARNES, PAUL E.  School of Music
Performer, recording of American Piano Concertos, Albany, N.Y.
Performer, recording of Philip Glass Piano Concerto No. 2 (After Lewis and Clark), New York, N.Y.
Author, sheet music, Orphee Suite for Piano, London, U.K.

BROWN, JOANN  Teaching, Learning & Teacher Education
Artist, mixed media image, The Interconnectness Of All, Ink People Gallery, Eureka, Calif.

BYBEE, ARIEL  School of Music
Soloist, Thirteenth American Music Festival, Chinese government.

CHANG-BARNES, ANN  School of Music
Performer, piano, world premiere concert, St. Petersburg, Russia, of newly arranged works of Astor Piazzolla for piano and cello quartet, with the Rastrelli Cello Quartet.
Performer, piano, International Fortepiano Forum, Poeke, Belgium.

CLINTON, MARK K.  School of Music
Performer, piano, guest soloist with the Prince George’s Philharmonic, College Park, Md.
Performer, piano, 2006 Ameropa International Chamber Music Festival, Prague, Czech Republic, with Min Kwon, piano; John Lindsey, violin; Karen Becker, cello; and French mezzo-soprano Anne Donnadieu.
Performer, piano, guest artist at the 2006 Illinois Chamber Music Festival, with Julieta Mihai, violin; John Lindsey, violin; Lisa Nelson, viola; Nina Gordon, cello; Amy Flores, cello.

EKLUND, PETER A.  School of Music
Conductor, 200-voice honor choir with performances in Italy, France, Germany, Austria
Conductor, international convention in Kuala Lampur, Malaysia.

FRITZ, DANA  Art & Art History

FUELBERTH, RHONDA J.  School of Music
Performer, peer-reviewed performance, University Women’s Chorale appearance, MENC National Convention, Salt Lake City, Utah.
Hanrahan, Kevin  School of Music
Performer, guest artist voice recital, Pune, India, with Priya Palekar, soprano; Roberta Swedien, piano.
Performer, voice recital, Die Schöne Müllerin, Mumbai, India, with Robert Swedien, piano.

Horvay, Martha  Textiles, Clothing & Design
Artist, collage, Washing Dishes and Gazing West, A.I.R. Gallery, New York, N.Y.

James, Michael F.  Textiles, Clothing & Design
Artist, quilts, Night Sky 1, Fuller Craft Museum, Brockton, Mass.; Material Things, The Sawmill Gallery, James Madison University, Harrisonburg, Va., with Frankie Flood, Denise Pelletier, Laura Strand; Smoke Signals, Indianapolis Museum of Art; Material Difference: Soft Sculpture and Wall Works from Midwest Collections, Chicago Cultural Center, Hanging in the Balance and At or Near the Surface, Fifth International Fiber Biennial, Snyderman-Works Galleries, Philadelphia, Pa.; At or Near the Surface, Explorations II: Quilts by the Faculty of the Quilt Surface Design Symposium, Ohio Craft Museum, Columbus, Ohio; Sky/Wind Variations 2, Studio Art Quilt Associates: The Creative Force, Fall International Quilt Market and International Quilt Festival, Houston, Texas; The Nature of Truth (The Truth of Nature), Tied Together: Textile Art in the 21st Century, Chandler Center for the Arts, Chandler, Ariz.; exhibited quilts using various techniques, Michael James Studio Quilts, La Liguerrula Cultural Arts Center, Portoferrario, Italy; Quilts from the Collection of Penny Nii, Gualala Arts, Gualala, Calif.; Abstraction No. 6: Afterimage, Embassy of the United States of America, Seoul, South Korea; Recent Work in Digital Textiles, Festival of Quilts, National Exposition Center, Birmingham, U.K.
Solo exhibit, Racine Art Museum, Racine, Wis., included five new works and loaned works from the International Quilt Study Center collection. The exhibition was featured in the June/July 2006 issue of American Craft Magazine. Home Economics, entered into the permanent collection of the Racine Art Museum.

Kendall, Gail M.  Art & Art History
Artist, ceramics, Woodfire Conference Invitational Exhibition, University of Northern Arizona, Flagstaff, Ariz.
Artist, ceramics, Art School At Old Church, pottery exhibition, Demarest, N.J.

Shomos, William H.  School of Music
Artist, stage director for Nevada Opera’s Die Zauberflaute by Wolfgang Amadeus Mozart.
Stage director for Nevada Opera’s Summer Festival production of Così fan tutte by Wolfgang Amadeus Mozart.
Artist, stage director for La Musica Lirica’s production of Il Campanello by Gaetano Donizetti, Novafeltria, Italy.

Trout, Barbara L.  Textiles, Clothing & Design
Artist, silk dress, In the Spirit of the Deertailed Dress, Russell Hill Rogers Galley, Southwest School of Art, San Antonio, Texas.
Artist, exhibited headpiece in multimedia, Empress Bonnet, Creative Grand Crossings, Grand Rapids, Mich.
Artist, multi-component necklace, Priestess Collar, Celebration: Spiritual Exhibit, Grand Rapids, Mich.

Weiss, Wendy R.  Textiles, Clothing & Design
Artist, set for an outdoor performance, Curlers, Smoky Hill River Festival, Salina, Kan.
Artist, textile, sound and movement installation, Ground Shift, Washington D.C., with Jay Kreimer.

White, Darryl A.  School of Music
Artist, panelist adjudicator, National Foundation for Advancement in the Arts, Miami, Fla.
Performer and lecturer, director of the Clifford Brown/Stan Getz All-Stars, Annual Monterey Jazz Festival, Monterey, Calif.
Featured artist in a jazz performance, American Jazz Museum, Blue Room, Kansas City, Missouri.
Performer and lecturer, performances at Lincoln Center and the Conference Main Stage, International Association for Jazz Educators Conference, New York, N.Y.

Williams, Sandra M.  Art & Art History
Artist, The Seven Mysteries, solo exhibition of mixed media, Crystal Lake, Ill. and Ashland, Ore.
Andrews, Larry
*Language Exploration and Awareness 3rd Ed.*; Mahwah, N.J., Lawrence Erlbaum, 2006. (Teaching, Learning & Teacher Education)

Archer, J. Clark; Lavin, Stephen J.; Martis, Kenneth C.; Shelley, Fred M.

Avolio, Bruce J.; Luthans, Fred

Bauer, Grace; Kane, Julie, eds.
*Umpteen Ways of Looking at a Possum: Critical and Creative Responses to Everette Maddox*; New Orleans, La., Xavier Review Press, 2006. (English)

Bauer, Grace
*Beholding Eye*; Cincinnati, Ohio, Custom Words, 2006. (English)

Beaver, Gregory L.
*PEAR Installer Manifesto*; London, U.K., Packt Publishing, 2006. (School of Music)

Berens, Charlyne
*Chuck Hagel: Moving Forward*; Lincoln, Neb., University of Nebraska Press, 2006. (Journalism & Mass Communications)

Bicknell-Holmes, Tracy; Logan-Peters, Kay

Bryant, Miles
*Horse Smiling and Other Moments Recollected in Nebraska*; Lincoln, Neb., B Street Press, 2006. (Educational Administration)

Burnett, Amy N.
*Teaching the Reformation: Ministers and Their Message in Basel, 1529-1629*; New York, N.Y., Oxford University Press, 2006. (History)

Burnett, Amy N.; Goodburn, Amy; Savory, Paul; Bernstein, Daniel

Burnett, Stephen G.; Bell, Dean Phillip, eds.
Carr, Thomas M.
Voix des abbes des du Grand Siècle: la prédication au féminin à Port-Royal; Tubingen, Germany, Gunter Narr Verlag, 2006. (Modern Languages & Literatures)

Dalla, Rochelle L.

DeFrain, John D.; Olson, David H.

DeFrain, John D.; Dahl, Susan; Campbell, John S.
We Cry Out: Living with Developmental Disabilities; Lincoln, Neb., iUniverse, 2006. (Family & Consumer Sciences)

DeFrain, John D.; Lodl, Kathleen A.; Brand, Gail L.; Fenton, Ann M.; Friesen, Jeanette L.; Hanna, Janet S.
Family Treasures: Creating Strong Families; Lincoln, Neb., University of Nebraska–Lincoln Extension, 2006. (Family & Consumer Sciences)

Digman, Lester A.
Strategic Management: Competing in the Global Information Age, 8th Ed.; Mason, Ohio, Thomson Custom Solutions, 2006. (Management)

American Cinema of the 1940s; New Brunswick, N.J., Rutgers University Press, 2006. (English)

Dixon, Wheeler Winston
Visions of Paradise; New Brunswick, N.J., Rutgers University Press, 2006. (English)

Driskell, Judy A.; Wolinsky, Ira, eds.

Edwards, Richard, ed.
Nebraska 1875: Its Advantages, Resources, and Drawbacks; Lincoln, Neb., University of Nebraska Press, 2006. (Economics)

Gladyshev, Vadim N.; Hatfield, Dolph L.; Berry, Marla J., eds.

Grady, Marilyn L.; Brock, Barbara

Grady, Marilyn L.; Brock, Barbara
From First Year to First Rate, 3rd Ed.; Thousand Oaks, Calif., Corwin Press, 2006. (Educational Administration)

Grady, Marilyn L.

Grange, William
Historical Dictionary of German Theater; Lanham, Md., The Scarecrow Press, 2006. (Johnny Carson School of Theatre and Film)

Gruhl, John; Welch, Susan; Comer, John; Rigdon, Susan M.

Hamann, Ted; Meltzer, Julie
Multi-Party Mobilization for Adolescent Literacy in a Rural Area: A Case Study of Policy Development and Collaboration; Providence, R.I., Education Alliance at Brown University, 2006. (Teaching, Learning & Teacher Education)

Hamann, Ted; Meltzer, Julie
Meeting the Needs of Adolescent English Language Learners for Literacy Development and Content Area Learning, Part Two: Focus on Classroom Teaching and Learning Strategies; Providence, R.I., Education Alliance at Brown University, 2006. (Teaching, Learning & Teacher Education)

Harnisch, Delwyn L.; Kimpton, P.

Hefle, Susan L.; Koppelman, Stef J., eds.

Honey, Maureen
Shadowed Dreams: Women’s Poetry of the Harlem Renaissance, 2nd Ed., revised and expanded; New Brunswick, N.J., Rutgers University Press, 2006. (English)

Hope, Debra A.; Heimberg, Richard G.; Turk, Cynthia L.

Housh, Terry J.; Housh, D. J.; DeVries, H.A.

Hutkins, Robert W.
Microbiology and Technology of Fermented Foods; Ames, Iowa, Blackwell-IFT Press, 2006. (Food Science & Technology)
Isernhagen, Jody C.  
Portraits of Excellence Year Five Report, Comprehensive Evaluation of Nebraska School Based Teacher-Led Assessment and Reporting System (STARS); Lincoln, Neb., Nebraska Department of Education, 2006. (Educational Administration)

Jameson, Mary Liz; Ratcliffe, Brett C., eds.  

Kaul, Robert B.; Sutherland, David M.; Rolfsmeier, Steven R.  
The Flora of Nebraska; Lincoln, Neb., School of Natural Resources, UNL, 2006. (Museum)

Kooser, Ted; Cox, Steve  
Writing Brave and Free; Lincoln, Neb., University of Nebraska Press, 2006. (English)

Krone, Kathleen J.; Putnam, Linda L., eds.  

Lee, Sang M.; Olson, David L.  

Lepard, Brian  

Luthans, Fred; Youssef, Carolyn M.; Avolio, Bruce J.  
Psychological Capital; New York, N.Y., Oxford University Press, 2006. (Management)

Moshman, David  
The Daughters of the Plaza de Mayo; New York, N.Y., iUniverse, 2006. (Educational Psychology)

Murphy, Linda L.; Spies, Robert A.; Plake, Barbara S., eds.  
Tests in Print VII; Lincoln, Neb., Buros Institute of Mental Measurements, 2006. (Educational Psychology)

Olson, David L.; Shi, Yong  
Introduction to Business Data Mining; New York, N.Y., McGraw-Hill/Irwin, 2006. (Management)


Rader, Benjamin G.  

Raike, Helen H.; Whitmer, Jane M.  

Ratcliffe, Brett C.; Cave, Ronald D.  
The Dynastine Scarabs of Honduras, Nicaragua, and El Salvador (Coleoptera: Scarabaeidae); Lincoln, Neb., University of Nebraska State Museum, 2006. (Museum, Entomology)

Reid, Robert; Lienemann, Torri  
Strategy Instruction for Students with Learning Disabilities; New York, N.Y., Guilford, 2006. (Special Education & Communication Disorders)

Ritchie, Joy S.; Ronald, Kate  
Teaching Rhetorica: Theory, Pedagogy, Practice; Portsmouth, N.H., Boynton/Heineman, 2006. (English)

Ruser, Kevin; Lubken, Deanna  
Nebraska Chapter 7 Consumer Bankruptcy Manual; Lincoln, Neb., Law College Education Services, 2006. (Law)

Sayood, Khalid  

Schniederjans, Marc J.; Schniederjans, Ashlyn M.; Schniederjans, Dara G.  

Seefeldt, Douglas; Hantman, Jeffrey L.; Onuf, Peter S., eds.  
Across the Continent: Jefferson, Lewis and Clark and the Making of America; Charlottesville, Va., University of Virginia Press, 2006. (History)

Sellmyer, David J.; Skomski, Ralph, eds.  
Advanced Magnetic Nanostructures; Berlin, Germany, Springer, 2006. (Physics & Astronomy)

Sellmyer, David J.; Liu, Yi; Shindo, D., eds.  
Handbook of Advanced Magnetic Materials; Berlin, Germany, Springer, 2006. (Physics & Astronomy)

Siau, Keng L., ed.  
Advanced Topics in Database Research Vol. 5; Hershey, Pa., Idea Group Publishing, 2006. (Management)

Spencer, Nicholas  
After Utopia: The Rise of Critical Space in Twentieth Century American Fiction; Lincoln, Neb., University of Nebraska Press, 2006. (English)

Steinweis, Alan E.  
Studying the Jew: Scholarly Antisemitism in Nazi Germany; Cambridge, Mass., Harvard University Press, 2006. (History)
Steinweis, Alan E.; Gassert, Philipp, eds.

Taylor, Stephen L., ed.
Advances in Food and Nutrition Research, Volume 51; San Diego, Calif., Academic Press, 2006. (Food Science & Technology)

Woody, Robert H.; Lehmann, Andreas C.; Sloboda, John A.
Psychology for Musicians: Understanding and Acquiring the Skills; New York, N.Y., Oxford University Press, 2006. (School of Music)

Zellmer, Sandra B.; Laitos, Jan; Wood, Mary; Cole, Daniel
Natural Resources Law; St. Paul, Minn., Thomson/West, 2006. (Law)

2006 RECOGNITIONS AND HONORS
Faculty who have been elected to or who have received national or international honors

Braake, Myron Plant Pathology (Emeritus)
National Academy of Science Membership

Kooser, Ted English
U.S. Poet Laureate Consultant in Poetry to the Library of Congress

Splinter, William Larsen Tractor Test and Power Museum; Biological Systems Engineering (Emeritus)
National Academy of Engineers Membership

Van Etten, James Plant Pathology
National Academy of Science Membership

Abbott, Douglas A. Family & Consumer Sciences
Fulbright Scholar, U.S. Fulbright Foundation

Albrecht, Julie Nutrition & Health Sciences
President’s Volunteer Service Award, President’s Council on Service and Civic Participation

Anderson, John Economics
Contributor to the Economic Report of the President, President’s Council of Economic Advisers

Archer, J. Clark Anthropology & Geography
Lavin, Stephen J. Anthropology & Geography

Banerjee, Ruma Biochemistry
Vice-Chair, Gordon Research Conference, Thiol-based Redox Regulation and Signaling

Barnes, Paul E. School of Music
Best Performance Production for the world premier television production of Philip Glass Piano Concerto No. 2 (After Lewis and Clark), National Educational Telecommunications Association

Behrendt, Stephen C. English
Senior Fellowship, American Council of Learned Societies

Bevins, Rick A. Psychology
Fellow, American Psychological Association

Braithwaite, Dawn O. Communication Studies
Brommel Award for Family Communication Scholarship, National Communication Association

Bryant, Miles Educational Administration
2006 Outstanding Reviewer Award, Journal of Research in Leadership Education
Carr Jr., Thomas M.  Modern Languages & Literatures
Chevalier, Ordre des Palmes academiques, French government

Cassman, Kenneth G.  Agronomy & Horticulture
2006 Agronomic Research Award, American Society of Agronomy

Coble, Parks M.  History
Andrew Mellon Fellowship for Senior Scholars, Institute for Advanced Study, Princeton

Crawford, Sidnie W.  Classics & Religious Studies
W.F. Albright Service Award, The American Schools of Oriental Research

Cupp, Andrea S.  Animal Science
2006 New Investigator Award, Society for the Study of Reproduction

DeFrain, John D.  Family & Consumer Sciences
Research Scientist, Shanghai Academy of Social Sciences, Peoples Republic of China

Digman, Lester A.  Management
Paisitnanand, Sineenead  Management
Lee, Sang M.  Management
2006 Best Paper Award, Managing Knowledge Capabilities for Strategy Implementation Effectiveness, 2006 Western Decision Sciences Annual Meeting

Ducey, Mary Ellen  Libraries
Price, Kenneth M.  English
Walter, Katherine L.  Libraries
Barney, Brett  Libraries
Pytlk Zillig, Brian L.  Libraries
Jewell, Andrew W.  Libraries
C.F.W. Coker Award, Society of American Archivists

Eckhardt, Craig J.  Chemistry, Physics & Astronomy
Fulbright Senior Fellow, U.S. Fulbright Commission

Eversoll, Duane  Natural Resource Sciences
Fellow, Geological Society of America

Gentry, James  Marketing
Baker, Stacey  Marketing
Rittenberg, Terri  Marketing
2006 Charles C. Slater Memorial Award for Best Article, Journal of Macromarketing

Gladyshev, Vadim  Biochemistry
Chair, Gordon Research Conference, Thiol-based Redox Regulation and Signaling

Graybill, Andrew R.  History
Vernon Carstensen Award, Agricultural History Society
James H. Bradley Fellowship, Montana Historical Society

Harveson, Robert M.  Plant Pathology
Blue Ribbon Award, American Society of Agricultural Engineers

Harvey, F. Edwin  Natural Resource Sciences
Fellow, Geological Society of America

Hayden-Roy, Priscilla A.  Modern Languages & Literatures
Humboldt Fellowship - Continuation Grant, Alexander von Humboldt Foundation

Hefle, Susan L.  Food Science & Technology
Special Achievement, Food Allergy and Anaphylaxis Network
Dr. Hefle died in August of 2006.

Hoagland, Kyle D.  Natural Resource Sciences
President-Elect, National Institutes for Water Resources

Housh, Terry  Nutrition & Health Sciences
Educator of the Year, National Strength and Conditioning Association

Hoy, Roger M.  Biological Systems Engineering
President’s Leadership Citation, American Society of Agricultural and Biological Engineering

Hudgins, Jerry L.  Electrical Engineering
William M. Portnoy Award, Institute of Electrical and Electronics Engineers Industry Applications Society

Jacobs, Margaret D.  History
Arrell Morgan Gibson Prize, Western History Association

Joekel, Ronald G.  Educational Administration
International Exemplary Leader, International Chair Academy Phi Delta Kappa International; 20th Century Exemplary Leader, Phi Delta Kappa International

Koelsch, Richard K.  Biological Systems Engineering, Animal Science
Presidential Citation, American Society of Agricultural and Biological Engineering
Blue Ribbon Award, American Society of Agricultural and Biological Engineering

Kunc, Karen  Art & Art History
Printmaker Emeritus Award, The Southern Graphics Council

Levin, Carole  History
NEH Fellowship at the Folger Shakespeare Library, National Endowment for the Humanities

Lyons, William H.  Law
Regent, American College of Tax Counsel
Managing Editor, The Tax Lawyer
Mayo, ZB  Agricultural Research Division, Entomology
Honorary Member, Entomological Society of America

Moeller, Aleidine  Teaching, Learning & Teacher Education
Florence Steiner Award for Leadership in Foreign Language Education, American Council for the Teaching of Foreign Languages

Niemeyer, Shirley  Textiles, Clothing & Design
Distinguished Service Award, Housing Education and Research Association

Nierman, Glenn E.  School of Music
Elected President of North Central MENC and Member of the MENC National Executive Board, MENC--The National Association for Music Education

Olson, David L.  Management
Best Enterprise Information Systems Educator Award, International Federation of Information Processing TC8 International Conference on Research and Practical Issues of Enterprise Information Systems

Patterson, Dean J.  Electrical Engineering
Fellow, Institute of Electrical and Electronics Engineers

Prochaska-Cue, M. Kathleen  Family & Consumer Sciences
President’s Volunteer Service Award, President’s Council on Service and Civic Participation

Ragsdale, Stephen W.  Biochemistry
Paper of the Week, Journal of Biological Chemistry
Elected Member, American Academy of Microbiology, American Society of Microbiology

Rajurkar, Kamlakar  Industrial & Management Systems Engineering
Charles F. Carter Jr. Advancing Manufacturing Award, Association of Manufacturing Technology

Ratcliffe, Brett C.  Museum, Entomology
Outstanding Paper of the Year Award, Coleopterists Society

Schneiderjans, Marc J.  Management
Fellow, Institute of Decision Sciences

Schubert, Mathias M.  Electrical Engineering
Chair, International Conference Series on Low Energy Electrodynamics in Solids
Ludwig-Genzel-Award, International Conference series on Low Energy Electrodynamics in Solids

Shepard, Neil T.  Special Education & Communication Disorders
Honors of the Association, American Speech-Language-Hearing Association

Siau, Keng L.  Management
Ranked as one of the top e-commerce researchers, Business Research Yearbook, Vol. 13
Outstanding Service Award, International Federation for Information Processing
Faculty Award, IBM

Smith, Victoria  History, Ethnic Studies
Book Award for No One Ever Asked Me: The World War II Memories of an Omaha Indian Soldier, Army Historical Foundation

Soukup, Rodney J.  Electrical Engineering
Elected to the Administrative Committee, Institute of Electrical and Electronic Engineers Education Society

Souto, Francisco  Art & History
International Award, 6th British International Print Exhibition, Gracefield Arts Centre, United Kingdom
Selected Prize, 12th International Biennial Print and Drawing Exhibition, R.O.C. National Taiwan Museum of Fine Arts
Honorable Mention, 7eme Mondial de L’Estampe et de la Gravure Originale Triennale de Chamalieres, France
Ex aequo Prize, 5-a Bienala Internationala de Grafica Mica, Cluj, Romania

Steinweis, Alan E.  History
Finalist, National Jewish Book Awards, Jewish Book Council

Stump, Jordan M.  Modern Languages & Literatures
Chevalier de l’Ordre des Arts et des Lettres, the French government

Trout, Barbara  Textiles, Clothing & Design
Honorable Mention, Handweavers Guild of America

Van Vleck, L. Dale  Animal Science
Distinguished Achievement in Agriculture Award, International Gamma Sigma Delta

Verma, Shashi B.  Natural Resource Sciences
Award for Outstanding Achievement in Biometeorology, American Meteorological Society

Vigna, Diane  Textiles, Clothing & Design
Achievement in Service Award, National Association of Extension 4-H Agents

Wang, Lijun  Biological Systems Engineering
Superior Paper Award, American Society of Agricultural and Biological Engineering

Weller, Curtis L.  Biological Systems Engineering
Superior Paper Award, American Society of Agricultural and Biological Engineering

White, Tyler G.  School of Music
Honorable Mention, Rudolf Nissim Prize Competition, ASCAP Foundation
Willborn, Steven L.  Law
Chair, U.S. Branch, International Society for Labor and Social Security Law

Winkle, Kenneth J.  History
Distinguished Lecturer, 2005-08, Organization of American Historians
Distinguished Book Award for Atlas of the Civil War, Society for Military History

Woollam, John A.  Electrical Engineering
Fellow, American Vacuum Society

Center for Digital Research in the Humanities  English
Invited to display information about the Journals of Lewis and Clark Expedition Online and the Walt Whitman Archive for Humanities Advocacy Day, National Humanities Alliance

Zellmer, Sandra  Law
Senior Specialist, Fulbright Foreign Scholar
Member, World Conservation Union Commission on Environmental Law

Zlotnik, Vitaly A.  Geosciences
Fellow, Geological Society of America

Glossary of Federal Agency Abbreviations

USAID  United States Agency for International Development
CNS  Corporation for National Service
USDA  United States Department of Agriculture
ARS  Agricultural Research Service
BRDC  Biotechnology Research and Development Corporation
CSREES  Cooperative State Research, Education & Extension Service
ERS  Extension Research Service
FAS  Foreign Agriculture Service
FS  Forestry Service
NRCS  Natural Resources Conservation Service
NRICGP  National Research Initiative Competitive Grant Program
RMA  Risk Management Agency
SARE  Sustainable Agricultural Research and Education Program

DOC  Department of Commerce
EDA  Economic Development Administration
NOAA  National Oceanic & Atmospheric Administration

DOD  Department of Defense
Army Corps of Engineers
Army Research Office
DEPSCoR  Defense Experimental Program to Stimulate Cooperative Research
Naval Research Laboratory
Office of Naval Research
U.S. Army Medical Research Acquisition Activity

DEd  Department of Education
FIPSE  Fund for the Improvement of Postsecondary Education
GAANN  Graduate Assistance in Areas of National Need

DOE  Department of Energy
EPSCoR  Experimental Program to Stimulate Cooperative Research
NIGEC  National Inst for Global Environmental Change
Sandia National Laboratories
DHHS  Department of Health and Human Services
ACF  Administration for Children and Families
CDC  Centers for Disease Control
NIH  National Institutes of Health
       Fogarty International Center
NCI  National Cancer Institute
NCRR  National Center for Research Resources
       National Eye Institute
NHLBI  National Heart, Lung and Blood Institute
       National Institute on Aging
NIAID  National Institute on Allergy & Infectious Diseases
NICHID  National Institute of Child Health and Human Development
NIDCD  National Institute on Deafness & Communication Disorders
NIDDK  National Institute of Diabetes, Digestive & Kidney Disease
NIDA  National Institute on Drug Abuse
NIGMS  National Institute on General Medical Sciences
NIMH  National Institute of Mental Health

HUD  Department of Housing and Urban Development

DoI  Department of Interior
BR  Bureau of Reclamation
FWS  Fish & Wildlife Service
GS  Geological Survey
NPS  National Park Service

DoT  Department of Transportation
Federal Highway Administration

EPA  Environmental Protection Agency

IMLS  Institute of Museum & Library Services

NASA  National Aeronautics and Space Administration
       Ames Research Center
       Goddard Space Flight Center
       Jet Propulsion Laboratory
       John Stennis Space Center
       Lewis Research Center
       Wallops Flight Facility

NCHRP  National Cooperative Highway Research Program

NEA  National Endowment for the Arts

NEH  National Endowment for the Humanities

NSF  National Science Foundation
       EPSCoR  Experimental Program to Stimulate Cooperative Research

NSA  National Security Agency
Every effort has been made to verify the accuracy and completeness of submissions. Faculty, department chairs and heads and the deans were invited to submit entries online regarding published books, national and international recognitions, and creative works in fine and performing arts. Information on major sponsored program awards was gathered by the Office of Sponsored Programs. Reports on patents and intellectual property licenses were produced by the Office of Technology Development. We apologize for any omissions or errors in this report.

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