2008

Major Sponsored Programs and Faculty Awards for Research and Creative Activity 2007

Follow this and additional works at: http://digitalcommons.unl.edu/researchecondev

Part of the Higher Education Administration Commons

http://digitalcommons.unl.edu/researchecondev/30

This Article is brought to you for free and open access by the Research and Economic Development, Office of at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Office of Research and Economic Development--Publications by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.
This is the sixth annual “Major Sponsored Programs and Faculty Awards for Research and Creative Activity” report. This booklet highlights the successes of University of Nebraska–Lincoln faculty during 2007. It lists the funding sources, projects and investigators on major grants and sponsored program awards received during the year, 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 faculty’s accomplishments.

Researchers at the University of Nebraska–Lincoln have pushed the frontiers in their disciplines in the past year, setting new drilling records in Antarctica, winning the nation’s highest honor for technology and building an ultra-fast, high-intensity laser that has the highest combination of peak power and repetition rate of any U.S. laser. Our sponsored funding continues to grow, with awards of $171.9 million last year alone.

How have we reached this success? We have worked to 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.

These accomplishments exemplify how UNL’s emphasis on innovation, interdisciplinarity and international collaborations is propelling our research into new arenas, producing new products and technologies for the marketplace and offering our students intensive research experiences.

Thank you for your interest and support of research at the University of Nebraska–Lincoln!

Prem S. Paul
Vice Chancellor for Research and Economic Development
**Allen, David**

**Engineering**

Blast Wave Absorbing Structures: an Experimental & Modeling Program  
$7,500,000 DOD-Army Research Laboratory  
6/25/04 – 6/24/09

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.

**Cassman, Kenneth**

**Nebraska Center for Energy Sciences Research, Agronomy and Horticulture**

$5,000,000 Nebraska Public Power District  
Paul, Prem  
Office of Research  
4/1/06 - 3/31/2011

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 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

National E — Extension Project
National Association of State Universities and Land-Grant Colleges
$6,800,000
10/1/04 - 12/31/09

Dan Cotton directs the eXtension Initiative, an Internet-based land-grant university education and information system. UNL is the lead institution in this multi-year project, which partners with the 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
Dept. of Education
$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
NSF
$6,057,747
9/1/02 – 12/31/07

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 NSF-EPSCoR
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.

Gladyshev, Vadim
Biochemistry

$10,889,947 DHHS-NIH-NCRR
8/1/07 – 7/31/12

Vadim Gladyshev, Charles Bessey professor of biochemistry in the Institute of Agriculture and Natural Resources, is the director of the Redox Biology Center. Established in 2002 with a grant from the National Institutes of Health as a Center of Biomedical Research Excellence, the center received a competitive renewal grant in 2007 to support it through 2012. 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.
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 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.

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.
Jose, H. Douglas  
Agricultural Economics  
North Central Risk Management Education Center  
Dept. of Agriculture-CSREES  
$3,600,000  
9/15/07 – 9/14/10  
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.

Lewis, Jim  
Mathematics  
Math in the Middle Institute Partnership  
$5,000,000  
NSF  
Ruth Heaton  
Teaching, Learning and Teacher Education  
Lincoln Public Schools  
Thomas McGowan  
Teaching, Learning and Teacher Education  
Barbara Jacobson  
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.
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.

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, 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.

Sheridan, Susan  
**Educational Psychology**  
Parent Engagement and Learning Birth to Five  
$5,077,441  
DHHS-NIH-NICHD  
Edwards, Carolyn  
Psychology  
9/26/03 – 7/31/08

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.

Tsymbal, Evgeny  
**Nebraska Center for Materials and Nanoscience**  
Materials Research Science & Engineering Center; Nanomagnetic Structures  
$5,491,000  
9/1/02 – 8/31/08  
NSF

Evgeny Tsymbal, professor 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.
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.
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
$10,354,057 DHHS-NIH-NCRR
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
$3,300,682 DHHS-NIH-National Cancer Institute
9/30/03 – 6/30/08
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
International Sorghum/Millet Collaborative Research Support Program (INTSORMIL)
$36,990,000  U.S. Agency for International Development
7/1/96 – 9/30/07
$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.

Interdisciplinary Team
* Infrastructure for the Enhancement of Systems Biology Research & Development at UNL
$4,329,877  NSF-EPSCoR
7/1/07 – 6/30/10
This grant supports multi-campus collaborative research between biologists and engineers for creating a strategic research niche in epigenetics– the study of heritable changes in gene functions not associated with changes in DNA sequence. Much of what comprises the complexity of multi-cellular organisms is programmed within the network of interacting molecules – protein, RNA and DNA – known collectively as chromatin. Engineers will create nano-devices for delivering molecules into cells for better understanding the role of chromatin in cell function and its response to the environment.
Awards of $1 Million to $2,999,999
Active awards in 2007
* Indicates new in 2007

Adams, Stephanie
Industrial and Management Systems Engineering
Strengthening Transitions into Engineering Program
$1,648,354 NSF

Ballard, John
Engineering
Perez, Lance
Electrical Engineering

Alfano, James
Plant Science Initiative/Plant Pathology
Suppression of Innate Immunity by ADP Ribosyltransferase Type III Effectors
$1,815,504 DHHS-NIH-NIAID

Barycki, Joseph
Biochemistry
Structural Insights into Redox Homeostasis
$1,067,922 DHHS-NIH-NIGMS

Becker, Donald
Biochemistry
Mechanistic Studies of Functional Switching in the PutA Flavoprotein
$1,218,025 DHHS-NIH-NIGMS

Bellows, Laurie
Graduate Studies
McNair Scholars Project and the University of Nebraska–Lincoln
$1,125,000 Dept. of Education

Chen, Bing
Computer and Electronics Engineering
SPIRIT^2.0 Silicon Prairie Initiative for Robotics in IT
$2,999,963 NSF

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

Cupp, Andrea
Animal Science
Role of VEGF in Testis Morphogenesis
$1,083,239 DHHS-NIH-NICHD
Weber, John
Animal Science
White, Brett
Animal Science

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

* World of Viruses
$1,286,811 DHHS-NIH-NCRR
Wood, Charles
Nebraska Center for Virology

$1 MILLION — $2,999,999
Doll, Elizabeth  
Evolving Inquiry: Science Instruction Model for Teachers in Rural, Culturally Diverse Schools  
$1,261,684  
Bruning, Roger  
Educational Psychology  
Bonnstetter, Ron  
Teaching, Learning and Teacher Education  
Horn, Christy  
Educational Psychology  

Dzenis, Yuris  
Engineering Mechanics  
NIRT: Manufacturing of Novel Continuous Nanocrystalline Ceramic Nanofibers  
$1,095,200  
Zeng, Xiao Cheng  
Chemistry  
Feng, Ruqiang  
Engineering Mechanics  
Turner, Joseph  
Engineering Mechanics  
Larsen, Gustavo  
Chemical and Biomolecular Engineering  

NIRT: Nanomanufacturing and Analysis of Active Hierarchical Nanofilamentary Nanostructures  
$1,000,000 NSF  
Zeng, Xiao Cheng  
Chemistry  
Feng, Ruqiang  
Engineering Mechanics  
Turner, Joseph  
Engineering Mechanics  
Poser, Susan  
Center for the Teaching and Study of Applied Ethics  
Tomkins, Alan  
Public Policy Center  

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

Epstein, Michael  
Special Education and Communication Disorders  
On the Way Home: A Family-Centered Academic Reintegration Intervention Model  
$1,443,284  
Torkelson-Trout, Alexandra  
Dept. of Education  
Special Education and Communication Disorder  

Espy, Kimberly  
Office of Research  
Prenatal Tobacco Exposure: Perinatal and Genetic Risks  
$1,207,660  
Wiebe, Sandra  
DHHS-NIH-NIDA  
Office of Research  

Executive Function Development in Preschool Children  
$1,168,281  
Wiebe, Sandra  
DHHS-NIH-NIMH  
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  
Civil Engineering
Farrell, Michael University Television
$1,246,068 NSF
Diamond, Judy University of Nebraska State Museum

Farritor, Shane Mechanical Engineering
Track Stability Assessment & Data Transmission
$2,531,439 Dept. of Transportation-FRA
Turner, Joseph Engineering Mechanics
Nelson, Carl Mechanical Engineering
Sharif, Hamid Computer and Electronics Engineering

Gladyshev, Vadim Biochemistry
Functions of Mammalian Thioredoxin Reductases
$1,155,459 DHHS-NIH-NIGMS

Selenoprotein as a Target for Cancer Prevention
$1,323,973 DHHS-NIH-NCI

Methionine Sulfoxide Reduction, Selenium and Aging
$1,249,639 DHHS-NIH-NIA

Identity & Functions of Selenoprotein Genes
$1,138,800 DHHS-NIH-NIGMS

Goddard, Stephen Computer Science and Engineering
Climate & Soil Risk Information System
$1,212,056 Dept. of Agriculture-RMA
Wilhite, Donald School of Natural Resources
Hubbard, Kenneth School of Natural Resources

Green, Jordan Special Education and Communication Disorders
Early Speech Motor Development
$1,758,852 DHHS-NIH-NIDCD

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

Hubbard, Kenneth School of Natural Resources
Services of the NOAA Regional Climate Centers
$2,107,365 Dept. of Commerce-NOAA

* Regional Climate Services Support in the High Plains Region: The High Plains Regional Climate Center
$1,000,000 Dept. of Commerce-NOAA

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

Josiah, Scott NE State Forest Service
Cooperative Forestry Program
$1,834,089 Dept. of Agriculture-FS

$1 MILLION — $2,999,999
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Project Description</th>
<th>Funding Agency</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kamil, Alan</td>
<td>Biological Sciences</td>
<td>Mechanisms of Visual Search and Attention</td>
<td>DHHS-NIH-NIMH</td>
<td>$1,029,062</td>
</tr>
<tr>
<td>Bond, Alan</td>
<td>Biological Sciences</td>
<td></td>
<td></td>
<td>$2,741,563</td>
</tr>
<tr>
<td>Knoche, Lisa</td>
<td>Center on Children, Youth, Families and Schools</td>
<td>Rural Language and Literacy Connections (Rural LLC)</td>
<td>Dept. of Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Center on Children, Youth, Families and Schools/Child, Youth and Family Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raikes, Helen</td>
<td></td>
<td></td>
<td></td>
<td>$2,226,983</td>
</tr>
<tr>
<td>Koszewski, Wanda</td>
<td>Nutrition and Health Sciences</td>
<td>Building Nebraska Families</td>
<td>Nebraska Dept. of Health &amp; Human Services</td>
<td>$1,280,914</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IANR-Cooperative Extension</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nutrition Education Program</td>
<td>Nutritional and Health Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$2,741,563</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lee, Jaekwon</td>
<td>Biochemistry</td>
<td>Mechanistic Insights into Homeostatic Copper Ion Acquisition</td>
<td>DHHS-NIH-NIDDK</td>
<td>$1,075,850</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leslie-Pelecky, Diandra</td>
<td>Physics and Astronomy</td>
<td>Track 2, GK-12: Project Fulcrum: Phase II</td>
<td>NSF</td>
<td>$1,987,732</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Physics and Astronomy</td>
<td></td>
</tr>
<tr>
<td>Lou, Marjorie</td>
<td>Veterinary and Biomedical Sciences</td>
<td>Protein-Thiol Mixed Disulfide in Cataractogenesis</td>
<td>DHHS-NIH-National Eye Institute</td>
<td>$1,721,697</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lu, Yongfeng</td>
<td>Electrical Engineering</td>
<td>Multi-Laser-Beam Open-Atmosphere Surface</td>
<td>DOD-Office of Naval Research-MURI</td>
<td>$2,999,970</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coating Techniques Based on Precursor Excitation, Photodissociation and Controlled Cooling</td>
<td></td>
<td></td>
</tr>
<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>DOD-Army Space and Missile Defense Command</td>
<td>$2,877,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$2,905,899</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Therapeutic Agents &amp; Vaccines against Biological Warfare</td>
<td>DOD-Army Medical Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Food Science and Technology</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chemical and Biomolecular Engineering</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$1,228,735</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Purification of proPRT-201 and Production of Reference Standard</td>
<td>Proteon Therapeutics</td>
<td>$2,001,355</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$1,228,735</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Process Development &amp; cGMP Production</td>
<td>Targepeutics Inc.</td>
<td></td>
</tr>
</tbody>
</table>

$1 MILLION — $2,999,999
Mendoza-Gorham, Joan  
Department of Education  
Classic Upward Bound  
Department of Education  
$1,250,000  
Upward Bound Math/Science Program  
$1,000,000  
Special Education and Communication Disorders  
Portales a Aprender Leer (PAL)  
$2,687,442  
Parkhurst, Lawrence  
Student Affairs  
Assembly Mechanisms of TBP–Nucleated Complexes  
Department of Education  
$1,107,318  
Robertson Jr., Vaughn  
Student Affairs  
UNL Educational Talent Search  
Department of Education  
$2,091,823  
Rutenbeck, Kathy  
Student Affairs  
Upward Bound-Northeast Nebraska  
Department of Education  
$1,458,320  
Sheridan, Susan  
Center on Children, Youth, Families and Schools  
Evaluation of Efficacy of CBC for Addressing Disruptive Behaviors of Children-at-Risk for Academic Failure  
Department of Education  
$1,368,067  
Glover, Todd  
Center on Children, Youth, Families and Schools  
$1,074,629  
Simpson, Melanie  
Biochemistry  
Role of Hyaluronan Matrix in Prostate Cancer Progression  
DHHS-NIH-National Cancer Institute  
$1,074,629  
Snow, Greg  
Physics and Astronomy  
The Cosmic Ray Observatory Project  
NSF  
$1,374,005  
Claes, Daniel  
Physics and Astronomy  
$1,106,337  
Starace, Anthony  
Physics and Astronomy  
Dynamics of Few-Body Atomic Processes  
Department of Energy  
$1,106,337  
Umstadter, Donald  
Physics and Astronomy  
DOD-DARPA  
$1,250,029  
Banerjee, Sudeep  
Physics and Astronomy  
$2,596,020  
Tunable, Monoenergetic Gamma-Ray Source for Identification of Embedded SNM  
Dept. of Homeland Security-DNDO  
$1,829,596
Van Etten, James  
DNA Replication & Gene Expression of Chlorella Viruses  
$1,215,694  
Plant Pathology  
DHHS-NIH-NIGMS

Dunigan, David  
Kang, Ming  
Zhang, Yuanzheng  
Agarkova, Irina  
Gurnon, James  
Plant Pathology  
Plant Pathology  
Plant Pathology  
Plant Pathology  
Plant Pathology

Verma, Shashi  
Great Plains Regional Center for Global Environmental Change  
$2,214,769  
School of Natural Resources  
Dept. of Energy/NIGEC

Carbon Sequestarian in Dryland & Irrigated Agroecosystems  
$1,600,000  
Cassman, Kenneth  
Knops, Johannes  
Hubbard, Kenneth  
Arkebauer, Timothy  
Yang, Haishun  
Walters, Daniel  
Suyker, Andrew  
Ginting, Daniel  
Agronomy and Horticulture  
Biological Sciences  
School of Natural Resources  
Agronomy and Horticulture  
Agronomy and Horticulture  
Agronomy and Horticulture  
School of Natural Resources  
Agronomy and Horticulture

Viljoen, Hendrik  
A Rational Design of a Platform for de novo Gene Synthesis  
$1,335,080  
Subramanian, Anu  
Chemical and Biomolecular Engineering  
DHHS-NIH-NCRR

Walker, Judy  
EMSW21-MCTP: Nebraska Mentoring through Critical Transition Points  
$2,500,000  
Marley, Tom  
Mathematics  
NSF

Wedin, David  
Sand Hills Biocomplexity: Integrating Biogeophysical Processes Across Space and Time  
$1,794,730  
Loope, David  
Geosciences  
NSF

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

Whitbeck, Les  
Great Plains Cultural Ways Mental Health Careers Program  
$1,298,171  
McQuillan, Julia  
Sociology  
DHHS-NIH-NIMH  
Sociology

White, Lynn  
Infertility: Pathways & Psychosocial Outcomes  
$2,559,414  
Sociology  
DHHS-NIH-NICHD
Wilcke, William  
North Central Regional Sustainable Agriculture Research & Education Program – SARE
$2,707,719  
Dept. of Agriculture-CSREES

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

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

Wood, Charles  
Biological Sciences
Programs in HIV & AIDS Assoc Diseases/Malignancies
$2,130,669  
DHHS-NIH-Fogarty International Center
Evolution of Clade C HIV-1 in Infected Children
$1,586,250  
DHHS-NIH-NICHD
Research Training in Comparative Viral Pathogenesis
$1,223,242  
DHHS-NIH-NIAID

Yamamoto, Catherine  
Student Affairs
Student Support Services Program
$1,889,080  
Dept. of Education

Zempleni, Janos  
Nutrition and Health Sciences
Vitamin-Dependent Modifications of Histones
$1,046,279  
DHHS-NIH-NIDDK

Zhang, Luwen  
Center for Virology
Oncogenic Properties of Interferon Regulatory Factor 7
$1,126,847  
DHHS-NIH-National Cancer Institute
Awards of $200,000 - $999,999

* Indicates new in 2007

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

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

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

* Dissecting the Function of HrpJ & HrpK – Two Type III Secreted Proteins Required for Injection of Effectors into Plant Cells  
$398,500  
Dept. of Agriculture-NRICGP

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

Merchant, James  
School of Natural Resources  
Cross-Scale Structure & Scale Breaks in Complex Systems  
$248,986  
James S. McDonnell Foundation

Allen, David  
Engineering Mechanics  
U.S.-Brazil Dual-Degree in Infrastructure & Sustainability Engineering Program  
$208,211  
Dept. of Education-FIPSE

Inter-University Program for Human Resources Training in Computational Mechanics  
$203,904  
Dept. of Education-FIPSE

* EMME: US-EU Transatlantic Degree Program in Engineering Mechanics/Materials Engineering  
$407,997  
Dept. of Education

Chandra, Namas  
Engineering  
Negahban, Mehrdad  
Engineering Mechanics

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

Asard, Han  
Biochemistry  
Physiological Functions & Biochemical Properties of Plant Cytochromes b561  
$386,084  
NSF
Atkin, Audrey  
Biological Sciences  
Wild-Type PPR1 mRNA Decay by Yeast Nonsense-Mediated mRNA Decay Pathway  
$403,219  
NSF
Moriyama, Etsuko  
Plant Science Initiative  
$356,322  
NSF

Avramov, Luchezar  
Mathematics  
Homology & Cohomology over Commutative Rings  
$403,219  
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  
Nebraska Dept. of Roads
Development of Design Tools for Steel Bridge Systems, Simple for Dead Loads & Continuous for Superimposed Dead Load & Live Loads  
$226,306  
Nebraska Dept. of Roads
Steel Box System Monitoring of N-2 over I-480 Bridge  
$292,244  
Nebraska Dept. of Roads

IBRC 2002 Project  
$240,000  
Nebraska Dept. of Roads
* Folded Plate Technology: Research, Design & Monitoring  
$445,000  
Nebraska Dept. of Roads
* Development of Field Data for Effective Implementation of Mechanistic-Empirical Pavement Design Procedure  
$315,252  
Nebraska Dept. of Roads
Negahban, Mehrdad  
Engineering Mechanics  
$445,000  
Nebraska Dept. of Roads
Baenziger, P. Stephen  
Agronomy and Horticulture  
Developing Winter Wheat with Improved Fusarium Head Blight Tolerance by Conventional and Transgenic Approaches  
$306,981  
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  

* Developing Small Grains Cultivars  
Optimally Suited for Organic Production  
$755,937  
Dept. of Agriculture-NRICGP  
Flores, Rolando  
Food Science and Technology  
Wegulo, Stephen  
Plant Pathology  
Russell, William  
Agronomy and Horticulture  
Shapiro, Charles  
Agronomy and Horticulture  
Schlegel, Vicki  
Food Science and Technology  
Wehling, Randy  
Food Science and Technology  
Knezevic, Stevan  
Northeast Research and Extension Center  
Hein, Gary  
Panhandle Research and Extension Center  
Lyon, Drew  
Panhandle Research and Extension Center  

Balkir, Sina  
Electrical Engineering  
All Solid-State Wireless Sensor Network for Nuclear Proliferation Detection  
$417,191  
Dept. of Energy  
Hoffman, Michael  
Electrical Engineering  

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/Biological Systems Engineering  

Basolo, Alexandra  
Biological Sciences  
Behavioral Plasticity in Preexisting Receiver Bias  
$372,000  
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  
$462,590  
NSF  

Becker, Donald  
Biochemistry  
MRI: Acquisition of Beckman XL-I Analytical Ultracentrifuge  
$284,160  
NSF
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Project Title</th>
<th>Funding Agency</th>
<th>Amount</th>
<th>Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belli, Robert</td>
<td>Gallup Research Center</td>
<td>Verbal Behaviors in Computerized Lifecourse Surveys</td>
<td>DHHS-National Institute on Aging</td>
<td>$414,430</td>
<td></td>
</tr>
<tr>
<td>Benson, Andrew</td>
<td>Food Science and Technology</td>
<td>Functional Consequences of Genome Evolution in Listeria Monocytogenes</td>
<td>Dept. of Agriculture-NRICGP</td>
<td>$261,515</td>
<td></td>
</tr>
<tr>
<td>Beukelman, David</td>
<td>Special Education and Communication Disorders</td>
<td>Rehabilitation Engineering Research Center on Communication Enhancement</td>
<td>Duke University Medical Center</td>
<td>$534,990</td>
<td></td>
</tr>
<tr>
<td>Bevins, Rick</td>
<td>Psychology</td>
<td>Acquired Appetitive Properties of Nicotine</td>
<td>DHHS-NIH-NIDA</td>
<td>$884,792</td>
<td></td>
</tr>
<tr>
<td>Bilder, Christopher</td>
<td>Statistics</td>
<td>Disease Detection and Prevalence Estimation through Informative Group Testing</td>
<td>DHHS-NIH-NIAID</td>
<td>$722,666</td>
<td></td>
</tr>
<tr>
<td>Billesbach, David</td>
<td>Biological Systems Engineering</td>
<td>Development &amp; Field Testing of a Rapidly Deployable Carbon Dioxide Flux Management System</td>
<td>Dept. of Energy-Berkeley National Lab</td>
<td>$517,045</td>
<td></td>
</tr>
<tr>
<td>Blum, Paul</td>
<td>Biological Sciences</td>
<td>Gene Silencing &amp; Catabolite Repression in the Archaeon Sulfolobus Solfataricus</td>
<td>NSF</td>
<td>$413,380</td>
<td></td>
</tr>
<tr>
<td>Bobaru, Florin</td>
<td>Engineering Mechanics</td>
<td>Adaptivity in Peridynamics for Composite Plates</td>
<td>Dept. of Energy-Sandia National Laboratories</td>
<td>$203,965</td>
<td></td>
</tr>
<tr>
<td>Bond, Alan</td>
<td>Biological Sciences</td>
<td>Mechanisms of Social Cognition</td>
<td>DHHS-NIH-NIMH</td>
<td>$540,260</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Virtual Ecology: Experimental Tests of Evolution in Predator-Prey Systems</td>
<td>Biological Sciences</td>
<td>$461,000</td>
<td></td>
</tr>
<tr>
<td>Kamil, Alan</td>
<td>Biological Sciences</td>
<td>Virtual Ecology: Experimental Tests of Evolution in Predator-Prey Systems</td>
<td>NSF</td>
<td>$461,000</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
<td>Project Description</td>
<td>Funding Agency</td>
<td>Amount</td>
<td></td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
<td>-----------------------------------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>Brand, Jennifer</td>
<td>Center for Materials and Nanoscience</td>
<td>Boron Carbide Semiconductor Films</td>
<td>Dept. of Energy-Battelle</td>
<td>$347,826</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Novel Rare-Earth Semiconductors for Solid-State Neutron Detectors</td>
<td>DOD-Defense Threat Reduction Agency</td>
<td>$450,000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dowben, Peter</td>
<td>Physics and Astronomy</td>
<td>Department of Energy</td>
<td>$238,398</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Direct Energy Conversion with Heteroisomeric Boron Carbide Diode Devices</td>
<td>Central Intelligence Agency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulling, Denise</td>
<td>Public Policy Center</td>
<td>Hospital Preparedness — Bioterrorism</td>
<td>Nebraska Dept. of Health and Human Services</td>
<td>$257,500</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Critical Incidence Stress Management Program Coordination</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hospital Preparedness — Bioterrorism</td>
<td>Nebraska Dept. of Health and Human Services</td>
<td>$222,120</td>
<td></td>
</tr>
<tr>
<td>Burbach, Mark</td>
<td>School of Natural Resources</td>
<td>Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Programs</td>
<td>Dept. of Agriculture-RMA</td>
<td>$403,293</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ramamurthy, Byrav</td>
<td>Computer Science and Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burson, Dennis</td>
<td>Animal Science</td>
<td>Listeria Monocytogenes Controls in Ready to Eat Meat Products</td>
<td>Dept. of Agriculture-CSREES</td>
<td>$599,732</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thippareddi, Harshavardhan</td>
<td>Food Science and Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dept. of Agriculture-CSREES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cady, Daniel</td>
<td>Cooperative Extension</td>
<td>Nebraska Technology Transfer Center at UNL</td>
<td>Nebraska Dept. of Roads</td>
<td>$430,860</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Development of Tools for Rating Bridges &amp; Application to State Bridges</td>
<td></td>
<td>$893,418</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Azizinamini, Atorod</td>
<td>Civil Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cantrell, Randolph</td>
<td>Center for Applied Rural Innovation</td>
<td>Relocation to the Buffalo Commons: Marketing Approach to Understand Residential Decisions among Migrants</td>
<td>Dept. of Agriculture-NRICGP</td>
<td>$220,387</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Burkhart-Kriesel, Cheryl</td>
<td>Panhandle Research Extension Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Johnson, Bruce</td>
<td>Agricultural Economics</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Regulation of Cholesterol Absorption by Plant Sterol &amp; Stanol Esters</td>
<td>Beef Products Inc.</td>
<td></td>
<td></td>
</tr>
<tr>
<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>
<td>Dept. of Agriculture-NRICGP</td>
<td>$466,915</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Regulation of Cholesterol Absorption by Plant Sterol &amp; Stanol Esters</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**$200,000 — $999,999**
<table>
<thead>
<tr>
<th>Name</th>
<th>Department/Initiative</th>
<th>Project Description</th>
<th>Funding</th>
<th>Funding Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cassman, Kenneth</td>
<td>Agronomy and Horticulture</td>
<td>Demonstration/Validation of a Dynamic Real-Time Decision Support System for Irrigation Management with Limited Water Supply</td>
<td>$230,537</td>
<td>Nebraska Corn Board</td>
</tr>
<tr>
<td>Dobermann, Achim</td>
<td>Agronomy and Horticulture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walters, Daniel</td>
<td>Agronomy and Horticulture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yang, Haishun</td>
<td>Agronomy and Horticulture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irmak, Suat</td>
<td>Biological Systems Engineering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kranz, William</td>
<td>Northeast Research and Extension Center</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shapiro, Charles</td>
<td>Northeast Research and Extension Center</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tarkalson, David</td>
<td>West Central Research and Extension Center</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cerutti, Heriberto</td>
<td>Biological Sciences/Plant Science Initiative</td>
<td>Histone Modifications &amp; Transcriptional Silencing in Chlamydomonas</td>
<td>$448,235</td>
<td>NSF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RNA-Mediated Silencing: Mechanisms and Biological Roles in Chlamydomonas</td>
<td>$969,539</td>
<td>DHHS-NIH-NIGMS</td>
</tr>
<tr>
<td>Claes, Daniel</td>
<td>Physics and Astronomy</td>
<td>Experimental High Energy Physics</td>
<td>$573,000</td>
<td>NSF</td>
</tr>
<tr>
<td>Snow, Gregory</td>
<td>Physics and Astronomy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clemente, Thomas</td>
<td>Biotechnology/Plant Science Initiative/Agronomy and Horticulture</td>
<td>From Proplastid to Chloroplast: Understanding Plastid Differentiation in Maize by Microarray &amp; Proteome Analysis</td>
<td>$389,225</td>
<td>Cornell University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Research in Nebraska on Improved Soybean Oil for Biodiesel Fuel</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Functional Analysis of Soybean Genes through Transposon Mutagenesis</td>
<td>$491,000</td>
<td>Dept. of Energy</td>
</tr>
<tr>
<td>Specht, James</td>
<td>Agronomy and Horticulture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comfort, Steven</td>
<td>School of Natural Resources</td>
<td>Field-Scale Demonstrations of Innovative Remediation Techniques for Contaminated Soil and Water</td>
<td>$994,100</td>
<td>Environmental Protection Agency</td>
</tr>
<tr>
<td>Costello, Don</td>
<td>Computer Science and Engineering</td>
<td>GAANN Fellowships for Computer Science &amp; Engineering</td>
<td>$500,000</td>
<td>Dept. of Education</td>
</tr>
</tbody>
</table>

$200,000 — $999,999
Daly, Edward
School Psychology Leadership Specialization in Response-to-Intervention Research & Systems Change
$800,000
McCurdy, Merilee
Sheridan, Susan
Kunz, Gina

Educational Psychology
Dept. of Education
Educational Psychology
Educational Psychology
Educational Psychology

DiMaggio, Stephen
Hydrogen for Fuel Cells
$966,000
Takacs, James
Berkowitz, David

Chemistry
DOD-Office of Naval Research
Chemistry
Chemistry

$420,000

Dominquez, Aaron
* PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenoessische Technische Hochschule on Advanced Pixel Silicon Detectors for the CMS Detector
$406,500
Bloom, Kenneth

Physics and Astronomy
University of Kansas Center for Research
Physics and Astronomy


$690,000

Drijber, Rhae
* Developing Technologies to Improve Soil & Nutrient Management
$211,000

Agronomy and Horticulture
Dept. of Agriculture-ARS

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

Chemistry
NSF

Ducharme, Stephen
Nanostructure-Designed Dielectric Material for High-Energy-Density Capacitors
$586,000

Center for Materials and Nanoscience/Physics and Astronomy
DOD-DEPSCoR

Ferroelectric Polymer Langmuir-Blodgett Films for Nonvolatile Random-Access Memory Applications
$240,000

$200,000 — $999,999
Dwyer, Matthew  
Computer Science and Engineering  
Program Analysis Techniques to Support Dependable RTSJ Applications  
$207,519  
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, Yuris  
Engineering Mechanics  
Fundamentals of Fabrication of Nanofiber Assemblies by Electrospinning  
$372,000  
Farritor, Shane  
Mechanical Engineering  
Next Generation Super Carbon Fiber  
$317,127  
Hexcel Corporation  
Nanoengineered Interfaces  
$250,002  
NSF  
Modelling-Based Control of Electrospinning Process  
$275,000  
NSF  

Eccarius, Malinda  
Special Education and Communication Disorders  
Mountain Prairie Upgrade Partnership - Early Childhood  
$781,642  
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  

Elbaum, Sebastian  
Computer Science and Engineering  
ITR: Dependable End-User Software  
$253,573  
NSF  

Engen-Wedin, Nancy  
Teaching, Learning and Teacher Education  
Indigenous Roots Teacher Education Program  
$704,730  
McGowan, Thomas  
Teaching, Learning and Teacher Education  

$200,000 — $999,999
Epstein, Michael  
**Special Education and Communication and Disorders**
Leadership Training in Emotional Disturbance Disorders  
$590,854  
Dept. of Education

Randomized Clinical Trial of Wraparound Services for Elementary School Students in School Settings  
$538,266  
Dept. of Education

Fabrikant, Ilya  
**Physics and Astronomy**
Collision Processes Involving Low-Energy Electrons  
$215,000  
NSF

* Electron-Molecule Collisions in Different Environments  
$240,000  
NSF

Faller, Ronald  
**Civil Engineering**
Development of a New Precast Concrete Bridge Railing System (2006-2008)  
$229,820  
Nebraska Dept. of Roads
Bielenberg, Robert  
Civil Engineering
Reid, John  
Mechanical Engineering
Tadros, Maher  
Civil Engineering

* Development of an Economical Guardrail System for Use on Gabion Walls  
$250,000  
Dept. of Transportation-FHWA
Sicking, Dean  
Midwest Roadside Safety
Rohde, John  
Midwest Roadside Safety
Reid, John  
Mechanical Engineering

Foley, Brett  
**Educational Psychology**
Consulting Services/Assist Oklahoma Commission for Teacher Preparation  
$452,064  
Oklahoma Office of Public Affairs

* Conducting Validity Studies for South Dakota Department of Education  
$327,630  
South Dakota Dept. of Education
Geisinger, Kurt  
Educational Psychology

Franco, Juan  
**Vice Chancellor for Student Affairs**
NU Directions: Program to Reduce High-Risk Drinking  
$468,000  
Robert Wood Johnson Foundation
Major, Linda  
Student Affairs

Gardner, Scott  
**University of Nebraska State Museum/Biological Sciences**
* Mongolia Vertebrate Parasite Project  
$619,991  
NSF
Jimenez-Ruiz, Francisco  
University of Nebraska State Museum

* Enabling Access to Priority Taxa for Biodiversity Studies in the Manter Laboratory of Parasitology  
$484,647  
NSF
Gay, Timothy  
* Polarized Electron and Photon Physics  
Physics and Astronomy  
$370,000  
NSF

Gibson, Robert  
GAANN  
Fellowship for Ecology, Evolution & Behavior at UNL  
Biological Sciences  
$625,000  
Dept. of Education

Gitelson, Anatoly  
Land Cover Land Use Change Effects on Surface  
Water Quality: Integrated MODIS & SeaWiFS Assessment of Dnieper & Don River Basins  
School of Natural Resources  
$597,799  
NASA

Glover, Todd  
Center on Children, Youth, Families and Schools  
Establish a State-Wide Response-to-Intervention Consortium for Training & Evaluation  
$309,500  
Nebraska Dept. of Education

Daly, Edward  
Center on Children, Youth, Families and Schools/Educational Psychology  
$625,000  
Dept. of Education

McCurdy, Merilee  
Center on Children, Youth, Families and Schools/Educational Psychology  
$309,500  
Dept. of Education

Gitelson, Anatoly  
Land Cover Land Use Change Effects on Surface  
Water Quality: Integrated MODIS & SeaWiFS Assessment of Dnieper & Don River Basins  
School of Natural Resources  
$597,799  
NASA

Glover, Todd  
Center on Children, Youth, Families and Schools  
Establish a State-Wide Response-to-Intervention Consortium for Training & Evaluation  
$309,500  
Nebraska Dept. of Education

Daly, Edward  
Center on Children, Youth, Families and Schools/Educational Psychology  
$625,000  
Dept. of Education

McCurdy, Merilee  
Center on Children, Youth, Families and Schools/Educational Psychology  
$309,500  
Dept. of Education

Goedert, James  
Construction Systems  
Rebuilding New Orleans  
$293,660  
Dept. of Housing and Urban Development

Bernstein, Stuart  
Construction Systems  
$293,660  
Dept. of Housing and Urban Development

Holmes, William  
Construction Systems  
$293,660  
Dept. of Housing and Urban Development

Morcous, George  
Construction Systems  
$293,660  
Dept. of Housing and Urban Development

Schwer, Avery  
Construction Systems  
$293,660  
Dept. of Housing and Urban Development

Goodman, Richard  
Food Science and Technology  
Assessing the Potential Allergenicity of Proteins Introduced by Genetic Engineering  
$450,000  
Environmental Protection Agency

Chen, LingYun  
Food Science and Technology  
$450,000  
Environmental Protection Agency

Schlegel, Vicki  
Food Science and Technology  
$450,000  
Environmental Protection Agency

Taylor, Stephen  
Food Science and Technology  
$450,000  
Environmental Protection Agency

Gosselin, David  
Earth Science Institute for Elementary Educators  
$356,094  
NASA

Bonnstetter, Ronald  
Teaching, Learning and Teacher Education  
$540,345  
Toyota USA Foundation

Bonnstetter, Ronald  
Teaching, Learning and Teacher Education  
$540,345  
Toyota USA Foundation

Strand, Billie  
Extended Education and Outreach  
$540,345  
Toyota USA Foundation

$200,000 — $999,999
<table>
<thead>
<tr>
<th>Name</th>
<th>Department/Initiative</th>
<th>Research Description</th>
<th>Funding</th>
<th>Agency/Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graef, George</td>
<td>Agronomy and Horticulture</td>
<td>Sclerotinia Resistance Enhanced by Accumulation of QTL Transgenic Approaches</td>
<td>$371,120</td>
<td>Dept. of Agriculture-ARS</td>
</tr>
<tr>
<td>Clemente, Thomas</td>
<td>Agronomy and Horticulture</td>
<td></td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>Steadman, James</td>
<td>Plant Pathology</td>
<td></td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>Greve, Vickie</td>
<td>Northeast Research and Extension Center</td>
<td>Communities Together Can</td>
<td>$657,000</td>
<td>Dept. of Agriculture-CSREES</td>
</tr>
<tr>
<td>Swanson, Douglas</td>
<td>Cooperative Extension</td>
<td></td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>Hage, David</td>
<td>Chemistry</td>
<td>Chromatographic Automation of Immunoassays</td>
<td>$946,982</td>
<td>DHHS-NIH-NIGMS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Chromatographic Studies of Functional Proteomics</td>
<td>$763,414</td>
<td>DHHS-NIH-NIDDK</td>
</tr>
<tr>
<td>Harnisch, Delwyn</td>
<td>Teaching, Learning and Teacher Education</td>
<td>Nebraska Assessment Cohorts (NAC05/06) &amp; Nebraska Leadership for Learning Cohorts</td>
<td>$200,000</td>
<td>Nebraska Dept. of Education</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(NLL05/06)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harris, Steven</td>
<td>Plant Science Initiative/Plant Pathology</td>
<td>Autophagy in Fungal Hyphae: Functional Genomic &amp; Mechanical Strength Studies</td>
<td>$308,035</td>
<td>University of Maryland-Baltimore</td>
</tr>
<tr>
<td>Harshman, Lawrence</td>
<td>Biological Sciences</td>
<td>Comparative Functional Genomics of Drosophila Obesity</td>
<td>$516,548</td>
<td>Cornell University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Molecular Evolution of Genes Expressed in D. melanogaster Sperm Storage Structures</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Genome Biology of Innate Immunity: Genetic Dissection of Drosophila melanogaster</td>
<td>$289,213</td>
<td>NSF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Responses to Bacillus Infection</td>
<td></td>
<td>Plant Science Initiative</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Benson, Andrew</td>
<td>$452,163</td>
<td>DOD-DEPSCoR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kachman, Stephen</td>
<td></td>
<td>Food Science and Technology</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Statistics</td>
</tr>
<tr>
<td>Harvey, F. Edwin</td>
<td>School of Natural Resources</td>
<td>* Habitat Conservation Plan for the Salt Creek Tiger Beetle</td>
<td>$380,000</td>
<td>Nebraska Game and Parks Commission</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and the Eastern Saline Wetlands of Nebraska</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hay, Delynn</td>
<td>IANR-Cooperative Ext</td>
<td>North Central Region Sustainable Agriculture Professional Development Program—FY 2005</td>
<td>$910,283</td>
<td>Dept. of Agriculture-CSREES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Transitioning the Drought Impact</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reporter into an Operational System</td>
<td>$310,137</td>
<td>Dept. of Commerce-NOAA-NCTP</td>
</tr>
<tr>
<td>Hayes, Michael</td>
<td>School of Natural Resources</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Hebets, Eileen  Biological Sciences
Searle Scholar: Exploring Neural Basis of Complex Behavior in Amblypygids
$240,000  Chicago Community Trust/Searle Scholar

Henry, Christopher  Biological Systems Engineering
Livestock Producer Environmental Assistance Project
$600,000  Nebraska Environmental Trust

Development of Alternative Technologies for Small Livestock Producers
$221,881  Nebraska 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
$939,806  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
* Fremont Lake #20 Alum Treatment Evaluation Project
$201,700  Nebraska Dept. of Environmental Quality
Barrow, Tadd  School of Natural Resources
Hoagland, Kyle  School of Natural Resources
Holz, Aris  School of Natural Resources
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

* Transition of Weather & Climate Forecasts into Effective Decision-Making Tools

Hubbard, Kenneth  
School of Natural Resources  
$293,732  
Dept. of Commerce-NOAA

Lynne, Gary  
Agricultural Economics  
Pytlik Zillig, Lisa  
Educational Psychology  
Bruning, Roger  
Educational Psychology

Hunt, Robert  
University of Nebraska State Museum  
Renovation & Computerization of University of Nebraska Vertebrate Paleontology Collection  
$498,368  
NSF

Voorhies, Michael  
University of Nebraska State Museum

Hudgins, Jerry  
Electrical Engineering  
* Development of System Level Modeling & Simulation Capability for SiC Power Semiconductor Devices  
$246,935  
University of South Carolina

Hutkins, Robert  
Food Science and Technology  
Food Safety: Life-Long Learning through Teacher Training  
$400,000  
Dept. of Agriculture-NRICGP

Durso, Lisa  
Food Science and Technology  
Rupnow, John  
Food Science and Technology  
Thippareddi, Harshavardhan  
Food Science and Technology  
Whipple, Georgianna  
Food Science and Technology

Hygnstrom, Scott  
School of Natural Resources  
Development of Spatially Explicit Models of Wildlife Diseases  
$450,930  
Dept. of Agriculture-APHIS

Ianno, Natale  
Electrical Engineering  
Nano-Material Science  
$531,500  
NSF-EPSCoR

Turner, Joseph  
Engineering Mechanics

Irmak, Suat  
Biological Systems Engineering  
* Measurement of Growing Season Actual Crop Evapotranspiration and Crop Coefficients, and Dormant Season Evaporative Losses for Key Vegetation Surfaces in the Central Platte Natural Resources District  
$492,564  
Central Platte NRD

Irmak, Ayse  
Biological Systems Engineering  
Martin, Derrel  
Biological Systems Engineering  
van Donk, Simon  
Biological Systems Engineering  
Verma, Shashi  
School of Natural Resources

Jameson, Mary Liz  
University of Nebraska State Museum  
Monography & Phylogeny of New World Scarabaeoid Beetles  
$755,300  
NSF

Ratcliffe, Brett  
Entomology

$200,000 — $999,999
Jiang, Hong  Computer Science and Engineering  
SAM^2 Toolkit: Scalable & Adaptive Metadata Management for High-End Computing  
$602,326  NSF  
Wang, Jun  Computer Science and Engineering  

Jones, Clinton  Veterinary and Biomedical Sciences  
Functional Analysis of biCPO  
$349,500  Dept. of Agriculture-NRICGP  
Zhang, Yange  Veterinary and Biomedical Sciences  
Functional Analysis of Proteins Encoded by the Bovine Herpesvirus 1 Latency Related Gene  
$374,475  Dept. of Agriculture-CSREES  
* Does HSV-1 Latency Associated Transcript (LAT) Encode a Protein?  
$405,625  DHHS-NIH-NIAID  

Jones, Elizabeth  Civil Engineering  
ITS Resource, Research & Educational Activities at Peter Kiewit Institute  
$921,414  Nebraska Dept. of Roads  

Jones, Erick  Industrial and Management Systems Engineering  
Center for Engineering Logistics and Distribution at UNL  
$256,000  NSF  

Jose, H. Douglas  Agricultural Economics  
Trade Adjustment Assistance Program  
$705,000  Dept. of Agriculture-RMA  

Josiah, Scott  Nebraska State Forest Service  
Community Enhancement Program  
$350,000  Nebraska Dept. of Roads  

Kelling, Clayton  Veterinary and Biomedical Sciences  
Role of Nonstructural Proteins in Pestivirus Virion Assembly  
$289,116  DHHS-NIH-NIAID  

Kennedy, Patricia  Marketing  
Socially Constituted Food Consumption of Adolescents  
$350,000  Dept. of Agriculture-CSREES  
McGarvey, Mary  Economics  
Stanek-Krogstrand, Kaye  Nutrition and Health Sciences  

Keown, Jeff  Animal Science  
Trilateral Curriculum Modification & Rural Community Information Delivery  
$209,157  Dept. of Education-FIPSE  

$200,000 — $999,999
Kim, Yong Rak  
Civil Engineering  
Material Selection & Design Consideration for Moisture Damage of Asphalt Pavement  
$225,527  
Azizinamini, Atorod  
Civil Engineering  
$350,000  
* Asphalt Research Consortium  
Allen, David  
Engineering Mechanics  
$226,106  
* Layer Moduli of Nebraska Pavements for the New Mechanistic-Empirical Pavement Design Guide (MEPDG)  

Knutson, Cody  
School of Natural Resources  
* Development of a Drought Decision Support Portal for the Republican River Basin of Colorado, Nebraska & Kansas  
$233,524  
Svoboda, Mark  
School of Natural Resources  
$338,650  
Wortmann, Charles  
Agronomy and Horticulture  

Koelsch, Richard  
Biological Systems Engineering  
Heartland Integrated Water Quality Coordination Initiative  
$338,650  
Iowa State University  

Kostelnik, Marjorie  
Education and Human Sciences  
Osher Lifelong Learning Institute  
$400,000  
Eversoll, Deanna  
Education and Human Sciences  
$594,226  
Aguilar, Deanna  
Education and Human Sciences  

Krull, Dean  
Agronomy and Horticulture  
Managing Irrigation Systems Today & Tomorrow  
$416,000  
Benham, Brian  
Agronomy and Horticulture  
$203,353  
Ferguson, Richard  
Agronomy and Horticulture  

Lackey, Susan  
School of Natural Resources  
* Eastern Nebraska Water Resources Assessment LPNRD  
$203,353  
Ayers, Jerry  
School of Natural Resources  
$201,500  
Hanson, Paul  
School of Natural Resources  
$201,500  
Joeckel, Robert  
School of Natural Resources  

Ledder, Glenn  
Mathematics  
UBM: Research for Undergraduates in Theoretical Ecology (RUTE)  
$905,000  
Deng, Bo  
Mathematics  
$905,000  
Gibson, Robert  
Biological Sciences  
$905,000  
Loladze, Irakli  
Mathematics  
$905,000  
Louda, Svata  
Biological Sciences  
$905,000  

$200,000 — $999,999
Lee, Kevin  Physics and Astronomy  
ClassAction: Model Rapid-Feedback & Dynam Formative Assess System  
$359,768  NSF

Schmidt, Edward  Physics and Astronomy  
Development of Interactive Simulation Environments for Inquiry Astronomy Teaching  
$336,572  NSF

Leslie-Pelecky, Diandra  Physics and Astronomy  
Magnetic Properties of Disordered Rare-Earth Nanostructures  
$420,000  NSF

Shield, Jeff  Mechanical Engineering  
Magnetic Cluster States in Nanostructured Materials  
$450,000  Dept. of Energy-EPSCoR

Lindquist, John  Agronomy and Horticulture  
Contribution of Fusarium lateritium to Weed Suppressive Soils & Weed Abundance  
$366,186  Dept. of Agriculture-NRICGP

Drijber, Rhae  Agronomy and Horticulture  
Yuen, Gary  Plant Pathology

Liou, Sy-Hwang  Physics and Astronomy  
Nanometer-Size Magnetic Devices  
$236,000  DOD-DEPSCoR

Liu, Mingsheng  Architectural Engineering  
CC at Mutual of Omaha - Phase III  
$210,319  Omaha Public Power District

Lodl, Kathleen  4-H State Office  
* Health Rocks-Healthy Life Curricula Development  
$250,700  National 4-H Council

Birnstihl, Elizabeth  Cooperative Extension
Fox, Marilyn  Southeast Research and Extension Center

Louda, Svata  Biological Sciences  
Single vs. Multiple Insect Herbivore Guild Interactions in Canada Thistle Dynamics  
$408,760  Dept. of Agriculture-NRICGP

Insect Herbivore Guild Interactions & Tall Thistle Population Dynamics  
$369,999  NSF

$200,000 – $999,999
Lu, Yongfeng  Electrical Engineering  
Laser-Assisted Fabrication of Large-Scale 3-D Photonic Bandgap Structures  
$350,000  DOD-DEPSCoR  
Magnetic Confinement of Plasmas in Laser-Induced Breakdown Spectroscopy for Improved Sensitivity & Accuracy  
$249,306  Dept. of Energy  
Self-Integration of Carbon-Nanotube Sensors in Functional Integrated Circuits  
$240,000  NSF  
Laser-Assisted Fabrication of Large-Scale 3-D Photonic Bandgap Structures  
$350,000  DOD-DEPSCoR  
Magnetic Confinement of Plasmas in Laser-Induced Breakdown Spectroscopy for Improved Sensitivity & Accuracy  
$249,306  Dept. of Energy  
Self-Integration of Carbon-Nanotube Sensors in Functional Integrated Circuits  
$240,000  NSF  
Magnetic Confinement of Plasmas in Laser-Induced Breakdown Spectroscopy for Improved Sensitivity & Accuracy  
$249,306  Dept. of Energy  
Self-Integration of Carbon-Nanotube Sensors in Functional Integrated Circuits  
$240,000  NSF  
Magnetic Confinement of Plasmas in Laser-Induced Breakdown Spectroscopy for Improved Sensitivity & Accuracy  
$249,306  Dept. of Energy  
Self-Integration of Carbon-Nanotube Sensors in Functional Integrated Circuits  
$240,000  NSF  
Alexander, Dennis  Electrical Engineering  
Ducharme, Stephen  Physics and Astronomy  
* Tunable Photonic Bandgap Crystals with Integrated Functionalities  
$330,000  DOD-Air Force Office of Scientific Research  
* Near-Field-Controlled Nanoscale Coating of Functional Thin Films for Nanodevices  
$240,000  NSF  
* Wavelength-Tunable Laser for Resonant Energy Coupling in Multi-Energy Processing  
$223,566  DOD-Office of Naval Research-DURIP  
Mackenzie, Sally  Plant Science Initiative  
Machinery of Mitochondrial Recombination in Higher Plants  
$494,080  NSF  
Christensen, Alan  Biological Sciences  
Nuclear-Organellar Interactions Involving AtMSH1 in Arabidopsis  
$500,000  Dept. of Energy  
Strategy for the Transgenic Induction of Cytoplasmic Male Sterility in Crop Plants  
$466,608  Dept. of Agriculture-BRDC  
Training Graduate Students in Plant Breeding using Crop Drought Tolerance Improvement as a Model  
$599,999  Dept. of Agriculture-NRICGP  
Fromm, Michael  Plant Science Initiative  
Pollution & Economic Decision Support Tool for Impaired Watershed Management Plans in Eastern Nebraska  
$335,000  Dept. of Agriculture-CSREES  
Helmers, Glenn  Agricultural Economics  
Ginting, Daniel  Agronomy and Horticulture  
Wortman, Charles  Agronomy and Horticulture
Martin, Derrel  Biological Systems Engineering
Modeling and Field Experimentation to Determine
Effects of Land Terracing-Republican River Basin (CESU)
$468,667  Dept. of Interior-BR

McNulty, Lawrence  Education Administration
* Eurasia/South Asia TEA Program 2007
$379,187  International Research and Exchanges

McQuillan, Julia  Sociology
Infertility: Pathways & Psychosocial Outcomes
$426,907  Pennsylvania State University

Meagher, Michael  Chemical and Biomolecular Engineering
Optimization of Phytase Production in Pichia Pastoris
$372,874  Syngenta
Chemical and Biomolecular Engineering

Melvin, Steven  West Central Research and Extension Center
* Irrigation Management with Limited Water:
  A Farm Education Program
$287,080  Dept. of Interior-BR

Corr, Alan  West Central Research and Extension Center
van Donk, Simon  West Central Research and Extension Center

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

* Functional Map of Tomato Genome using
  Direct Repeat Induced Gene Silencing
$301,000  Dept. of Agriculture-NRICGP

Moriyama, Etsuko  Plant Science Initiative/Biological Sciences
* Efficient and Sensitive Mining System for
  G-Protein Coupled Receptors
$591,300  DHHS-NIH-NLM

* Large-Scale Simultaneous Multiple
  Alignment & Phylogeny Estimation
$223,215  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

$200,000 — $999,999
Moxley, Rodney  Veterinary and Biomedical Sciences  
Influence of Enterotoxins on Virulence and Colonization of Porcine Intestine by E.coli  
$270,000  Dept. of Agriculture-NRICGP

Nelson, J. Ron  Special Education and Communication Disorders  
*Effects of a Supplementary Vocabulary Intervention for Students with Limited English Proficiency  
$694,884  Dept. of Education

Nickerson, H. Doak  Nebraska State Forest Service  
Restoring the Pine Ridge Forest Ecosystem  
$300,000  Nebraska 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

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

*Assembling the Euteleost Tree of Life - Addressing the Major Unresolved Problem in Vertebrate Phylogeny  
$602,956  NSF

Li, Chenhong  Biological Sciences

Diamond, Judy  University of Nebraska State Museum

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

$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

* GAANN in Engineering & Assistive Technology  
$383,643  Dept. of Education

Adams, Stephanie  Industrial and Management Systems Engineering

Henze, Gregor  Architectural Engineering

Goddard, Stephen  Computer Science and Engineering
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Project Title</th>
<th>Funding Agency</th>
<th>Amount</th>
<th>Principal Investigator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pilson, Diana</td>
<td>Biological Sciences</td>
<td>Transgenic Virus Resistant Squash: Ecological Effect</td>
<td>Dept. of Agriculture-CSREES</td>
<td>$314,877</td>
<td>Morris, T. Jack</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Platt, Stephen</td>
<td>Mechanical Engineering</td>
<td>In Vivo Robotic Camera System for Laparoscopic Surgery</td>
<td>DHHS-NIH-NIBIB</td>
<td>$389,358</td>
<td>Farritor, Shane</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pope, Kevin</td>
<td>School of Natural Resources</td>
<td>Recruitment of Walleye and White Bass in Irrigation Reservoirs</td>
<td>Nebraska Game and Parks Commission</td>
<td>$397,628</td>
<td>Allen, Craig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powell, Larkin</td>
<td>School of Natural Resources</td>
<td>* Assessing Local &amp; Regional Variability in Productivity &amp; Fidelity of Grassland Birds on National Park Service Units in the Great Plains</td>
<td>Dept of Interior-GS</td>
<td>$212,122</td>
<td>Rajurkar, Kamlak</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rajca, Andrzej</td>
<td>Chemistry</td>
<td>Stable High-Spin Polyradicals &amp; Chiral Pi-Conjugated Systems</td>
<td>NSF</td>
<td>$570,715</td>
<td>Farritor, Shane</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rajurkar, Kamlak</td>
<td>Industrial and Management Systems Engineering</td>
<td>Analysis &amp; Gap Monitoring for Improving Micro EDM Performance-Supplement</td>
<td>NSF</td>
<td>$202,500</td>
<td>Pope, Kevin</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ramamurthy, Byrav</td>
<td>Computer Science and Engineering</td>
<td>Secure Group Communication over Wired &amp; Wireless Networks</td>
<td>NSF</td>
<td>$349,990</td>
<td>Rajurkar, Kamlak</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ratcliffe, Brett</td>
<td>University of Nebraska State Museum/Entomology</td>
<td>* Faunistic Survey of Dynastinae of Mexico, Guatemala, &amp; Belize</td>
<td>NSF</td>
<td>$481,493</td>
<td>Allen, Craig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reidenpenning, Jody</td>
<td>Center for Materials and Nanoscience</td>
<td>Chemically Modified Nano-Electrodes for Magnetoelectronics Applications</td>
<td>NSF</td>
<td>$390,000</td>
<td>Redepenning, Jody</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reichenbach, Brett</td>
<td>Computer Science and Engineering</td>
<td>SEI: Information Modeling for Comparative Visualizations &amp; Analyses</td>
<td>NSF</td>
<td>$389,228</td>
<td>Ramamurthy, Byrav</td>
</tr>
</tbody>
</table>
Reid, John  
Mechanical Engineering
Investigating the Use of Small Diameter Softwood as Guardrail Posts
$280,000  
Dept. of Agriculture-FS
Faller, Ronald  
Civil Engineering
$545,000  
Nebraska Dept. of Roads
Sicking, Dean  
Midwest Roadside Safety
Rhode, John  
Midwest Roadside Safety
Faller, Ron  
Midwest Roadside Safety

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

Faller, Ronald  
Civil Engineering
Investigating the Use of Small Diameter Softwood as Guardrail Posts
$280,000  
Dept. of Agriculture-FS
Jones, Elizabeth  
Civil Engineering
$545,000  
Nebraska Dept. of Roads
Sicking, Dean  
Midwest Roadside Safety
Rhode, John  
Midwest Roadside Safety
Faller, Ron  
Midwest Roadside Safety

Rilett, Laurence  
Civil Engineering
Development of State of the Art Traffic Micro-Simulation Model for Nebraska
$222,896  
Nebraska Dept. of Roads
Jones, Elizabeth  
Civil Engineering
$831,942  
Nebraska Dept. of Roads
Jones, Elizabeth  
Civil Engineering
Khattak, Aemal  
Civil Engineering

Robertson, Brian  
Center for Materials and Nanoscience
* Spintronic Devices Enabled by Semiconducting Boron Carbide
$299,998  
NSF
Adenwalla, Shireen  
Center for Materials and Nanoscience
Dowben, Peter  
Center for Materials and Nanoscience

Rothermel, Laurence  
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

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
$601,816  
NSF
Chen, Xun-Hong  
School of Natural Resources
Soh, Leen-Kiat  
Computer Science and Engineering
Tomkins, Alan  
Public Policy Center
Zellmer, Sandra  
College of Law

* Spintronic Devices Enabled by Semiconducting Boron Carbide

ITR: Dependable End-User Software
$439,593  
Oregon State University

Reid, John  
Mechanical Engineering
Investigating the Use of Small Diameter Softwood as Guardrail Posts
$280,000  
Dept. of Agriculture-FS
Faller, Ronald  
Civil Engineering
$545,000  
Nebraska Dept. of Roads
Sicking, Dean  
Midwest Roadside Safety
Rhode, John  
Midwest Roadside Safety
Faller, Ron  
Midwest Roadside Safety

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

Faller, Ronald  
Civil Engineering
Investigating the Use of Small Diameter Softwood as Guardrail Posts
$280,000  
Dept. of Agriculture-FS
Jones, Elizabeth  
Civil Engineering
$545,000  
Nebraska Dept. of Roads
Sicking, Dean  
Midwest Roadside Safety
Rhode, John  
Midwest Roadside Safety
Faller, Ron  
Midwest Roadside Safety

Rilett, Laurence  
Civil Engineering
Development of State of the Art Traffic Micro-Simulation Model for Nebraska
$222,896  
Nebraska Dept. of Roads
Jones, Elizabeth  
Civil Engineering
$831,942  
Nebraska Dept. of Roads
Jones, Elizabeth  
Civil Engineering
Khattak, Aemal  
Civil Engineering

Robertson, Brian  
Center for Materials and Nanoscience
* Spintronic Devices Enabled by Semiconducting Boron Carbide
$299,998  
NSF
Adenwalla, Shireen  
Center for Materials and Nanoscience
Dowben, Peter  
Center for Materials and Nanoscience

Rothermel, Laurence  
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

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
$601,816  
NSF
Chen, Xun-Hong  
School of Natural Resources
Soh, Leen-Kiat  
Computer Science and Engineering
Tomkins, Alan  
Public Policy Center
Zellmer, Sandra  
College of Law

* Spintronic Devices Enabled by Semiconducting Boron Carbide

ITR: Dependable End-User Software
$439,593  
Oregon State University
Saraf, Ravi  Chemical and Biomolecular Engineering
Nanodevice for Imaging Normal Stress Distribution with Application in Sensing Texture and Feel by Touching
$332,156  NSF

Scalora, Mario  Psychology
* Threat Assessment
$509,111  ManTech International Corporation
Bulling, Denise  Public Policy Center

Schacht, Walter  Agronomy and Horticulture
Grasslands Ecological Monitoring System
$608,880  Dept. of Agriculture-RMA-FCIC

Scheel, Joan  Food Science and Technology
Development, Coordination & Delivery of Information on Food Defense to Small & Medium Food Manufacturers
$291,123  Dept. of Commerce-NIST

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
Sanger, Dixie  Special Education and Communication Disorders

Project Re-entry: Preparing Speech-Language Pathologists to Serve Students with Traumatic Brain Injury
$800,000  Dept. of Education
Hux, Karen  Special Education and Communication Disorders

Sellmyer, David  Physics and Astronomy/Center for Materials and Nanoscience
* Studies of Artificially Structured Composite Magnets
$381,000  Dept. of Energy

Belashchenko, Kirill  Physics and Astronomy
Tsymbal, Evgeny  Physics and Astronomy

Shank, Nancy  Public Policy Center
* HIT Regional Health Records Implementation & Evaluation
$402,186  Rural Nebraska Healthcare Network

$200,000 — $999,999
Shapiro, Charles
Northwest Research and Extension Center
Improving Organic Farming Systems across Nebraska Agroecosystems

$762,949
Dept. of Agriculture-CSREES

Baltenperger, David
Panhandle Research and Extension Center

$999,999
School of Natural Resources

Brandle, James
Agronomy/Horticulture

Francis, Charles
Northeast Research and Extension Center

Knezevic, Stevan Entomology

Wright, Robert
School of Natural Resources

Johnson, Ron

Shea, Patrick
School of Natural Resources
Targeting Watershed Vulnerability & Behaviors Leading to Adoption of Conservation Management Practices

$570,000
Dept. of Agriculture-CSREES

Burbach, Mark
School of Natural Resources

Lynne, Gary
Agricultural Economics

Martin, Alexander
Agronomy and Horticulture

Milner, Maribeth
Agronomy and Horticulture

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

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

$634,521
National Cooperative Highway Research Program

Khattak, Aemal
Civil Engineering

Jones, Elizabeth
Civil Engineering

Siegfried, Blair
Entomology
Quantifying Risk Factors for Evolution of European Corn Borer Resistance to Cry1F Expressing Corn Hybrids

$346,845
Dept. of Agriculture-CSREES

* Evaluating Bioactivity of Insecticidal Proteins against European Corn Borer (Lepidoptera: Crambidae)

$220,000
Pioneer Hi-Bred

Simpson, Melanie
Biochemistry
Role of Hyaluronan in Prostate Cancer Progression

$326,250
DOD-Army Medical Research
Smith, Andrew  University of Nebraska State Museum  
Scarab Biodiversity of Southern South America  
$300,000  NSF  
Ocampo, Federico  University of Nebraska State Museum

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  
Hinkley, Susanne  Veterinary and Biomedical Sciences  
Klopfenstein, Terry  Animal Science  
Moxley, Rodney  Veterinary and Biomedical Sciences  

Efficacy of Two & Three Doses of an Experimental Escherichia coli Bacterial Extract  
$345,715  Bioniche Life Sciences  
Erickson, Galen  Animal Science  
Klopfenstein, Terry  Animal Science  
Moxley, Rodney  Veterinary and Biomedical Sciences  

Snow, Daniel  School of Natural Resources  
* Effects of Cattle Manure Handling & Management Strategies on Fate & Transport of Hormones  
$699,607  Environmental Protection Agency  
Bartelt-Hunt, Shannon  Civil Engineering  
Zhang, Tian  Civil Engineering  
Kranz, William  Northeast Research and Extension Center  
Mader, Terry  Northeast Research and Extension Center  
Shapiro, Charles  Northeast Research and Extension Center  
Shelton, David  Northeast Research and Extension Center  

Snow, Gregory  Physics and Astronomy  
GAANN Fellowships for Physics at UNL  
$381,225  Dept. of Education  

Soh, Leen-Kiat  Computer Science and Engineering  
* iLOG: Embedding & Validating Empirical Usage Intelligence in Learning Objects  
$397,705  NSF  
Samal, Ashok  Computer Science and Engineering  
Nugent, Gwen  Center on Children, Youth, Families and Schools  

Somerville, Greg  Veterinary and Biomedical Sciences  
Environmental Regulation of Staphylococcus epidermidis PIA Synthesis  
$361,679  DHHS-NIH-NIGMS  

Soukup, Rodney  Electrical Engineering  
* A Novel Variable Wide Bandgap Material for High Power, High Frequency Devices  
$368,008  DOD-DEPSCoR  
Hudgins, Jerry  Electrical Engineering  
Ianno, Natale  Electrical Engineering  

$200,000 — $999,999
Spalding, Roy  Agronomy and Horticulture  
* Effectiveness of Irrigated Crop Management Practices in Reducing Groundwater Nitrate Contamination  
$630,768  Dept. of Agriculture-CSREES 
Ferguson, Richard  Agronomy and Horticulture  
Marx, David  Statistics  
Spalding, Mary  School of Natural Resources

Spaulding, William  Psychology  
* Decision Science in Rehabilitation  
$877,652  DHHS-NIH-NIMH 
Garbin, Calvin  Psychology  

Specht, James  Agronomy and Horticulture  
Genetic Mapping & Application of SNP DNA Markers in Soybean  
$329,391  Dept. of Agriculture-ARS  

Spreitzer, Robert  Biochemistry  
Role of the Rubisco Small Subunit  
$871,500  Dept. of Energy 

Rubisco Phylogenetic Engineering  
$202,383  Dept. of Agriculture-NRICGP

Srissa-an, Witawas  Computer Science and Engineering  
Building Scalable & Adaptive Garbage Collector for Server Systems  
$281,000  NSF  
Elbaum, Sebastian  Computer Science and Engineering  

* CSR-PDOS: Memory Efficient Garbage Collection Framework for Java Server Applications  
$ 300,000  NSF

Starace, Anthony  Physics and Astronomy  
Strong Field & Ultrafast Atomic and Molecular Processes  
$250,000  NSF  

Steadman, James  Plant Pathology  
Bean/Cowpea Collaborative Research Support Program  
$427,468  Michigan State University  

Resistance Improvement of Bean thru Multi-Site Screening & Pathogen Characterization  
$204,650  Dept. of Agriculture-ARS

Steffen, David  Veterinary and Biomedical Sciences  
Johne’s Disease Testing  
$208,000  Nebraska Dept. of Agriculture
Stentz, Terry  
Human Factors in Railway Operation  
$301,250  
Dept. of Transportation-FRA

Jones, Elizabeth  
Civil Engineering  
Rilett, Laurence  
Civil Engineering  
Khattak, Aemal  
Civil Engineering  
Riley, Michael  
Industrial and Management Systems Engineering  
Jones, Erick  
Industrial and Management Systems Engineering

Analytic Study of Acute Extremity Lacerations in Meat Packing  
$293,690  
Harvard School of Public Health

Stockton, Matthew  
West Central Research and Extension Center  
* Whole-Farm Economic Biological Stochastic Simulation Model of Small to Medium Cow-calf Firms with Research, Teaching and Extension Modules  
$499,740  
Dept. of Agriculture-NRICGP

Stone, Julie  
Plant Science Initiative/Biochemistry  
Role of Transcriptional Regulator in Programmed Cell Death & Plant Development  
$354,000  
Dept. of Energy

Storz, Jay  
Biological Sciences  
Test of Adaptive Divergence across Altitudinal Gradients: Population Genomics of Deer Mice  
$492,000  
NSF

Stowell, Richard  
Biological Systems Engineering  
* Air Quality Extension & Education: Enhanced Learning Opportunities for Addressing Air Quality Issues in Animal Agriculture  
$498,562  
Dept. of Agriculture-NRICGP

Stubbendieck, James  
Great Plains Studies  
Farm Viability, Farmland Preservation and Smart Growth  
$308,000  
Dept. of Agriculture-NRICGP  
Esseks, J. Dixon  
Great Plains Studies

Subramanian, Anu  
Chemical and Biomolecular Engineering  
Prep Zirconia Aggregates/Adsorbents in Bioseparations  
$270,131  
NSF

* Biomimetic Nanofibrillar Scaffolds for Tissue Engineering  
$394,370  
DHHS-NIH-NIBIB  
Larsen, Gustavo  
Chemical and Biomolecular Engineering
Swanson, David  
Computer Science and Engineering  
US CMS Tier 2 Center  
$761,000  
Bloom, Kenneth  
Physics and Astronomy  
Dominguez, Aaron  
Physics and Astronomy  

MRI: Acquisition of Affordable Shared-Memory  
Computing & Scalable Storage for Scientists & Engineers  
$300,000  
NSF  

Bloom, Kenneth  
Physics and Astronomy  
Dominguez, Aaron  
Physics and Astronomy  

Tadros, Maher  
Civil Engineering  
Class C Fly Ash in Concrete Pavement  
$321,379  
Nebraska Dept. of Roads  

* Evaluation & Repair Procedures for Precast/Prestressed  
Concrete Girders w/Longitudinal Cracking in the Web  
$300,000  
National Cooperative Highway Research Program  
Tuan, Christopher  
Civil Engineering  

$508,000  
University of California-Los Angeles  

* US CMS Operations at the LHC  

Bloom, Kenneth  
Physics and Astronomy  

Takacs, James  
Chemistry  
Novel Cyclization Reactions for Organic Synthesis  
$422,500  
NSF  

Taylor, Steve  
Food Science and Technology  
Food Allergen Database  
$617,846  
Goodman, Richard  
Food Science and Technology  

Midwest Advanced Food Manufacturing Alliance  
$462,110  
Dept. of Agriculture-CSREES  

Allergenicity Evaluation of Isinglass  
$555,035  
Various Industries
Thippareddi, Harshavardhan  
Food Science and Technology  
Understanding and Controlling Listeria Monocytogenes Transmission through Ready-to-Eat Meat Products  
$222,270  
Colorado State University

HACCP Assistance for Small & Very Small Processors with Development & Validation of Safe Meat Chilling Processes  
$599,916  
Wang, Lijun  
Biological Systems Engineering  
Weller, Curtis  
Biological Systems Engineering  
Burson, Dennis  
Animal Science

$599,951  
Dept. of Agriculture-NRICGP  
Froning, Glenn  
Food Science and Technology  
Subbiah, Jeyamkondan  
Biological Systems Engineering

Thomas, Steven  
School of Natural Resources  
$307,189  
University of California-Riverside

Tiller, Dale  
Architectural Engineering  
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  
Child, Youth and Family Studies  
Evaluation of Promising Models and Delivery Approaches to Child Care Provider Training  
$484,658  
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  
Multiscale Modeling of Magnetic Nanocontacts  
$200,751  
Seagate Technology

Tyler, Kimberly  
Sociology  
* Social Networks, HIV Risk Behaviors & Homeless Youth  
$358,763  
DHHS-NIH-NIDA

Uiterwaal, Kees  
Physics and Astronomy  
Inside a Focused Laser Beam: Molecular Dynamics  
$447,001  
NSF

Umstadter, Donald  
Physics and Astronomy  
Ion Acceleration with High Intensity Lasers  
$401,277  
NSF

Laser Produced Coherent X-Ray Sources  
$420,000  
Dept. of Energy

$200,000 — $999,999
Van Etten, James  
Plant Pathology  
Center for Innovation in Membrane Protein Production  
$524,676  
Univ of California-San Francisco  
Dunigan, David  
Plant Pathology  

Varyiam, 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  
Dept. of Education  
Scheffler, Marilyn  
Special Education and Communication Disorders  

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

Viljoen, Hendrik  
Chemical and Biomolecular Engineering  
Vortex-Tube Based Thermocycler w/Intelligent Software  
$705,752  
DHHS-NIH-Nat Ctr Rsch Resources  
Gogos, George  
Mechanical Engineering  

Wagner, William  
Biological Sciences  
Communication of Direct Mating Benefits to Females  
$307,283  
NSF  

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  

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  
$276,002  
Supreme Court of Nebraska  

Weldon, Robert  
Biological Sciences  
Intracellular Targeting of HIV Gag Proteins  
$393,825  
DHHS-NIH-NIAID
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Project Title</th>
<th>Agency</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weller, Curtis</td>
<td>Biological Systems Engineering</td>
<td>Purification Process Influences on Structural &amp; Nutritional Function of Grain Sorghum</td>
<td>Dept. of Agriculture-NRICGP</td>
<td>$338,000</td>
</tr>
<tr>
<td>Carr, Timothy</td>
<td>Nutrition and Health Sciences</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schlegel, Vicki</td>
<td>Food Science and Technology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cuppett, Susan</td>
<td>Food Science and Technology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wang, Keum Taek</td>
<td>Industrial Ag Products Center</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wang, Lijun</td>
<td>Biological Systems Engineering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White, Brett</td>
<td>Animal Science</td>
<td>Transcriptional Regulation/Porcine GnRH Receptor Gene</td>
<td>Dept. of Agriculture-CSREES</td>
<td>$287,193</td>
</tr>
<tr>
<td>Wiegand, Roger</td>
<td>Mathematics</td>
<td>GAANN Fellowship Program: Mathematics at UNL</td>
<td>Dept. of Education</td>
<td>$635,375</td>
</tr>
<tr>
<td>Pitts, David</td>
<td>Mathematics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walker, Judy</td>
<td>Mathematics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walker, Mark</td>
<td>Mathematics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bellows, Laurie</td>
<td>Graduate Studies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wiener, Richard</td>
<td>Psychology</td>
<td>REU Site: Psychology and Law</td>
<td>NSF</td>
<td>$269,280</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jury Bias in Criminal Cases: Sexual Assault, Homicide and Generic Prejudice</td>
<td></td>
<td>$233,883</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Self-referencing, Social Identity &amp; Judgments of Sexual Harassment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NSF</td>
<td>$302,364</td>
</tr>
<tr>
<td>Wilhite, Donald</td>
<td>School of Natural Resources</td>
<td>Drought Monitoring, Planning &amp; Mitigation</td>
<td>Dept. of Agriculture-CSREES</td>
<td>$495,371</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mitigation &amp; Preparedness Technologies for the US</td>
<td>Dept. of Agriculture-CSREES</td>
<td>$589,996</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Estimating the Impacts of Complex Climatic Events:</td>
<td>Dept. of Commerce-NOAA</td>
<td>$300,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Drought in Colorado, Nebraska &amp; New Mexico</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Developing a Drought Preparedness Framework for Tribal Governments: Moving</td>
<td>Dept. of Interior-BIA</td>
<td>$609,539</td>
</tr>
<tr>
<td></td>
<td></td>
<td>from Crisis to Risk-Based Management</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Wilson, Brent  Mechanical Engineering
Development of Improved Product Performance through Optimization & Modeling of Engineering Materials Processing & Function
$588,028  Brenco/Amsted Industries
Turner, Joseph  Engineering Mechanics

Wilson Jr., Robert  Panhandle Research and Extension Center
Assessing the Long Term Viability of Roundup Ready Technology as a Foundation for Cropping Systems
$880,000  Monsanto Co.

Woldt, Wayne  Biological Systems Engineering
Advancing Onsite Wastewater Treatment in Nebraska
$259,742  Nebraska Dept. of Environmental Quality
Skipton, Sharon  Southeast Research and Extension Center

Wood, Charles  Biological Sciences
AIDS and Cancer Specimen Bank
$383,601  George Washington University

* Research and Training on HIV/AIDS Neuropathogenesis in Zambia
$273,363  DHHS-NIH-NIMH

* Vaccination against Mucosal HIV Clade C Transmission
$251,710  Dana-Farber Cancer Institute

Woodward, Gordon  Mathematics
Increasing Participation in Computer Science, Engineering, & Mathematics through NSF Scholarships at UNL
$400,000  NSF
Ballard, John  Engineering
Ramamurthy, Byrav  Computer Science and Engineering
Goddard, Steve  Computer Science and Engineering
Lee, Kevin  Arts & Sciences

Nebraska REU in Applied Mathematics
$251,823  NSF
Rebarber, Richard  Mathematics

Wortmann, Charles  Agronomy/Horticulture
Integrated Approach to Reduced Risk of Phosphorus Pollution of Surface Waters in Crop-Livestock Based Managed Ecosystems of the Midwest
$235,839  Nebraska Corn Board
Erickson, Galen  Animal Science
Schulte, Dennis  Biological Systems Engineering
Franti, Tom  Biological Systems Engineering
Jose, H. Douglas  Agricultural Economics

Yang, Yiqi  Textiles, Clothing and Design
Resistance of Sulfur Dyed Fabrics to Oxidative Bleaching & Acidic Tendering: Improvement & Application
$300,618  Procter & Gamble
Yoder, Ronald  Biological Systems Engineering  
Nebraska AgrAbility  
$800,000  Dept. of Agriculture-CSREES  
Baquet, Alan  Agricultural Economics  
$750,000  U.S. Agency for International Development  

* Transfer of Sorghum & Millet Production, Processing & Marketing Technologies Program in Mali  

Yohe, John  IANR-Intl Programs  
$800,000 Dept. of Agriculture-CSREES  

Zempleni, Janos  Nutrition and Health Sciences  
$409,586 Dept. of Agriculture-NRICGP  

Epigenetic Effects of Biotin on Activation of Endogenous Viral Sequences  
$395,601  DHHS-NIH-NIEHS  

Zeng, Xiao Cheng  Chemistry  
Crystallization and Interfacial Properties of Silicon  
$235,000  Dept. of Energy  

ITR: Multiscale Treatment of Systems with Strong Heterogeneities  
$715,121  NSF  
Diestler, Dennis  Agronomy and Horticulture  
Feng, Ruqiang  Engineering Mechanics  

Zera, Anthony  Biological Sciences  
Enzymatic and Molecular Bases of Trade-Offs in Lipid Metabolism that Underlie Life History Trade-Off  
$429,682  NSF  
Harshman, Lawrence  Biological Sciences  

Physiological & Molecular Causes of Genetic Variation/Covariation in Endocrine Regulation  
$372,000  NSF  

Zhang, Luwen  Center for Virology  
Interferon Regulatory Factor 7 and NPC  
$393,855  DHHS-NIH-NIAID  

Zlotnik, Vitaly  Geosciences  
Mechanisms Producing Variation in Lake Salinity in Dune Environments: Nebraska Sand Hills  
$219,958  NSF  
Fritz, Sherilyn  Geosciences  
Swinehart, James  School of Natural Resources  

Career and K Awards
Active awards in 2007
* Indicates new in 2007

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
$643,418 NSF

Binek, Christian
Physics and Astronomy
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

Frank, Tracy
Geosciences
* Exploring the Geologic Record of Major Climate Transitions: Causes, Consequences, & Impacts on the Evolution of Earth Systems
$583,816 NSF
Gursoy, Mustafa  
Electrical Engineering  
CAREER: Energy-Efficient Wireless Communications under Channel Uncertainty  
$400,000  NSF

Hebets, Eileen  
Biological Sciences  
* Evolution and Function of Complex Signaling in Wolf Spider Genus Schizocosa  
$680,351  NSF

Kim, Yong Rak  
Civil Engineering  
* Research & Education on Advanced Multiscale Modeling-Analysis of Roadway Materials, Mixtures, & Infrastructure Systems  
$402,044  NSF

Wang, Lily  
Architectural Engineering  
Integrating Time-Variant Source Directivity into Architectural Acoustic Auralizations  
$406,376  NSF

Xu, Lisong  
Computer Science and Engineering  
* Stochastic TCP Friendliness: Exploring the Design Space of TCP-Friendly Traffic Control in Best-Effort Internet  
$400,000  NSF
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.

Angeletti, Peter
Biological Sciences
Maintenance of Human Papilloma Virus Genes
$613,512 DHHS-NIH-NCI

DiLillo, David
Psychology
Family Functioning of Adults Maltreated as Children
$670,826 DHHS-NIH-NIMH

Sayood, Khalid
Electrical Engineering
Identification of Biological Materials of Unknown Origin
$764,005 DHHS-NIH-NIAID

Tyler, Kimberly
Sociology
Neglect and Abuse Histories Among Homeless Young Adults
$659,525 DHHS-NIH-NIMH
Cahan, David  History  A Biography of Hermann von Helmholtz  
$102,868  NSF  
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  Poetry Foundation  
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.
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.

Walter, Katherine  Libraries  
Interoperability of Metadata Standards for Digital Thematic Research Collections  
$169,651  Institute of Museum and Library Services  
11/1/05 – 4/30/08  
Price, Kenneth  Libraries  
Bolin, Mary  Libraries  
Barney, Brett  Libraries  

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.
Implementation Grants for Special Projects—
Journals of Lewis and Clark Online Edition

$222,177  National Endowment for the Humanities
9/1/03–8/31/07

Walter is 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 Web site a useful resource for scholars and the general public.

* National Digital Newspaper Program: Nebraska

$271,016  National Endowment for the Humanities
Wunder, John  Journalism and Mass Communications
Mering, Margaret  Center for Digital Research in the Humanities
Pytlík Zillig, Brian  Center for Digital Research in the Humanities

Walter, who co-directs UNL's Center for Digital Research in the Humanities, leads the Nebraska Digital Newspapers Project, through which about 100,000 pages of Nebraska newspapers from 1880 through 1910 will be digitized for inclusion in the Library of Congress' national "Chronicling America" Web site. UNL's University Libraries is partnering with the College of Journalism and Mass Communications and the Nebraska State Historical Society on the two-year, "We the People" grant. Nebraska is one of nine states selected in the early phases of this project, which eventually will include all 50 states. "We the People” grants recognize model projects that advance the study, teaching and understanding of American history and culture.
Arts and Humanities Awards
$5,000-$49,999
Active awards in 2007
* Indicates new in 2007

Bleed, Peter  Anthropology and Geography
*Archaeological Investigation of the Battle of El Viso, July 1, 1898
$30,220  National Geographic Society

Engen-Wedin, Nancy  Lied Center for Performing Arts
ArtsReach
$47,500  Nebraskans for the Arts

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

Hanson, Marin  Textiles, Clothing and Design
*International Quilt Study Center New Building Opening Exhibition
$21,274  Cooper Foundation
Ducey, Carolyn  International Quilt Study Center

Jewell, Andrew  Center for Digital Research in the Humanities
*Mapping a Writer’s World: A Geographic Chronology of Willa Cather’s Life
$7,800  Nebraska Humanities Council

Price, Kenneth  English
*Walt Whitman Archive
$14,000  Cooper Foundation

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

Walter, Katherine  University Libraries
Quilt Index National Leadership Project
$20,000  Michigan State University
Crews, Patricia  Textiles, Clothing and Design

Weiss, Wendy  Textiles, Clothing and Design
Hillestad Textiles Gallery
$5,535  Friends of the Hillestad Textiles Gallery
Terry J. Klopfenstein
Animal Science
Title: Ruminant Feed and Method of Making
Date: November 28, 2007
No. 840554 (European)
Country: Ireland

Yiqi Yang
Textiles, Clothing and Design
Title: Sulfur Dye Protection Systems and Compositions and Methods Employing Same
Date: October 8, 2007
No. 210789
Country: India

Adnan Hadzialic; Stephen Robert Platt; Dmitry Oleynikov; Shane Farritor
Mechanical Engineering
Title: Robot for Surgical Applications
Date: April 3, 2007
No. 7,199,545
Country: United States

Dean Sicking; Keith Kurz; Ronald Faller
Civil Engineering; Midwest Roadside Safety Program
Title: Traffic Noise Barrier System
Date: May 22, 2007
No. 7,220,077
Country: United States

Sally Mackenzie; Zarir Vaghchhipawala
Plant Pathology
Title: Soybean FGAM Synthase Promoters Useful in Parasite Control
Date: May 29, 2007
No. 7,223,901
Country: United States

Stephen M. Goddard
Computer Science and Engineering
Title: Fault Tolerant Firewall Sandwiches
Date: August 7, 2007
No. 7,254,834
Country: United States
Licensee: Perennial Plant Products, Inc. (dba Blooms of Bressingham of North America)
Descriptions: Chrysanthemum: 95003a, 94019, Orange Spider, Big Purple, Blush, Sunstation, 80108, 81126, 84112
Clematis groundcover
Dianthus: Roshish One, Prairie Pink, Sweetheart, 24025, Pixie, Hearts Desire
Penstemon: Prairie Star, Prairie Flame, Prairie Twilight, Lady Husker, Norma
Schizachrium: scoparium 1, scoparium 2
Veronica
Inventors: Dale Lindgren; Daniel Schaaf
Department: West Central Research and Extension Center

Licensee: Neogen Corporation
Description: Immunoassay technology for use in detection of allergens in food
Inventors: Stephen L. Taylor; Susan Hefle
Department: Food Science and Technology
Dr. Hefle died in August of 2006.

Licensee: Sharp Bros. Seed Co.
Description: Goldmine variety of big bluestem
Inventor: Terrance P. Riordan
Department: Agronomy and Horticulture

Licensee: Nebraska Surgical Solutions, Inc.
Description: In vivo robot
Method and robotic device for drug delivery
A display for surgical visualization
Imaging robot
Inventors: Shane Farritor; Dmitry Oleynikov
Department: Mechanical Engineering

Licensee: Channel Bio Corp.
Description: Roundup-ready soybean varieties with increased tolerance to glyphosate
Inventor: George Graef
Department: Agronomy and Horticulture

Licensees: University of North Dakota, University of New Orleans, Purdue University
Description: CALMIT Data Acquisition Program (CDAP), software for the collection of spectral data using dual field ratiometers
Inventors: Bryan Leavitt; Donald Rundquist
Department: Conservation and Survey Division

Licensee: The Grain Place, Inc.
Description: Yellow hilum, high protein soybeans
Inventor: George Graef
Department: Agronomy and Horticulture
Licensee: CYRO Industries
Description: Crashworthy protection system for roadside sound barriers (PARAGLAS Barrier)
Inventor: Ron Faller
Department: Midwest Roadside Safety Program

Licensee: Terra Nova Nurseries
Description: Penstemon: Dark Towers
Inventor: Dale Lindgren
Department: West Central Research and Extension Center

Licensee: Chrysantis, Inc.
Description: New gene that intensifies purple plant color in pearl millet
Inventor: David Andrews
Department: Agronomy and Horticulture

Licensee: South Dakota Crop Improvement
Description: Husker Genetics Brand Overland NE01643 (wheat)
Inventor: Stephen Baenziger
Department: Agronomy and Horticulture

Licensee: Sementes Adriana
Description: Pearl millet parent lines NM, hybrids, and other germplasms to include any seeds that are increased or directly produced using NM, NPM, NE or NFPM lines
Inventor: David Andrews
Department: Agronomy and Horticulture
Shane Farritor; Dmitry Oleynikov
Mechanical Engineering
Company: Nebraska Surgical Solutions, Inc.
Start Date: April 20, 2007

Hendrick Viljoen; Joel TerMaat
Chemical and Biomolecular Engineering
Company: Philisa Technology Corporation
Start Date: August 13, 2007
CREATIVE WORKS IN FINE AND PERFORMING ARTS
Faculty who created, performed or produced creative works in fine and performing arts, nationally or internationally
UNL faculty indicated in red

John R. Bailey
Mark Clinton
School of Music
School of Music

Diane C. Barger
Mark Clinton
Susan Levine
School of Music
School of Music
School of Music
Soloists, performance, Into the Monster’s Lair, clarinet with piano and dancer. International Clarinet Association’s ClarinetFest, Vancouver, Canada.

Anthony J. Bushard

Dana Fritz
Artist, exhibit, Villandry et les Jardins du Monde, photography. Chateau de Villandry, France.

Michael F. James
Artist, exhibit, Interference Effect: Betrayed Lover’s Knot #2, fabric construction quilt. Touring exhibition co-sponsored by Craft in America Inc., and Curatorial Assistance Traveling exhibitions (CATE) and complementing the PBS production Craft in America that aired nationally in May 2007.
Artist, exhibit, Flights of Fantasy, multiple works, fabric constructions and quilts. Museum of Art, Seoul, South Korea. Invitational exhibit organized by the U.S. State Department’s Art-in-Embassies Program, the U.S. Embassy, Seoul, and Seoul National University.
Artist, exhibit, solo exhibition. Galerie Jonas, Petit-Cortaillod, Neuchâtel, Switzerland.

Gail M. Kendall
Artist, exhibit, 32nd Pottery Exhibition. Art School at Old Church, Demarest, New Jersey.
Artist, exhibit, ceramics invitation. Red Lodge Ceramic Center, Red Lodge, Montana.
Artist, exhibit, St. Croix Pottery Tour. Mayeron Cowles Studio, Shaffer, Minnesota.
Karen S. Kunc  
**Art and Art History**
Artist, exhibit, solo exhibition, prints. Gallery Piano Nobile, Krakow, Poland.
Artist, exhibit, Lyrical Legacy, prints & artist’s books. Leedy-Voulkos Art Center, Kansas City, Missouri.
Artist, exhibit, solo exhibition, prints. Huntington Museum of Art, Huntington, West Virginia.

Barbara Trout  
**Textiles, Clothing and Design**
Artist, exhibit, Trappings Two, juried exhibition. International Textile and Apparel Association, California State University Art Gallery, Northridge, California.

Wendy R. Weiss  
**Textiles, Clothing and Design**
Artist, exhibit, Polka Dot Clouds, textile art. 2007 International exhibition of Natural Dye for I, Daegu Culture and Arts Center, Korea and Ulsan Culture and Arts Center, Korea.
Artist, exhibit, Striped Trees, textile art. 2007 International exhibition of Natural Dye for I, Daegu Culture and Arts Center, Korea and Ulsan Culture and Arts Center, Korea.

Sandra Williams  
**Art and Art History**
Artist, exhibit, The History of Zero, solo exhibition, mixed media. The Arts Center in Orange, Orange, Virginia.
Marco Abel

Jonis Agee

Bruce J. Avolio

Grace Bauer

Donald F. Becker

Susan Belasco

David Beukelman

Brian H. Bornstein

Kathy R. Bosch

James Bovaird
Amy N. Burnett  
History  

Enrique Martinez Celaya  
Art and Art History  

Frankie M. Condon  
English  

Sidnie White Crawford  
Classics and Religious Studies  

John Creswell  
Educational Psychology  

T. Newell Decker  
Special Education and Communication Disorders  

John DeFrain  
Child, Youth and Family Studies  


Yasar Demirel  
Chemical and Biomolecular Engineering  
Martin Despang  
Architecture  

Lester A. Digman  
Management  

Wheeler Winston Dixon  
English  

Beth Doll  
Educational Psychology  

Judy A. Driskell  
Nutrition and Health Sciences; Food Science and Technology  

David P. Forsythe  
Political Science  

Chris W. Gallagher  
English  

James Alex Garza  
History; Ethnic Studies  

Norman Geske  
Art and Art History  

Joan R. Giesecke  
Libraries  

Vadim N. Gladyshev  
Biochemistry  

Amy M. Goodburn  
English  

Andrew R. Graybill  
History  
Janet S. Hanna  Extension; Child, Youth and Family Studies

Glenn J. Hoffman  Biological Systems Engineering

Srikanth B. Iyengar  Mathematics

Douglas M. Jackson  Architecture

Evelyn M. Jacobson  Modern Languages and Literatures

Manfred R. Jacobson  Modern Languages and Literatures; Judaic Studies

Paul A. Johnsgard  Biological Sciences

Frances W. Kaye  History and Ethnic Studies; English

Ari Kohen  Political Science; Judaic Studies

Marjorie J. Kolstelnik  College of Education and Human Sciences


Ted Kooser  English
Eileen M. Krumbach  
Extension; Child, Youth and Family Studies


Carole Levin  
History


Frederick M. Link  
English


Kathleen A. Lodl  
4-H Youth Development


Fred Luthans  
Management


Derrel L. Martin  
Biological Systems Engineering


Jennifer McKitrick  
Philosophy


Patrice C. McMahon  
Political Science


Colleen Medill  
College of Law


Mary E. Nelson  
Extension; Child, Youth and Family Studies


David L. Olson  
Management


Vicki Plano Clark  
Psychology

<table>
<thead>
<tr>
<th>Name</th>
<th>Department/Field</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenneth M. Price</td>
<td>English</td>
<td>Leaves of Grass: The sesquicentennial essays. Lincoln, NE: University of Nebraska Press.</td>
</tr>
<tr>
<td>Sarah E. Purcell</td>
<td>Extension; Child, Youth and Family Studies</td>
<td>Fun to play, ready to learn activity guide. Lincoln, NE: UNL Communications &amp; Information Technology.</td>
</tr>
<tr>
<td>Ladette Randolph</td>
<td>University of Nebraska Press</td>
<td>The big empty. Lincoln, NE: University of Nebraska Press.</td>
</tr>
<tr>
<td>Hilda Raz</td>
<td>English</td>
<td>What becomes you. Lincoln, NE: University of Nebraska Press.</td>
</tr>
<tr>
<td>Debra E. Schroeder</td>
<td>Extension; Child, Youth and Family Studies</td>
<td>Fun to play, ready to learn activity guide. Lincoln, NE: UNL Communications &amp; Information Technology.</td>
</tr>
</tbody>
</table>

Keng Siau  Management  

William D. Spaulding  Psychology  

Jordan Stump  Modern Languages and Literatures  

John D. Turner  Classics and Religious Studies  
Turner, J.D. (2007). Ecrits gnostiques. La Bibliothèque de Nag Hammadi, Laval, Canada: Gallimard.

Mary Uhl-Bien  Management  

Linda Ulrich  IANR Communications and Information Technology  

Hendrik van den Berg  Economics  

William B. Walstad  Economics  


Mary K. Warner  Extension; Child, Youth and Family Studies  

Richard L. Wiener  Psychology  
Steven L. Willborn  
College of Law


David J. Wishart  
Anthropology and Geography


John R. Wunder  
History; College of Journalism and Mass Communications


Susan A. Wunder  
Teaching, Learning and Teacher Education


Janos Zempleni  
Nutrition and Health Sciences

2007 RECOGNITIONS AND HONORS
Faculty who have been elected to honor academicians or who have received national or international honors
UNL faculty indicated in red

Myron Braake  
Plant Pathology (Emeritus)
National Academy of Science membership
Dr. Braake died June 15, 2007.

Brian Larkins  
Office of Research; Agronomy and Horticulture
National Academy of Science membership

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

James Van Etten  
Plant Pathology
National Academy of Science membership

Sam Allgood  
Economics
Member, American Economic Committee on Economic Education

Diane C. Barger  
School of Music
Buffet Crampen Artist/Clinician, Buffet Crampen USA, Inc.
Treasurer, International Clarinet Association

Fred P. Baxendale  
Entomology
Award for Excellence in Extension, National Association of State Universities and Land-Grant Colleges

Mary M. Beck  
Animal Science
Fellow Award, Poultry Science Association

Christopher R. Bilder  
Statistics
CAUSEWeb Resource of the Year Award, Consortium for the Advancement of Undergraduate Statistics Education

Dawn O. Braithwaite  
Communication Studies
Distinguished Service Award, Western States Communication Association
Second vice president, National Communication Association

Chris R. Calkins  
Animal Science
K.C. Wong Education Foundation invited lecturer, Nanjing Agricultural University, Nanjing, China
Invited presentation at China Congress, International Congress of Meat Science and Technology

Gwendolyn M. Combs  
Management
Elected to executive committee, Gender and Diversity in Organizations Division, Academy of Management
Vice president, president elect, Management Faculty of Color Association, Inc.
Rochelle Dalla, Child, Youth and Family Studies
Distinguished Publication Award, Association of Women in Psychology

Mary Jo Deegan, Sociology
Award for Significant Contributions to the Study and History of Early Women Sociologists, Harriet Martineau Sociological Society

John DeFrain, Child, Youth and Family Studies
Honorary appointment, Conjoint Professor of Family Studies, University of Newcastle, New South Wales, Australia

Martin Despang, Architecture
Social Motion paper presented at the Urban Transport Conference, Coimbra, Portugal
Top nominee, INDEX Award
Second place, Im Zentrum zu Hause, Berlin, Germany
Top nominee, NIKE BDA Award

Lester A. Digman, Management
2007 Distinguished Paper, Decision Sciences Institute

Matthew B. Dwyer, Computer Science & Engineering
Distinguished Scientist, Association for Computing Machinery

Calvin L. Ferrell, Animal Science
Research Fellow Award, American Society of Animal Science

James Ford, English
Ariel Bybee, School of Music
International Trophy Grand Prize, Waterford International Festival of Light Opera

David P. Forsythe, Political Science
Human Rights Scholar of the Year, American Political Science Association, Human Rights Section
Senior Fulbright Research Chair, United States and Danish Fulbright Committees

John E. Foster, Entomology
International Plant Protection Award of Distinction 2007, International Association for the Plant Protection Sciences

Scott M. Fuess, Jr., Economics
Fellowship, Institute for the Study of Labor (IZA) Bonn, Germany

Russell Ganim, Modern Languages and Literatures
Co-organizers, North American Society for Seventeenth Century French Literature Conference

James A. Garza, History and Ethnic Studies
Journal of the West Award for Best Article of the Year, Journal of the West

James A. Gosey, Animal Science
Pioneer Award, Beef Improvement Federation
David S. Hage  
Chemistry  
Top 20 Most Cited Review Articles (2002-2007), Journal of Chromatography

David J. Hansen  
Psychology  
Fellow, American Psychological Association

Janet A. Harkness  
Gallup Research Center  
Member, German Youth Institute Advisory Taskforce  
Member, Social Behavioral and Economic Sciences Advisory Board, National Science Foundation

Jeff G. Hart  
Extension  
National Award for Diversity 2007, USDA/CSREES/ECOP

Leon G. Higley  
Entomology  
2007 Foundation Memorial Award, Entomological Society of America

Terry Housh  
Nutrition and Health Sciences  
Fellow, National Strength and Conditioning Association

Srikanth B. Iyengar  
Mathematics  
Friedrich Wilhelm Bessel Research Award, Alexander von Humboldt Foundation, Germany

Margaret D. Jacobs  
History  
Visiting fellowship, Centre for Indigenous Studies, Australian National University

Michael James  
Textiles, Clothing & Design  
Silver Star Award, Quilts, Inc. and International Quilt Festival

Paul J. Jasa  
Biological Systems Engineering  
Outstanding Presentation Award, 2007 National No-Tillage Conference

Jay T. Johnson  
Anthropology and Geography  
Chair, Indigenous Peoples’ Knowledges and Rights Commission, International Geographical Union

David D. Jones  
Biological Systems Engineering  
2007 Best Paper Award, Biological and Agricultural Division of the American Society for Engineering Education

Jeannette E. Jones  
History and Ethnic Studies  
Deutsche Bank Junior Scholar-in-Residence Fellowship, Heidelberg Center for American Studies

Alan C. Kamil  
Biological Sciences, Psychology  
Quest Award for Research Contributions, Animal Behavior Society

Gordon V. Karels  
Finance  
Visiting scholar, Federal Reserve Bank of Atlanta

Karen S. Kunc  
Art and Art History  
2007 Printmaker Emeritus Award, Southern Graphics Council
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Recognition/achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephen Lahey</td>
<td>Classics and Religious Studies</td>
<td>John Nicholas Brown Prize for Best First Book, Medieval Academy of America</td>
</tr>
<tr>
<td>Gail F. Latta</td>
<td>Libraries</td>
<td>Bobby Knight Dissertation of the Year Award finalist, Association for the Study of Higher Education</td>
</tr>
<tr>
<td>Sang M. Lee</td>
<td>Management</td>
<td>Keynote speaker, International Conference on Strategic Innovation in Bandung, Indonesia</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Distinguished Global Leadership Award, Pan-Pacific Business Association</td>
</tr>
<tr>
<td>Carole Levin</td>
<td>History</td>
<td>National Endowment for the Humanities Fellowship, Folger Shakespeare Library</td>
</tr>
<tr>
<td>Donald G. Levis</td>
<td>Animal Science</td>
<td>Master of the Pork Industry, <em>National Hog Farmer</em> magazine</td>
</tr>
<tr>
<td>Yijia Lin</td>
<td>Finance</td>
<td>Ernst Meyer Prize, Geneva Association</td>
</tr>
<tr>
<td>Yongfeng Lu</td>
<td>Electrical Engineering</td>
<td>Fellow, Society of Photo-optical Instrumentation Engineers</td>
</tr>
<tr>
<td>Ann Mari May</td>
<td>Economics</td>
<td>Member, American Association of University Professors Committee on the Economic Status of the Profession</td>
</tr>
<tr>
<td>Allan L. McCutcheon</td>
<td>Gallup Research Center; Statistics</td>
<td>Senior statistical director, Exit Polls for the National Election Pool</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fellow, Royal Statistical Society</td>
</tr>
<tr>
<td>George E. Meyer</td>
<td>Biological Systems Engineering</td>
<td>2007 Best Paper Award, Biological and Agricultural Division of the American Society for Engineering Education</td>
</tr>
<tr>
<td>Nancy Miller</td>
<td>Textiles, Clothing &amp; Design</td>
<td>Best Paper Award, Journal of Small Business Management and the Office Depot</td>
</tr>
<tr>
<td>Helen A. Moore</td>
<td>Sociology</td>
<td>President, Midwest Sociological Society</td>
</tr>
<tr>
<td>Sucheta Nadkarni</td>
<td>Management</td>
<td>Outstanding Service Award, Managerial and Organizational Cognition Division of the Academy of Management</td>
</tr>
<tr>
<td>Fiona Nah</td>
<td>Management</td>
<td>Extra-Outstanding Associate Editor, International Conference on Information Systems</td>
</tr>
<tr>
<td>Glenn E. Nierman</td>
<td>School of Music</td>
<td>Outstanding Service to the National Association for Music Education, Nebraska Music Educators Association</td>
</tr>
</tbody>
</table>
Andrezej Nowak  
Civil Engineering  
Award of National Professorship, Leach Kaczynski, President of Poland

Edward Nowlin  
Marketing  
Co-winner, American Marketing Association’s Sales SIG  
Dissertation Proposal, American Marketing Association

Alexander D. Pavlista  
Agronomy and Horticulture  
President, Potato Association of America

Allan C. Peterson  
Mathematics  
Euler Prize for Research in Time Scales, Technical University, Munich

Byrav Ramamurthy  
Computer Science & Engineering  
Vice chair, Optical Networking Technical Committee, IEEE Communications Society

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

Peter Revesz  
Computer Science & Engineering  
Fulbright Senior U.S. Scholar, Fulbright Foundation, Greece

Sheila E. Scheideler  
Animal Science  
Helene Cecil Leadership Award, Poultry Science Association

Marc Schneiderjans  
Management  
Fellow, Decision Sciences Institute

Keng Siau  
Management  
Keynote speaker, Second AIS SIGSAND European Symposium on Systems Analysis and Design, Gdansk, Poland  
Editor in chief, Journal of Database Management  
Co-editor-in-chief, Advances in Database Research Series  
Outstanding Service Award, International Federation for Information Processing

Dean Sicking  
Civil Engineering; Midwest Roadside Safety Facility  
National Medal of Technology, President George W. Bush

Robert G. Simon  
Marketing  
Outstanding Faculty Adviser, International Collegiate American Marketing Association

Ravipreet S. Sohi  
Marketing  
Track co-chair, American Marketing Association’s Winter Educators’ Conference  
Associate editor, International Journal of Applied Decision Sciences

Robert J. Spreitzer  
Biochemistry  
Chair, North-Central Regional Project NC-1168, Regulation of Photosynthetic Processes, NC-1168 Membership

RECOGNITIONS AND HONORS
Alan E. Steinweis  
Finalist, National Jewish Book Award for Studying the Jew, 
Holocaust Category, Jewish Book Council

William G. Thomas III  
Distinguished Lecturer, Organization of American Historians 
Digital Innovation Fellowship, American Council of Learned Societies

Harriet S. Turner  
Encomienda de la Orden de Isabel la Católica, His Majesty D. Juan Carlos I, King of Spain

Mary Uhl-Bien  
Best Reviewer Award, Leadership Quarterly

L. Dale Van Vleck  
Pioneer Award, National Dairy Shrine

Lily M. Wang  
Fellowship, Acoustical Society of America

Clarence E. Waters  
Elected to the Board of Governors, Architectural Engineering Institute

Les B. Whitbeck  
Community, Culture, and Prevention Science Award, Society for Prevention Research

Brian L. Wilcox  
Nicholas Hobbs Award for Distinguished Contributions to Research on Child Policy and Advocacy, American Psychological Association

Ronald E. Yoder  
President’s Citation, American Society for Agricultural and Biological Engineers

Xiao Cheng Zeng  
Fellow, American Association for the Advancement of Science
# Glossary of Federal Agency Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>USAID</td>
<td>United States Agency for International Development</td>
</tr>
<tr>
<td>CNS</td>
<td>Corporation for National Service</td>
</tr>
<tr>
<td>USDA</td>
<td>United States Department of Agriculture</td>
</tr>
<tr>
<td>ARS</td>
<td>Agricultural Research Service</td>
</tr>
<tr>
<td>BRDC</td>
<td>Biotechnology Research and Development Corporation</td>
</tr>
<tr>
<td>CSREES</td>
<td>Cooperative State Research, Education &amp; Extension Service</td>
</tr>
<tr>
<td>ERS</td>
<td>Extension Research Service</td>
</tr>
<tr>
<td>FAS</td>
<td>Foreign Agriculture Service</td>
</tr>
<tr>
<td>FS</td>
<td>Forestry Service</td>
</tr>
<tr>
<td>NRCS</td>
<td>Natural Resources Conservation Service</td>
</tr>
<tr>
<td>NRICGP</td>
<td>National Research Initiative Competitive Grant Program</td>
</tr>
<tr>
<td>RMA</td>
<td>Risk Management Agency</td>
</tr>
<tr>
<td>SARE</td>
<td>Sustainable Agricultural Research and Education Program</td>
</tr>
<tr>
<td>DOC</td>
<td>Department of Commerce</td>
</tr>
<tr>
<td>EDA</td>
<td>Economic Development Administration</td>
</tr>
<tr>
<td>NOAA</td>
<td>National Oceanic &amp; Atmospheric Administration</td>
</tr>
<tr>
<td>DOD</td>
<td>Department of Defense</td>
</tr>
<tr>
<td>Army Corps of Engineers</td>
<td></td>
</tr>
<tr>
<td>DEPSCoR</td>
<td>Defense Experimental Program to Stimulate Cooperative Research</td>
</tr>
<tr>
<td>Naval Research Laboratory</td>
<td></td>
</tr>
<tr>
<td>Office of Naval Research</td>
<td></td>
</tr>
<tr>
<td>U.S. Army Medical Research Acquisition Activity</td>
<td></td>
</tr>
<tr>
<td>DEd</td>
<td>Department of Education</td>
</tr>
<tr>
<td>FIPSE</td>
<td>Fund for the Improvement of Postsecondary Education</td>
</tr>
<tr>
<td>GAANN</td>
<td>Graduate Assistance in Areas of National Need</td>
</tr>
<tr>
<td>DOE</td>
<td>Department of Energy</td>
</tr>
<tr>
<td>EPSCoR</td>
<td>Experimental Program to Stimulate Cooperative Research</td>
</tr>
<tr>
<td>NIGEC</td>
<td>National Inst for Global Environmental Change Sandia National Laboratories</td>
</tr>
</tbody>
</table>
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
NICHD  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
       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