<table>
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<th>Award Category</th>
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<td>Recognitions and Honors</td>
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<td>Glossary of Federal Agency Abbreviations</td>
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On the Cover: Climate change is a global concern with potential to alter the life and landscape of Nebraska and the High Plains. On the cover, a thunderstorm moves toward the Upstream Ranch along the Calamus River in Nebraska’s Sandhills, one of the fragile ecosystems that could see significant impacts of climate change. Diverse research by UNL scientists is expanding our understanding of climate change and providing tools to help preserve the region’s long-term sustainability. UNL is partnering with the U.S. Geological Survey to explore developing a regional climate change research framework.
This is the seventh 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 2008. 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.

From climate change, water and renewable energy, to math and science education, virology and transportation safety, UNL faculty are addressing important challenges for Nebraska, our nation and the world. Our external research funding reflects their achievements, growing 115 percent since 2000 to a record $106.1 million in fiscal year 2008.

How have we achieved 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 in and support of research at the University of Nebraska–Lincoln!

Prem S. Paul
Vice Chancellor for Research and Economic Development
**AWARDS OF $3 MILLION OR MORE**

*Active awards in 2008  
* Indicates new in 2008

### Allen, David

**Blast Wave Absorbing Structures: An Experimental & Modeling Program**

DOD-Army Research Laboratory  
$7,500,000  
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**

Nebraska Center for Energy Sciences Research  
$5,000,000  
4/1/06 - 3/31/2011  
Paul, Prem

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.
Chandra, Namas
College of Engineering
$3,261,250
10/01/08 – 09/30/09

Namas Chandra, associate dean in the College of Engineering, has received a grant from the Army Research Office to create the UNL Center for Trauma Mechanics. The center will focus on the effects of blast waves on the head and brain of a fully equipped soldier in the field. The project will study wave propagation effects on the skull and brain especially under mild traumatic brain injury (TBI) pressure loading conditions. The work of the center will be instrumental in improving understanding of TBI and may lead to design of more effective protection systems that shield soldiers from the combined effects of both blast waves and impact.

Cotton, Dan
eXtension Initiative
$8,870,000
10/01/04 - 12/31/11

Dan Cotton directs the eXtension Initiative, an Internet-based Cooperative Extension Service education and information system. UNL is the lead institution in this multi-year project, which partners with the University of Kentucky, North Carolina State University and Virginia Tech 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 by visiting www.extension.org.
Barbara Couture, vice chancellor for academic affairs, with funding from the National Science Foundation, directs ADVANCE-Nebraska, a program intended to significantly increase the gender and racial diversity of the UNL faculty, especially in the science, technology, engineering and mathematics (STEM) fields. The ADVANCE office, led by program director Mary Anne Holmes, professor of geosciences, will coordinate recruitment and retention-enhancing activities, disseminate information to the campus and the academic community at large, and serve as liaison for the many groups engaged in diversity-focused activities on campus. Other ADVANCE efforts include initiatives related to flexible work arrangements to accommodate work-life issues of faculty; development of a dual career partner program; training programs to minimize the influence of bias on decision-making processes; and informal networking through professional development workshops, luncheons and retreats. The five-year, $3.8 million grant is from NSF’s ADVANCE program, which aims to increase participation and advancement of women in academic science and engineering careers.
Graef, Michelle

* Midwest Child Welfare Technical Assistance Implementation Center

$8,695,645 DHHS-Administration for Children & Families

09/01/08 – 08/31/13

Center on Children, Families and the Law

A five-year, $8.7 million grant from the U.S. Department of Health and Human Services Children’s Bureau has helped establish the Midwest Child Welfare Technical Assistance Implementation Center. The new center will provide long-term consultation and support to child service agencies and tribes in Nebraska, Iowa, Illinois, Indiana, Kansas, Michigan, Missouri, Minnesota, Ohio and Wisconsin. It will partner with state and tribal child welfare agencies to assess their inner workings and identify broad changes that could help them operate more efficiently and effectively to serve families and children; identify obstacles to helping families; build the capacity of state and tribal child welfare systems; and work toward significant changes to improve outcomes for children and families involved with these systems. The ultimate goal is to ensure all children have safe, stable and permanent homes. Co-leaders of the project are Mark Ells and Michelle Graef of the Center on Children, Families and the Law.

Farritor, Shane

* Track Stability Assessment & Data Transmission

$3,034,439 Department of Transportation-FRA

9/17/04 – 12/31/10

Engineering Mechanics

Computer and Electronics Engineering

With more than $3 million in support from the Department of Transportation’s Federal Railroad Administration, associate professor of mechanical engineering Shane Farritor and colleagues are continuing to develop techniques to assess track stability and related high-speed wireless communication to improve the safety of railroad operations. This funding supports research in three different areas of railroad track safety: 1) real-time measurement of track modulus from a moving car, leading to preventative maintenance strategies that relate track modulus data to specific track problems; 2) study of the measurement of rail longitudinal stress, to help reduce rail failure; and 3) study of the use of electrical energy from passing trains to power an efficient warning light system at grade crossings that are not equipped with warning light systems due to the lack of electrical infrastructure, thus reducing accidents at these “passive” grade crossings.
Gladyshev, Vadim  Biochemistry
Redox Biology Center
$10,577,043  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.

Goddard, Stephen  Computer Science and Engineering
Drought Risk, Impact and Mitigation Information System
$6,407,473  Department of Agriculture-RMA-FCIC
9/1/05 – 8/31/10
School of Natural Resources

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, The Ohio State University and the University of Massachusetts Amherst. The project also includes scientists from Germany, Italy and New Zealand.

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  
Center for Science, Mathematics and Computer Education; Mathematics  
* NEBRASKA MATH  
$9,235,407  
01/01/09 – 12/31/13  
Heaton, Ruth  
Teaching, Learning and Teacher Education;  
CSMCE  
McGowan, Thomas  
Teaching, Learning and Teacher Education  
Statistics  
Stroup, Walter  
Child, Youth and Family Studies;  
Psychology  
Edwards, Carolyn  
Mathematics; CSMCE  
Papick, Ira  
Lincoln Public Schools  

Drs. Lewis, Heaton, McGowen and Jacobson are joined by Walter Stroup, professor of statistics, Ira Papick, professor of mathematics, and Carolyn Edwards, professor of psychology, in directing NEBRASKA MATH, a statewide program aimed at improving mathematics achievement for all students and narrowing the achievement gap for at-risk students in kindergarten through third grade. The program is supported by a $9.3 million grant from the National Science Foundation. NEBRASKA MATH is a partnership of UNL, public schools in Lincoln, Grand Island, and Papillion-La Vista, and 14 rural Educational Service Units. It builds on the success of UNL’s Math in the Middle Institute, by initiating new programs that focus on enhancing teachers’ knowledge of mathematics and teaching methods.

Math in the Middle Institute Partnership  
$5,600,000  
8/1/04 – 7/31/11  
Heaton, Ruth  
Teaching, Learning and Teacher Education;  
CSMCE  
McGowan, Thomas  
Teaching, Learning and Teacher Education  
Lincoln Public Schools  

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 $5.6 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.
With support from the Department of Defense, electrical engineering professor Yongfeng Lu is conducting a five-year study to investigate a new process to deposit a diamond or diamond-like coating on surfaces to create thermal barriers and increase corrosion protection. He is developing a coating technique that employs multiple laser beams to deposit the coating at room temperature in an open atmosphere—a significant improvement over conventional coating techniques that require low vacuum and high temperature. The resulting process will be more energy-efficient, improve the quality of materials on which the coating is deposited, and minimize thermal stress.

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.
AWARDS OF $3 MILLION OR MORE

Rilett, Laurence  Civil Engineering
Region 7 University Transportation Center
Department of Transportation-Research and Innovative Technology Administration
$6,225,000
10/1/06 – 9/30/11
The U.S. Department of Transportation’s Research and Innovative Technology Administration has designated UNL’s Mid-America Transportation Center as a regional university transportation center. MATC is a consortium with UNL as the lead institution with regional partners Kansas State University, University of Kansas, University of Missouri-Rolla and Lincoln University of Missouri. The Nebraska Department of Roads and the Kansas and Missouri Departments of Transportation also are key partners. Laurence Rilett, Keith W. Klaasmeyer chair in engineering and technology in UNL’s civil engineering department, directs the center. Its focus is “improving safety and minimizing risk associated with increasing multi-modal freight movement on the U.S. surface transportation system.” MATC will focus on safety research related to rural transportation. Key safety research areas include traffic control, animal crashes, safer at-grade railway crossings and work zones, and the development of more effective and economical roadside crash barriers. The university transportation center 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; Center on Children, Youth, Families and Schools
Parent Engagement and Learning Birth to Five
$5,077,441
9/26/03 – 7/31/09
Edwards, Carolyn
Susan M. Sheridan, Willa Cather professor of educational psychology, and co-investigator Carolyn Edwards, Willa Cather professor of psychology and child, youth and family studies, 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.
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.

Donald Umstadter, professor of physics and astronomy, will complete construction of a high-energy laser system at the UNL Extreme Light Laboratory capable of delivering a peak power of 1 petawatt. This project is critical to the development and performance of laser-driven radiation sources used for detection, inspection and non-destructive testing. The most immediate result will be a dramatic increase in the brightness and quality of the laser-driven electron beams and x-rays, with applications for detecting cracks in aging critical components and detecting special nuclear materials through large thicknesses of shielding.
Velander, William  Chemical and Biomolecular Engineering  
cGMP Recombinant FIX and Oral Hemophilia B Therapy  
$9,587,071  DHHS-NIH-NHLBI  
9/6/05 – 8/31/10  
Van Cott, Kevin  Chemical and Biomolecular Engineering  

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  
8/1/05 – 10/31/09  
Van Cott, Kevin  Chemical and Biomolecular Engineering  

Velander is also leading a project, funded by the Department of Defense, to develop processes to produce recombinant fibrinogen and other blood proteins for bandages and implant devices, and to conduct research and clinical trials on their effectiveness. The fibrinogen bandage is a potentially life-saving technology for patients who lose large amounts of blood. When applied, the bandage immediately begins clotting the wound, stemming blood loss. The technology could be used in battlefield or other applications where patients are hemorrhaging. Fibrinogen technology could also play a role in helping develop implantable devices with increased biological compatibility. Fibrinogen made from human plasma is scarce and expensive; Velander has developed a process for producing it from transgenic cattle bred with a human gene that enables them to produce fibrinogen.

Whitbeck, Les  Sociology  
Ojibwe Pathways Through the High School Years  
$3,121,678  DHHS-NIH-NIDA  
9/3/05 – 6/30/12  
Johnson, Kurt  Sociology  

Les Whitbeck, professor of sociology, is coordinating a seven-year project, funded by the National Institute on Drug Abuse, to investigate risk and resilience for early onset substance use and abuse among pre-teen Native children in the Upper Midwest.
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
$3,580,682 DHHS-NIH-National Cancer Institute
9/30/03 – 6/30/09
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)
$9,000,000 U.S. Agency for International Development
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 2008
* Indicates new in 2008

Alfano, James Center for Plant Science Innovation; Plant Pathology
Suppression of Innate Immunity by ADP Ribosyltransferase Type III Effectors
$1,779,178 DHHS-NIH-NIAID

Azizinamini, Atorod Nebraska Transportation Center
* Bridges for Service Life Beyond 100 Years: Innovative Systems
$1,999,637 National Academy of Sciences-Transportation Research Board
Tadros, Maher Civil Engineering

Barker, Bradley Center on Children, Youth, Families and Schools; 4-H State Office
* Scale-UP: National Robotics in 4-H: Workforce Skills for the 21st Century
$2,498,908 NSF
Nugent, Gwen Center on Children, Youth, Families and Schools
Adamchuk, Viacheslav Center on Children, Youth, Families and Schools; Biological Systems Engineering

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

Becker, Donald Biochemistry
* Role of Proline in Redox Homeostasis and Apoptosis
$1,097,641 DHHS-NIH-NIGMS
Mechanistic Studies of Functional Switching in the PutA Flavoprotein
$1,218,025 DHHS-NIH-NIGMS

Bellows, Laurie Graduate Studies
McNeir Scholars Project and the University of Nebraska–Lincoln
$1,125,000 Department of Education

Blum, Paul Biological Sciences
* Value-Added Products from Renewable Biofuels
$1,968,000 Department of Energy
Cassman, Kenneth Nebraska Center for Energy Sciences Research

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

Cupp, Andrea Animal Science
Role of VEGF in Testis Morphogenesis
$1,066,625 DHHS-NIH-NICHD
Weber, John Animal Science
White, Brett Animal Science

$1 MILLION — $2,999,999
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* Building Accepting Campus Communities
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Bruning, Roger  Educational Psychology
Sydik, Jeremy  Equity, Access and Diversity Programs

Hubbard, Kenneth  School of Natural Resources
Regional Climate Services Support in the High Plains Region: The High Plains Regional Climate Center
$1,200,000  Department of Commerce-NOAA

Jones, David  Biological Systems Engineering
Strengthening Transitions into Engineering Program
$1,648,354  NSF
Ballard, John  Engineering
Perez, Lance  Electrical Engineering

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

Josiah, Scott  Nebraska State Forest Service
Cooperative Forestry Program
$2,594,613  Department of Agriculture-FS

Kamil, Alan  Biological Sciences
Mechanisms of Visual Search and Attention
$1,029,062  DHHS-NIH-NIMH
Bond, Alan  Biological Sciences

Kirby, Roger  Physics and Astronomy
Track 2, GK-12: Project Fulcrum: Phase II
$1,987,732  NSF
Claes, Daniel  Physics and Astronomy

Knoche, Lisa  Center on Children, Youth, Families and Schools
Rural Language and Literacy Connections (Rural LLC)
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Raikes, Helen  Center on Children, Youth, Families and Schools; Child, Youth and Family Studies

Koszewski, Wanda  Nutrition and Health Sciences
Food Stamp Nutrition Education Program
$1,362,934  Nebraska Department of Health & Human Services
Birnstihl, Elizabeth  IANR Cooperative Extension
Schnepf, Marilynn  Nutritional and Health Sciences

Lee, Jaekwon  Biochemistry
Mechanistic Insights into Homeostatic Copper Ion Acquisition
$1,058,638  DHHS-NIH-NIDDK

Lou, Marjorie  Veterinary and Biomedical Sciences
Protein-Thiol Mixed Disulfide in Cataractogenesis
$2,116,675  DHHS-NIH-National Eye Institute
Mackenzie, Sally  Center for Plant Science Innovation
* TRMS: An Integrative Study of Plant Mitochondrial Biology
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Christensen, Alan  Biological Sciences
Elthon, Thomas  Agronomy and Horticulture
Wang, Dong  Statistics

Meagher, Michael  Chemical and Biomolecular Engineering
* USAMRAA CGMP Production Contract #1
$2,083,998  DOD-Army Medical Research
Swanson, Stephen  Chemical and Biomolecular Engineering
Van Cott, Kevin  Chemical and Biomolecular Engineering

Mendoza-Gorham, Joan  Student Affairs
Classic Upward Bound
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Upward Bound Math/Science Program
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Nelson, J. Ron  Special Education and Communication Disorders
Portales a Aprender Leer (PAL)
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Parkhurst, Lawrence  Chemistry
Assembly Mechanisms of TBP–Nucleated Complexes
$1,107,318  DHHS-NIH-NIGMS

Robertson Jr., Vaughn  Student Affairs
UNL Educational Talent Search
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Rutenbeck, Kathy  Student Affairs
Upward Bound-Northeast Nebraska
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Schaefer, Matthew  Law
* University of Nebraska College of Law Space & Telecommunications Law Program: Filling a National Need, Advancing the Field
$1,717,370  NASA
Willborn, Steven  Law
Leiter, Richard  Law
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Wilcke, William  
North Central Regional Sustainable Agriculture  
Research & Education Program – SARE  
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Department of Agriculture-CSREES

Wilcox, Brian  
Center on Children, Families and the Law  
Midwest Child Care Research Consortium  
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Torquati, Julia  
Family and Consumer Sciences

Wilhite, Donald  
School of Natural Resources  
Rangeland and Forage Geospatial Decision Support System for Drought Risk Management  
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Wood, Charles  
Biological Sciences  
Programs in HIV & AIDS Assoc Diseases/Malignancies  
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Research Training in Comparative Viral Pathogenesis  
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Yamamoto, Catherine  
Student Affairs  
Student Support Services Program  
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Zempleni, Janos  
Nutrition and Health Sciences  
*Biotin Deficiency Impairs Silencing of Repeat Regions and Retrotransposons  
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Zhang, Luwen  
Center for Virology  
Oncogenic Properties of Interferon Regulatory Factor 7  
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DHHS-NIH-NCI
Awards of $200,000 - $999,999
Active awards in 2008
* Indicates new in 2008

Adenwalla, Shireen  Center for Materials and Nanoscience
* Development of Semiconducting Boron Carbide Neutron Detectors for Astrobiological Applications
$299,991  NASA

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

Albrecht, Julie  Nutrition and Health Sciences
* Food Safety for Families with Young Children
$599,503  Department of Agriculture-NRICGP

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

Alfano, James  Center for Plant Science Innovation; Plant Pathology
Secretion Signals & Type III Chaperones in Pseudomonas Syringae Type III Secretion System
$440,000  NSF
Dissecting the Function of HrpJ & HrpK – Two Type III Secreted Proteins Required for Injection of Effectors into Plant Cells
$398,500  Department 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
U.S.-Brazil Dual-Degree in Infrastructure & Sustainability Engineering Program
$208,211  Department of Education-FIPSE
EMME: US-EU Transatlantic Degree Program in Engineering Mechanics/Materials Engineering
$407,997  Department of Education Engineering Mechanics
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<td>* Lipid-Signaling and Epigenetic Regulations in Arabidopsis: Are Myotubularins the Link?</td>
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Azizinamini, Atorod  Civil Engineering

* Comprehensive Evaluation of Fracture Critical Bridges
   Nebraska Department of Roads
   $286,348

   Simple for Dead-Continuous for Live Load System
   with Partial Pre-Fabricated Deck System
   Nebraska Department of Roads
   $242,038

   Development of Design Tools for Steel Bridge Systems,
   Simple for Dead Loads & Continuous for
   Superimposed Dead Load & Live Loads
   Nebraska Department of Roads
   $226,306

   Steel Box System Monitoring of N-2 over I-480 Bridge
   Nebraska Department of Roads
   $292,244

   IBRC 2002 Project
   Nebraska Department of Roads
   $240,000

   Folded Plate Technology: Research, Design & Monitoring
   Nebraska Department of Roads
   $445,000

   Development of Field Data for Effective Implementation of
   Mechanistic-Empirical Pavement Design Procedure
   Nebraska Department of Roads
   $315,252

   Negahban, Mehrdad  Engineering Mechanics

Baenziger, P. Stephen  Agronomy and Horticulture

   Developing Winter Wheat with Improved Fusarium Head Blight
   Tolerance by Conventional and Transgenic Approaches
   Department of Agriculture-ARS
   $354,437

   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
   Department of Agriculture-NRICGP
   $390,000

   Eskridge, Kent  Statistics
   Dweikat, Ismail  Agronomy and Horticulture

   Developing Small Grains Cultivars
   Optimally Suited for Organic Production
   Department of Agriculture-NRICGP
   $755,937

   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
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Bien, Mary  Management  * Examining Leadership and Adaptability in the Healthcare Industry  $308,473  Booz Allen Hamilton

Bilder, Christopher  Statistics  Disease Detection and Prevalence Estimation through Informative Group Testing  $713,250  DHHS-NIH-NIAID

Billesbach, David  Biological Systems Engineering  Development & Field Testing of a Rapidly Deployable Carbon Dioxide Flux Management System  $559,675  Department of Energy-Berkeley National Lab

Blum, Paul  Biological Sciences  * Biohydrogenesis in the Thermotogales  $525,000  North Carolina State University

Bobaru, Florin  Engineering Mechanics  Adaptivity in Peridynamics for Composite Plates  $269,880  Department of Energy-Sandia National Laboratories

Bond, Alan  Biological Sciences  Mechanisms of Social Cognition  $540,260  DHHS-NIH-NIMH  Biological Sciences


Brown, Mary  School of Natural Resources  * Advancing Tern and Plover Common Sense Conservation into the Future  $270,000  Nebraska Environmental Trust

Bulling, Denise  Public Policy Center  Hospital Preparedness — Bioterrorism  $230,000  Nebraska Department of Health and Human Services  Critical Incidence Stress Management Program Coordination  $309,812  Nebraska Department of Health and Human Services

Burbach, Mark  School of Natural Resources  Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Programs  $403,293  Department of Agriculture-RMA  Ramamurthy, Byrav  Computer Science and Engineering
Burson, Dennis  Animal Science
Listeria Monocytogenes Controls in Ready to Eat Meat Products
$599,732  Department of Agriculture-CSREES
Thippareddi, Harshavardhan  Food Science and Technology

Cady, Daniel  Cooperative Extension
Nebraska Technology Transfer Center at UNL
$280,000  Nebraska Department of Roads
Development of Tools for Rating Bridges & Application to State Bridges
$893,418  Nebraska Department of Roads
Azizinamini, Atorod  Civil Engineering

Cantrell, Randolph  Center for Applied Rural Innovation
* Marketing Rural Communities to Attract and Retain Workers
$498,558  Department of Agriculture-NRICGP
Burkhart-Kriesel, Cheryl  Panhandle Research and Extension Center

Carr, Timothy  Nutrition and Health Sciences
Regulation of Cholesterol Absorption by Plant Sterol & Stanol Esters
$466,915  Department of Agriculture-NRICGP

Cassman, Kenneth  Agronomy and Horticulture
Demonstration/Validation of a Dynamic Real-Time Decision Support System for Irrigation Management with Limited Water Supply
$230,537  Nebraska Corn Board
Dobermann, Achim  Agronomy and Horticulture
Walters, Daniel  Agronomy and Horticulture
Yang, Haishun  Agronomy and Horticulture
Irmak, Suat  Biological Systems Engineering
Kranz, William  Northeast Research and Extension Center
Shapiro, Charles  Northeast Research and Extension Center
Tarkalson, David  West Central Research and Extension Center

Cerutti, Heriberto  Biological Sciences; Center for Plant Science Innovation
Histone Modifications & Transcriptional Silencing in Chlamydomonas
$448,235  NSF
RNA-Mediated Silencing: Mechanisms and Biological Roles in Chlamydomonas
$994,854  DHHS-NIH-NIGMS
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<td>Necessary Resources to Aid in the Translation of Genomics Information into Applied Technologies</td>
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<td>Field-Scale Demonstrations of Innovative Remediation Techniques for Contaminated Soil and Water</td>
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<td>Evaluation of Public Engagement Demonstration Projects on Pandemic Influenza (E-PEDPPI)</td>
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$200,000 – $999,999
DiMagno, Stephen  
Chemistry  
Anhydrous Fluoride Salts  
$420,000  
NSF

Dominguez, Aaron  
Physics and Astronomy  
PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenoessische Technische Hochschule on Advanced Pixel Silicon Detectors for the CMS Detector  
$406,500  
University of Kansas Center for Research  
Physics and Astronomy

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

Drijber, Rhae  
Agronomy and Horticulture  
Developing Technologies to Improve Soil & Nutrient Management  
$261,000  
Department of Agriculture-ARS

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

Ducharme, Stephen  
Center for Materials and Nanoscience; Physics and Astronomy  
* Rational Design of Molecular Ferroelectric Materials and Nanostructures  
$419,054  
Department of Energy-EPSCoR  
Chemistry  
Takacs, James

DOD-EPSCoR  
Nanostructure-Designed Dielectric Material for High-Energy-Density Capacitors  
$586,000  
NSF  
Ferroelectric Polymer Langmuir-Blodgett Films for Nonvolatile Random-Access Memory Applications  
$240,000

Duppong Hurley, Kristin  
Special Education and Communication Disorders  
* Treatment Implementation and Mental Health Outcomes for Youth in Residential Care  
$510,300  
DHHS-NIH-NIMH

Epstein, Michael  
Special Education and Communication Disorders  
Dussault, Patrick  
Chemistry  
* Detection of Emerging Classes of Explosives  
$950,000  
DOD-DARPA  
Cerny, Ronald  
Chemistry  
DiMagno, Stephen  
Chemistry  
Hage, David  
Chemistry  
Harbison, Gerard  
Chemistry  
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Chemistry

* Directed Reactions of Carbonyl Oxides: A New Approach to Ozonolysis  
$360,000  
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<td>Electron-Molecule Collisions in Different Environments</td>
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<td>Enabling Access to Priority Taxa for Biodiversity Studies in the Manter Laboratory of Parasitology</td>
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Gay, Timothy  Physics and Astronomy  
* MRI: Development of a Rubidium Spin Filter as a Source of Polarized Electrons  
$285,000  NSF  
Batelaan, Herman  Physics and Astronomy  
Uiterwaal, Kees  Physics and Astronomy  

Polarized Electron and Photon Physics  
$375,000  NSF  

Geisinger, Kurt  Educational Psychology  
* Technical Review of the 2006 Grade 3 Florida Comprehensive Assessment Test Results and Related Tasks  
$200,000  Florida Department of Education  

Geisler, Loren  Plant Pathology  
* Improving Management of Soybean Cyst Nematode through Extension Demonstration and Outreach  
$205,000  North Central Soybean Research Program  

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

Gitelson, Anatoly  School of Natural Resources  
* Improving Management of Soybean Cyst Nematode through Extension Demonstration and Outreach  
$496,124  NASA  
Verma, Shashi  School of Natural Resources  
Suyker, Andrew  School of Natural Resources  

*Responses of Coastal Waters to Terrestrial Inputs of Elemental CNP in Urbanizing Coastal Regions  
$264,990  University of Maryland  
Rundquist, Donald  School of Natural Resources  

Land Cover Land Use Change Effects on Surface Water Quality: Integrated MODIS & SeaWiFS Assessment of Dnieper & Don River Basins  
$598,130  NASA  

Glover, Todd  Center on Children, Youth, Families and Schools  
Establish a State-Wide Response-to-Intervention Consortium for Training & Evaluation  
$499,936  Nebraska Department of Education  
Daly, Edward  Center on Children, Youth, Families and Schools; Educational Psychology  
McCurdy, Merilee  Center on Children, Youth, Families and Schools; Educational Psychology  

Goddard, Stephen  Computer Science and Engineering  
CRI: IAD: Towards Cyber-Physical Computing at Scale: A Life-Size Experimental Facility for Applied Sensor Networks Research  
$200,000  NSF  
Ci, Song  Computer and Electronics Engineering  
Peng, Dongming  Computer and Electronics Engineering  
Sharif-Kashani, Hamid  Computer and Electronics Engineering  
Perez, Lance  Electrical Engineering
Goedert, James  Construction Systems  Rebuilding New Orleans  $293,660  Department of Housing and Urban Development
Bernstein, Stuart  Construction Systems
Holmes, William  Construction Systems
Morcous, George  Construction Systems
Schwer, Avery  Construction Systems

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

Gosselin, David  School of Natural Resources  Earth Science Institute for Elementary Educators  $356,094  NASA
Bonnstetter, Ronald  Teaching, Learning and Teacher Education

Graef, George  Agronomy and Horticulture  * Quality Traits Regional Tests  $225,535  United Soybean Board/Smith/Bucklin
* Soybean Breeding and Genetic Studies for Nebraska  $203,443  Nebraska Soybean Board
Specht, James  Agronomy and Horticulture

Greve, Vickie  Northeast Research and Extension Center  Communities Together Can  $657,000  Department of Agriculture-CSREES
Swanson, Douglas  Cooperative Extension

Hage, David  Chemistry  Chromatographic Automation of Immunoassays  $946,982  DHHS-NIH-NIGMS
Chromatographic Studies of Functional Proteomics  $756,640  DHHS-NIH-NIDDK

Harris, Steven  Center for Plant Science Innovation; Plant Pathology  Autophagy in Fungal Hyphae: Functional Genomic & Mechanical Strength Studies  $417,852  University of Maryland-Baltimore

$200,000 – $999,999
Harshman, Lawrence  
**Comparative Functional Genomics of Drosophila Obesity**  
Cornell University  
$516,548

Molecular Evolution of Genes Expressed in D. melanogaster Sperm Storage Structures  
$289,213  
Moriyama, Etsuko  
Center for Plant Science Innovation

Genome Biology of Innate Immunity: Genetic Dissection of Drosophila melanogaster Responses to Bacillus Infection  
$452,163  
Benson, Andrew  
Food Science and Technology  
Kachman, Stephen  
Statistics

Harvey, F. Edwin  
**School of Natural Resources**  
* Investigation of the Role of Rainwater Basin Wetlands in Contributing to the Functions of Groundwater Recharge, Water Quality Improvement, and the Wildlife Habitat, including an Assessment of the Impact of Sediment on these Functions  
$386,520  
Nebraska Game and Parks Commission

Habitat Conservation Plan for the Salt Creek Tiger Beetle and the Eastern Saline Wetlands of Nebraska  
$380,000  
Nebraska Game and Parks Commission

Hay, DeLynn  
**IANR-Cooperative Extension**  
North Central Region Sustainable Agriculture Professional Development Program—FY 2005  
$910,283  
Department of Agriculture-CSREES

Hayes, Michael  
**School of Natural Resources**  
* Drought Mitigation, Nebraska Project  
$347,246  
Department of Agriculture-CSREES  
Svoboda, Mark  
School of Natural Resources  
Knutson, Cody  
School of Natural Resources  
Wardlow, Brian  
School of Natural Resources

Transitioning the Drought Impact Reporter into an Operational System  
$445,257  
Department of Commerce-NOAA-NCTP

Estimating the Impacts of Complex Climatic Events: Drought in Colorado, Nebraska & New Mexico  
$300,000  
Department of Commerce-NOAA

Developing a Drought Preparedness Framework for Tribal Governments: Moving from Crisis to Risk-Based Management  
$609,539  
Department of Interior-BIA  
Knutson, Cody  
School of Natural Resources  
Svoboda, Mark  
School of Natural Resources

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

Hibbing, John  Political Science
*DHB: Identifying the Biological Underpinnings of Political Temperaments
$587,068  NSF
Espy, Kimberly  Office of Research; Psychology
Smith, Kevin  Political Science
Dodd, Michael  Psychology
Wiebe, Sandra  Psychology

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

Hoffman, Lesa  Psychology
* Visual Attention in Aging: Bridging Experimental and Psychometric Approaches
$322,745  DHHS-NIH-NIA

Hogan, Tiffany  Special Education and Communication Disorders
* The Lexicon and Phoneme Awareness
$430,591  DHHS-NIH-NIDCD
Holmes, Mary Anne  
Geosciences  
Building a Community of Women Geoscience Leaders  
$228,774  

Holz, John  
School of Natural Resources  
Fremont Lake #20 Alum Treatment Evaluation Project  
$201,700  Nebraska Department 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  
Transition of Weather & Climate Forecasts into Effective Decision-Making Tools  
$293,732  Department of Commerce-NOAA  
Hubbard, Kenneth  
School of Natural Resources  
Lyne, Gary  
Agricultural Economics  
Pytlik Zillig, Lisa  
Educational Psychology  
Bruning, Roger  
Educational Psychology  

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

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  

Hygnstrom, Scott  
School of Natural Resources  
Development of Spatially Explicit Models of Wildlife Diseases  
$588,945  Department of Agriculture-APHIS  

Irmak, Suat  
Biological Systems Engineering  
* Quantifying Evaporation, Crop Evapotranspiration, and the Water Balance for Tilled and Untilled Fields  
$679,160  Nebraska Department of Natural Resources  
Irmak, Ayse  
School of Natural Resources  
Rundquist, Donald  
School of Natural Resources  
Eisenhauer, Dean  
Biological Systems Engineering  
Van Donk, Simon  
Biological Systems Engineering  
Zoubek, Gary  
Southeast Research and Extension Center  
Rees, Jennifer  
Southeast Research and Extension Center  
Siekmann, Darrel  
Southeast Research and Extension Center  
VanDeWalle, Brandy  
Southeast Research and Extension Center  
Yoder, Ronald  
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  

$200,000 — $999,999
Jameson, Mary Liz  University of Nebraska State Museum
Monography & Phylogeny of New World Scarabaeoid Beetles
$755,300  NSF
Ratcliffe, Brett  Entomology

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

Jones, Clinton  Veterinary and Biomedical Sciences
Functional Analysis of biCPO
$375,000  Department of Agriculture-NRICGP
Functional Analysis of Proteins Encoded by the Bovine Herpesvirus 1 Latency Related Gene
$374,475  Department of Agriculture-CSREES

Does HSV-1 Latency Associated Transcript (LAT) Encode a Protein?
$402,122  DHHS-NIH-NIAID

Jones, Erick  Industrial and Management Systems Engineering
* RFID License Plate System Feasibility Study for Commercial Vehicle Operators
$250,000  Nebraska Department of Roads

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

Josiah, Scott  Nebraska State Forest Service
Community Enhancement Program
$500,000  Nebraska Department of Roads

NRCS-Technical Service Provider Project
$323,778  Department of Agriculture-NRCS

Hazardous Fuels Reduction: Pine Ridge
$582,380  Department of Agriculture-FS

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

Kim, Yong Rak  Civil Engineering
Asphalt Research Consortium
$350,000  Texas A & M Research Foundation
Allen, David  Engineering Mechanics

Layer Moduli of Nebraska Pavements for the New Mechanistic-Empirical Pavement Design Guide (MEPDG)
$255,367  Nebraska Department of Roads

$200,000 — $999,999
Knutson, Cody  
School of Natural Resources
Development of a Drought Decision Support Portal for the Republican River Basin of Colorado, Nebraska & Kansas
$223,524  
Department of Commerce-NOAA
Svoboda, Mark  
School of Natural Resources
Ryu, Jae  
School of Natural Resources

Koelsch, Richard  
Biological Systems Engineering
Heartland Integrated Water Quality Coordination Initiative
$338,650  
Iowa State University
Wortmann, Charles  
Agronomy and Horticulture

Kostelnik, Marjorie  
Education and Human Sciences
Osher Lifelong Learning Institute
$450,000  
Bernard Osher Foundation
Eversoll, Deanna  
Education and Human Sciences
Aguilar, Deanna  
Education and Human Sciences

Krull, Dean  
Agronomy and Horticulture
Managing Irrigation Systems Today & Tomorrow
$621,816  
Central Platte NRD
Benham, Brian  
Agronomy and Horticulture
Ferguson, Richard  
Agronomy and Horticulture

Lackey, Susan  
School of Natural Resources
Eastern Nebraska Water Resources Assessment LPNRD
$459,588  
Lower Platte North NRD
Ayers, Jerry  
School of Natural Resources
Hanson, Paul  
School of Natural Resources
Joeckel, Robert  
School of Natural Resources

Developing Hydrogeologic Databases to Assist in Water Resources Management — UENRD
$459,600  
Upper Elkhorn NRD

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

Lee, Kevin  
Physics and Astronomy
ClassAction: Model Rapid-Feedback & Dynam Formative Assess System
$359,768  
NSF
Schmidt, Edward  
Physics and Astronomy

Lenters, John  
School of Natural Resources
* Riparian Vegetation Impacts on Water Quantity, Quality, and Stream Ecology
$433,960  
Nebraska Department of Natural Resources
Istanbulluoglu, Erkan  
Geosciences
Scott, Durelle  
Geosciences
Lewis, Charlotte  Center on Children, Families and the Law  
Answers4Families/NRRS Database
$217,718  Nebraska Department of Health and Human Services

Li, Ming  Psychology  
* Anxiolytic Property of Atypical Antipsychotics
$345,699  DHHS-NIH-NIMH

Lindquist, John  Agronomy and Horticulture
Contribution of Fusarium lateritium to Weed Suppressive Soils & Weed Abundance
$366,186  Department of Agriculture-NRICGP
Drijber, Rhae  Agronomy and Horticulture
Yuen, Gary  Plant Pathology

Liou, Sy-Hwang  Physics and Astronomy  
* Advanced Probes for Characterizations of Magnetic Nanostructures
$539,998  DOD-DEPSCoR
Sellmyer, David  Center for Materials and Nanoscience
Skomski, Ralph  Physics and Astronomy

Liu, Mingsheng  Architectural Engineering  
* CC Implementation of VA Medical Center at Omaha
$414,963  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  Department of Agriculture-NRICGP

$200,000 — $999,999
Lu, Yongfeng  Electrical Engineering
* Coating and Patterning Diamond Films by Laser Resonant Bond Breaking in Polymer Precursors
$259,384  NSF

Laser-Assisted Fabrication of Large-Scale 3-D Photonic Bandgap Structures
$350,000  DOD-DEPSCoR

Self-Integration of Carbon-Nanotube Sensors in Functional Integrated Circuits
$240,000  NSF

Mackenzie, Sally  Center for Plant Science Innovation
* Nuclear Mechanisms that Influence Mitochondrial Genome Stability
$450,000  NSF

Christensen, Alan  Biological Sciences

Nuclear-Organellar Interactions Involving AtMSH1 in Arabidopsis
$650,000  Department of Energy

Training Graduate Students in Plant Breeding Using Crop Drought Tolerance Improvement as a Model
$599,999  Department of Agriculture-NRICGP
Fromm, Michael  Center for Plant Science Innovation

Mamo, Martha  Agronomy and Horticulture
Pollution & Economic Decision Support Tool for Impaired Watershed Management Plans in Eastern Nebraska
$335,000  Department 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)
$477,267  Department of Interior-BR

McQuillan, Julia  Sociology
Infertility: Pathways & Psychosocial Outcomes
$637,373  Pennsylvania State University
<table>
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<tr>
<th>Name</th>
<th>Institution</th>
<th>Project Description</th>
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<td>Meagher, Michael</td>
<td>Chemical and Biomolecular Engineering</td>
<td>Manufacture of a cGMP Lot of a Recombinant Next Generation PA Vaccine for Phase I Clinical Trial and Toxicity Testing</td>
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<td>Chemical and Biomolecular Engineering</td>
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<td>Irrigation Management with Limited Water: A Farm Education Program</td>
<td>$287,080</td>
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<td>Biological Systems Engineering</td>
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<td>West Central Research and Extension Center</td>
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<td>Merchant, James</td>
<td>School of Natural Resources</td>
<td>Initial Design and Implementation of the Nebraska Geospatial Data Sharing and Web Services Network</td>
<td>$260,870</td>
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<td>Miller, Nancy</td>
<td>Textiles, Clothing and Design</td>
<td>Collaborative Research on Small Business Network Creation and Outcomes for Change and Innovation</td>
<td>$230,011</td>
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<td>Mitra, Amit</td>
<td>Plant Pathology</td>
<td>Functional Map of Tomato Genome using Direct Repeat Induced Gene Silencing</td>
<td>$301,000</td>
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<td>Moore, Raymond</td>
<td>Engineering</td>
<td>Students United in Classes, Community, Engineering, Service and Study Abroad</td>
<td>$591,995</td>
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<td>Moriyama, Etsuko</td>
<td>Center for Plant Science Innovation; Biological Sciences</td>
<td>Efficient and Sensitive Mining System for G-Protein Coupled Receptors Large-Scale Simultaneous Multiple Alignment &amp; Phylogeny Estimation</td>
<td>$577,014</td>
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<td>Morris, T. Jack</td>
<td>Biological Sciences</td>
<td>The Role of a Host Protein (TIP) in the Resistance Response of Arabidopsis to Turnip Crinkle Virus Infection</td>
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<td>Veterinary and Biomedical Sciences</td>
<td>Influence of Enterotoxins on Virulence and Colonization of Porcine Intestine by E.coli</td>
<td>$270,000</td>
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Nelson, J. Ron  
Special Education and Communication Disorders  
Effects of a Supplementary Vocabulary Intervention for Students with Limited English Proficiency  
$694,884  
Department of Education

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

Nguyen, Lim  
Computer and Electronics Engineering  
* Self-Encoded Spread Spectrum Modulation for Robust Anti-Jamming Communication  
$379,767  
Jang, Won  
Computer and Electronics Engineering

Norton, Will  
Journalism and Mass Communications  
* Carnegie-Knight Initiative on the Future of Journalism Education  
$250,000  
Carnegie Corporation of New York

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  
Li, Chenhong  
Diamond, Judy  
Biological Sciences  
University of Nebraska State Museum

Osorio, Fernando  
Veterinary and Biomedical Sciences  
* Porcine Reproductive and Respiratory Virus: Role of Viral Genes in Virulence/Attenuation  
$375,000  
Pattanaik, Asit  
Veterinary and Biomedical Sciences

Pattanaik, Asit  
Veterinary and Biomedical Sciences  
VSV RNA Transcription and Replication  
$996,128  
DHHS-NIH-NIAID

Pegg, Mark  
School of Natural Resources  
* Sturgeon Management in the Platte River  
$801,000  
Nebraska Game and Parks Commission
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
$384,390  Department of Education
Goddard, Stephen  Computer Science and Engineering

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

Platt, Stephen  Mechanical Engineering
In Vivo Robotic Camera System for Laparoscopic Surgery
$389,358  DHHS-NIH-NIBIB
Farritor, Shane  Mechanical Engineering

Pope, Kevin  School of Natural Resources
Recruitment of Walleye and White Bass in Irrigation Reservoirs
$484,448  Nebraska Game and Parks Commission

Powell, Larkin  School of Natural Resources
Assessing Local & Regional Variability in Productivity & Fidelity of Grassland Birds on National Park Service Units in the Great Plains
$212,122  Dept of Interior-GS
Allen, Craig  School of Natural Resources

Rajca, Andrzej  Chemistry
* High-Spin Nitroxide Diradical for Biomedical Imaging Applications
$421,174  DHHS-NIH-NIBIB
Rajca, Suchada  Chemistry
Stable High-Spin Polyradicals & Chiral Pi-Conjugated Systems
$570,715  NSF

Rajurkar, Kamlakar  Industrial and Management Systems Engineering
Analysis & Gap Monitoring for Improving Micro EDM Performance-Supplement
$202,500  NSF
Modeling and Analysis of Material Removal and Tool Wear in Micro Ultrasonic Machining
$247,760  NSF

Ratcliffe, Brett  University of Nebraska State Museum; Entomology
Faunistic Survey of Dynastinae of Mexico, Guatemala, & Belize
$481,493  NSF

$200,000 — $999,999
Redepenning, Jody  
Center for Materials and Nanoscience  
Chemically Modified Nano-Electrodes for Magnetoelectronics Applications  
$390,000  
Binek, Christian  
Physics and Astronomy  
Sokolov, Andrei  
Physics and Astronomy

Reichenbach, Stephen  
Computer Science and Engineering  
SEI: Information Modeling for Comparative Visualizations & Analyses  
$389,228  
Reid, John  
Mechanical Engineering  
Midwest States Regional Pooled Fund Program  
$590,000  
Sicking, Dean  
Midwest Roadside Safety  
Faller, Ron  
Midwest Roadside Safety

Reid, Robert  
Special Education and Communication Disorders  
Leadership Training in Attention Deficit Hyperactivity Disorder  
$620,006  
Rilett, Laurence  
Civil Engineering  
* Nebraska Transportation Center Seed Funding  
$300,000  
Jones, Elizabeth  
Civil Engineering  
Development of State of the Art Traffic Micro-Simulation Model for Nebraska  
$222,896  
Jones, Elizabeth  
Civil Engineering  
Khattak, Aemal  
Civil Engineering

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

Rothermel, Gregg  
Computer Science and Engineering  
CRI: Community Resource to Support Controlled Experimentation with Program Analysis and Testing Techniques  
$874,636  
Elbaum, Sebastian  
Computer Science and Engineering  
Dwyer, Matthew  
Computer Science and Engineering  
ITR: Dependable End-User Software  
$439,593  
Oregon State University
Ryu, Jae  School of Natural Resources
  * Developing Seasonal Predictive Capability for Drought Mitigation Decision Support System
  $311,000  University of Illinois, Urbana-Champaign
Svoboda, Mark  School of Natural Resources
Knutson, Cody  School of Natural Resources
Sittler, Megan  School of Natural Resources

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

Saraf, Ravi  Chemical and Biomolecular Engineering
  * Nanodevice for Digital Imaging of Palpable Structure at Human-Finger Resolution for Clinical Breast Examination
  $377,552  DHHS-NIH-NIBIB
  Nanodevice for Imaging Normal Stress Distribution with Application in Sensing Texture and Feel by Touching
  $332,156  NSF

Schacht, Walter  Agronomy and Horticulture
  Grasslands Ecological Monitoring System
  $608,880  Department 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  Department of Commerce-NIST

$200,000 — $999,999
Scheffler, Marilyn  Special Education and Communication Disorders
  * Project RTI: Building Capacity Together to Implement Response to Intervention
$800,000  Department of Education
Sanger, Dixie  Special Education and Communication Disorders

Project PROMOTE
$797,184  Department of Education
Sanger, Dixie  Special Education and Communication Disorders

Project Support: Speech-Language Pathologists Supporting Literacy Instruction
$800,000  Department 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  Department of Education
Hux, Karen  Special Education and Communication Disorders

Project NETS: Nebraska Educational Transition Specialists
$798,624  Department of Education

Sellmyer, David  Physics and Astronomy; Center for Materials and Nanoscience
  Studies of Artificially Structured Composite Magnets
$492,000  Department of Energy

Materials Research Science & Engineering Center: Quantum and Spin Phenomena in Nanomagnetic Structures
$200,000  NanoElectronics Research Corporation
Belashchenko, Kirill  Physics and Astronomy
Tsymbal, Evgeny  Physics and Astronomy

Shadwick, Bradley  Physics and Astronomy
* Wavebreaking and Particle Trapping in Collisionless Plasmas
$561,840  Department of Energy

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

Shapiro, Charles  Northeast Research and Extension Center
  Improving Organic Farming Systems across Nebraska Agroecosystems
$762,949  Department of Agriculture-CSREES
Baltesperger, David  Panhandle Research and Extension Center
Brandle, James  School of Natural Resources
Francis, Charles  Agronomy and Horticulture
Knezevic, Stevan  Northeast Research and Extension Center
Wright, Robert  Entomology
Johnson, Ron  School of Natural Resources
Shea, Patrick  School of Natural Resources
Targeting Watershed Vulnerability & Behaviors Leading to Adoption of Conservation Management Practices
$570,000  Department 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  Center on Children, Youth, Families and Schools; Educational Psychology
* Consultation Based Interventions for Students with Social and Behavioral Concerns
$599,694  Department of Education
Glover, Todd  Center on Children, Youth, Families and Schools
Bovaird, James  Center on Children, Youth, Families and Schools; Educational Psychology

* Leadership Training in Interdisciplinary Collaboration
$800,000  Department of Education

Shield, Jeffrey  Mechanical Engineering
* Novel Nanostructures for High-Energy Nanocomposite Permanent Magnets
$251,819  NSF

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

Sicking, Dean  Civil Engineering
* Enhancement of Research Infrastructure at the Midwest Roadside Safety Facility
$346,000  Nebraska Department of Roads

Identification of Vehicular Impact Conditions Associated with Serious Run-Off-Road Crashes
$634,521  National Cooperative Highway Research Program
Khattak, Aemal  Civil Engineering
Jones, Elizabeth  Civil Engineering

Improved Procedures for Safety Performance Evaluation of Roadside Features
$833,940  National Cooperative Highway Research Program
Reid, John  Mechanical Engineering
Rohde, John  Civil Engineering
Faller, Ronald  Civil Engineering

Siegfried, Blair  Entomology
Quantifying Risk Factors for Evolution of European Corn Borer Resistance to Cry1F Expressing Corn Hybrids
$346,845  Department of Agriculture-CSREES

Evaluating Bioactivity of Insecticidal Proteins against European Corn Borer (Lepidoptera: Crambidae)
$220,000  Pioneer Hi-Bred
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<td>* The Luminosity Measurement for the DZERO Experiment at Fermilab</td>
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<td>* Deciphering Novel Signaling Roles for Amino Acid Conjugates of Jasmonic Acid</td>
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<td>* Improving the Safety of Prepared, But Not Ready-To-Eat Microwavable Foods through Heat Transfer and Pathogen Destruction Modeling</td>
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<td>* Development of a “Drought Ready Communities” Program</td>
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* Integrating Enhanced GRACE Water Storage Data into the U.S. and North American Drought Monitors

$200,000 — $999,999
Swanson, David  Computer Science and Engineering  
MRI: Acquisition of Affordable Shared-Memory Computing & Scalable Storage for Scientists & Engineers  
$300,000  NSF  

Tadros, Maher  Civil Engineering  
Class C Fly Ash in Concrete Pavement  
Evaluation & Repair Procedures for Precast/Prestressed Concrete Girders w/Longitudinal Cracking in the Web  
$312,379  Nebraska Department of Roads  

Tuan, Christopher  Civil Engineering  
Impact of Large 0.7 inch Strand on NU-I Girder and NUDeck  
$244,408  Nebraska Department of Roads  

Takacs, James  Chemistry  
* Ligand Scaffold Optimization for Catalytic Asymmetric Hydroboration  
$420,000  NSF  

Tan, Li  Engineering Mechanics  
* Self-Organized Nanolayers for Organic Thin-Film Transistors  
$387,463  NSF  

Zeng, Xiao Cheng  Chemistry  
* Bi-Functional Pentacene Monolayer for Organic Field-Effect Transistors  
$299,410  DOD-DEPSCoR  

Taylor, Steve  Food Science and Technology  
Food Allergen Database  
$617,846  Various Industries  

Goodman, Richard  Food Science and Technology  
Allergenicity Evaluation of Isinglass  
$555,035  Various Industries  

$200,000 – $999,999
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  Department of Agriculture-CSREES
Wang, Lijun  Biological Systems Engineering
Weller, Curtis  Biological Systems Engineering
Burson, Dennis  Animal Science

Improving Safety of Shell Eggs & Egg Products by Addressing Critical Research Needs for Salmonella Enteritidis & Salmonella spp
$599,951  Department of Agriculture-NRICGP
Froning, Glenn  Food Science and Technology
Subbiah, Jeyamkondan  Biological Systems Engineering

Thomas, Steven  School of Natural Resources
FIBR: Linking Genes to Ecosystems
$307,189  University of California-Riverside

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

Turner, Joseph  Engineering Mechanics
Development of Improved Product Performance through Optimization & Modeling of Engineering Materials Processing & Function
$588,028  Brenco/Amsted Industries
Cole, Kevin  Mechanical Engineering

Tyler, Kimberly  Sociology
Social Networks, HIV Risk Behaviors & Homeless Youth
$356,771  DHHS-NIH-NIDA

Uiterwaal, Kees  Physics and Astronomy
Inside a Focused Laser Beam: Molecular Dynamics
$477,001  NSF

Umstadter, Donald  Physics and Astronomy
Laser Produced Coherent X-Ray Sources
$570,000  Department of Energy

Van Etten, James  Plant Pathology
Center for Innovation in Membrane Protein Production
$553,105  University of California-San Francisco
Dunigan, David  Plant Pathology
Variyam, Vinod  Computer Science and Engineering  Studies in Computational Complexity Theory  $200,000  NSF

Velipasalar, Senem  Electrical Engineering  * CSR-DMSS, SM: Cooperative Activity Analysis in Wireless Smart-Camera Networks (Wi-SCaNs)  $300,000  NSF

Wagner, William  Biological Sciences  * Effects of Predation by a Phonotactic Parasitoid on Male and Female Reproductive Behavior in a Field Cricket  $499,414  NSF

Waldren, Vernon  Southeast Research and Extension Center  HUD Omaha Lead Site  Department of Housing and Urban Development  $300,000

Waller, Steven  Agricultural Sciences and Natural Resources  * Agriculture in the Classroom  $236,742  Nebraska Foundation for Agricultural Awareness

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

Wang, Jun  Geosciences  * Regional Air Quality and Climate Impact of Biomass-Burning Aerosols from Central America: An Analysis with EOS Data and Numerical Models  $300,676  NASA

Weisz, Victoria  Center on Children, Families and the Law  Nebraska State Court Improvement  Supreme Court of Nebraska  $236,714

Weller, Curtis  Biological Systems Engineering  Purification Process Influences on Structural & Nutritional Function of Grain Sorghum  $338,000  Department of Agriculture-NRICGP

Wiegand, Roger  Mathematics  GAANN Fellowship Program: Mathematics at UNL  $638,635  Department of Education

$200,000 – $999,999
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<td>Vaccination against Mucosal HIV Clade C Transmission</td>
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<td>Increasing Participation in Computer Science, Engineering, &amp; Mathematics through NSF Scholarships at UNL</td>
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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  
* Enhancing the Value of Water through Management Education  
$225,000  
Nebraska Department of Natural Resources

Yohe, John  
IANR-International Programs  
Transfer of Sorghum & Millet Production, Processing & Marketing Technologies Program in Mali  
$750,000  
U.S. Agency for International Development

Zempleni, Janos  
Nutrition and Health Sciences  
Biotin Affects Cytokine Metabolism  
$409,586  
Department of Agriculture-NRICGP

Zeng, Xiao Cheng  
Chemistry  
ITR: Multiscale Treatment of Systems with Strong Heterogeneities  
$715,121  
NSF

Zera, Anthony  
Biological Sciences  
Enzymatic and Molecular Bases of Trade-Offs in Lipid Metabolism that Underlie Life History Trade-Off  
$435,682  
NSF

Zlotnik, Vitaly  
Geosciences  
Mechanisms Producing Variation in Lake Salinity in Dune Environments: Nebraska Sand Hills  
$219,958  
NSF

$200,000 — $999,999
Early Career Awards

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

Cohen, Myra
Computer Science and Engineering
* Configuration-Aware Testing Through Intelligent Sampling to Improve Software Dependability
$400,000  NSF

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

Elbaum, Sebastian
Computer Science and Engineering
Leveraging Field Data to Test Pervasive Systems
$412,594  NSF
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<td>Xu, Lisong</td>
<td>Computer Science and Engineering</td>
<td>Stochastic TCP Friendliness: Exploring the Design Space of TCP-Friendly Traffic Control in Best-Effort Internet</td>
<td>NSF</td>
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<td></td>
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<td>$400,000</td>
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K Awards

National Institutes of Health K Awards provide support for intensive development experiences in one of the biomedical, behavioral or clinical sciences leading to research independence. Candidates for these awards normally must have a research or health-professional doctorate and postdoctoral research experience at the time of application. The proposed career-development experience must be in a research area new to the applicant and/or one in which an additional supervised research experience will substantially add to the applicant’s research capabilities. Candidates must provide a plan for achieving independent research support by the end of the award, and must be willing to spend a minimum of .75 FTE conducting research and career development during the award three-, four-, or five-year project period.

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
$670,286 DHHS-NIH-NIMH

Peterson, Daniel
Food Science and Technology
* Adaptive Immune Response to Symbiotic Bacteria as a Mediator of Gut Homeostasis
$379,890 DHHS-NIH-NIAID

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
Young Investigator Research Program (YIP)

The Department of Defense-Air Force Office of Scientific Research bestows its Young Investigator Research Program (YIP) award on scientists and engineers at research institutions across the United States who have received Ph.D. or equivalent degrees in the last five years and show exceptional ability and promise for conducting basic research. The objective of the program is to foster creative basic research in science and engineering, enhance early career development of outstanding young investigators and increase opportunities for the young investigators to recognize the Air Force mission and the related challenges in science and engineering. Those selected receive the grants over a three-year period.

Cohen, Myra
Computer Science and Engineering
$316,551 DOD-Air Force Office of Scientific Research
Arts and Humanities Awards
$50,000 or more
Active awards in 2008
* Indicates new in 2008

Awakuni-Swetland, Mark
Anthropology
* Omaha and Ponca Digital Dictionary
$348,800
National Endowment for the Humanities
09/01/08 – 08/31/11
Walter, Katherine
Center for Digital Research in the Humanities/Libraries

Mark Awakuni-Swetland, assistant professor of anthropology, and colleagues are creating a comprehensive Omaha and Ponca digital dictionary that will be available online for native communities, students, researchers and the public. The National Endowment for the Humanities funds this work through a joint NEH-National Science Foundation-Smithsonian Institution “Documenting Endangered Languages” initiative. It’s also a “We the People” project, a special NEH recognition for model projects advancing the study, teaching and understanding of American history and culture. This project will provide extensive information on the Omaha and Ponca language and will be far more robust and usable than existing resources.

Kooser, Ted
English
American Life in Poetry Project
$141,800
Poetry Foundation
1/1/05 – 6/30/09

The Poetry Foundation, in partnership with the Library of Congress, supports the American Life in Poetry project, an initiative of Ted Kooser, the 2004-2006 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 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.

* Walt Whitman’s Civil War Writings
$300,000 National Endowment for the Humanities
07/01/08 – 06/30/11

* Walt Whitman’s Civil War Writings
$80,000 American Council of Learned Societies
07/01/08 – 12/31/09

* Walt Whitman and the Civil War
$75,000 National Historical Publications and Records Commission
10/01/08 – 09/30/09

With grants from the National Endowment for the Humanities, the American Council of Learned Societies and the National Historical Publications and Records Commission, the Walt Whitman Archive will create a comprehensive edition of the Civil War writings of Walt Whitman. The War profoundly shaped *Leaves of Grass*, the first masterpiece of American poetry, and Whitman extensively depicted and analyzed the Civil War in journals, notebooks, letters, essays, journals, memoirs and manuscript drafts. The hundreds of documents that give voice to Whitman’s experience of the war will be electronically edited, arranged and published. In addition to making these documents freely available, this work will help to model for other scholars best practices in creating, publishing and sustaining electronic editions. The project will provide scholars and students—of the Civil War, of Whitman and of American history in general—a site where they can read, evaluate and experience a set of texts that provide unique insight into the American experience of the Civil War.
Walter, Katherine

Interoperability of Metadata Standards for Digital Thematic Research Collections

$169,651

11/1/05 – 4/30/08

Institute of Museum and Library Services

Price, Kenneth

Bolin, Mary

Barney, Brett

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

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**

*Indicates new in 2008*

**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  
* Nebraska’s Rural Arts Education Initiative  
$25,000  
National Endowment for the Arts

**ArtsReach**  
$50,000  
Nebraskans for the Arts

**Umo‘ho‘ Cultural Arts Program**  
$23,250  
Kennedy Center for Performing 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 & Museum

**Jewell, Andrew**  
Center for Digital Research in the Humanities  
* The Crowded Page  
$49,577  
National Endowment for the Humanities

**Mapping a Writer’s World: A Geographic Chronology of Willa Cather’s Life**  
$7,800  
Nebraska Humanities Council

**Kendall, Laura**  
Lied Center for Performing Arts  
* Loop Divers by Troika Ranch  
$35,000  
Woods Charitable Fund/ Lincoln Community Foundation

**Lundine, Heather**  
University Press  
* Literary Publishing at the University of Nebraska Press  
$20,000  
National Endowment for the Arts

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

**Price, Kenneth**  
English  
Walt Whitman Archive  
$14,000  
Cooper Foundation
Richmond, John  School of Music  *2009 Honors Jazz Weekend & Summer Camp  $10,000  Berman Music Foundation  
Haar, Ora  School of Music  

Stubbendieck, James  Great Plains Studies  * Celebrating Darwin’s Legacy  $8,960  Nebraska Humanities Council  

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  $9,000  Friends of the Hillestad Textiles Gallery
Divya Jaroni, Veterinary and Biomedical Sciences; Mindy Brashears
Title: Lactic Acid Bacteria Cultures that Inhibit Food-Borne Pathogens
Date: 1/29/2008
Number: 7,323,166
Country: United States of America

Stephen Robert Platt, Mechanical Engineering; Shane Farritor, Mechanical Engineering; Dmitry Oleynikov; Adnan Hadzialic
Title: Surgical Camera Robot
Date: 3/4/2008
Number: 7,339,341
Country: United States of America

Bernard Doudin, Physics & Astronomy; Christian Binek, Physics & Astronomy
Title: Magnetic Spin Valve With a Magnetoelectric Element
Date: 4/15/2008
Number: 7,358,846
Country: United States of America

Raul Barletta, Veterinary and Biomedical Sciences; Ofelia Barletta-Chacon, Veterinary and Biomedical Sciences
Title: Recombinant Mycobacteria Overexpressing D-alanine Ligase Gene and Uses Therefore
Date: 5/13/2008
Number: 7,371,571
Country: United States of America

Alan Christensen, Biological Sciences; Douglas Dorer
Title: Nucleic Acid Sequences Found in Drosophila Melanogaster That Encode Proteins Essential for Viability and Method of Use
Date: 6/10/2008
Number: 7,384,745
Country: United States of America

Jody Redepenning, Chemistry
Title: Electrolytic Deposition of Coatings for Prosthetic Metals and Alloys
Date: 6/17/2008
Number: 7,387,846
Country: United States of America
Richard Arnold, Engineering Research Centers; Shane Farritor, Mechanical Engineering; Chris Norman
Title: Method and Apparatus for Noncontact Relative Rail Displacement, Track Modulus and Stiffness Measurement by a Moving Rail Vehicle
Date: 7/22/2008
Number: 7,403,296
Country: United States of America

Dean Sicking, Civil Engineering; Jim C. Holloway, Midwest Roadside Safety Program; John D. Reid, Mechanical Engineering; John R. Rohde, Civil Engineering; Karla Polivka, Midwest Roadside Safety Program; Robert W. Bielenberg, Midwest Roadside Safety Program; Ronald Faller, Midwest Roadside Safety Program; Eric Keller; Kenneth Addink
Title: High-Impact, Energy-Absorbing Vehicle Barrier System
Date: 8/12/2008
Number: 7,410,320 B2
Country: United States of America
George Graef, Agronomy and Horticulture; Leslie Korte, Agronomy and Horticulture; Dennis White, Agronomy and Horticulture
Technology: Soybean variety NE3001
Two licensees: Grain Place Foods, Inc.; Hendrick Seeds

Shane Farritor, Mechanical Engineering; Dmitry Oleynikov
Technology: Devices for surgical applications
Licensee: Virtual Incision Corp.

J. Ron Nelson, Educational Psychology
Technology: Online vocabulary: Progress monitoring assessment
Licensee: Cambium Learning, Inc.

Vadim Gladyshev, Biochemistry
Technology: A system for efficient expression of selenoproteins in mammalian cells
Licensee: R&D Systems, Inc.

Maher Tadros, Civil Engineering
Technology: Pre-cast post-tensioned segmental concrete pole system
Licensee: Superior Concrete Products

Milford Hanna, Biological Systems Engineering; Robert Weber, Industrial Ag Products Center
Technology: Bio-based polymer and method for making the same (packing peanuts made mostly of starch with physical properties superior to all starch peanuts)
Licensee: StarchTech, Inc.

Stefan Newbold, Facilities Management; Lalit Agarwal, Facilities Management; Jim Hines, Facilities Management; and others
Technology: Campus energy management & control system
Licensee: DTL Controls, LLC

Donald Rundquist, School of Natural Resources; Bryan Leavitt, School of Natural Resources
Technology: CALMIT (Center for Advanced Land Management Information Technologies) data acquisition program software for hyperspectral, photographic and DPS data collection and management
Licensee: South Dakota State University
Subramaniam Srikumaran, Veterinary & Biomedical Sciences; Martha Gentry-Nielsen
Technology: Hybridoma cell lines for the production of antibodies against *P. haemolytica* A1 leukotoxin
Licensee: Boehringer Ingelheim Vetmedica, P. (BIVI)

Peter Stephen Baenziger, Agronomy and Horticulture
Technology: Wheat variety NE01643
Three licensees: North Dakota Crop Improvement and Seed Association (NDCISA, dba Dakota Select Seed); Albert Lea Seed House; James Stewart II
CREATIVE WORKS IN FINE AND PERFORMING ARTS
Faculty who created, performed or produced creative works in fine and performing arts, nationally or internationally

Scott Anderson
School of Music
Soloist, trombone, Johan De Meij’s T-Bone Concerto, Twin Ports Wind Orchestra, University of Minnesota-Duluth, Duluth, MN

John Bailey
School of Music
Soloist, piccolo and piano, Chutzpah! Florida Flute Fair, Orlando, FL
Conductor and featured soloist (with Christian Bohnenstengel), Venezuelan National Flute Choir, South American flute orchestra concert tour, Caracas, Venezuela
Conductor, International Flute Orchestra (35 professional flutists from around the U.S. and Canada), South American flute orchestra concert tour, Valparaiso, Concepción and Santiago, Chile
Conductor, High Winds Flute Orchestra (150 flutists) opening concert; International Flute Orchestra showcase concert, National Flute Association’s annual national convention, Kansas City, MO

Carolyn Barber
School of Music
Conductor, Dorian Festival Honor Band, Luther College, Decorah, IA
Conductor, Maryland Music Educators Association Junior All-State Band, Baltimore, MD
Conductor, with U.S. Air Force Heartland of America Band, Percy Grainger’s The Merry King, 2008 College Band Directors National Association Conference

Paul Barnes
School of Music
Artist in residence, 2008 Oxbridge International C.S. Lewis Conference, Oxford and Cambridge, England

Peter Bouffard
School of Music
Director of jazz and featured performer, University of Maine Summer Youth Music Camp, Orono, ME

Kate Butler
School of Music
Artist in residence, 2008 Oxbridge International C.S. Lewis Conference, Oxford and Cambridge, England
Alto soloist, Honegger’s King David, Tulsa Oratorio Chorus and Orchestra, Tulsa, OK
Soloist, Music for a Summer Afternoon, Redlands, CA

Mark Clinton
School of Music
Featured artist, piano, Seattle International Piano Festival and Competition, Seattle, WA

Chris Ford
Architecture
Artist, residential architecture, TAIMEN, H&R Block Artspace Exhibit: “The Design Flatfile,” Kansas City, MO
Dana Fritz  
**Art and Art History**  
Artist, photography, *The Culture of Nature*, Kansas City Artists Coalition, Kansas City, MO

Therees Hibbard  
**School of Music**  
Workshop leader and guest conductor, St. Olaf Choir, Chapel Choir and Viking Chorus, St. Olaf College, Northfield, MN  
Conductor, presenter and workshop leader, Conference on Worship, Theology and the Arts, St. Olaf College, Northfield, MN

Michael James  
**Textiles, Clothing and Design**  
Artist, wall quilts, *The Life in a Day: New Work*, Modern Arts Midwest, Lincoln, NE  
Artist, *Structure, Surface and Expression: Quilt Directions Today*. Southeastern Center for Contemporary Art, Winston-Salem, NC  
Artist, *Interference Effect: (Betrayed) Lover’s Knot #2*, Craft in America touring exhibit, Little Rock, AR; Portland, OR; San Diego, CA; Houston, TX; Bloomfield Hills, MI; Oklahoma City, OK; Brockton, MA

Karen Kunc  
**Art and Art History**  
Artist, prints, *Visualizing the Urban/Rural Divide*, Malaspina Print Gallery, Vancouver, British Columbia, Canada  

Christopher Marks  
**School of Music**  
Featured recitalist, organ, 2008 National Convention of the Organ Historical Society, Seattle, WA

Jeffrey McCray  
**School of Music**  
Performer, bassoon, Samuel Adler’s *Canto XII for solo bassoon*, 2008 Conference of the International Double Reed Society, Brigham Young University, Provo, UT

William McMullen  
**School of Music**  
Recitalist (accompanied by Donna Harler-Smith, UNL School of Music, Charles (Chip) Smith and pianist Christopher Koelzer), oboe, Randall Snyder’s *Lagu Obo (Song of the Oboe)* with poetry by Goenawan Mohamad; Paul Reade’s *Aspects of a Landscape* with poetry by Rosemary Bergstrom; and Benjamin Britten’s *Two Insect Pieces* with poetry by Abraham Cowley and Daryl Hine, 2008 Conference of the International Double Reed, Brigham Young University, Provo, UT

Eric Richards  
**School of Music**  
Composer, premiere, *Fantasia on Kang Ding Love Song*, Shanghai Conservatory of Music Jazz Orchestra, Shanghai, China  
Composer, *Three Scenes for American Trombone and Brass Orchestra*, Holland Center for the Performing Arts, Omaha, NE
Francisco Souto
Artist, prints on paper, 7th Kochi International Triennial of Prints, Ino-Cho Paper Museum, Kochi, Japan
Artist, prints on paper, 2008 New York International Print Fair, The Park Avenue Armory, New York City, New York
Artist, prints on paper, *Subject(s) to Change: American Art from the Permanent Collection*, Sheldon Museum of Art, Lincoln, NE

Sandra Williams
Artist, mixed media, *30 Years of Clay*, Borelli Edwards Gallery, Pittsburgh, PA

The Moran Woodwind Quintet
Jeffrey McCray, bassoon
Diane Barger, clarinet
John Bailey, flute
Alan Mattingly, horn
William McMullen, oboe
Performers, University of Kansas at Lawrence, William Jewell College, the University of Missouri-Columbia and Washburn University, Topeka

UNL Faculty Brass Quintet
Darryl White and Craig Bircher, trumpets
Alan Mattingly, horn
Scott Anderson, trombone
Craig Fuller, tuba
Guest artists, Season opener, Black Hills Chamber Music Society, Rapid City, SD
Performers, International Brass Chamber Music Festival, University of Louisville, Louisville, KY
Performers, University of Missouri-Kansas City Conservatory of Music, Washburn University and Kansas State University
Douglas A. Abbott  Child, Youth and Family Studies

Katherine S. Ankerson  Architecture

Mark J. Awakuni-Swatland  Anthropology; Institute for Ethnic Studies
Author. Dance Lodges of the Omaha People. Lincoln, NE: University of Nebraska Press.

Stephen C. Behrendt  English

Susan Belasco  English

Mark Bernards  Agronomy and Horticulture
Co-author, with Roch E. Gaussoin, Agronomy and Horticulture; Robert N. Klein, West Central Research and Extension Center; Stevan Z. Knezevic, Northeast Research and Extension Center; Drew J. Lyon, Panhandle Research and Extension Center; Lowell D. Sandell, Agronomy and Horticulture; Robert G. Wilson, Panhandle Research and Extension Center; Patrick J. Shea, School of Natural Resources; Clyde L. Ogg, Agronomy and Horticulture. Guide for Weed Management in Nebraska. Lincoln, NE: University of Nebraska–Lincoln.

John E. Bernthal  Special Education and Communication Disorders

David R. Beukelman  Special Education and Communication Disorders
Co-author, with Dr. Pat Mirenda. Augmentative and Alternative Communication (Korean Translation). Seoul, Korea: Hakjisa Publisher.

Brian H. Bornstein  Psychology
Thomas Borstelmann  
History  
Co-author, with Jacqueline Jones; Peter H. Wood; Elaine Tyler May;  
Vicki Ruiz. Created Equal: A Social and Political History of the  

C. Stephen Bradford  
College of Law  
Co-author, with Gary Ames. Basic Accounting Principles for  
Lawyers, 2nd ed. LexisNexis.

Dawn O. Braithwaite  
Communication Studies  
Co-editor and author, with Leslie A. Baxter. Engaging Theories in  
Interpersonal Communication: Multiple Perspectives. Thousand  

David O. Carter  
Entomology  
Co-editor, with Mark Tibbett. Soil Analysis in Forensic Taphonomy:  
Chemical and Biological Effects of Buried Human Remains. Boca  
Raton, FL: CRC Press.

Brent Cejda  
Educational Administration  
Co-editor, with J. H. Johnson. Community College Exemplary  
Initiatives. Lincoln, NE: National Council of Instructional  
Administrators.

Enrique Martínez Celaya  
Art and Art History  
Author. Nomad. Lincoln, NE: University of Nebraska Press.

John Comer  
Political Science  
Co-author, with John Gruhl, Political Science; Susan Rigdon; Susan  
Welch. Understanding American Government. Belmont, CA:  
Thomson Wadsworth.

Sidnie W. Crawford  
Classics and Religious Studies  
Author. Rewriting Scripture in Second Temple Times. Grand Rapids,  
MI: Eerdmans.

John W. Creswell  
Educational Psychology  
Co-editor, with Vicki L. Plano Clark, Educational Psychology. The  

Rochelle L. Dalla  
Child, Youth and Family Studies  
Primary editor, with John DeFraiin, Child, Youth and Family Studies;  
Julie Johnson, Child, Youth and Family Studies; Douglas A. Abbott,  
Child, Youth and Family Studies. Strengths and Challenges of New  
Immigrant Families: Implications for Research, Education, Policy,  
John D. DeFrain  
*Child, Youth and Family Studies*  


Co-author, with Eileen M. Krumbach, Southeast Research and Extension Center; LaDonna A. Werth, Northeast Research and Extension Center; Mary K. Warner, West Central Research and Extension Center; Ruth E. Vonderohe, Northeast Research and Extension Center; Debra E. Schroeder, Northeast Research and Extension Center; Sarah Effken Purcell, South Central Research and Extension Center; Mary E. Nelson, Southeast Research and Extension Center; Janet S. Hanna, Northeast Research and Extension Center. *Fun to Play, Ready to Learn.* Lincoln, NE: University of Nebraska–Lincoln.

Judy Diamond  
*University of Nebraska State Museum*  

Lester A. Digman  
*Management*  

Wheeler Winston Dixon  
*English*  

Richard Dooling  
*College of Law*  

Kwakiutl L. Dreher  
*English; Institute for Ethnic Studies*  

Judy A. Driskell  
*Nutrition and Health Sciences*  

Carolyn P. Edwards  
*Psychology; Child, Youth and Family Studies*  

Michael Epstein  
*Special Education and Communication Disorders*  
Patricia Fairchild  
Co-author, with Diane Vigna, Textiles, Clothing and Design.  
*Entrepreneurship Investigation ESI: Leader’s Guide; Unit 1: Discover the E-Scene; Unit 2: The Case of Me; Unit 3: Your Business Inspection.* Lincoln, NE: University of Nebraska–Lincoln.

Christopher R. Fielding  
Co-editor, with Tracy D. Frank, Geosciences; John Isbell.  
*Resolving the Late Paleozoic Ice Age in Time and Space.* Boulder, CO: The Geological Society of America, Inc.

Gwendolyn A. Foster  
Co-author, with Wheeler Winston Dixon, English.  
*A Short History of Film.* New Brunswick, NJ: Rutgers University Press.

Tracy D. Frank  
Co-editor, with Christopher R. Fielding, Geosciences; John Isbell.  
*Resolving the Late Paleozoic Ice Age in Time and Space.* Boulder, CO: The Geological Society of America, Inc.

Patricia W. Freeman  
Co-author, with Hugh H. Genoways, University of Nebraska State Museum; Justin D. Hoffman, School of Natural Resources; Keith Geluso; Russell A. Benedict; Jeffrey J. Huebschman.  
*Mammals of Nebraska: Checklist, Key, and Bibliography.* Lincoln, NE: University of Nebraska State Museum.

Chris Gallagher  
Co-author, with Amy Lee.  

James A. Garza  
Author.  
*El Lado Oscuro del Porfiriato: Sexo, crímenes, y vicios en la Ciudad de Mexico (The Imagined Underworld: Sex, Crime, and Vice in Porfirian Mexico City).* Mexico City, D.F., Mexico: Editorial Aguilar.

Roch E. Gaussoin  
Co-author, with Mark L. Bernards, Agronomy and Horticulture; Robert N. Klein; West Central Research and Extension Center; Stevan Z. Knezevic, Northeast Research and Extension Center; Drew J. Lyon, Panhandle Research and Extension Center; Lowell D. Sandell, Agronomy and Horticulture; Robert G. Wilson, Panhandle Research and Extension Center; Patrick J. Shea, School of Natural Resources; Clyde L. Ogg, Agronomy and Horticulture.  
*Guide for Weed Management in Nebraska.* Lincoln, NE: University of Nebraska–Lincoln.

Marilyn L. Grady  
Co-author with D. Gosmire.  
*DIAL’s Interactive Learning Campus: Connecting, Learning and Sharing.* Platte, SD: Mid-Central Coop and Lincoln, NE: University of Nebraska–Lincoln.

William M. Grange  
Author.  
*Cultural Chronicle of the Weimar Republic.* Lanham, MD: Scarecrow Press.
John Gruhl  Political Science

Janet S. Hanna  Northeast Research and Extension Center
Co-author, with Eileen M. Krumbach, Southeast Research and Extension Center; LaDonna A. Werth, Northeast Research and Extension Center; Mary K. Warner, West Central Research and Extension Center; Ruth E. Vonderohe, Northeast Research and Extension Center; Debra E. Schroeder, Northeast Research and Extension Center; Sarah Effken Purcell, South Central Research and Extension Center; Mary E. Nelson, Southeast Research and Extension Center; John D. DeFrain, Family and Consumer Sciences. *Fun to Play, Ready to Learn*. Lincoln, NE: University of Nebraska–Lincoln.

Steven A. Hardy  Architecture

Terry Housh  Nutrition and Health Sciences

Karen O. Janovy  Sheldon Museum of Art
Editor. *The Unknown Blakelock*. Lincoln, NE: University of Nebraska Press.

Paul A. Johnsgard  School of Biological Sciences, emeritus

Glen Johnson  Nutrition and Health Sciences

Julie Johnson  Child, Youth and Family Studies

Wendy J. Katz  Art History
Robert N. Klein  West Central Research and Extension Center
Co-author, with Mark L. Bernards, Agronomy and Horticulture; Roch E. Gaussoin, Agronomy and Horticulture; Stevan Z. Knezevic, Northeast Research and Extension Center; Drew J. Lyon, Panhandle Research and Extension Center; Lowell D. Sandell, Agronomy and Horticulture; Robert G. Wilson, Panhandle Research and Extension Center; Patrick J. Shea, School of Natural Resources; Clyde L. Ogg, Agronomy and Horticulture. Guide for Weed Management in Nebraska. Lincoln, NE: University of Nebraska–Lincoln.

Stevan Z. Knezevic  Northeast Research and Extension Center
Co-author, with Mark L. Bernards, Agronomy and Horticulture; Roch E. Gaussoin, Agronomy and Horticulture; Robert N. Klein; West Central Research and Extension Center; Drew J. Lyon, Panhandle Research and Extension Center; Lowell D. Sandell, Agronomy and Horticulture; Robert G. Wilson, Panhandle Research and Extension Center; Patrick J. Shea, School of Natural Resources; Clyde L. Ogg, Agronomy and Horticulture. Guide for Weed Management in Nebraska. Lincoln, NE: University of Nebraska–Lincoln.

Ted Kooser  English
Author, with illustrations by Robert Hanna. Valentines. Lincoln, NE: University of Nebraska Press.

Marjorie Kostelnik  Child, Youth and Family Studies

Eileen Krumbach  Southeast Research and Extension Center
Co-author, with LaDonna A. Werth, Northeast Research and Extension Center; Mary K. Warner, West Central Research and Extension Center; Ruth E. Vonderohe, Northeast Research and Extension Center; Debra E. Schroeder, Northeast Research and Extension Center; Sarah Effken Purcell, South Central Research and Extension Center; Mary E. Nelson, Southeast Research and Extension Center; Janet S. Hanna, Northeast Research and Extension Center; John D. DeFrain, Family and Consumer Sciences. Fun to Play, Ready to Learn. Lincoln, NE: University of Nebraska–Lincoln.

Thomas Larson  School of Music

Carole Levin  History; Medieval & Renaissance Studies

Suping Lu  Libraries-Books
Tom Lynch

Drew J. Lyon
Co-author, with Mark L. Bernards, Agronomy and Horticulture; Roch E. Gaussoin, Agronomy and Horticulture; Robert N. Klein; West Central Research and Extension Center; Stevan Z. Knezevic, Northeast Research and Extension Center; Robert G. Wilson, Panhandle Research and Extension Center; Lowell D. Sandell, Agronomy and Horticulture; Patrick J. Shea, School of Natural Resources; Clyde L. Ogg, Agronomy and Horticulture. Guide for Weed Management in Nebraska. Lincoln, NE: University of Nebraska–Lincoln.

Timothy R. Mahoney
Co-editor, with Wendy J. Katz, Art History. Regionalism and the Humanities. Lincoln, NE: University of Nebraska Press.

Ann Mari May
Editor and contributor. The ‘Woman Question’ and Higher Education: Perspectives on Gender and Knowledge Production in America. Cheltenham, UK: Edward Elgar.

Joseph Mendola

Dona-Gene Mitchell

Nancy A. Mitchell

J. Ron Nelson

Mary E. Nelson
Co-author, with Eileen M. Krumbach, Southeast Research and Extension Center; LaDonna A. Werth, Northeast Research and Extension Center; Mary K. Warner, West Central Research and Extension Center; Ruth E. Vonderohe, Northeast Research and Extension Center; Debra E. Schroeder, Northeast Research and Extension Center; Sarah Effken Purcell, South Central Research and Extension Center; Janet S. Hanna, Northeast Research and Extension Center; John D. DeFrain, Family and Consumer Sciences. Fun to Play, Ready to Learn. Lincoln, NE: University of Nebraska–Lincoln.
Clyde L. Ogg  Extension; Agronomy and Horticulture
Co-author, with Mark L. Bernards, Agronomy and Horticulture; Roch E. Gaussoin, Agronomy and Horticulture; Robert N. Klein; West Central Research and Extension Center; Stevan Z. Knezevic, Northeast Research and Extension Center; Drew J. Lyon, Panhandle Research and Extension Center; Lowell D. Sandell, Agronomy and Horticulture; Patrick J. Shea, School of Natural Resources; Robert G. Wilson, Panhandle Research and Extension Center. Guide for Weed Management in Nebraska. Lincoln, NE: University of Nebraska–Lincoln.

Marshall C. Olds  Modern Languages and Literature

David L. Olson  Management

Paul A. Olson  English, emeritus
Author. Beyond a Common Joy: An Introduction to Shakespearean Comedy. Lincoln, NE: University of Nebraska Press.

Michael R. Page  English
Editor. The Man with the Strange Head and Other Early Science Fiction Stories by Miles J. Breuer. Lincoln, NE: University of Nebraska Press.

M.J. Paulsen  University of Nebraska State Museum
Co-author, with Brett C. Ratcliffe, University of Nebraska State Museum and Entomology. The Scarabaeoid Beetles of Nebraska. Lincoln, NE: University of Nebraska State Museum.

Vicki L. Plano Clark  Educational Psychology

Sarah Effken Purcell  South Central Research and Extension Center
Co-author, with Eileen M. Krumbach, Southeast Research and Extension Center; LaDonna A. Werth, Northeast Research and Extension Center; Mary K. Warner, West Central Research and Extension Center; Ruth E. Vanderhoef, Northeast Research and Extension Center; Debra E. Schroeder, Northeast Research and Extension Center; Mary E. Nelson, Southeast Research and Extension Center; Janet S. Hanna, Northeast Research and Extension Center; John D. DeFran, Family and Consumer Sciences. Fun to Play, Ready to Learn. Lincoln, NE: University of Nebraska–Lincoln.
Mary Kay Quinlan

Brett C. Ratcliffe
First author, with M.J. Paulsen, University of Nebraska State Museum. *The Scarabaeoid Beetles of Nebraska.* Lincoln, NE: University of Nebraska State Museum.

Hilda Raz
Author. *All Odd and Splendid.* Middletown, CT: Wesleyan University Press.

George E. Rejda

Guy J. Reynolds

Lowell D. Sandell
Co-author, with Mark L. Bernards, Agronomy and Horticulture; Roch E. Gaussoin, Agronomy and Horticulture; Robert N. Klein; West Central Research and Extension Center; Stevan Z. Knezevic, Northeast Research and Extension Center; Drew J. Lyon, Panhandle Research and Extension Center; Robert G. Wilson, Panhandle Research and Extension Center; Patrick J. Shea, School of Natural Resources; Clyde L. Ogg, Agronomy and Horticulture. *Guide for Weed Management in Nebraska.* Lincoln, NE: University of Nebraska–Lincoln.

Robert F. Schopp
Co-editor, with Steven L. Willborn, College of Law; Richard L. Wiener, Psychology; Brian H. Bornstein, Psychology. *Mental Disorder and Criminal Law.* New York, NY: Springer.

Debra E. Schroeder
Co-author, with Eileen M. Krumbach, Southeast Research and Extension Center; LaDonna A. Werth, Northeast Research and Extension Center; Mary K. Warner, West Central Research and Extension Center; Ruth E. Vonderohe, Northeast Research and Extension Center; Sarah Effken Purcell, South Central Research and Extension Center; Mary E. Nelson, Southeast Research and Extension Center; Janet S. Hanna, Northeast Research and Extension Center; John D. DeFrain, Family and Consumer Sciences. *Fun to Play, Ready to Learn.* Lincoln, NE: University of Nebraska–Lincoln.

Mathias M. Schubert
Editor, with Uwe Beck; Hans Arwin. *4th International Conference on Spectroscopic Ellipsometry.* Berlin, Germany: Wiley.
Alan T. Seagren  
**Educational Administration**

Patrick J. Shea  
**Extension; School of Natural Resources**
Co-author, with Mark L. Bernards, Agronomy and Horticulture; Roch E. Gaussoin, Agronomy and Horticulture; Robert N. Klein; West Central Research and Extension Center; Stevan Z. Knezevic, Northeast Research and Extension Center; Drew J. Lyon, Panhandle Research and Extension Center; Lowell D. Sandell, Agronomy and Horticulture; Robert G. Wilson, Panhandle Research and Extension Center; Clyde L. Ogg, Agronomy and Horticulture. *Guide for Weed Management in Nebraska.* Lincoln, NE: University of Nebraska–Lincoln.

Keng Siau  
**Management**

Ralph Skomski  
**Nebraska Center for Materials and Nanoscience; Physics and Astronomy**

Jolene D. Smyth  
**Sociology; Survey Research and Methods Program**

Stephen M. Spomer  
**Entomology**
Author, with Mathew L. Brust; Douglas C. Backlund; Scott Weins. *Tiger Beetles of South Dakota and Nebraska.* Lincoln, NE: University of Nebraska–Lincoln Entomology.

Joseph Starita  
**News - Editorial**

Alison G. Stewart  
**Art and Art History**

Zhenghong Tang  
**Community and Regional Planning**

Steven Taylor  
**Food Science and Technology**
Eric Thompson  Bureau of Business Research; Economics

Diane Vigna  Extension; Textiles, Clothing and Design
Co-author, with Patricia Fairchild, 4-H State Office. Entrepreneurship Investigation ESI: Leader’s Guide; Unit 1: Discover the E-Scene; Unit 2: The Case of Me; Unit 3: Your Business Inspection. Lincoln, NE: University of Nebraska–Lincoln.

Franz von der Dunk  College of Law

Ruth E. Vonderohe  Northeast Research and Extension Center
Co-author, with Eileen M. Krumbach, Southeast Research and Extension Center; LaDonna A. Werth, Northeast Research and Extension Center; Mary K. Warner, West Central Research and Extension Center; Debra E. Schroeder, Northeast Research and Extension Center; Sarah Effken Purcell, South Central Research and Extension Center; Mary E. Nelson, Southeast Research and Extension Center; Janet S. Hanna, Northeast Research and Extension Center; John D. DeFrain, Family and Consumer Sciences. Fun to Play, Ready to Learn. Lincoln, NE: University of Nebraska–Lincoln.

William B. Walstad  Economics

LuAnn Wandsnider  Anthropology
Co-editor, with Simon J. Holdaway. Time in Archaeology. Salt Lake City, UT: University of Utah Press.

Mary K. Warner  West Central Research and Extension Center
Co-author, with Eileen M. Krumbach, Southeast Research and Extension Center; LaDonna A. Werth, Northeast Research and Extension Center; Ruth E. Vonderohe, Northeast Research and Extension Center; Debra E. Schroeder, Northeast Research and Extension Center; Sarah Effken Purcell, South Central Research and Extension Center; Mary E. Nelson, Southeast Research and Extension Center; Janet S. Hanna, Northeast Research and Extension Center; John D. DeFrain, Family and Consumer Sciences. Fun to Play, Ready to Learn. Lincoln, NE: University of Nebraska–Lincoln.
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Northeast Research and Extension Center
Co-author, with Eileen M. Krumbach, Southeast Research and Extension Center; Mary K. Warner, West Central Research and Extension Center; Ruth E. Vonderohe, Northeast Research and Extension Center; Debra E. Schroeder, Northeast Research and Extension Center; Sarah Effken Purcell, South Central Research and Extension Center; Mary E. Nelson, Southeast Research and Extension Center; Janet S. Hanna, Northeast Research and Extension Center; John D. DeFrain, Family and Consumer Sciences. Fun to Play, Ready to Learn. Lincoln, NE: University of Nebraska-Lincoln.

Daniel W. Wheeler
Agricultural Leadership, Education and Communication

Richard L. Wiener
Psychology; College of Law
Co-editor, with Brian H. Bornstein, Psychology; Robert F. Schopp, College of Law; Steven L. Willborn, College of Law. Civil Juries and Civil Justice: Psychological and Legal Perspectives. New York, NY: Springer.

Steven L. Willborn
College of Law

Robert G. Wilson
Panhandle Research and Extension Center
Co-author, with Mark L. Bernard, Agronomy and Horticulture; Roch E. Gaussoin, Agronomy and Horticulture; Robert N. Klein; West Central Research and Extension Center; Stevan Z. Knezevic, Northeast Research and Extension Center; Drew J. Lyon, Panhandle Research and Extension Center; Lowell D. Sandell, Agronomy and Horticulture; Patrick J. Shea, School of Natural Resources; Clyde L. Ogg, Agronomy and Horticulture. Guide for Weed Management in Nebraska. Lincoln, NE: University of Nebraska-Lincoln.

Rachelle Winkle-Wagner
Educational Administration

Simon Wood
Classics and Religious Studies

Robert J. Wright
Entomology
Co-author, with Mathew L. Brust; W.W. Hoback. The Grasshoppers (Orthoptera: Acrididae and Romaleidae) of Nebraska. Lincoln, NE: UNL Extension.
John Wunder  History; College of Journalism and Mass Communications  

Janos Zempleni  Nutrition and Health Sciences  
2008 RECOGNITIONS AND HONORS
Faculty who have been elected to honor academies
or who have received national or international honors or awards

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

James Van Etten  Plant Pathology
National Academy of Science

Elton Aberle  Animal Science
Fellow, American Meat Science Association
R.C. Pollock Award, American Meat Science Association

Viacheslav Adamchuk  Biological Systems Engineering
Pierre C. Robert Precision Agriculture Young Scientist Award, Ninth International Conference on Precision Agriculture

David Allen  Engineering
Michael P. Malone International Leadership Award, National Association of State Universities and Land-Grant Colleges
International TTH Pian Medal, International Congress of Computational Engineering Sciences

Jane Armstrong  Northeast Research and Extension Center
National Family Strengthening Award, National 4-H Council/Annie E. Casey Foundation

Diane Barger  School of Music
Treasurer, International Clarinet Association

Herman Batelaan  Physics and Astronomy
Fellow, Division of Atomic, Molecular, and Optical Physics of the American Physical Society

Frederick Baxendale  Entomology
2008 Distinguished Achievement Award in Extension, Entomological Society of America

Don Beermann  Animal Science
Fellow, American Meat Science Association

Kirill Belashchenko  Physics and Astronomy
Cottrell Scholar Award, Research Corporation

David Berkowitz  Chemistry
Promotion of Science Fellowship, Japan Society
Bruce W. Brodersen  Veterinary and Biomedical Sciences
Outstanding Service Award, Nebraska Veterinary Medical Association

David Brooks  Teaching, Learning and Teacher Education
Fellow, American Education Research Association

Amy Burnett  History
Gerald Strauss Book Prize for *Teaching the Reformation: Ministers and Their Message in Basel, 1529-1629* (Oxford University Press, 2007), Sixteenth Century Society & Conference

Chris Calkins  Animal Science
Fellow, American Meat Science Association

Gustavo Carlo  Psychology
Visiting Scholar Fellowship, University of Valencia, Spain

Ann Chang-Barnes  Lied Center for Performing Arts
Fulbright Scholar Award for 2009, Royal Conservatory of Music, Brussels, Belgium, U.S. Fulbright Commission

Xun-Hong Chen  School of Natural Resources
Chang Jiang Scholars Professor, Ministry of Education, People’s Republic of China

Dennis Conley  Agricultural Economics; Marketing
Outstanding Contribution as Co-Chair of the 18th Annual IAMA Forum, International Food and Agribusiness Management Association

John W. Creswell  Educational Psychology
2008 Senior Fulbright Fellowship to South Africa, U.S. Fulbright Commission

Elbert Dickey  Cooperative Extension
Inductee, U.S. Agriculture Hall of Fame

Lester Digman  Management
Fellow, Midwest Decision Sciences Institute

Liangcheng Du  Chemistry
Invited lecturer, SINO-US Round-table Conference on Chemical Biology and New Drug Discovery, Changsha, China

Sarah Effken Purcell  Southeast Research and Extension Center
National Family Strengthening Award, National 4-H Council/Annie E. Casey Foundation

Dean Eisenhauer  Biological Systems Engineering
2008 Award for the Advancement of Surface Irrigation, American Society of Agricultural and Biological Engineers (ASABE)

Marion Ellis  Entomology
Award of Excellence, American Association of Professional Apiculturists
**Ece Erdogmus**  
Architectural Engineering  
*Journal of Architectural Engineering* Best Paper Award, 2008, American Society of Civil Engineers (ASCE)  
2008 Architectural Engineering Conference Best Structures Paper Award, Architectural Engineering Institute (AEI)

**John Foster**  
Entomology  
John V. Osmun Alumni Professional Achievement Award for Entomology, Purdue University

**Roch Gaussoin**  
Extension; Agronomy and Horticulture  
Fred V. Grau Turfgrass Science Award, Crop Science Society of America

**Kurt Geisinger**  
Educational Psychology  
2008 Jacob Cohen Award for Distinguished Teaching and Mentoring, American Psychological Association

**Marilyn L. Grady**  
Educational Administration  
2008 Living Legends Award, National Council of Professors of Educational Administration

**Mark Griep**  
Chemistry  
Officer Grant, Alfred P. Sloan Foundation

**David Hage**  
Chemistry  
Top 20 Most Cited Review Author from 2002 to 2007, *Journal of Chromatography B*  
Fellow, National Academy of Clinical Biochemistry

**Ronald Hampton**  
Marketing  
2008 International Scholar of the Year Award, Phi Beta Delta

**Janet Harkness**  
Survey, Research and Methodology Program/ Gallup Research Center; English  
Invited member of the Special Survey Research Statistics “Committee of Visitors,” NSF Advisory Committee for the Social, Behavioral and Economic Sciences

**Jeff Hart**  
Southeast Research and Extension Center  
National Family Strengthening Award, National 4-H Council/Annie E. Casey Foundation

**Edwin Harvey**  
School of Natural Resources  
Distinguished Service Award, Geological Society of America Hydrogeology Division

**Tiffany Heng-Moss**  
Entomology  
Distinguished Achievement Award in Teaching, National Entomological Society of America

**Alice Henneman**  
Southeast Research and Extension Center  
Food Safety Award (1st Place) – Team Award, National Extension Association of Family and Consumer Sciences
Mary Anne Holmes  Geosciences
Fellow, Association for Women in Science

Melissa J. Homestead  English; Women’s and Gender Studies
Knopf Fellowship, Harry Ransom Center, University of Texas at Austin
Everett Helm Visiting Fellowship, Lilly Library, Indiana University

Roger Hoy  Biological Systems Engineering
Next Generation Award, American National Standards Institute (ANSI)

Suat Irmak  Biological Systems Engineering
Educational Aids Competition Blue Ribbon Award in the Educational Publications Category, American Society of Agricultural and Biological Engineers (ASABE)
2008 New Holland Young Researcher Award, American Society of Agricultural and Biological Engineers (ASABE)

Rodger Johnson  Animal Science
Research Fellow Award, American Society of Animal Science

Clinton J. Jones  Veterinary and Biomedical Sciences
Honorary Cell Death Editorial Board Member, International Cell Death Society

Jeannette Eileen Jones  History; Institute for Ethnic Studies
Deutsche Bank Junior Scholar-in-Residence Fellowship, Heidelberg Center for American Studies, Universitat Heidelberg, Germany

Wendy Katz  Art and Art History
Jay T. Last Fellowship, American Antiquarian Society

Karen Kunc  Art and Art History
Visiting Artist Residency, Malaspina Printmakers Society, Vancouver, Canada

Sang Lee  Management
Distinguished Global Leadership Award, Pan-Pacific Business Association

Carole Levin  History; Medieval & Renaissance Studies

Donald Levis  Northeast Research and Extension Center
ASAS Fellow Award – Extension Category, American Society of Animal Science

Nancy Lewis  Nutrition and Health Sciences
Distinguished Alumni Award, New Mexico State University

RECOGNITIONS AND HONORS
Marjorie F. Lou  Veterinary and Biomedical Sciences; Redox Biology
International Honorary University Professorship, Xian Jiaotong University

Yongfeng Lu  Electrical Engineering
Fellow, Society of Photo-optical Instrumentation Engineers (SPIE)

Fred Luthans  Management
Distinguished Global Leadership Award, Pan-Pacific Business Association

Craig MacPhee  Economics
2008 International Scholar of the Year Award, Phi Beta Delta

Terry Mader  Animal Science
Honorary Professor, School of Animal Studies at the University of Queensland, Australia
Contributor to the United Nations’ Intergovernmental Panel on Climate Change (IPCC), co-recipient (with Al Gore) of the 2007 Nobel Peace Prize, Nobel Foundation

Roger Mandigo  Animal Science
Fellow, American Meat Science Association

Leanne Manning  Southeast Research and Extension Center
National Family Strengthening Award, National 4-H Council/Annie E. Casey Foundation

Stephen Mason  Agronomy and Horticulture
Crop Science Outstanding Teaching Award, Crop Science Society of America

Martin Massengale  Center for Grassland Studies
Distinguished Achievement in Agriculture, Gamma Sigma Delta

George Meyer  Biological Systems Engineering
BAE Division Best Paper Award for 2008, American Society for Engineering Education (ASEE)

Nancy Miller  Textiles, Clothing and Design
Best Research Paper in Merchandising, Marketing, Retailing, International Textiles and Apparel Association

Rodney A. Moxley  Veterinary and Biomedical Sciences
National Research Council Member and President, Conference of Research Workers in Animal Diseases

Glenn Nierman  School of Music
President, North Central Division, MENC, The National Association for Music Education

Giacomo Oliva  Fine and Performing Arts
2008 Distinguished Alumni Achievement Award, New York University’s Steinhardt School of Culture, Education and Human Development
Dongming Peng  Computer and Electronics Engineering
Best Paper Award for 2008 IEEE Wireless Communications and Networking Conference, IEEE

Amy Peterson  Southeast Research and Extension Center
2008 Distinguished Achievement Award in Teaching, National Extension Association of Family and Consumer Sciences

Reece Peterson  Special Education and Communication Disorders
Outstanding Leadership Award, Midwest Symposium for Leadership in Behavioral Disorders

Larkin Powell  School of Natural Resources
Fulbright Scholar Fellowship, Council for International Exchange of Scholars

M. Kathleen Prochaska-Cue  Child, Youth and Family Studies
Communication – Education Publication Award, National Extension Association of Family and Consumer Science

Rick Rasby  Animal Science
Excellence in Extension Award, National Association of State Universities and Land-Grant Colleges

Brett Ratcliffe  Entomology
Selection of the rhinoceros beetle, *Megaceras briansaltini*, as one of the top ten species described in 2007 (the only insect so designated), International Institute for Species Exploration, Arizona State University

David Rosenbaum  Economics
Nebraska Professor of the Year, CASE - Carnegie Foundation for the Advancement of Teaching

John Rupnow  Food Science and Technology
Fellow of the Institute of Food Technologists, Institute of Food Technologists

Hamid Sharif  Computer and Electronics Engineering
Best Paper Award for 2008 IEEE Wireless Communications and Networking Conference, IEEE

Lee Sherry  Northeast Research and Extension Center
National Family Strengthening Award, National 4-H Council/Annie E. Casey Foundation

Keng Siau  Management
Outstanding Leader Award, Information Resource Management Association
IBM Faculty Award, IBM

Richard Sincovec  Computer Science and Engineering
Coleman-Richardson Distinguished Chaired Professorship for 2008-09, U.S. Air Force Academy
RECOGNITIONS AND HONORS

David R. Smith  Veterinary and Biomedical Sciences
Wendall Burgher Beef Industry Award, University of Nebraska Foundation

Rodney Soukup  Electrical Engineering
Education Society Finance Committee, IEEE

Walter Stroup  Statistics
Fellow, American Statistical Association

William G. Thomas  History
Digital Innovation Fellowship, American Council of Learned Societies
Visiting Professor of North American Studies, British Association of American Studies

Eric Thompson  Bureau of Business Research; Economics
President, Association for University Business and Economic Research

Evgeny Tsymbal  Physics and Astronomy
Fellow, American Physical Society
Fellow, Institute of Physics, UK

Harriet Turner  International Affairs; Modern Languages and Literature
Membership, The Royal Academy of Fine Arts and Historical Sciences of Toledo (Spain)

Hamid Vakilzadian  Electrical Engineering
Associate Editor of Simulation, Transactions of the Society for Modeling and Simulation International (SCS)

Anne Vidaver  Plant Pathology
ASM Founders Distinguished Service Award, American Society for Microbiology
Pioneering Women in Plant Pathology, American Phytopathological Society

Jerry Volesky  West Central Research and Extension Center; Agronomy and Horticulture
Outstanding Achievement Award - Research/Academia, Society for Range Management

Brian Wilcox  Center on Children, Families and the Law; Psychology
Public Service Award, Society for Prevention Research

Mary S. Willis  Anthropology
Interview and research synopsis featured in “Current Applications,” 2008, Volume 49(4), of the journal Current Anthropology

Robert Wilson  Panhandle Research and Extension Center
Fellow Award, Weed Science Society of America
John R. Wunder  History; College of Journalism and Mass Communications
President-elect, 2008-09, Western History Association

Ronald Yoder  Biological Systems Engineering
PEI Professional Engineer of the Year for 2008, American Society of Agricultural and Biological Engineers (ASABE)
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>USAID</td>
<td>United States Agency for International Development</td>
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<tr>
<td>CNS</td>
<td>Corporation for National Service</td>
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<tr>
<td>USDA</td>
<td>United States Department of Agriculture</td>
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<td>ARS</td>
<td>Agricultural Research Service</td>
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<tr>
<td>BRDC</td>
<td>Biotechnology Research and Development Corporation</td>
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<tr>
<td>CSREES</td>
<td>Cooperative State Research, Education &amp; Extension Service</td>
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<tr>
<td>ERS</td>
<td>Extension Research Service</td>
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<tr>
<td>FAS</td>
<td>Foreign Agriculture Service</td>
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<tr>
<td>FS</td>
<td>Forestry Service</td>
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<tr>
<td>NRCS</td>
<td>Natural Resources Conservation Service</td>
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<tr>
<td>NRICGP</td>
<td>National Research Initiative Competitive Grant Program</td>
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<tr>
<td>RMA</td>
<td>Risk Management Agency</td>
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<tr>
<td>SARE</td>
<td>Sustainable Agricultural Research and Education Program</td>
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<tr>
<td>DOC</td>
<td>Department of Commerce</td>
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<tr>
<td>EDA</td>
<td>Economic Development Administration</td>
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<tr>
<td>NOAA</td>
<td>National Oceanic &amp; Atmospheric Administration</td>
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<tr>
<td>DOD</td>
<td>Department of Defense</td>
</tr>
<tr>
<td>ARO</td>
<td>Army Research Office</td>
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<tr>
<td>DEPSCoR</td>
<td>Defense Experimental Program to Stimulate Cooperative Research</td>
</tr>
<tr>
<td>ONR</td>
<td>Office of Naval Research</td>
</tr>
<tr>
<td>DEd</td>
<td>Department of Education</td>
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<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>
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<tr>
<td>NIGEC</td>
<td>National Institute for Global Environmental Change</td>
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</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
FIC  Fogarty International Center
NCI  National Cancer Institute
NCRR  National Center for Research Resources
NEI  National Eye Institute
NHLBI  National Heart, Lung and Blood Institute
NIA  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
BR  Bureau of Reclamation
FWS  Fish & Wildlife Service
GS  Geological Survey
NPS  National Park Service
DoT  Department of Transportation
FRA  Federal Railroad Administration
EPA  Environmental Protection Agency
IMLS  Institute of Museum & Library Services
NASA  National Aeronautics and Space Administration
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
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