

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

---

Office of Research and Economic Development--  
Publications

Research and Economic Development, Office of

---

2009

## 2008 Major Sponsored Programs and Faculty Awards for Research and Creative Activity

Office of Research, University of Nebraska–Lincoln

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



Part of the [Higher Education Administration Commons](#)

---

Office of Research, University of Nebraska–Lincoln, "2008 Major Sponsored Programs and Faculty Awards for Research and Creative Activity" (2009). *Office of Research and Economic Development--Publications*. 29.  
<http://digitalcommons.unl.edu/researchecondev/29>

This Article is brought to you for free and open access by the Research and Economic Development, Office of at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Office of Research and Economic Development--Publications by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

# Research and Creative Activity

2008 Major Sponsored Programs  
and Faculty Awards  
for Research and Creative Activity

Office of Research  
University of Nebraska–Lincoln



<b>3</b>	<b>Awards of \$3 million or more</b>
<b>16</b>	<b>Awards of \$1 million to \$2,999,999</b>
<b>24</b>	<b>Awards of \$200,000 to \$999,999</b>
<b>58</b>	<b>Early Career Awards</b>
<b>62</b>	<b>Arts and Humanities Awards of \$50,000 or more</b>
<b>65</b>	<b>Arts and Humanities Awards of \$5,000 to \$49,999</b>
<b>67</b>	<b>Patents Issued</b>
<b>69</b>	<b>Intellectual Property Licences</b>
<b>71</b>	<b>Creative Works in Fine and Performing Arts</b>
<b>74</b>	<b>Books</b>
<b>87</b>	<b>Recognitions and Honors</b>
<b>95</b>	<b>Glossary of Federal Agency Abbreviations</b>

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.



**Chancellor Harvey Perlman and Vice Chancellor Prem Paul**

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

### Engineering

Blast Wave Absorbing Structures:  
An Experimental & Modeling Program

\$7,500,000

DOD-Army Research Laboratory

6/25/04 - 6/24/09



David Allen, dean of the College of Engineering and professor of engineering mechanics, with funding from the Army Research Laboratory-Weapons and Materials Research Directorate, directs a collaborative effort focused on development of new materials and technologies relevant to blast mitigation and weapons detection. The program includes 24 UNL faculty from six different departments—civil engineering, structural engineering, chemical and biomolecular engineering, electrical engineering, engineering mechanics and mechanical engineering—working on 15 multidisciplinary projects. The projects have the common objective of providing new materials and technologies for blast mitigation, mine detection and pathogen detection.

### Cassman, Kenneth

### Nebraska Center for Energy Sciences Research; Agronomy and Horticulture

Nebraska Center for Energy Sciences Research

\$5,000,000

Nebraska Public Power District

4/1/06 - 3/31/2011

Paul, Prem

Office of Research



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****Engineering**

\* Army-UNL Center for Trauma Mechanics

\$3,261,250

DOD-Army Research Office

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**

National eXtension Project

\$8,870,000

National Association of State

10/1/04 - 12/31/11

Universities and Land-Grant Colleges

eXtension: The Transformation of Cooperative Extension

\$5,702,400

Department of Agriculture-CSREES

8/15/07 - 8/14/11



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](http://www.extension.org).

**Couture, Barbara**

**Academic Affairs**

\* ADVANCE-Nebraska: An Institutional Approach to Hiring, Retaining, and Promoting Women STEM Faculty at the University of Nebraska-Lincoln

\$3,801,443

NSF

09/01/08 - 08/31/13

Holmes, Mary Anne

Geosciences

McQuillan, Julia

Sociology

Manderscheid, David

Arts and Sciences

Allen, David

Engineering

Fritz, Susan

IANR

Chandra, Namas

Engineering



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.



**Ells, Mark**

**Center on Children, Families and the Law**

\* Midwest Child Welfare

Technical Assistance Implementation Center

\$8,695,645

DHHS-Administration for Children & Families

09/01/08 - 08/31/13

Graef, Michelle

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 system. 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**

**Mechanical Engineering**

\* Track Stability Assessment & Data Transmission

\$3,034,439

Department of Transportation-FRA

9/17/04 - 12/31/10

Turner, Joseph

Engineering Mechanics

Nelson, Carl

Mechanical Engineering

Sharif, Hamid

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**

Redox Biology Center

**Biochemistry**

\$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

Wilhite, Donald

School of Natural Resources



Stephen Goddard

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,



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.

**Harwood, David****Geosciences**

ANDRILL: Investigating Antarctica's Role in  
Cenozoic Global Environmental Change

\$12,978,160

NSF

6/1/05 - 5/31/10

Levy, Richard

Geosciences



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.

**Jose, H. Douglas****Agricultural Economics**

North Central Risk Management Education Center

\$3,600,000

Department of Agriculture-CSREES

9/15/07 - 9/14/10



The North Central Risk Management Education Center provides program leadership and coordination for risk management education in the North Central Region (Kansas, Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota and Wisconsin).

It is one of four risk management education centers in the United States. They were established in 2001 to provide risk management education for agricultural producers to help them develop knowledge, skills and tools needed to make informed risk management decisions for their operations.

**Lewis, Jim**

**Center for Science, Mathematics and Computer Education; Mathematics**

\* NEBRASKA MATH

\$9,235,407

NSF

01/01/09 - 12/31/13

Heaton, Ruth

Teaching, Learning and Teacher Education; CSMCE

McGowan, Thomas

Teaching, Learning and Teacher Education

Stroup, Walter

Statistics

Edwards, Carolyn

Child, Youth and Family Studies;

Psychology

Papick, Ira

Mathematics; CSMCE

Jacobson, Barbara

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

NSF

8/1/04 - 7/31/11

Heaton, Ruth

Teaching, Learning and Teacher Education; CSMCE

McGowan, Thomas

Teaching, Learning and Teacher Education

Jacobson, Barbara

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.

## Lu, Yongfeng

## Electrical Engineering

\* Multi-Laser-Beam Open-Atmosphere Surface Coating Techniques Based on Precursor Excitation, Photodissociation and Controlled Cooling

\$4,014,962

DOD-Office of Naval Research-MURI

3/15/050 - 7/31/10

Zeng, Xiao Cheng

Chemistry



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.

## Meagher, Michael

## Chemical and Biomolecular Engineering

Process Research & Development of Antibodies as Countermeasures for C. Botulinum Neurotoxin

\$10,627,000

DOD-Army Medical Research

3/1/02 - 2/28/09



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.

Fast-Track Production of a Heptavalent Botulinum Vaccine

\$6,857,345

DynPort Vaccine Company

9/1/03 - 11/29/08

Meagher is also collaborating with DynPort Vaccine Co., the University of Colorado, and the U.S. Army Medical Research Institute of Infectious Disease to develop a vaccine that protects against botulinum neurotoxin, a lethal agent that could be used for bioterrorism. The goal is to develop vaccines that protect against five subtypes of the toxin within the next one to two years and to develop a vaccine for the other two types within five years. The new vaccines could eliminate the threat of botulism as a weapon of mass destruction.

**Rilett, Laurence**

**Civil Engineering**

Region 7 University Transportation Center  
\$6,225,000 Department of Transportation-Research and  
10/1/06 - 9/30/11 Innovative Technology Administration



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 DHHS-NIH-NICHD  
9/26/03 - 7/31/09  
Edwards, Carolyn Psychology; Child, Youth and Family Studies



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.

## Tsymbal, Evgeny

## Nebraska Center for Materials and Nanoscience

\* Materials Research Science & Engineering  
Center: Quantum Spin

\$6,321,899

9/1/08 – 8/31/14

NSF



Evgeny Tsymbal, professor of physics and astronomy at UNL, leads the Materials Research Science and Engineering Center. The center was established in 2002 with a grant from the National Science Foundation and involves scientists from the Departments of Physics and Astronomy, Chemistry and Mechanical Engineering, and the School of Biological Sciences. MRSEC projects focus on fabricating and studying new magnetic structures and materials at the nanometer scale. The research has applications in advanced computing and data storage, handheld electronic devices, advanced sensors and future medical technologies.

## Umstadter, Donald

## Physics and Astronomy

\* High-Energy Laser for Detection,  
Inspection, & Non-Destructive Testing

\$4,759,860

5/15/08 – 5/14/10

DOD-Air Force Office of Scientific Research

Banerjee, Sudeep  
Shadwick, Bradley

Physics and Astronomy  
Physics and Astronomy



With support from the Department of Defense Air Force Office of Scientific Research, 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.



**Wood, Charles****Biological Sciences**

Nebraska Center for Virology

\$10,149,257

DHHS-NIH-NCRR

9/26/05 - 4/30/10



Charles Wood, Lewis Lehr/3M university professor of biological sciences, is the director of the Nebraska Center for Virology. The center, funded by the National Institutes of Health, combines the expertise and facilities of Nebraska's leading biomedical research institutions: UNL, the University of

Nebraska Medical Center and Creighton University. Center research addresses pathogenic and therapeutic aspects of some of the most devastating viral and neuroimmune disorders facing the global community, including AIDS, HIV-associated cancers, Alzheimer's disease and chronic infections caused by herpes viruses and a new class of infectious agents called prions.

Kaposi's Sarcoma &amp; 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****IANR-International Programs**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**

McNair 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<sup>2.0</sup> 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

**DeKraai, Mark** **Public Policy Center**  
Child Mental Health SIG  
\$2,379,313 Nebraska Department of Health and Human Services

**Diamond, Judy** **University of Nebraska State Museum**  
\* Omaha Science Media Project:  
Improving Science Literacy through Media Experiences  
\$1,471,768 Omaha Public Schools  
Struthers, Amy Journalism and Mass Communications  
Angeletti, Peter Biological Sciences

World of Viruses  
\$1,266,290 DHHS-NIH-NCRR  
Wood, Charles Nebraska Center for Virology

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

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

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

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

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

**Espy, Kimberly**

Prenatal Tobacco Exposure: Perinatal and Genetic Risks

\$1,207,660

Wiebe, Sandra

**Office of Research**

DHHS-NIH-NIDA

Office of Research

Executive Function Development in Preschool Children

\$1,168,281

Wiebe, Sandra

DHHS-NIH-NIMH

Office of Research

**Faller, Ronald**

Evaluation &amp; Field Installation of Steel Tube &amp;

Foam Energy Reduction (SAFER) Barrier

\$1,045,913

Holloway, Jim

Reid, John

Rohde, John

Sicking, Dean

**Civil Engineering**

Indianapolis Racing League

Civil Engineering

Mechanical Engineering

Civil Engineering

Civil Engineering

**Farrell, Michael**

IPY: Engaging Antarctica

\$1,246,068

Diamond, Judy

**University Television**

NSF

University of Nebraska State Museum

**Gladyshev, Vadim**

Functions of Mammalian Thioredoxin Reductases

\$1,155,459

**Biochemistry**

DHHS-NIH-NIGMS

Selenoprotein as a Target for Cancer Prevention

\$1,334,624

DHHS-NIH-NCI

Methionine Sulfoxide Reduction, Selenium and Aging

\$1,451,400

DHHS-NIH-NIA

Identity &amp; Functions of Selenoprotein Genes

\$1,114,032

DHHS-NIH-NIGMS

**Goddard, Stephen****Computer Science and Engineering**

Climate &amp; Soil Risk Information System

\$1,212,056

Wilhite, Donald

Hubbard, Kenneth

Department of Agriculture-RMA

School of Natural Resources

School of Natural Resources

**Green, Jordan****Special Education and  
Communication Disorders**

Early Speech Motor Development

\$1,754,412

DHHS-NIH-NIDCD

**Heusel, Gary****Student Involvement**

Midwest Consortium for Service-Learning in Higher Education

\$1,411,709

Major, Linda

Corporation for National Service

Student Involvement

**Hoagland, Kyle****School of Natural Resources**

DNR Ground Water Management and

Protection Act Service Agreement

\$1,500,000

Nebraska Department of Natural Resources

**Horn, Christy** **Equity, Access and Diversity Programs**

\* Building Accepting Campus Communities  
\$1,003,691 Department of Education  
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)  
\$2,741,563 Department of Education  
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  
Birstihl, Elizabeth IANR Cooperative Extension  
Schnepf, Marilyn 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  
\$1,420,753 NSF  
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

Process Research and Development of Antibodies as  
Countermeasures for C. Botulinum Neurotoxin  
\$2,877,000 DOD-Army Space and Missile Defense Command

Therapeutic Agents & Vaccines against Biological Warfare  
\$2,905,899 DOD-Army Medical Research

Purification of proPRT-201 and Production of Reference Standard  
\$2,464,390 Proteon Therapeutics

Process Development & cGMP Production  
\$1,228,735 Targepeutics Inc.

**Mendoza-Gorham, Joan** **Student Affairs**

Classic Upward Bound  
\$1,250,000 Department of Education

Upward Bound Math/Science Program  
\$1,000,000 Department of Education

**Nelson, J. Ron** **Special Education and  
Communication Disorders**

Portales a Aprender Leer (PAL)  
\$2,687,442 Department of Education

**Parkhurst, Lawrence** **Chemistry**

Assembly Mechanisms of TBP-Nucleated Complexes  
\$1,107,318 DHHS-NIH-NIGMS

**Robertson Jr., Vaughn** **Student Affairs**

UNL Educational Talent Search  
\$2,091,823 Department of Education

**Rutenbeck, Kathy** **Student Affairs**

Upward Bound-Northeast Nebraska  
\$1,458,320 Department of Education

**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

**Scott, Stephen** **Computer Science and Engineering**

\* An Extensible Semantic Bridge between  
Biodiversity and Genomics

\$1,367,121 NSF  
Soh, Leen-Kiat Computer Science and Engineering  
Henninger, Scott Computer Science and Engineering  
Jameson, Mary Liz University of Nebraska State Museum  
Moriyama, Etsuko Biological Sciences;  
Center for Plant Science Innovation

**Sheridan, Susan** **Educational Psychology; Center on  
Children, Youth, Families and Schools**

Evaluation of Efficacy of CBC for Addressing Disruptive  
Behaviors of Children-at-Risk for Academic Failure

\$1,368,067 Department of Education  
Glover, Todd Center on Children, Youth, Families and Schools

**Simpson, Melanie** **Biochemistry**

Role of Hyaluronan Matrix in Prostate Cancer Progression

\$1,056,209 DHHS-NIH-NCI

**Spreitzer, Robert** **Biochemistry**

Role of the Rubisco Small Subunit

\$1,001,500 Department of Energy

**Starace, Anthony** **Physics and Astronomy**

Dynamics of Few-Body Atomic Processes

\$1,216,337 Department of Energy

**Storz, Jay** **Biological Sciences**

\* Mechanisms of Hemoglobin Adaption  
to Hypoxia in High-Altitude Rodents

\$1,323,748 DHHS-NIH-NHLBI  
Moyiyama, Hideaki Center for Biotechnology

**Swanson, David** **Computer Science and Engineering**

US CMS Tier 2 Center

\$1,973,813 University of California-Los Angeles  
Bloom, Kenneth Physics and Astronomy  
Dominguez, Aaron Physics and Astronomy

**Umstadter, Donald** **Physics and Astronomy**

Research & Development of a High-Power-Laser-Driven  
Electron Accelerator Suitable for Applications

\$1,250,029 DOD-DARPA  
Banerjee, Sudeep Physics and Astronomy

Tunable, Monoenergetic Gamma-Ray Source  
for Identification of Embedded SNM

\$2,940,284 Department of Homeland Security-DNDO  
Banerjee, Sudeep Physics and Astronomy



**Van Etten, James**

DNA Replication &amp; Gene Expression of Chlorella Viruses

\$1,215,694

Dunigan, David

Kang, Ming

Agarkova, Irina

Gurnon, James

**Plant Pathology**

DHHS-NIH-NIGMS

Plant Pathology

Plant Pathology

Plant Pathology

Plant Pathology

**Verma, Shashi**

Carbon Sequestration in Dryland &amp; Irrigated Agroecosystems

\$1,950,000

Cassman, Kenneth

Knops, Johannes

Hubbard, Kenneth

Arkebauer, Timothy

Dobermann, Achim

Yang, Haishun

Walters, Daniel

Suyker, Andrew

Ginting, Daniel

**School of Natural Resources**

Department of Energy

Agronomy and Horticulture

Biological Sciences

School of Natural Resources

Agronomy and Horticulture

Agronomy and Horticulture

Agronomy and Horticulture

Agronomy and Horticulture

School of Natural Resources

Agronomy and Horticulture

**Viljoen, Hendrik****Chemical and Biomolecular Engineering**

A Rational Design of a Platform for de novo Gene Synthesis

\$1,315,289

Subramanian, Anu

DHHS-NIH-NCRR

Chemical and Biomolecular Engineering

Vortex-Tube Based Thermocycler w/Intelligent Software

\$1,068,925

Gogos, George

DHHS-NIH-NCRR

Mechanical Engineering

**Walker, Judy**EMSW21-MCTP: Nebraska Mentoring  
through Critical Transition Points

\$2,500,000

Marley, Tom

**Mathematics**

NSF

Mathematics

**Weeks, Donald**

Development of Dicamba-Resistant Crops

\$2,500,000

Monsanto Co.

**Biochemistry****Whitbeck, Les**

\*Resilience through the High School Years

\$2,654,155

DHHS-NIH-NIMH

**Sociology**

Great Plains Cultural Ways Mental Health Careers Program

\$1,120,576

Moore, Helen

DHHS-NIH-NIMH

Sociology

**White, Lynn**

Infertility: Pathways &amp; Psychosocial Outcomes

\$2,559,414

McQuillan, Julia

DHHS-NIH-NICHD

Sociology

<b>Wilcke, William</b>	<b>IANR-Research</b>
\$2,707,719	North Central Regional Sustainable Agriculture Research & Education Program – SARE Department of Agriculture-CSREES
<b>Wilcox, Brian</b>	<b>Center on Children, Families and the Law</b>
\$1,200,000 Torquati, Julia	Midwest Child Care Research Consortium DHHS-ACF Family and Consumer Sciences
<b>Wilhite, Donald</b>	<b>School of Natural Resources</b>
\$1,023,038	Rangeland and Forage Geospatial Decision Support System for Drought Risk Management Department of Agriculture-RMA
<b>Wood, Charles</b>	<b>Biological Sciences</b>
\$2,130,669	Programs in HIV & AIDS Assoc Diseases/Malignancies DHHS-NIH-Fogarty International Center
\$1,218,789	Research Training in Comparative Viral Pathogenesis DHHS-NIH-NIAID
<b>Yamamoto, Catherine</b>	<b>Student Affairs</b>
\$1,913,874	Student Support Services Program Department of Education
<b>Zempleni, Janos</b>	<b>Nutrition and Health Sciences</b>
\$1,233,088	* Biotin Deficiency Impairs Silencing of Repeat Regions and Retrotransposons DHHS-NIH-NIDDK
<b>Zhang, Luwen</b>	<b>Center for Virology</b>
\$1,126,847	Oncogenic Properties of Interferon Regulatory Factor 7 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

Chandra, Namas

Engineering

Negahban, Mehrdad

Engineering Mechanics

**Anderson, Mark****Geosciences**

\* Development of Northern Hemisphere  
Snow & Ice Climate Data Records

\$213,461

Rutgers University

Atmospheric Conditions Associated with Sea Ice  
Characteristics over Arctic Ocean during Melt Season

\$208,699

NASA

**Asgarpoor, Sohrab****Electrical Engineering**

\* Reliability Modeling and Maintenance  
Optimization of Aging Substations

\$206,082

NSF

**Atkin, Audrey****Biological Sciences**

Wild-Type PPR1 mRNA Decay by  
Yeast Nonsense-Mediated mRNA Decay Pathway

\$403,219

NSF

Moriyama, Etsuko

Center for Plant Science Innovation

**Avramov, Luchezar****Mathematics**

\* Cohomology and Structure of Commutative Algebras

\$260,667

NSF

Homology & Cohomology over Commutative Rings

\$356,322

NSF

**Avramova, Zoya****Biological Sciences**

\* Lipid-Signaling and Epigenetic Regulations in Arabidopsis:  
Are Myotubularins the Link?

\$450,000

NSF

ATX1, Epigenetic Regulator of Plant Development

\$442,500

NSF

**Azizinamini, Atorod****Civil Engineering**

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

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

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

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

IBRC 2002 Project  
 \$240,000 Nebraska Department of Roads

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

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

**Baenziger, P. Stephen****Agronomy and Horticulture**

Developing Winter Wheat with Improved Fusarium Head Blight  
 Tolerance by Conventional and Transgenic Approaches  
 \$354,437 Department of Agriculture-ARS  
 Mitra, Amit Plant Pathology  
 Watkins, John Plant Pathology  
 Clemente, Thomas Agronomy and Horticulture  
 Baltensperger, David Panhandle Research and Extension Center

Genetic Basis of Agronomic Traits  
 Controlled by Chromosome 3A in Wheat  
 \$390,000 Department of Agriculture-NRICGP  
 Eskridge, Kent Statistics  
 Dweikat, Ismail Agronomy and Horticulture

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

- Balkir, Sina** **Electrical Engineering**  
 All Solid-State Wireless Sensor Network for  
 Nuclear Proliferation Detection  
 \$417,191 Department of Energy  
 Hoffman, Michael Electrical Engineering
- Barker, Bradley** **Center on Children, Youth, Families  
 and Schools; 4-H State Office**  
 Robotics & GPS/GIS in 4-H: Workplace Skills for the 21st Century  
 \$864,139 NSF  
 Adamchuk, Viacheslav Center on Children, Youth, Families and  
 Schools; Biological Systems Engineering
- Basolo, Alexandra** **Biological Sciences**  
 Behavioral Plasticity in Preexisting Receiver Bias  
 \$378,000 NSF
- Batelaan, Herman** **Physics and Astronomy**  
 Matter Optics with Intense Laser Light  
 \$462,590 NSF
- Becker, Donald** **Biochemistry**  
 MRI: Acquisition of Beckman XLI Analytical Ultracentrifuge  
 \$284,160 NSF
- Belli, Robert** **Gallup Research Center**  
 Verbal Behaviors in Computerized Lifecourse Surveys  
 \$409,889 DHHS-National Institute on Aging
- Benson, Andrew** **Food Science and Technology**  
 \* Pyrosequencing and Community Profiling for  
 Risk Assessment in Leafy Greens  
 \$370,927 Department of Agriculture-NRICGP  
 Walter, Jens Food Science and Technology  
 Hutkins, Robert Food Science and Technology
- Berkowitz, David** **Chemistry**  
 \* Stereocontrolled Total Synthesis of  
 (-)-Picropodophyllin Analogues  
 \$500,000 Stockbridge Pharmaceuticals Inc.  
 New Approaches to Catalyst Screening & Development  
 \$423,000 NSF
- Beukelman, David** **Special Education and  
 Communication Disorders**  
 Rehabilitation Engineering Research  
 Center on Communication Enhancement  
 \$392,328 Duke University Medical Center
- Bevins, Rick** **Psychology**  
 \* Altering Nicotine Reward through Conditioning  
 \$339,446 DHHS-NIH-NIDA  
 Acquired Appetitive Properties of Nicotine  
 \$881,371 DHHS-NIH-NIDA

- 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  
 Kamil, Alan Biological Sciences
- Brand, Jennifer** **Center for Materials and Nanoscience**  
 Novel Rare-Earth Semiconductors for  
 Solid-State Neutron Detectors  
 \$449,999 DOD-Defense Threat Reduction Agency  
 Belashchenko, Kirill Physics and Astronomy  
 Dowben, Peter Physics and Astronomy
- Direct Energy Conversion with  
 Heteroisomeric Boron Carbide Diode Devices  
 \$238,398 Central Intelligence Agency
- 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

Relocation to the Buffalo Commons: Marketing Approach to  
 Understand Residential Decisions among Migrants  
 \$220,387 Department of Agriculture-NRICGP  
 Burkhart-Kriesel, Cheryl Panhandle Research  
 and Extension Center  
 Johnson, Bruce Agricultural Economics

**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



**Chen, Xun-Hong** **School of Natural Resources**

\* Development of Groundwater Flow Model  
in the Lower Platte North NRD Area

\$220,458 Lower Platte North NRD

**Ci, Song** **Computer and Electronics Engineering**

\* IHCS: ARMS: A Novel Adaptive Configurable Multi-Cell  
Battery System for Power-Aware Electronics

\$299,626 NSF

Alahmad, Mahmoud Architectural Engineering

Sharif-Kashani, Hamid Computer and Electronics Engineering

**Claes, Daniel** **Physics and Astronomy**

Experimental High Energy Physics

\$573,000 NSF

Snow, Gregory Physics and Astronomy

**Clemente, Thomas** **Biotechnology; Plant Science  
Initiative; Agronomy and Horticulture**

\* Necessary Resources to Aid in the Translation  
of Genomics Information into Applied Technologies

\$459,396 University of Georgia

Functional Analysis of Soybean Genes  
through Transposon Mutagenesis

\$262,268 United Soybean Board/Smith/Bucklin

Specht, James Agronomy and Horticulture

Enhancing Disease Resistance in Soybean through Biotechnology

\$456,000 North Central Soybean Research Program

Alfano, James Center for Plant Science Innovation;

Plant Pathology

Morris, T. Jack Biological Sciences

**Comfort, Steven** **School of Natural Resources**

Field-Scale Demonstrations of Innovative Remediation  
Techniques for Contaminated Soil and Water

\$994,100 Environmental Protection Agency

**Costello, Don** **Computer Science and Engineering**

GAANN Fellowships for Computer Science & Engineering

\$500,000 Department of Education

**Daly, Edward** **Educational Psychology**

School Psychology Leadership Specialization in  
Response-to-Intervention Research & Systems Change

\$800,000 Department of Education

McCurdy, Merilee Educational Psychology

Sheridan, Susan Educational Psychology

Kunz, Gina Educational Psychology

**DeKraai, Mark** **Public Policy Center**

\* Evaluation of Public Engagement Demonstration Projects  
on Pandemic Influenza (E-PEDPPI)

\$348,716 DHHS-Centers For Disease Control

Bulling, Denise Public Policy Center

<b>DiMagno, Stephen</b>	<b>Chemistry</b>
Anhydrous Fluoride Salts	
\$420,000	NSF
<b>Dominguez, Aaron</b>	<b>Physics and Astronomy</b>
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
Bloom, Kenneth	Physics and Astronomy
<b>Dowben, Peter</b>	<b>Center for Materials and Nanoscience</b>
Surface Chemistry of Adsorbates on Crystalline Polymers	
\$690,000	NSF
<b>Drijber, Rhae</b>	<b>Agronomy and Horticulture</b>
Developing Technologies to Improve Soil & Nutrient Management	
\$261,000	Department of Agriculture-ARS
<b>Du, Liangcheng</b>	<b>Chemistry</b>
Biosynthesis of Mycotoxin Fumonisin: Characterization of Enzymes for Vicinal Diol & Tricarballic Ester Formation	
\$284,667	NSF
<b>Ducharme, Stephen</b>	<b>Center for Materials and Nanoscience; Physics and Astronomy</b>
* Rational Design of Molecular Ferroelectric Materials and Nanostructures	
\$419,054	Department of Energy-EPSCoR
Takacs, James	Chemistry
Nanostructure-Designed Dielectric Material for High-Energy-Density Capacitors	
\$586,000	DOD-DEPSCoR
Ferroelectric Polymer Langmuir-Blodgett Films for Nonvolatile Random-Access Memory Applications	
\$240,000	NSF
<b>Duppong Hurley, Kristin</b>	<b>Special Education and Communication Disorders</b>
* Treatment Implementation and Mental Health Outcomes for Youth in Residential Care	
\$510,300	DHHS-NIH-NIMH
Epstein, Michael	Special Education and Communication Disorders
<b>Dussault, Patrick</b>	<b>Chemistry</b>
* Detection of Emerging Classes of Explosives	
\$950,000	DOD-DARPA
Cerny, Ronald	Chemistry
DiMagno, Stephen	Chemistry
Hage, David	Chemistry
Harbison, Gerard	Chemistry
Redepenning, Jody	Chemistry
* Directed Reactions of Carbonyl Oxides: A New Approach to Ozonolysis	
\$360,000	NSF

**Dwyer, Matthew** **Computer Science and Engineering**

Program Analysis Techniques to Support  
Dependable RTSJ Applications

\$207,519 NSF

Elbaum, Sebastian Computer Science and Engineering

Goddard, Stephen Computer Science and Engineering

Rothermel, Gregg Computer Science and Engineering

Finite-State Verification for High-Performance Computing

\$300,000 NSF

CSR-EHS Predictable Adaptive Residual  
Monitoring for Real-time Embedded Systems

\$500,000 NSF

Goddard, Stephen Computer Science and Engineering

Elbaum, Sebastian Computer Science and Engineering

**Dzenis, Yuris** **Engineering Mechanics**

Nanoengineered Interfaces

\$250,002 NSF

Modeling-Based Control of Electrospinning Process

\$275,000 NSF

**Eccarius, Malinda** **Special Education and  
Communication Disorders**

Mountain Prairie Upgrade Partnership - Early Childhood

\$781,642 Department of Education

Marvin, Chris Special Education and Communication Disorders

**Eckhardt, Craig** **Chemistry**

Experimental Investigation of the Role of Defects in  
Detonation Sensitivity of Energetic Materials

\$600,000 DOD-Office of Naval Research

A Study of the Mechanochemistry of Carbamazepine Polymorphs

\$227,200 Pfizer Inc./PGRD Groton Labs

**Elbaum, Sebastian** **Computer Science and Engineering**

ITR: Dependable End-User Software

\$253,573 NSF

**Engen-Wedin, Nancy** **Teaching, Learning and Teacher Education**

Indigenous Roots Teacher Education Program

\$704,730 Department of Education

McGowan, Thomas Teaching, Learning and Teacher Education

**Epstein, Michael** **Special Education and  
Communication and Disorders**

\* Evaluation of Family Reunification Program

\$219,454 Father Flanagan's Boys' Home

Leadership Training in Emotional Disturbance Disorders

\$601,733 Department of Education

Duppong Hurley, Kristin Special Education and

Communication and Disorders

Torkelson-Trout, Alexandra Special Education and

Communication and Disorders

- Fabrikant, Ilya** **Physics and Astronomy**  
Collision Processes Involving Low-Energy Electrons  
\$215,000 NSF
- Electron-Molecule Collisions in Different Environments  
\$240,000 NSF
- Faller, Ronald** **Civil Engineering**  
\* Dynamic Evaluation of Box Beam End Terminal  
Using the MASH 2008 Guidelines  
\$204,533 Nebraska Department of Roads  
Sicking, Dean Midwest Roadside Safety  
Reid, John Mechanical Engineering
- Development of a New Precast Concrete  
Bridge Railing System  
\$229,820 Nebraska Department of Roads  
Bielenberg, Robert Civil Engineering  
Reid, John Mechanical Engineering  
Tadros, Maher Civil Engineering
- Development of an Economical Guardrail  
System for Use on Gabion Walls  
\$400,000 Department of Transportation-FHWA  
Sicking, Dean Midwest Roadside Safety  
Rohde, John Midwest Roadside Safety  
Reid, John Mechanical Engineering
- Flores, Rolando** **Food Science and Technology**  
Midwest Advanced Food Manufacturing Alliance  
\$340,764 Department of Agriculture-CSREES
- Foley, Brett** **Educational Psychology**  
Consulting Services/Assist Oklahoma Commission  
for Teacher Preparation  
\$452,064 Oklahoma Office of Public Affairs
- Conducting Validity Studies for South Dakota  
Department of Education  
\$372,435 South Dakota Department of Education  
Geisinger, Kurt Educational Psychology
- Fromm, Michael** **Center for Biotechnology**  
\* MRI: Acquisition of High Capacity DNA Sequencing System  
\$714,750 NSF
- Gardner, Scott** **University of Nebraska State Museum;  
Biological Sciences**  
Mongolia Vertebrate Parasite Project  
\$619,991 NSF
- Enabling Access to Priority Taxa for Biodiversity Studies  
in the Manter Laboratory of Parasitology  
\$507,397 NSF  
Jimenez-Ruiz, Francisco University of Nebraska State Museum

**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

**Giesler, 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**

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

**Construction Systems****Goodman, Richard**

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

**Food Science and Technology****Gosselin, David**

Earth Science Institute for Elementary Educators  
 \$356,094 NASA  
 Bonnstetter, Ronald Teaching, Learning and Teacher Education

**School of Natural Resources**

Online Master's Degree in Applied Science Education  
 \$540,345 Toyota USA Foundation  
 Bonnstetter, Ronald Teaching, Learning and Teacher Education  
 Strand, Billie Extended Education and Outreach

**Graef, George**

\* Quality Traits Regional Tests  
 \$225,535 United Soybean Board/Smith/Bucklin

**Agronomy and Horticulture**

\* Soybean Breeding and Genetic Studies for Nebraska  
 \$203,443 Nebraska Soybean Board  
 Specht, James Agronomy and Horticulture

Sclerotinia Resistance Enhanced by  
 Accumulation of QTL Transgenic Approaches  
 \$371,120 Department of Agriculture-ARS  
 Clemente, Thomas Agronomy and Horticulture  
 Steadman, James Plant Pathology

**Greve, Vickie**

Communities Together Can  
 \$657,000 Department of Agriculture-CSREES  
 Swanson, Douglas Cooperative Extension

**Northeast Research and Extension Center****Hage, David**

Chromatographic Automation of Immunoassays  
 \$946,982 DHHS-NIH-NIGMS

**Chemistry**

Chromatographic Studies of Functional Proteomics  
 \$756,640 DHHS-NIH-NIDDK

**Harris, Steven**

Autophagy in Fungal Hyphae: Functional  
 Genomic & Mechanical Strength Studies  
 \$417,852 University of Maryland-Baltimore

**Center for Plant Science Innovation;  
Plant Pathology**

**Harshman, Lawrence****Biological Sciences**

Comparative Functional Genomics of *Drosophila* Obesity  
 \$516,548 Cornell University

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

Genome Biology of Innate Immunity: Genetic Dissection of  
*Drosophila melanogaster* Responses to *Bacillus* Infection  
 \$452,163 DOD-DEPSCoR  
 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  
 \$240,000 Chicago Community Trust/Searle Scholar

**Henry, Christopher****Biological Systems Engineering**

Livestock Producer Environmental Assistance Project  
 \$600,000 Nebraska Environmental Trust

Development of Alternative Technologies  
 for Small Livestock Producers  
 \$221,881 Nebraska 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 NSF

**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  
 Lynne, 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  
 Siekman, 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



**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

**Lodi, 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

**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

MRI: Development of Multifunctional  
Nanoscale Measurement System

\$220,000

NSF

Alexander, Dennis

Electrical Engineering

Ducharme, Stephen

Physics and Astronomy

Tunable Photonic Bandgap Crystals  
with Integrated Functionalities

\$330,000

DOD-Air Force Office of Scientific Research

Near-Field-Controlled Nanoscale Coating  
of Functional Thin Films for Nanodevices

\$240,000

NSF

**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

Helmets, 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 &amp; Psychosocial Outcomes

\$637,373

Pennsylvania State University

**Meagher, Michael** **Chemical and Biomolecular Engineering**

\* Manufacture of a cGMP Lot of a Recombinant Next Generation  
PA Vaccine for Phase I Clinical Trial and Toxicity Testing  
\$428,325 Emergent Product Development,  
Gaithersburg Inc.  
Swanson, Stephen Chemical and Biomolecular Engineering  
Van Cott, Kevin Chemical and Biomolecular Engineering

**Melvin, Steven** **West Central Research and Extension Center**

Irrigation Management with Limited Water:  
A Farm Education Program  
\$287,080 Department of Interior-BR  
Martin, Derrel Biological Systems Engineering  
Corr, Alan West Central Research and Extension Center  
van Donk, Simon West Central Research and Extension Center

**Merchant, James** **School of Natural Resources**

\* Initial Design and Implementation of the Nebraska  
Geospatial Data Sharing and Web Services Network  
\$260,870 Nebraska Office of the Chief Information Officer

**Miller, Nancy** **Textiles, Clothing and Design**

Collaborative Research on Small Business Network  
Creation and Outcomes for Change and Innovation  
\$230,011 NSF

**Mitra, Amit** **Plant Pathology**

Functional Map of Tomato Genome using  
Direct Repeat Induced Gene Silencing  
\$301,000 Department of Agriculture-NRICGP

**Moore, Raymond** **Engineering**

\* Students United in Classes, Community, Engineering,  
Service and Study Abroad  
\$591,995 NSF

**Moriyama, Etsuko** **Center for Plant Science Innovation;  
Biological Sciences**

Efficient and Sensitive Mining System for  
G-Protein Coupled Receptors  
\$577,014 DHHS-NIH-NLM

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

**Morris, T. Jack** **Biological Sciences**

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

**Moxley, Rodney** **Veterinary and Biomedical Sciences**

Influence of Enterotoxins on Virulence and  
Colonization of Porcine Intestine by E.coli  
\$270,000 Department of Agriculture-NRICGP

- Nelson, J. Ron** **Special Education and Communication Disorders**  
Effects of a Supplementary Vocabulary Intervention for Students with Limited English Proficiency  
\$694,884 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 DOD-DEPSCoR  
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 NSF  
Li, Chenhong Biological Sciences  
Diamond, Judy 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 Department of Agriculture-NRICGP  
Pattnaik, Asit Veterinary and Biomedical Sciences
- Pattnaik, 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



**Redepenning, Jody**                      **Center for Materials and Nanoscience**

Chemically Modified Nano-Electrodes  
for Magnetoelectronics Applications

\$390,000

NSF

Binek, Christian

Physics and Astronomy

Sokolov, Andrei

Physics and Astronomy

**Reichenbach, Stephen**                      **Computer Science and Engineering**

SEI: Information Modeling for  
Comparative Visualizations & Analyses

\$389,228

NSF

**Reid, John**                                      **Mechanical Engineering**

Midwest States Regional Pooled Fund Program

\$590,000

Nebraska Department of Roads

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

Department of Education

**Rilett, Laurence**                                      **Civil Engineering**

\* Nebraska Transportation Center Seed Funding

\$300,000

Nebraska Department of Roads

Development of State of the Art Traffic

Micro-Simulation Model for Nebraska

\$222,896

Nebraska Department of Roads

Jones, Elizabeth

Civil Engineering

Intelligent Transportation System Deployment Project

\$831,942

Nebraska Department of Roads

Jones, Elizabeth

Civil Engineering

Khattak, Aemal

Civil Engineering

**Robertson, Brian**                                      **Center for Materials and Nanoscience**

Spintronic Devices Enabled by Semiconducting Boron Carbide

\$299,998

NSF

Adenwalla, Shireen

Center for Materials and Nanoscience

Dowben, Peter

Center for Materials and Nanoscience

**Rothermel, Gregg**                                      **Computer Science and Engineering**

CRI: Community Resource to Support Controlled

Experimentation with Program Analysis and Testing Techniques

\$874,636

NSF

Elbaum, Sebastian

Computer Science and Engineering

Dwyer, Matthew

Computer Science and Engineering

ITR: Dependable End-User Software

\$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

**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

Tsymbol, 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

Baltensperger, 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 Ran-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

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

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

**Snow, Gregory** **Physics and Astronomy**  
 \* The Luminosity Measurement for the  
 DZERO Experiment at Fermilab  
 \$395,352 Department of Energy-EPSCoR  
 Bloom, Kenneth Physics and Astronomy  
 Claes, Daniel Physics and Astronomy  
 Dominguez, Aaron Physics and Astronomy

GAANN Fellowships for Physics at UNL  
 \$383,181 Department of Education

**Soh, Leen-Kiat** **Computer Science and Engineering**  
 iLOG: Embedding & Validating Empirical  
 Usage Intelligence in Learning Objects  
 \$409,705 NSF  
 Samal, Ashok Computer Science and Engineering  
 Nugent, Gwen Center on Children, Youth, Families and Schools

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

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

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

**Spaulding, William** **Psychology**  
 Decision Science in Rehabilitation  
 \$860,775 DHHS-NIH-NIMH  
 Garbin, Calvin Psychology

- Specht, James** **Agronomy and Horticulture**  
Genetic Mapping & Application of SNP DNA Markers in Soybean  
\$389,391 Department of Agriculture-ARS
- Spreitzer, Robert** **Biochemistry**  
Rubisco Phylogenetic Engineering  
\$202,383 Department of Agriculture-NRICGP
- Srisa-an, Witawas** **Computer Science and Engineering**  
Building Scalable & Adaptive Garbage Collector  
for Server Systems  
\$281,000 NSF  
Elbaum, Sebastian Computer Science and Engineering
- CSR-PDOS: Memory Efficient Garbage Collection  
Framework for Java Server Applications  
\$300,000 NSF
- Stansbury, John** **Civil Engineering**  
\* Feasibility of Integrating Natural and Constructed Wetlands  
in Roadway Drainage System Design  
\$255,562 Nebraska Department of Roads  
Moussavi, Massoum Civil Engineering  
Zhang, Tian Civil Engineering
- Starace, Anthony** **Physics and Astronomy**  
Strong Field & Ultrafast Atomic and Molecular Processes  
\$250,000 NSF
- Staswick, Paul** **Agronomy and Horticulture**  
\* Deciphering Novel Signaling Roles for  
Amino Acid Conjugates of Jasmonic Acid  
\$249,969 NSF
- Steadman, James** **Plant Pathology**  
Resistance Improvement of Bean thru Multi-Site  
Screening & Pathogen Characterization  
\$204,650 Department of Agriculture-ARS
- Steffen, David** **Veterinary and Biomedical Sciences**  
\* Avian Influenza (AI) - High Path Surveillance  
\$224,052 Nebraska Department of Agriculture  
Kelling, Clayton Veterinary and Biomedical Sciences
- Stentz, Terry** **Construction Management**  
Human Factors in Railway Operation  
\$344,575 Department of Transportation-FRA  
Jones, Elizabeth Civil Engineering  
Rilett, Laurence Civil Engineering  
Khattak, Aemal Civil Engineering  
Riley, Michael Industrial and Management Systems Engineering  
Jones, Erick Industrial and Management Systems Engineering
- Analytic Study of Acute Extremity Lacerations in Meat Packing  
\$593,333 Harvard School of Public Health

- Stockton, Matthew** **West Central Research and Extension Center**  
 Whole-Farm Economic Biological Stochastic Simulation  
 Model of Small to Medium Cow-calf Firms with Research,  
 Teaching and Extension Modules  
 \$499,740 Department of Agriculture-NRICGP
- Stone, Julie** **Center for Plant Science Innovation; Biochemistry**  
 Role of Transcriptional Regulator in  
 Programmed Cell Death & Plant Development  
 \$354,000 Department of Energy
- Storz, Jay** **Biological Sciences**  
 Test of Adaptive Divergence across Altitudinal  
 Gradients: Population Genomics of Deer Mice  
 \$492,000 NSF
- Stowell, Richard** **Biological Systems Engineering**  
 Air Quality Extension & Education:  
 Enhanced Learning Opportunities for Addressing  
 Air Quality Issues in Animal Agriculture  
 \$498,562 Department of Agriculture-NRICGP
- Stubbendieck, James** **Great Plains Studies**  
 Farm Viability, Farmland Preservation and Smart Growth  
 \$308,000 Department of Agriculture-NRICGP  
 Esseks, J. Dixon Great Plains Studies
- Subbiah, Jeyamkondan** **Biological Systems Engineering; Food Science and Technology**  
 \* Improving the Safety of Prepared, But Not Ready-To-Eat  
 Microwavable Foods through Heat Transfer  
 and Pathogen Destruction Modeling  
 \$599,985 Department of Agriculture-CSREES  
 Jones, David Biological Systems Engineering  
 Thippareddi, Harshavardhan Food Science and Technology
- Subramanian, Anu** **Chemical and Biomolecular Engineering**  
 Biomimetic Nanofibrillar Scaffolds for Tissue Engineering  
 \$390,720 DHHS-NIH-NIBIB  
 Larsen, Gustavo Chemical and Biomolecular Engineering
- Svoboda, Mark** **School of Natural Resources**  
 \* Development of a "Drought Ready Communities" Program  
 \$288,670 Department of Commerce-NOAA  
 Sittler, Meghan School of Natural Resources  
 Smith, Kelly School of Natural Resources  
 Knutson, Cody School of Natural Resources  
 Woudenberg, Donna School of Natural Resources
- \* Integrating Enhanced GRACE Water Storage Data  
 into the U.S. and North American Drought Monitors  
 \$224,991 NASA-Goddard Space Flight Center  
 Wardlow, Brian School of Natural Resources  
 Fuchs, Brian School of Natural Resources  
 Scott, Soren School of Natural Resources

**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  
\$321,379 Nebraska Department of Roads

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

Impact of Large 0.7 inch Strand on NU-I Girder and NUDeck  
\$244,408 Nebraska Department of Roads  
Morcoux, George Construction Systems

**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  
Zeng, Xiao Cheng Chemistry

**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



**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  
 Gursoy, Mustafa Electrical Engineering
- Wagner, William** **Biological Sciences**  
 \* Effects of Predation by a Phonotactic Parasitoid on Male  
 and Female Reproductive Behavior in a Field Cricket  
 \$499,414 NSF
- Communication of Direct Mating Benefits to Females  
 \$313,283 NSF
- Waldren, Vernon** **Southeast Research and Extension Center**  
 HUD Omaha Lead Site  
 \$300,000 Department of Housing and Urban Development
- 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  
 \$236,714 Supreme Court of Nebraska
- Weller, Curtis** **Biological Systems Engineering**  
 Purification Process Influences on Structural &  
 Nutritional Function of Grain Sorghum  
 \$338,000 Department of Agriculture-NRICGP  
 Carr, Timothy Nutrition and Health Sciences  
 Schlegel, Vicki Food Science and Technology  
 Cuppett, Susan Food Science and Technology  
 Hwang, Keum Taek Industrial Ag Products Center  
 Wang, Lijun Biological Systems Engineering
- Wiegand, Roger** **Mathematics**  
 GAANN Fellowship Program: Mathematics at UNL  
 \$638,635 Department of Education  
 Pitts, David Mathematics  
 Walker, Judy Mathematics  
 Walker, Mark Mathematics  
 Bellows, Laurie Graduate Studies

<b>Wiener, Richard</b>	<b>Psychology</b>
\$200,000	REU Site: Psychology and Law NSF
\$233,883	Jury Bias in Criminal Cases: Sexual Assault, Homicide and Generic Prejudice NSF
\$302,364	Self-referencing, Social Identity & Judgments of Sexual Harassment NSF
<b>Wilson Jr., Robert</b>	<b>Panhandle Research and Extension Center</b>
\$880,000	Assessing the Long Term Viability of Roundup Ready Technology as a Foundation for Cropping Systems Monsanto Co.
<b>Woldt, Wayne</b>	<b>Biological Systems Engineering</b>
\$259,742	Advancing Onsite Wastewater Treatment in Nebraska Nebraska Department of Environmental Quality Skipton, Sharon Southeast Research and Extension Center
<b>Wood, Charles</b>	<b>Biological Sciences</b>
\$383,601	AIDS and Cancer Specimen Bank George Washington University
\$273,363	Research and Training on HIV/AIDS Neuropathogenesis in Zambia DHHS-NIH-NIMH
\$506,753	Vaccination against Mucosal HIV Clade C Transmission Dana-Farber Cancer Institute
<b>Woodward, Gordon</b>	<b>Mathematics</b>
\$400,000	Increasing Participation in Computer Science, Engineering, & Mathematics through NSF Scholarships at UNL NSF
Ballard, John	Engineering
Ramamurthy, Byrav	Computer Science and Engineering
Goddard, Steve	Computer Science and Engineering
Lee, Kevin	Arts & Sciences
\$251,823	Nebraska REU in Applied Mathematics NSF
Rebarber, Richard	Mathematics
<b>Wortmann, Charles</b>	<b>Agronomy and Horticulture</b>
\$235,839	Integrated Approach to Reduced Risk of Phosphorus Pollution of Surface Waters in Crop-Livestock Based Managed Ecosystems of the Midwest Nebraska Corn Board
Erickson, Galen	Animal Science
Schulte, Dennis	Biological Systems Engineering
Franti, Tom	Biological Systems Engineering
Jose, H. Douglas	Agricultural Economics

- Yang, Yiqi** **Textiles, Clothing and Design**  
Resistance of Sulfur Dyed Fabrics to Oxidative  
Bleaching & Acidic Tendering: Improvement & Application  
\$300,618 Procter & Gamble
- Yoder, Ronald** **Biological Systems Engineering**  
\* Enhancing the Value of Water through Management Education  
\$225,000 Nebraska Department of Natural Resources
- Nebraska AgrAbility  
\$800,000 Department of Agriculture-CSREES  
Baquet, Alan Agricultural Economics
- 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
- Epigenetic Effects of Biotin on Activation of  
Endogenous Viral Sequences  
\$395,601 DHHS-NIH-NIEHS
- Zeng, Xiao Cheng** **Chemistry**  
ITR: Multiscale Treatment of Systems with Strong Heterogeneities  
\$715,121 NSF
- Diestler, Dennis Agronomy and Horticulture  
Feng, Ruqiang Engineering Mechanics
- Zera, Anthony** **Biological Sciences**  
Enzymatic and Molecular Bases of Trade-Offs in  
Lipid Metabolism that Underlie Life History Trade-Off  
\$435,682 NSF
- Harshman, Lawrence Biological Sciences
- Zhang, Luwen** **Center for Virology**  
Interferon Regulatory Factor 7 and NPC  
\$393,855 DHHS-NIH-NIAID
- Zlotnik, Vitaly** **Geosciences**  
Mechanisms Producing Variation in Lake Salinity in  
Dune Environments: Nebraska Sand Hills  
\$219,958 NSF
- Fritz, Sherilyn Geosciences  
Swinehart, James School of Natural Resources

## Early Career Awards

Active awards in 2008

\* Indicates new in 2008

### 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



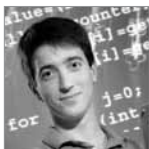
#### **Cohen, Myra**

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 &  
DO  
\$550,000 NSF



#### **Elbaum, Sebastian**

Computer Science and Engineering  
Leveraging Field Data to Test Pervasive Systems  
\$412,594 NSF

**Enders, Axel**

Physics and Astronomy  
 \* Self-Assembled Magnetic Nanostructures  
 \$400,000

NSF

**Frank, Tracy**

Geosciences  
 Exploring the Geologic Record of Major Climate  
 Transitions: Causes, Consequences, & Impacts  
 on the Evolution of Earth Systems  
 \$583,816

NSF

**GURSOY, Mustafa**

Electrical Engineering  
 CAREER: Energy-Efficient Wireless  
 Communications under Channel Uncertainty  
 \$400,000

NSF

**Hebert, Eileen**

Biological Sciences  
 Evolution and Function of Complex Signaling in  
 Wolf Spider Genus Schizocosa  
 \$680,351

NSF

**Kim, Yong Rak**

Civil Engineering  
 Research & Education on Advanced Multiscale  
 Modeling-Analysis of Roadway Materials,  
 Mixtures, & Infrastructure Systems  
 \$402,044

NSF

**Wang, Lily**

Architectural Engineering  
 Integrating Time-Variant Source Directivity into  
 Architectural Acoustic Auralizations  
 \$406,376

NSF

**Xu, Lisong**

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

NSF

## K Awards

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



**Angeletti, Peter**

Biological Sciences

Maintenance of Human Papilloma Virus Genes

\$613,512

DHHS-NIH-NCI



**DiLillo, David**

Psychology

Family Functioning of Adults Maltreated as Children

\$670,286

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

\* Just-Enough-Testing: Adaptive Targeted Testing  
of Software Product Lines

\$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.

## Price, Kenneth

## Center for Digital Research in the Humanities; English

Walt Whitman Archive

\$500,000

National Endowment for the Humanities

8/1/05 – 3/31/09



Ken Price, professor of English and Hillegass chair of 19th Century American Literature, is principal investigator for a \$500,000 We the People Challenge Grant from the National Endowment for the Humanities. The award is contingent on UNL acquiring a 3-1 match of \$1.5 million in the next four years. When

fundraising is completed, the \$2 million establishes an endowment at the University of Nebraska Foundation, the proceeds of which provide permanent annual operating funding for the Walt Whitman Archive. The Whitman Archive is an electronic research and teaching tool that makes Whitman's huge body of work easily and conveniently accessible. Whitman amassed a huge volume of work during his life. Some 70,000 manuscripts are housed in about 80 locations, although the bulk is known to be in just five libraries. But the logistics of finding these various documents, let alone assessing and comparing their relevance and content, are daunting. The Archive allows scholars to search the entire body of Whitman's writings and scholarship on those works and offers scholarly analysis.

\* 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****Libraries**

Interoperability of Metadata Standards for  
Digital Thematic Research Collections

\$169,651

Institute of Museum and Library Services

11/1/05 - 4/30/08

Price, Kenneth

English

Bolin, Mary

Libraries

Barney, Brett

Libraries



Katherine Walter, chair of special collections and preservation and professor of libraries, is principal investigator on a team hoping to develop guidelines that will serve as a model for the integration of standards used by scholarly digital projects and could influence future development. Metadata integration is

an important but yet unattained goal for digital thematic research collections, which employ standards for transcriptions, digital images, finding aids and administrative records. These standards have been developed by different communities. The Metadata Encoding and Transmission Standard (METS) shows promise as a means of integrating various standards, but no testing of METS has been done using digital thematic research as a model; thus ad hoc and idiosyncratic solutions have sprung up, with various unreliable results. UNL will create a METS profile to test its reliability and also submit the package to two digital library systems at Brown University and the University of Virginia.

National Digital Newspaper Program: Nebraska

\$271,016

National Endowment for the Humanities

7/1/07 - 6/30/09

Wunder, John

Journalism and Mass Communications

Mering, Margaret

Center for Digital Research in the Humanities

Pytlik Zillig, Brian

Center for Digital Research in the Humanities

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

# Arts and Humanities Awards

## \$5,000-\$49,999

Active awards in 2008

\* Indicates new in 2008

### **Bleed, Peter**

Archaeological Investigation of the Battle of El Viso, July 1, 1898  
\$30,220

### **Anthropology and Geography**

National Geographic Society

### **Engen-Wedin, Nancy**

\* Nebraska's Rural Arts Education Initiative  
\$25,000

### **Lied Center for Performing Arts**

National Endowment for the Arts

\$50,000

ArtsReach

Nebraskans for the Arts

\$23,250

Umo<sup>h</sup>o<sup>n</sup> Cultural Arts Program

Kennedy Center for Performing Arts

### **Handa, Rumiko**

Spirit of Design: Multidisciplinary,  
Multimedia Database and Website

\$12,000

Potter, James

### **Architecture**

Graham Foundation

Architecture

### **Hanson, Marin**

International Quilt Study Center New Building Opening Exhibition  
\$21,274

Ducey, Carolyn

### **Textiles, Clothing and Design**

Cooper Foundation

International Quilt Study Center & Museum

### **Jewell, Andrew**

\$49,577

### **Center for Digital Research in the Humanities**

\* The Crowded Page

National Endowment for the Humanities

\$7,800

Mapping a Writer's World: A Geographic  
Chronology of Willa Cather's Life

Nebraska Humanities Council

### **Kendall, Laura**

\$35,000

### **Lied Center for Performing Arts**

\* Loop Divers by Troika Ranch

Woods Charitable Fund/

Lincoln Community Foundation

### **Lundine, Heather**

\$20,000

\* Literary Publishing at the University of Nebraska Press

National Endowment for the Arts

\$25,000

Access to Artistic Excellence: International Translations

National Endowment for the Arts

### **Price, Kenneth**

\$14,000

Walt Whitman Archive

### **English**

Cooper Foundation

**Richmond, John**

\*2009 Honors Jazz Weekend & Summer Camp

\$10,000

Haar, Ora

**School of Music**

Berman Music Foundation

School of Music

**Stubbendieck, James**

\* Celebrating Darwin's Legacy

\$8,960

**Great Plains Studies**

Nebraska Humanities Council

**Walter, Katherine**

Quilt Index National Leadership Project

\$20,000

Crews, Patricia

**University Libraries**

Michigan State University

Textiles, Clothing and Design

**Weiss, Wendy**

**Textiles, Clothing and Design**

Hillestad Textiles Gallery

\$9,000

Friends of the Hillestad Textiles Gallery

# PATENTS ISSUED IN 2008

Recognition for faculty who received patents  
UNL faculty indicated in **red**

**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 Redepening**, 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

# 2008 INTELLECTUAL PROPERTY LICENSES

Recognition for faculty who licensed intellectual property

UNL faculty indicated in **red**

**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

Artist, prints, *IMPRINT 2008, Clashes Between Civilizations*, Kulisiewicz International Graphics Triennial, Palace of Culture and Science, Warsaw, Poland

**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**

### **Art and Art History**

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**

### **Art and Art History**

Artist, mixed media, *Dark Sky Preserve*, The Arts Mission, Binghamton, New York

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

### **The Moran Woodwind Quintet**

### **School of Music**

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**

### **School of Music**

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

## BOOKS

Recognition for faculty who wrote or edited books in 2008.

### **Douglas A. Abbott**

### **Child, Youth and Family Studies**

Co-editor, with Rochelle L. Dalla, Child, Youth and Family Studies; John DeFrain, Child, Youth and Family Studies; Julie Johnson, Child, Youth and Family Studies. *Strengths and Challenges of New Immigrant Families: Implications for Research, Education, Policy, and Service*. Lanham, MD: Lexington Books.

### **Katherine S. Ankersen**

### **Architecture**

Co-author, with Jill Pable. *Interior Design: Practical Strategies for Teaching and Learning*. New York, NY: Fairchild Books, Inc.

### **Mark J. Awakuni-Swetland**

### **Anthropology; Institute for Ethnic Studies**

Author. *Dance Lodges of the Omaha People*. Lincoln, NE: University of Nebraska Press.

### **Stephen C. Behrendt**

### **English**

Author. *British Women Poets and the Romantic Writing Community*. Baltimore, MD/London: Johns Hopkins University Press.

### **Susan Belasco**

### **English**

Editor, with Linck Johnson. *The Bedford Anthology of American Literature Vol. 2, 1865-Present*. Boston, MA/New York, NY: Bedford/St Martin's Press.

### **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**

Co-editor/author, with Nicholas Bankson; Peter Flipsen. *Articulation and Phonological Disorders, 6th ed.* Upper Saddle River, NJ: Pearson Education.

### **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**

Co-editor, with Richard L. Wiener, Psychology and College of Law; 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.

**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 United States, 3rd ed.* New York, NY: Pearson Longman.

**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 Oaks, CA: Sage Publications.

**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 Mixed Methods Reader.* Thousand Oaks, CA: Sage Publications.

**Rochelle L. Dalla****Child, Youth and Family Studies**

Primary editor, with John DeFrain, 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, and Service.* Lanham, MD: Lexington Books.

**John D. DeFrain** **Child, Youth and Family Studies**

Co-author, with David H. Olson; Linda Skogrand. *Marriages and Families: Intimacy, Diversity, and Strengths*, 6th ed. New York, NY: McGraw-Hill Higher Education.

Co-editor, with Rochelle L. Dalla, 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, and Service*. Lanham, MD: Lexington Books.

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**

Primary editor for revision, with Judy Scotchmoor. *Animal Coloration: Activities on the Evolution of Concealing Coloration in Animals*. Arlington, VA: National Science Teachers Association Press.

**Lester A. Digman** **Management**

Author. *Strategic Management: Competing in the Global Information Age*, 9th ed. Mason, OH: Cengage Learning.

**Wheeler Winston Dixon** **English**

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

**Richard Dooling** **College of Law**

Author. *Rapture for the Geeks: When AI Outsmarts IQ*. New York, NY: Harmony Books.

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

Author. *Dancing on the White Page: Black Women Entertainers Writing Autobiography*. Albany, NY: State University of New York Press.

**Judy A. Driskell** **Nutrition and Health Sciences**

Co-editor, with Ira Wolinsky. *Sports Nutrition: Energy Metabolism and Exercise*. Boca Raton, FL: CRC Press, Taylor and Francis Group.

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

First editor, with Carlina Rinaldi. *The Diary of Laura: Perspectives on a Reggio Emilia Diary*. St. Paul, MN: Redleaf Press.

**Michael Epstein** **Special Education and Communication Disorders**

Co-author, with Marc Atkins; Douglas Cullinan; Krista Kutash; Robin Weaver. *Reducing Behavior Problems in the Elementary School Classroom: A Practice Guide*. Washington, DC: National Center for Education Evaluation and Regional Assistance.

**Patricia Fairchild****4-H State Office**

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****Geosciences**

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****English**

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

**Tracy D. Frank****Geosciences**

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****School of Natural Resources;  
University of Nebraska State Museum**

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****English**

Co-author, with Amy Lee. *Teaching Writing That Matters*. New York, NY: Scholastic.

**James A. Garza****History; Institute for Ethnic Studies**

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

**Roch E. Gaussoin****Extension; Agronomy and Horticulture**

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****Educational Administration**

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****Johnny Carson School of Theatre and Film**

Author. *Cultural Chronicle of the Weimar Republic*. Lanham, MD: Scarecrow Press.



**John Gruhl****Political Science**

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

**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**

Editor and co-author. *Environmental Tectonics: Forming Climatic Change*. London, England: AA Publications.

**Terry Housh****Nutrition and Health Sciences**

Co-author, with Glen Johnson, Nutrition and Health Sciences; Joel Cramer; Joseph Weir; Travis Beck. *Physical Fitness Laboratories on a Budget*. Scottsdale, AZ: Holcomb Hathaway Publishers.

**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**

Author. *The Platte: Channels in Time*. Lincoln, NE: University of Nebraska Press.

**Glen Johnson****Nutrition and Health Sciences**

Co-author, with Terry Housh, Nutrition and Health Sciences; Joel Cramer; Joseph Weir; Travis Beck. *Physical Fitness Laboratories on a Budget*. Scottsdale, AZ: Holcomb Hathaway Publishers.

**Julie Johnson****Child, Youth and Family Studies**

Co-editor, with Rochelle L. Dalla, Child, Youth and Family Studies; John DeFrain, 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, and Service*. Lanham, MD: Lexington Books.

**Wendy J. Katz****Art History**

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

**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**

Co-author, with Alice Whiren; Anne Soderman; Kara Gregory. *Guiding Children's Social Development & Learning, 6th ed.* Clifton Park, NY: Delmar Cengage Learning.

**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**

Author. *Modern Sounds: The Artistry of Contemporary Jazz*. Dubuque, IA: Kendall/Hunt.

Author. *The History and Tradition of Jazz, 3rd ed.* Dubuque, IA: Kendall/Hunt.

**Carole Levin****History; Medieval & Renaissance Studies**

Author. *Dreaming the English Renaissance: Politics and Desire in Court and Culture*. New York, NY: Palgrave Macmillan.

**Suping Lu****Libraries-Books**

Editor. *Terror in Minnie Vautrin's Nanjing: Diaries and Correspondence, 1937-38*. Urbana, IL: University of Illinois Press.

**Tom Lynch****English**

Author. *Xerophilia: Ecocritical Explorations in Southwestern Literature*. Lubbock, TX: Texas Tech University Press.

**Drew J. Lyon****Panhandle 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; 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****History**

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

**Ann Mari May****Economics**

Editor and contributor. *The 'Woman Question' and Higher Education: Perspectives on Gender and Knowledge Production in America*. Cheltenham, UK: Edward Elgar.

**Joseph Mendola****Philosophy**

Author. *Anti-Externalism*. Oxford, UK: Oxford University Press.

**Dona-Gene Mitchell****Political Science**

Co-editor, with Jeffery J. Mondak. *Fault Lines: Why the Republicans Lost Congress*. New York, NY: Routledge.

**Nancy A. Mitchell****Advertising; Undergraduate Studies**

Co-author, with Sandra Moriarty; William Wells. *Advertising Principles and Practice, 8th ed.* Upper Saddle River, NJ: Pearson/Prentice Hall.

**J. Ron Nelson****Special Education and  
Communication Disorders**

Co-author, with Gregory J. Benner, Paul Mooney. *Scientifically Based Instructional Practices for Teaching Students with Serious Behavioral Disorders: Strategies for Reading, Writing and Math*. New York, NY: Guilford Press.

**Mary E. Nelson****Southeast 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; 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**

Editor of critical edition. *Le Nègre et la Créole, ou Mémoires d'Eulalie D\*\*\**. Paris, France: L'Harmattan.

**David L. Olson** **Management**

Co-author, with Desheng Wu. *Enterprise Risk Management*. Singapore: WorldScientific.

Co-author, with Dursun Delen. *Advanced Data Mining Techniques*. Heidelberg, Germany: Springer.

Co-editor, with Desheng Wu. *New Frontiers in Risk Management*. Heidelberg, Germany: Springer.

**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**

First editor, with John W. Creswell, Educational Psychology. *The Mixed Methods Reader*. Thousand Oaks, CA: Sage Publications.

**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. Vonderohe, 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. DeFrain, Family and Consumer Sciences. *Fun to Play, Ready to Learn*. Lincoln, NE: University of Nebraska-Lincoln.

**Mary Kay Quinlan****News-Editorial**

Co-author, with Charles E. Trimble; Barbara W. Sommer. *The American Indian Oral History Manual: Making Many Voices Heard*. Walnut Creek, CA: Left Coast Press.

**Brett C. Ratcliffe****University of Nebraska State Museum;  
Entomology**

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****English; Women's and Gender Studies**

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

Editor. *Loren Eiseley: Commentary, Biography, and Remembrance*. Lincoln, NE: University of Nebraska Press.

**George E. Rejda****Finance**

Author. *Principles of Risk Management and Insurance*. Boston, MA: Pearson Education, Inc.

**Guy J. Reynolds****English**

Author. *Apostles of Modernity: American Writers in the Age of Development*. Lincoln, NE: Nebraska.

**Lowell D. Sandell****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; 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****College of Law**

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****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; 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****Electrical Engineering**

Editor, with Uwe Beck; Hans Arwin. *4th International Conference on Spectroscopic Ellipsometry*. Berlin, Germany: Wiley.

**Alan T. Seagren****Educational Administration**

Co-author, with Daniel Wheeler, Agricultural Leadership, Education and Communication; Linda Wysong Becker; Edward R. Kinley; Dara D. Mlinek; Kenneth J. Robson. *The Academic Chair's Handbook*, 2nd ed. San Francisco, CA: John Wiley & Sons, Inc.

**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**

Editor. *Advanced Principles for Improving Database Design, Systems Modeling, and Software Development*. Hershey, NY: IGI Global.

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

Author. *Simple Models of Magnetism*. New York, NY: Oxford University Press, Inc.

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

Co-author, with Don A. Dillman; Leah M. Christian. *Internet, Mail, and Mixed-Mode Surveys: The Tailored Design Method*. Hoboken, NJ: John Wiley & Sons.

**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**

Author. *I Am a Man: Standing Bear's Journey for Justice*. New York, NY: St. Martin's Press

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

Author. *Before Bruegel. Sebald Beham and the Origins of Peasant Festival Imagery*. Aldershot, UK, and Burlington, VT: Ashgate.

**Zhenghong Tang****Community and Regional Planning**

Author. *Integrate Strategic Environmental Assessment in Local Land Use Planning: Thinking Globally, Acting Locally*. Saarbrücken, Germany: VDM Verlag.

**Steven Taylor****Food Science and Technology**

Editor. *Advances in Food and Nutrition Research*, 54 and 55. San Diego, CA: Academic Press.

**Eric Thompson** **Bureau of Business Research; Economics**

Co-author, with William Walstad, Center for Economic Education. *Entrepreneurship in Nebraska: Conditions, Attitudes, and Actions*. New York, NY: Gallup Press.

**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**

Series editor. *Studies in Space Law Series: Lotta Viikari, The Environmental Element in Space Law*. Leiden, The Netherlands, and Boston, MA: Martinus Nijhoff Publishers.

**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**

Co-author, with Eric C. Thompson, Economics. *Entrepreneurship in Nebraska: Condition, Attitudes, and Actions*. New York, NY: Gallup Press.

**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.

**LaDonna A. Werth****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**

Co-author, with Alan T. Seagren, Educational Administration; Linda Wysong Becker; Edward R. Kinley; Dara D. Mlinek; Kenneth J. Robson. *The Academic Chair's Handbook, 2nd ed.* San Francisco, CA: John Wiley & Sons, Inc.

**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**

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

**Robert G. Wilson****Panhandle 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; 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**

Co-editor, with Mary F. Howard-Hamilton; Carla L. Morelon-Quainoo; Susan D. Johnson; Lilia Santiago. *Standing on the Outside Looking in: Underrepresented Students' Experiences in Advanced Degree Programs*. Hendon, VA: Stylus Publishing.

**Simon Wood****Classics and Religious Studies**

Author. *Christian Criticisms, Islamic Proofs: Rashid Rida's Modernist Defence of Islam*. Oxford, UK: Oneworld.

**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**

Co-editor, with Joann M. Ross. *The Nebraska-Kansas Act of 1854*.  
Lincoln, NE: University of Nebraska Press.

**Janos Zemleni**

**Nutrition and Health Sciences**

Co-editor, with Carolyn Berdanier. *Advanced Nutrition*. Boca Raton,  
FL: Taylor and Francis.

# 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. Pollack 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**

2008 Roland Bainton Prize for Best Reference Work published in 2007, Sixteenth Century Studies and Conference

Best Collaborative Project published in 2007, Society for the Study of Early Modern Women

**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

**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 Sinovec**

**Computer Science and Engineering**

Coleman-Richardson Distinguished Chaired Professorship for 2008-09, U.S. Air Force Academy

**David R. Smtih** **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)

# Glossary of Federal Agency Abbreviations

USAID United States Agency for International Development

CNS Corporation for National Service

USDA United States Department of Agriculture

ARS Agricultural Research Service

BRDC Biotechnology Research and  
Development Corporation

CSREES Cooperative State Research,  
Education & Extension Service

ERS Extension Research Service

FAS Foreign Agriculture Service

FS Forestry Service

NRCS Natural Resources Conservation Service

NRICGP National Research Initiative Competitive  
Grant Program

RMA Risk Management Agency

SARE Sustainable Agricultural Research  
and Education Program

DOC Department of Commerce

EDA Economic Development Administration

NOAA National Oceanic &  
Atmospheric Administration

DOD Department of Defense

ARO Army Research Office

DEPSCoR Defense Experimental Program to  
Stimulate Cooperative Research

ONR Office of Naval Research

DEd Department of Education

FIPSE Fund for the Improvement  
of Postsecondary Education

GAANN Graduate Assistance in Areas of  
National Need

DOE Department of Energy

EPSCoR Experimental Program to Stimulate  
Cooperative Research

NIGEC National Institute for Global  
Environmental Change

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
Dol	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

**Published March 2009 by the  
UNL Office of Research**

**Graphic Designer: Stephanie Severin  
Contributing Editors: Elizabeth Banset,  
Mardi Bonner, Karen Underwood**

**Printed by UNL Printing Services**

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

We apologize for any omissions or errors in this report.

The University of Nebraska–Lincoln does not discriminate based on gender, age, disability, race, color, religion, marital status, veteran’s status, national or ethnic origin, or sexual orientation. © 2009, The Board of Regents of the University of Nebraska. All rights reserved.

