

Research and Creative Activity

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

Office of Research
University of Nebraska–Lincoln



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

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.

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

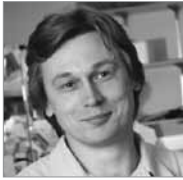
Redox Biology Center

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
01/01/09 – 12/31/13
Heaton, Ruth

NSF

Teaching, Learning and Teacher Education;
CSMCE

McGowan, Thomas
Stroup, Walter
Edwards, Carolyn

Teaching, Learning and Teacher Education
Statistics

Child, Youth and Family Studies;
Psychology

Papick, Ira
Jacobson, Barbara

Mathematics; CSMCE
Lincoln Public Schools



Drs. Lewis, Heaton, McGowen and Jacobson are joined by Walter Stroup, professor of statistics, Ira Papick, professor of mathematics, and Carolyn Edwards, professor of psychology, in directing NEBRASKA MATH, a statewide program aimed at improving mathematics

achievement for all students and narrowing the achievement gap for at-risk students in kindergarten through third grade. The program is supported by a \$9.3 million grant from the National Science Foundation. NEBRASKA MATH is a partnership of UNL, public schools in Lincoln, Grand Island, and Papillion-La Vista, and 14 rural Educational Service Units. It builds on the success of UNL's Math in the Middle Institute, by initiating new programs that focus on enhancing teachers' knowledge of mathematics and teaching methods.

Math in the Middle Institute Partnership

\$5,600,000
8/1/04 – 7/31/11
Heaton, Ruth

NSF

Teaching, Learning and Teacher Education;
CSMCE

McGowan, Thomas
Jacobson, Barbara

Teaching, Learning and Teacher Education
Lincoln Public Schools



Jim Lewis, professor of mathematics; Ruth Heaton, associate professor of teaching, learning and teacher education; Tom McGowan, professor of teaching, learning and teacher education; and Barbara Jacobson, curriculum director for Lincoln Public Schools, are co-leaders of a \$5.6

million project titled the Math in the Middle Institute Partnership. The goal is to create the next set of leaders in middle school mathematics who will mentor peers and offer challenging courses to their students. During the five years of the project, about 120 teachers will participate in three in-residence summer sessions, four non-resident academic semesters and take 10 courses created by math and pedagogy experts. Middle school is a gateway to high school success, and efforts to improve middle school learning, especially in mathematics, show benefits at later stages in students' academic careers.

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 & 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
National Academy of Sciences-
Transportation Research Board
Civil Engineering

\$1,999,637

Tadros, Maher

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

Nugent, Gwen

Adamchuk, Viacheslav

NSF
Center on Children, Youth,
Families and Schools
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
Department of Education

\$1,125,000

Blum, Paul **Biological Sciences**

* Value-Added Products from Renewable Biofuels

\$1,968,000

Cassman, Kenneth

Department of Energy
Nebraska Center for
Energy Sciences Research

Chen, Bing **Computer and Electronics Engineering**

SPiRiT^{2.0} Silicon Prairie Initiative for Robotics in IT

\$2,999,963

NSF

Cupp, Andrea **Animal Science**

Role of VEGF in Testis Morphogenesis

\$1,066,625

Weber, John

White, Brett

DHHS-NIH-NICHD
Animal Science
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 & Field Installation of Steel Tube &

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 & Functions of Selenoprotein Genes

\$1,114,032

DHHS-NIH-NIGMS

Goddard, Stephen**Computer Science and Engineering**

Climate & 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 & 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 & 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, JudyEMSW21-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 & Psychosocial Outcomes

\$2,559,414

McQuillan, Julia

DHHS-NIH-NICHD

Sociology

Wilcke, William	IANR-Research
\$2,707,719	North Central Regional Sustainable Agriculture Research & Education Program – SARE Department of Agriculture-CSREES
Wilcox, Brian	Center on Children, Families and the Law
\$1,200,000	Midwest Child Care Research Consortium DHHS-ACF
Torquati, Julia	Family and Consumer Sciences
Wilhite, Donald	School of Natural Resources
\$1,023,038	Rangeland and Forage Geospatial Decision Support System for Drought Risk Management Department of Agriculture-RMA
Wood, Charles	Biological Sciences
\$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
Yamamoto, Catherine	Student Affairs
\$1,913,874	Student Support Services Program Department of Education
Zempleni, Janos	Nutrition and Health Sciences
\$1,233,088	* Biotin Deficiency Impairs Silencing of Repeat Regions and Retrotransposons DHHS-NIH-NIDDK
Zhang, Luwen	Center for Virology
\$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

DiMagno, Stephen	Chemistry
Anhydrous Fluoride Salts	
\$420,000	NSF
Dominguez, Aaron	Physics and Astronomy
PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenoessische Technische Hochschule on Advanced Pixel Silicon Detectors for the CMS Detector	
\$406,500	University of Kansas Center for Research
Bloom, Kenneth	Physics and Astronomy
Dowben, Peter	Center for Materials and Nanoscience
Surface Chemistry of Adsorbates on Crystalline Polymers	
\$690,000	NSF
Drijber, Rhae	Agronomy and Horticulture
Developing Technologies to Improve Soil & Nutrient Management	
\$261,000	Department of Agriculture-ARS
Du, Liangcheng	Chemistry
Biosynthesis of Mycotoxin Fumonisin: Characterization of Enzymes for Vicinal Diol & Tricarballic Ester Formation	
\$284,667	NSF
Ducharme, Stephen	Center for Materials and Nanoscience; Physics and Astronomy
* Rational Design of Molecular Ferroelectric Materials and Nanostructures	
\$419,054	Department of Energy-EPSCoR
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
Duppong Hurley, Kristin	Special Education and Communication Disorders
* Treatment Implementation and Mental Health Outcomes for Youth in Residential Care	
\$510,300	DHHS-NIH-NIMH
Epstein, Michael	Special Education and Communication Disorders
Dussault, Patrick	Chemistry
* Detection of Emerging Classes of Explosives	
\$950,000	DOD-DARPA
Cerny, Ronald	Chemistry
DiMagno, Stephen	Chemistry
Hage, David	Chemistry
Harbison, Gerard	Chemistry
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

Jameson, Mary Liz **University of Nebraska State Museum**

Monography & Phylogeny of New World Scarabaeoid Beetles
\$755,300 NSF
Ratcliffe, Brett Entomology

Jiang, Hong **Computer Science and Engineering**

SAM^2 Toolkit: Scalable & Adaptive Metadata
Management for High-End Computing
\$602,326 NSF

Jones, Clinton **Veterinary and Biomedical Sciences**

Functional Analysis of biCPO
Department of Agriculture-NRICGP
\$375,000

Functional Analysis of Proteins Encoded by the Bovine
Herpesvirus 1 Latency Related Gene
Department of Agriculture-CSREES
\$374,475

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

Jones, Erick **Industrial and Management
Systems Engineering**

* RFID License Plate System Feasibility Study
for Commercial Vehicle Operators
Nebraska Department of Roads
\$250,000

Jose, H. Douglas **Agricultural Economics**

Trade Adjustment Assistance Program
Department of Agriculture-RMA
\$705,000

Josiah, Scott **Nebraska State Forest Service**

Community Enhancement Program
Nebraska Department of Roads
\$500,000

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

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

Kennedy, Patricia **Marketing**

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

Kim, Yong Rak **Civil Engineering**

Asphalt Research Consortium
Texas A & M Research Foundation
\$350,000
Allen, David Engineering Mechanics

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

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 & 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

Wiener, Richard	Psychology
\$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
Wilson Jr., Robert	Panhandle Research and Extension Center
\$880,000	Assessing the Long Term Viability of Roundup Ready Technology as a Foundation for Cropping Systems Monsanto Co.
Woldt, Wayne	Biological Systems Engineering
\$259,742	Advancing Onsite Wastewater Treatment in Nebraska Nebraska Department of Environmental Quality Skipton, Sharon Southeast Research and Extension Center
Wood, Charles	Biological Sciences
\$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
Woodward, Gordon	Mathematics
\$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
Wortmann, Charles	Agronomy and Horticulture
\$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



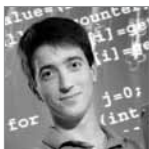
Cohen, Myra

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^hoⁿ 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

School of Music

*2009 Honors Jazz Weekend & Summer Camp

\$10,000

Berman Music Foundation

Haar, Ora

School of Music

Stubbendieck, James

Great Plains Studies

* Celebrating Darwin's Legacy

\$8,960

Nebraska Humanities Council

Walter, Katherine

University Libraries

Quilt Index National Leadership Project

\$20,000

Michigan State University

Crews, Patricia

Textiles, Clothing and Design

Weiss, Wendy

Textiles, Clothing and Design

Hillestad Textiles Gallery

\$9,000

Friends of the Hillestad Textiles Gallery

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*. Saarbruken, 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.

