



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

This is the sixth annual “Major Sponsored Programs and Faculty Awards for Research and Creative Activity” report. This booklet highlights the successes of University of Nebraska–Lincoln faculty during 2007. It lists the funding sources, projects and investigators on major grants and sponsored program awards received during the year, as well as patents issued; published books and scholarship; fellowships and other recognitions; intellectual property licenses; and performances and exhibitions in the fine and performing arts. This impressive list grows each year and I am pleased to present evidence of our faculty’s accomplishments.

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

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

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

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

Prem S. Paul  
Vice Chancellor for Research and  
Economic Development



# AWARDS OF \$3 MILLION OR MORE

Active awards in 2007

\* Indicates new in 2007

## 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

Paul, Prem

Office of Research

4/1/06 - 3/31/2011



Kenneth Cassman directs the Nebraska Center for Energy Sciences Research, a collaboration between UNL and the Nebraska Public Power District. The center was established in April 2006 with NPPD's five-year, \$5 million commitment to support energy research that produces new technologies, processes and systems that provide new or significantly enhanced renewable energy sources, improves the quality of life and boosts economic opportunity. The center fosters interdisciplinary collaboration among UNL faculty and with other research institutions, public-sector agencies and private sector companies with similar interests. The center supports both basic and applied research and has a broad mandate to explore a range of renewable energy opportunities (including biofuels, wind and solar energy), as well as opportunities for energy conservation.

## Cotton, Dan

## Cooperative Extension

\$6,800,000

10/1/04 - 12/31/09

National E — Extension Project

National Association of State

Universities and Land-Grant Colleges



Dan Cotton directs the eXtension Initiative, an Internet-based land-grant university education and information system. UNL is the lead institution in this multi-year project, which partners with the University of Kentucky and North Carolina State University. This is a collaborative effort of

the nation's 107 land-grant universities and the U.S. Department of Agriculture's Cooperative State Research, Education and Extension Service to develop content and technology for the eXtension project. eXtension is a virtual educational environment that provides science-based, objective information. Users may take advantage of learning opportunities and interact with the expertise available from the land-grant university system.

## Epstein, Michael

## Special Education and Communication Disorders

\$4,498,231

10/1/01 - 9/30/07

Center for Behavior and Reading

Dept. of Education



Michael Epstein, William Barkley professor of special education and communication disorders, and co-investigator Ron Nelson, associate research professor of special education and communication disorders, have established the Center for Behavior and Reading in the Center for At-Risk Children's

Services to focus on implementing and evaluating reading and behavior intervention programs for school-aged children. The aim of their research is to assess the overall and intervention-specific effects of various programs on school, staff, child and family levels. The project is funded by the U.S. Department of Education and involves seven participating schools in Lincoln's public school system.

## Fromm, Michael

## Center for Biotechnology

\$6,057,747

9/1/02 - 12/31/07

A Protein Interaction Database for Rice Protein Kinases

NSF



Michael Fromm, director of the Center for Biotechnology and a professor of agronomy and horticulture in the Institute of Agriculture and Natural Resources, is the Plant Genome Research Center's principal investigator. The center was established in 2002 with a grant from the National Science Foundation

and involves scientists from six universities. Research at the center focuses on protein kinases of plants, in particular those of cereal crops. Protein kinases are enzymes that affect the way plants react to their environments. Manipulating kinases could provide a means of regulating the tolerance of plants to disease and environmental stresses, such as drought and temperature extremes.

## Metabolite Signaling Center

\$4,057,419

NSF-EPSCoR

2/1/04 - 1/31/07

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

### **Gladyshev, Vadim**

### **Biochemistry**

Redox Biology Center

\$10,889,947

DHHS-NIH-NCRR

8/1/07 - 7/31/12



Vadim Gladyshev, Charles Bessey professor of biochemistry in the Institute of Agriculture and Natural Resources, is the director of the Redox Biology Center. Established in 2002 with a grant from the National Institutes of Health as a Center of Biomedical Research Excellence, the center received a competitive renewal grant in 2007 to support it through 2012. The center's researchers investigate how cells maintain a reduction-oxidation balance, a process called redox homeostasis, and study links between redox homeostasis and diseases such as cancer, cardiovascular disease, Alzheimer's disease and cataracts. The center's research will provide important advances in the understanding of redox regulation, comprising aspects of cellular aging and controlled cell death.

## Goddard, Stephen

## Computer Science and Engineering

Drought Risk, Impact and Mitigation Information System  
 \$6,407,473  
 Wilhite, Donald  
 9/1/05 – 9/30/08

Dept. of Agriculture-RMA-FCIC  
 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  
 Levy, Richard  
 6/1/05 – 5/31/10

NSF  
 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 (ANtartic geological DRILLing), the project is administered by the ANDRILL Science Management Office headquartered at UNL. ANDRILL is backed by more than \$30 million in funding, including \$9.7 million in previous and ongoing national agreements to support operations and nearly \$8 million from the other countries to support scientific research. Other members of the U.S. consortium making up the American portion of the ANDRILL program are Florida State University, Ohio State University and the University of Massachusetts Amherst. The project also includes scientists from Germany, Italy and New Zealand.

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

North Central Risk Management Education Center

\$3,600,000

Dept. 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****Mathematics**

Math in the Middle Institute Partnership

\$5,000,000

NSF

Ruth Heaton

Teaching, Learning and Teacher Education

Thomas McGowan

Teaching, Learning and Teacher Education

Barbara Jacobson

Lincoln Public Schools

8/1/04 - 7/31/09



Jim Lewis, professor of mathematics; Ruth Heaton, associate professor of teaching, learning and teacher education; Tom McGowan, professor of teaching, learning and teacher education; and Barbara Jacobson, curriculum director for Lincoln Public Schools, are co-leaders of a \$5 million

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

**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

\$6,799,173

DynPort Vaccine Company

9/1/03 – 2/28/08

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

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

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 centers program supports transportation research,



education and technology transfer that promote scientific innovations in a variety of transportation modes and disciplines. Region 7 serves Iowa, Kansas, Missouri and Nebraska. It is one of 10 regional university transportation centers in the nation.

**Sheridan, Susan**

**Educational Psychology**

Parent Engagement and Learning Birth to Five

\$5,077,441

DHHS-NIH-NICHD

Edwards, Carolyn

Psychology

9/26/03 – 7/31/08



Susan M. Sheridan, Willa Cather professor of educational psychology, and co-investigator Carolyn Edwards, Willa Cather professor of psychology and family and consumer sciences, are leading a team of researchers from UNL and UNMC in a school-readiness project funded by three federal agencies.

The team will launch and evaluate a comprehensive, community-based early education program for children aged 0-5. The goal is to increase children's readiness for school by teaching parents to build an effective relationship with their children at home and to be active participants in their children's learning when they enter school. The program is designed to enhance children's cognitive, behavioral and socioemotional well-being, which together set the stage for school readiness.

**Tsymbal, Evgeny**

**Nebraska Center for  
Materials and Nanoscience**

Materials Research Science & Engineering  
Center; Nanomagnetic Structures

\$5,491,000

NSF

9/1/02 – 8/31/08



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.

**Velander, William****Chemical and Biomolecular Engineering**

cGMP Recombinant FIX and Oral Hemophilia B Therapy

\$9,625,045

DHHS-NIH-NHLBI

Meagher, Michael

Chemical and Biomolecular Engineering

Van Cott, Kevin

Chemical and Biomolecular Engineering

9/6/05 - 8/31/10



William Velander, Donald R. Voelte Jr. and Nancy A. Keegan endowed chair in engineering, is principal investigator in a partnership funded by a \$9.9 million grant from the National Institutes of Health/ National Heart, Lung and Blood Institute.

The goal is to develop an abundant, pure, safe and effective therapy for Hemophilia B using recombinant human coagulation proteins produced in the milk of transgenic pigs. The project builds on innovative bioengineering technologies pioneered by Velander that enable improved intravenous and novel oral delivery of hemophilic factors to patients. Hemophilia B is a congenital bleeding disorder that causes pain, crippling injuries and early death. It can be treated by Factor IX, a blood protein, but the costs are prohibitive and most patients do not receive it. Velander's project isolates Factor IX in the milk of transgenic pigs.

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

\$5,398,990

DOD-Army Medical Research

Meagher, Michael

Chemical and Biomolecular Engineering

Van Cott, Kevin

Chemical and Biomolecular Engineering

Inan, Mehmet

Chemical and Biomolecular Engineering

8/1/05 - 10/31/08

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

**Whitbeck, Les****Sociology**

Cultural Resilience of Rural &amp; Remote Ojibwe Families

\$3,243,488

DHHS-NIH-NIMH

Hoyt, Dan

Sociology

7/1/02 - 12/30/07

Ojibwe Pathways Through the High School Years

\$3,262,793

DHHS-NIH-NIDA

Johnson, Kurt

Sociology

Park, Mingue

Sociology

Hoyt, Dan

Sociology

9/3/05 - 6/30/12



Les Whitbeck, professor of sociology, is coordinating two major projects. The National Institute of Mental Health is funding a five-year project to identify precursors of mental disorders and to evaluate cultural risks and protective factors among a population of pre-teen Native children in the Upper Midwest area. A second project, funded by the National Institute on Drug Abuse, is a five-year project to investigate risk and resilience for early onset substance use and abuse among pre-teen Native children in the same region.

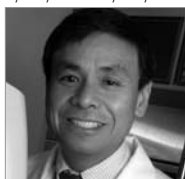
**Wood, Charles****Biological Sciences**

Nebraska Center for Virology

\$10,354,057

DHHS-NIH-NCRR

9/26/05 - 4/30/10



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

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

Kaposi's Sarcoma &amp; Human Herpesvirus in Africa

\$3,300,682

DHHS-NIH-National Cancer Institute

9/30/03 - 6/30/08

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

## Yohe, John

## IANR-Intl Programs

International Sorghum/Millet Collaborative  
Research Support Program (INTSORMIL)

\$36,990,000

U.S. Agency for International Development

7/1/96 – 9/30/07

\$9,000,000

9/30/06 – 9/29/11



John Yohe, associate professor in the Department of Agronomy and Horticulture, directs the International Sorghum/Millet (INTSORMIL) Collaborative Research Support Program. INTSORMIL is a collaborative international organization that supports research focused on improving nutrition and increasing income in developing countries and the United States. Scientists from U.S. land grant universities collaborate with scientists in host countries in the development of technology to improve production and utilization of sorghum and millet and facilitate natural resource management. Their work is done in Africa, Eurasia, Latin America and the United States.

## Interdisciplinary Team

\* Infrastructure for the Enhancement of Systems  
Biology Research & Development at UNL

\$4,329,877

NSF-EPSCoR

7/1/07 – 6/30/10

This grant supports multi-campus collaborative research between biologists and engineers for creating a strategic research niche in epigenetics– the study of heritable changes in gene functions not associated with changes in DNA sequence. Much of what comprises the complexity of multi-cellular organisms is programmed within the network of interacting molecules – protein, RNA and DNA – known collectively as chromatin. Engineers will create nano-devices for delivering molecules into cells for better understanding the role of chromatin in cell function and its response to the environment.

# Awards of \$1 Million to \$2,999,999

Active awards in 2007

\* Indicates new in 2007

## Adams, Stephanie

## Industrial and Management Systems Engineering

Strengthening Transitions into Engineering Program

\$1,648,354

NSF

Ballard, John

Engineering

Perez, Lance

Electrical Engineering

## Alfano, James

## Plant Science Initiative/Plant Pathology

Suppression of Innate Immunity by  
ADP Ribosyltransferase Type III Effectors

\$1,815,504

DHHS-NIH-NIAID

## Barycki, Joseph

## Biochemistry

Structural Insights into Redox Homeostasis

\$1,067,922

DHHS-NIH-NIGMS

## Becker, Donald

## Biochemistry

Mechanistic Studies of Functional Switching  
in the PutA Flavoprotein

\$1,218,025

DHHS-NIH-NIGMS

## Bellows, Laurie

## Graduate Studies

McNair Scholars Project and the University of Nebraska-Lincoln

\$1,125,000

Dept. of Education

## Chen, Bing

## Computer and Electronics Engineering

SPIRIT<sup>2.0</sup> Silicon Prairie Initiative for Robotics in IT

\$2,999,963

NSF

## Cotton, Dan

## Cooperative Extension

New Technologies for Ag Extension (eXtension)

\$1,425,600

Department of Agriculture-CSREES

## Cupp, Andrea

## Animal Science

\* Role of VEGF in Testis Morphogenesis

\$1,083,239

DHHS-NIH-NICHD

Weber, John

Animal Science

White, Brett

Animal Science

## DeKraai, Mark

## Public Policy Center

Child Mental Health SIG

\$1,629,313

Nebraska Dept. Health and Human Services

## Diamond, Judy

## University of Nebraska State Museum

Explore Evolution

\$2,851,409

NSF

\* World of Viruses

\$1,286,811

DHHS-NIH-NCRR

Wood, Charles

Nebraska Center for Virology

**Doll, Elizabeth****Educational Psychology**

Evolving Inquiry: Science Instruction Model for  
Teachers in Rural, Culturally Diverse Schools

\$1,261,684

Dept. of Education

Bruning, Roger

Educational Psychology

Bonnstetter, Ron

Teaching, Learning and Teacher Education

Horn, Christy

Educational Psychology

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

NIRT: Manufacturing of Novel Continuous  
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

Dept. of Education

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

On the Way Home: A Family-Centered Academic  
Reintegration Intervention Model

\$1,443,284

Dept. of Education

Torkelson-Trout, Alexandra

Special Education and  
Communication Disorder

**Espy, Kimberly****Office of Research**

Prenatal Tobacco Exposure: Perinatal and Genetic Risks

\$1,207,660

DHHS-NIH-NIDA

Wiebe, Sandra

Office of Research

Executive Function Development in Preschool Children

\$1,168,281

DHHS-NIH-NIMH

Wiebe, Sandra

Office of Research

**Faller, Ronald****Civil Engineering**

Evaluation & Field Installation of Steel Tube &  
Foam Energy Reduction (SAFER) Barrier

\$1,045,913

Indianapolis Racing League

Holloway, Jim

Civil Engineering

Reid, John

Mechanical Engineering

Rohde, John

Civil Engineering

Sicking, Dean

Civil Engineering

|                         |   |
|-------------------------|---|
| <b>Farrell, Michael</b> | <b>University Television</b>  |
| \$1,246,068             | IPY: Engaging Antarctica  |
| Diamond, Judy           | NSF<br>University of Nebraska State Museum  |
| <b>Farritor, Shane</b>  | <b>Mechanical Engineering</b>   |
| \$2,531,439             | Track Stability Assessment & Data Transmission  |
| Turner, Joseph          | Dept. of Transportation-FRA   |
| Nelson, Carl            | Engineering Mechanics   |
| Sharif, Hamid           | Mechanical Engineering<br>Computer and Electronics Engineering  |
| <b>Gladyshev, Vadim</b> | <b>Biochemistry</b>   |
| \$1,155,459             | Functions of Mammalian Thioredoxin Reductases   |
|                         | DHHS-NIH-NIGMS  |
| \$1,323,973             | Selenoprotein as a Target for Cancer Prevention   |
|                         | DHHS-NIH-NCI  |
| \$1,249,639             | Methionine Sulfoxide Reduction, Selenium and Aging  |
|                         | DHHS-NIH-NIA  |
| \$1,138,800             | Identity & Functions of Selenoprotein Genes   |
|                         | DHHS-NIH-NIGMS  |
| <b>Goddard, Stephen</b> | <b>Computer Science and Engineering</b>   |
| \$1,212,056             | Climate & Soil Risk Information System  |
| Wilhite, Donald         | Dept. of Agriculture-RMA  |
| Hubbard, Kenneth        | School of Natural Resources<br>School of Natural Resources  |
| <b>Green, Jordan</b>    | <b>Special Education and<br/>Communication Disorders</b>  |
| \$1,758,852             | Early Speech Motor Development  |
|                         | DHHS-NIH-NIDCD  |
| <b>Hoagland, Kyle</b>   | <b>School of Natural Resources</b>  |
| \$1,500,000             | DNR Ground Water Management and<br>Protection Act Service Agreement                                       |
|                         | Nebraska Dept. of Natural Resources   |
| <b>Hubbard, Kenneth</b> | <b>School of Natural Resources</b>  |
| \$2,107,365             | Services of the NOAA Regional Climate Centers   |
|                         | Dept. of Commerce-NOAA  |
| \$1,000,000             | * Regional Climate Services Support in the High Plains<br>Region: The High Plains Regional Climate Center |
|                         | Dept. of Commerce-NOAA  |
| <b>Jones, Vicky</b>     | <b>Northeast Research &amp; Extension Center</b>  |
| \$1,976,095             | Northeast Nebraska Paraprofessional Ladder Project  |
| Lopez, William          | Dept. of Education<br>Teaching, Learning and Teacher Education  |
| <b>Josiah, Scott</b>    | <b>NE State Forest Service</b>  |
| \$1,834,089             | Cooperative Forestry Program  |
|                         | Dept. of Agriculture-FS   |

**Kamil, Alan** **Biological Sciences**

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

**Knoche, Lisa** **Center on Children, Youth, Families and Schools**

Rural Language and Literacy Connections (Rural LLC)  
\$2,741,563 Dept. of Education  
Raikes, Helen Center on Children, Youth, Families  
and Schools/Child, Youth and Family Studies

**Koszewski, Wanda** **Nutrition and Health Sciences**

Building Nebraska Families  
\$2,226,983 Nebraska Dept. of Health & Human Services  
Birnstihl, Elizabeth IANR-Cooperative Extension  
Schnepf, Marilynn Nutrition and Health Sciences

**Koszewski, Wanda** **Nutrition and Health Sciences**

Nutrition Education Program  
\$1,280,914 Nebraska Dept. of Health & Human Services  
Birnstihl, Elizabeth IANR Cooperative Extension  
Schnepf, Marilynn Nutritional and Health Sciences

**Lee, Jaekwon** **Biochemistry**

Mechanistic Insights into Homeostatic Copper Ion Acquisition  
\$1,075,850 DHHS-NIH-NIDDK

**Leslie-Pelecky, Diandra** **Physics and Astronomy**

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

**Lou, Marjorie** **Veterinary and Biomedical Sciences**

Protein-Thiol Mixed Disulfide in Cataractogenesis  
\$1,721,697 DHHS-NIH-National Eye Institute

**Lu, Yongfeng** **Electrical Engineering**

Multi-Laser-Beam Open-Atmosphere Surface  
Coating Techniques Based on Precursor Excitation,  
Photodissociation and Controlled Cooling  
\$2,999,970 DOD-Office of Naval Research-MURI

**Meagher, Michael** **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

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

Therapeutic Agents & Vaccines against Biological Warfare  
\$2,905,899 DOD-Army Medical Research  
Schlegel, Vicki Food Science and Technology  
Zhang, Wenhui Chemical and Biomolecular Engineering  
Wu, Joey Chemical and Biomolecular Engineering

Purification of proPRT-201 and Production of Reference Standard  
\$2,001,355 Proteon Therapeutics

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



|   |  |
|---|--|
| <b>Mendoza-Gorham, Joan</b>   | <b>Student Affairs</b>                                     |
| Classic Upward Bound  |  |
| \$1,250,000   | Dept. of Education   |
| Upward Bound Math/Science Program   |  |
| \$1,000,000   | Dept. of Education   |
| <b>Nelson, J. Ron</b>   | <b>Special Education and<br/>Communication Disorders</b>   |
| Portales a Aprender Leer (PAL)  |  |
| \$2,687,442   | Dept. of Education   |
| <b>Parkhurst, Lawrence</b>  | <b>Chemistry</b>   |
| Assembly Mechanisms of TBP-Nucleated Complexes  |  |
| \$1,107,318   | DHHS-NIH-NIGMS   |
| <b>Robertson Jr., Vaughn</b>  | <b>Student Affairs</b>                                     |
| UNL Educational Talent Search   |  |
| \$2,091,823   | Dept. of Education   |
| <b>Rutenbeck, Kathy</b>   | <b>Student Affairs</b>                                     |
| Upward Bound-Northeast Nebraska   |  |
| \$1,458,320   | Dept. of Education   |
| <b>Sheridan, Susan</b>  | <b>Center on Children, Youth,<br/>Families and Schools</b> |
| Evaluation of Efficacy of CBC for Addressing Disruptive<br>Behaviors of Children-at-Risk for Academic Failure |  |
| \$1,368,067   | Dept. of Education   |
| Glover, Todd  | Center on Children, Youth, Families and Schools            |
| <b>Simpson, Melanie</b>   | <b>Biochemistry</b>  |
| Role of Hyaluronan Matrix in Prostate Cancer Progression  |  |
| \$1,074,629   | DHHS-NIH-National Cancer Institute                         |
| <b>Snow, Greg</b>   | <b>Physics and Astronomy</b>                               |
| The Cosmic Ray Observatory Project  |  |
| \$1,374,005   | NSF  |
| Claes, Daniel   | Physics and Astronomy                                      |
| <b>Starace, Anthony</b>   | <b>Physics and Astronomy</b>                               |
| Dynamics of Few-Body Atomic Processes   |  |
| \$1,106,337   | Dept. of Energy  |
| <b>Umstadter, Donald</b>  | <b>Physics and Astronomy</b>                               |
| Research & Development of a High-Power-Laser-Driven<br>Electron Accelerator Suitable for Applications         |  |
| \$1,250,029   | DOD-DARPA  |
| Banerjee, Sudeep  | Physics and Astronomy                                      |
| High-Energy Laser for Detection,<br>Inspection, & Non-Destructive Testing                                     |  |
| \$2,596,020   | DOD-Air Force Office of Scientific Research                |
| Tunable, Monoenergetic Gamma-Ray Source<br>for Identification of Embedded SNM                                 |  |
| \$1,829,596   | Dept. of Homeland Security-DNDO                            |

**Van Etten, James**

DNA Replication &amp; Gene Expression of Chlorella Viruses

\$1,215,694

Dunigan, David

Kang, Ming

Zhang, Yuanzheng

Agarkova, Irina

Gurnon, James

**Plant Pathology**

DHHS-NIH-NIGMS

Plant Pathology

Plant Pathology

Plant Pathology

Plant Pathology

Plant Pathology

**Verma, Shashi****School of Natural Resources**

Great Plains Regional Center for Global Environmental Change

\$2,214,769

Dept. of Energy/NIGEC

Carbon Sequestration in Dryland &amp; Irrigated Agroecosystems

\$1,600,000

Cassman, Kenneth

Knops, Johannes

Hubbard, Kenneth

Arkebauer, Timothy

Dobermann, Achim

Yang, Haishun

Walters, Daniel

Suyker, Andrew

Ginting, Daniel

Dept. 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

\$1,335,080

DHHS-NIH-NCRR

Subramanian, Anu

Chemical and Biomolecular Engineering

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

\$2,500,000

Marley, Tom

NSF

Mathematics

**Wedin, David****School of Natural Resources**Sand Hills Biocomplexity: Integrating  
Biogeophysical Processes Across Space and Time

\$1,794,730

Loope, David

NSF

Geosciences

**Weeks, Donald****Biochemistry**

Development of Dicamba-Resistant Crops

\$2,500,000

Monsanto Co.

**Whitbeck, Les****Sociology**

Great Plains Cultural Ways Mental Health Careers Program

\$1,298,171

Moore, Helen

DHHS-NIH-NIMH

Sociology

**White, Lynn****Sociology**

Infertility: Pathways &amp; Psychosocial Outcomes

\$2,559,414

McQuillan, Julia

DHHS-NIH-NICHD

Sociology

- Wilcke, William** **IANR-Research**  
 North Central Regional Sustainable Agriculture  
 Research & Education Program – SARE  
 \$2,707,719 Dept. of Agriculture-CSREES
- Wilcox, Brian** **Center on Children, Families and the Law**  
 Midwest Child Care Research Consortium  
 \$1,200,000 DHHS-Admin. for Child & Families  
 Torquati, Julia Family and Consumer Sciences
- Wilhite, Donald** **School of Natural Resources**  
 Rangeland and Forage Geospatial Decision  
 Support System for Drought Risk Management  
 \$1,023,038 Dept. of Agriculture-RMA
- Wood, Charles** **Biological Sciences**  
 Programs in HIV & AIDS Assoc Diseases/Malignancies  
 \$2,130,669 DHHS-NIH-Fogarty International Center
- Evolution of Clade C HIV-1 in Infected Children  
 \$1,586,250 DHHS-NIH-NICHD
- Research Training in Comparative Viral Pathogenesis  
 \$1,223,242 DHHS-NIH-NIAID
- Yamamoto, Catherine** **Student Affairs**  
 Student Support Services Program  
 \$1,889,080 Dept. of Education
- Zempleni, Janos** **Nutrition and Health Sciences**  
 Vitamin-Dependent Modifications of Histones  
 \$1,046,279 DHHS-NIH-NIDDK
- Zhang, Luwen** **Center for Virology**  
 Oncogenic Properties of Interferon Regulatory Factor 7  
 \$1,126,847 DHHS-NIH-National Cancer Institute

## Awards of \$200,000 - \$999,999

Active awards in 2007

\* Indicates new in 2007

### Admiraal, David

### Civil Engineering

Low-Cost Energy Dissipation at Culvert Exits  
\$201,856 Nebraska Dept. of Roads

### Alexander, Dennis

### Electrical Engineering

Ultrafast Laser Interaction Processes  
for Libs & Other Sensing Technologies  
\$600,000 University of Central Florida

### Alfano, James

### Plant Science Initiative/Plant Pathology

Secretion Signals & Type III Chaperones in  
Pseudomonas Syringae Type III Secretion System  
\$430,000 NSF

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

### Allen, Craig

### School of Natural Resources

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

Cross-Scale Structure & Scale Breaks in Complex Systems  
\$248,986 James S. McDonnell Foundation

### Allen, David

### Engineering Mechanics

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

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

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

### Anderson, Mark

### Geosciences

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

### Asard, Han

### Biochemistry

Physiological Functions & Biochemical  
Properties of Plant Cytochromes b561  
\$386,084 NSF

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

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

\$403,219

NSF

Moriyama, Etsuko

Plant Science Initiative

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

Homology & Cohomology over Commutative Rings

\$356,322

NSF

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

ATX1, Epigenetic Regulator of Plant Development

\$442,500

NSF

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

Simple for Dead-Continuous for Live Load System  
with Partial Pre-Fabricated Deck System

\$242,038

Nebraska Dept. of Roads

Development of Design Tools for Steel Bridge Systems,  
Simple for Dead Loads & Continuous for  
Superimposed Dead Load & Live Loads

\$226,306

Nebraska Dept. of Roads

Steel Box System Monitoring of N-2 over I-480 Bridge

\$292,244

Nebraska Dept. of Roads

IBRC 2002 Project

\$240,000

Nebraska Dept. of Roads

\* Folded Plate Technology: Research, Design & Monitoring

\$445,000

Nebraska Dept. of Roads

\* Development of Field Data for Effective Implementation of  
Mechanistic-Empirical Pavement Design Procedure

\$315,252

Nebraska Dept. of Roads

Negahban, Mehrdad

Engineering Mechanics

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

Developing Winter Wheat with Improved Fusarium Head Blight  
Tolerance by Conventional and Transgenic Approaches

\$306,981

Dept. of Agriculture-ARS

Mitra, Amit

Plant Pathology

Watkins, John

Plant Pathology

Clemente, Thomas

Agronomy and Horticulture

Baltensperger, David

Panhandle Research and Extension Center

Genetic Basis of Agronomic Traits

Controlled by Chromosome 3A in Wheat

\$390,000

Dept. of Agriculture-NRICGP

Eskridge, Kent

Statistics

Dweikat, Ismail

Agronomy and Horticulture

\* Developing Small Grains Cultivars

Optimally Suited for Organic Production

\$755,937

Dept. of Agriculture-NRICGP

Flores, Rolando

Food Science and Technology

Wegulo, Stephen

Plant Pathology

Russell, William

Agronomy and Horticulture

Shapiro, Charles

Agronomy and Horticulture

Schlegel, Vicki

Food Science and Technology

Wehling, Randy

Food Science and Technology

Knezevic, Stevan

Northeast Research and Extension Center

Hein, Gary

Panhandle Research and Extension Center

Lyon, Drew

Panhandle Research and Extension Center

**Balkir, Sina****Electrical Engineering**

All Solid-State Wireless Sensor Network for  
Nuclear Proliferation Detection

\$417,191

Dept. of Energy

Hoffman, Michael

Electrical Engineering

**Barker, Bradley****Center on Children, Youth, Families  
and Schools/4-H State Office**

Robotics & GPS/GIS in 4-H: Workplace Skills for the 21st Century

\$864,139

NSF

Adamchuk, Viacheslav

Center on Children, Youth, Families  
and Schools/Biological Systems Engineering

**Basolo, Alexandra****Biological Sciences**

Behavioral Plasticity in Preexisting Receiver Bias

\$372,000

NSF

Effects of Sexual Selection & Predation on a  
Genetic Polymorphism for Body Size

\$519,721

NSF

**Batelaan, Herman****Physics and Astronomy**

Matter Optics with Intense Laser Light

\$462,590

NSF

**Becker, Donald****Biochemistry**

MRI: Acquisition of Beckman XL-I Analytical Ultracentrifuge

\$284,160

NSF

- Belli, Robert** **Gallup Research Center**  
 Verbal Behaviors in Computerized Lifecourse Surveys  
 \$414,430 DHHS-National Institute on Aging
- Benson, Andrew** **Food Science and Technology**  
 Functional Consequences of Genome  
 Evolution in Listeria Monocytogenes  
 \$261,515 Dept. of Agriculture-NRICGP
- Berkowitz, David** **Chemistry**  
 New Approaches to Catalyst Screening & Development  
 \$423,000 NSF
- Beukelman, David** **Special Education and  
 Communication Disorders**  
 Rehabilitation Engineering Research  
 Center on Communication Enhancement  
 \$534,990 Duke University Medical Center
- Bevins, Rick** **Psychology**  
 Acquired Appetitive Properties of Nicotine  
 \$884,792 DHHS-NIH-NIDA
- Bilder, Christopher** **Statistics**  
 \* Disease Detection and Prevalence Estimation  
 through Informative Group Testing  
 \$722,666 DHHS-NIH-NIAID
- Billesbach, David** **Biological Systems Engineering**  
 Development & Field Testing of a Rapidly Deployable  
 Carbon Dioxide Flux Management System  
 \$517,045 Dept. of Energy-Berkeley National Lab
- Blum, Paul** **Biological Sciences**  
 Gene Silencing & Catabolite Repression in the  
 Archaeon Sulfolobus Solfataricus  
 \$413,380 NSF
- Bobaru, Florin** **Engineering Mechanics**  
 Adaptivity in Peridynamics for Composite Plates  
 \$203,965 Dept. of Energy-Sandia National Laboratories
- Bond, Alan** **Biological Sciences**  
 Mechanisms of Social Cognition  
 \$540,260 DHHS-NIH-NIMH  
 Kamil, Alan Biological Sciences
- Virtual Ecology: Experimental Tests of  
 Evolution in Predator-Prey Systems  
 \$461,000 NSF  
 Kamil, Alan Biological Sciences

**Brand, Jennifer** **Center for Materials and Nanoscience**

\$347,826 Boron Carbide Semiconductor Films  
Dept. of Energy-Battelle

Novel Rare-Earth Semiconductors for  
Solid-State Neutron Detectors

\$450,000 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

**Bulling, Denise** **Public Policy Center**

Hospital Preparedness – Bioterrorism

\$257,500 Nebraska Dept. of Health and Human Services

\* Critical Incidence Stress Management Program Coordination

\$222,120 Nebraska Dept. 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 Dept. of Agriculture-RMA

Ramamurthy, Byrav Computer Science and Engineering

**Burson, Dennis** **Animal Science**

Listeria Monocytogenes Controls in Ready to Eat Meat Products

\$599,732 Dept. of Agriculture-CSREES

Thippareddi, Harshavardhan Food Science and Technology

**Cady, Daniel** **Cooperative Extension**

Nebraska Technology Transfer Center at UNL

\$430,860 Nebraska Dept. of Roads

Development of Tools for Rating Bridges  
& Application to State Bridges

\$893,418 Nebraska Dept. of Roads

Azizinamini, Atorod Civil Engineering

**Cantrell, Randolph** **Center for Applied Rural Innovation**

Relocation to the Buffalo Commons: Marketing Approach to  
Understand Residential Decisions among Migrants

\$220,387 Dept. of Agriculture-NRICGP

Burkhart-Kriesel, Cheryl Panhandle Research

Johnson, Bruce and Extension Center

Agricultural Economics

**Carr, Timothy** **Nutrition and Health Sciences**

Method for Enhancing the Cholesterol-Lowering  
Property of Plant Sterol & Stanol Esters

\$500,000 Beef Products Inc.

\* Regulation of Cholesterol Absorption by  
Plant Sterol & Stanol Esters

\$466,915 Dept. 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/Plant Science Initiative**

Histone Modifications & Transcriptional  
Silencing in Chlamydomonas

\$448,235

NSF

RNA-Mediated Silencing: Mechanisms and  
Biological Roles in Chlamydomonas

\$969,539

DHHS-NIH-NIGMS

**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**

From Proplastid to Chloroplast: Understanding Plastid  
Differentiation in Maize by Microarray & Proteome Analysis

\$389,225

Cornell University

Research in Nebraska on Improved  
Soybean Oil for Biodiesel Fuel

\$491,000

Dept. of Energy

Functional Analysis of Soybean Genes  
through Transposon Mutagenesis

\$586,600

United Soybean Board/Smith/Bucklin

Specht, James

Agronomy and Horticulture

\* Enhancing Disease Resistance in Soybean through Biotechnology

\$303,000

North Central Soybean Research Program

Alfano, James

Plant Science Initiative/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 &amp; Engineering

\$500,000

Dept. of Education

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

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

\$800,000

McCurdy, Merilee

Sheridan, Susan

Kunz, Gina

Dept. of Education

Educational Psychology

Educational Psychology

Educational Psychology

**DiMagno, Stephen****Chemistry**

Hydrogen for Fuel Cells

\$966,000

Takacs, James

Berkowitz, David

DOD-Office of Naval Research

Chemistry

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

Bloom, Kenneth

University of Kansas Center for Research

Physics and Astronomy

**Dowben, Peter****Center for Materials and Nanoscience**

Surface Chemistry of Adsorbates on Crystalline Polymers

\$690,000

NSF

**Drijber, Rhae****Agronomy and Horticulture**

\* Developing Technologies to Improve Soil & Nutrient Management  
Dept. of Agriculture-ARS

\$211,000

**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**

Nanostructure-Designed Dielectric Material for  
High-Energy-Density Capacitors

\$586,000

DOD-DEPSCoR

Ferroelectric Polymer Langmuir-Blodgett Films for  
Nonvolatile Random-Access Memory Applications

\$240,000

NSF

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

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**

Fundamentals of Fabrication of  
Nanofiber Assemblies by Electrospinning

\$372,000 NSF

Farritor, Shane Mechanical Engineering

Next Generation Super Carbon Fiber

\$317,127 Hexcel Corporation

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 Dept. of Education

Marvin, Chris Special Education and Communication Disorders

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

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

\$600,000 DOD-Office of Naval Research

A Study of the Mechanochemistry of Carbamazepine Polymorphs

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

**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 Dept. of Education

McGowan, Thomas Teaching, Learning and Teacher Education

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

Leadership Training in Emotional Disturbance Disorders  
\$590,854 Dept. of Education

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

**Fabrikant, Ilya****Physics and Astronomy**

Collision Processes Involving Low-Energy Electrons  
\$215,000 NSF

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

**Faller, Ronald****Civil Engineering**

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

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

**Foley, Brett****Educational Psychology**

Consulting Services/Assist Oklahoma Commission  
for Teacher Preparation  
\$452,064 Oklahoma Office of Public Affairs

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

**Franco, Juan****Vice Chancellor for Student Affairs**

NU Directions: Program to Reduce High-Risk Drinking  
\$468,000 Robert Wood Johnson Foundation  
Major, Linda Student Affairs

**Gardner, Scott****University of Nebraska State Museum/  
Biological Sciences**

\* Mongolia Vertebrate Parasite Project  
\$619,991 NSF

\* Enabling Access to Priority Taxa for Biodiversity Studies  
in the Manter Laboratory of Parasitology  
\$484,647 NSF  
Jimenez-Ruiz, Francisco University of Nebraska State Museum

**Gay, Timothy** **Physics and Astronomy**

\* Polarized Electron and Photon Physics

\$370,000

NSF

**Gibson, Robert** **Biological Sciences**

GAANN

Fellowship for Ecology, Evolution & Behavior at UNL

\$625,000

Dept. of Education

**Gitelson, Anatoly** **School of Natural Resources**

Land Cover Land Use Change Effects on Surface

Water Quality: Integrated MODIS & SeaWiFS Assessment  
of Dnieper & Don River Basins

\$597,799

NASA

**Glover, Todd** **Center on Children, Youth, Families and Schools**

Establish a State-Wide Response-to-Intervention  
Consortium for Training & Evaluation

\$309,500

Nebraska Dept. of Education

Daly, Edward

Center on Children, Youth, Families  
and Schools/Educational Psychology

McCurdy, Merilee

Center on Children, Youth, Families  
and Schools/Educational Psychology

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

\* CRI: IAD: Towards Cyber-Physical Computing at Scale: A Life-Size  
Experimental Facility for Applied Sensor Networks Research

\$200,000

NSF

Ci, Song

Computer and Electronics Engineering

Peng, Dongming

Computer and Electronics Engineering

Sharif-Kashani, Hamid

Computer and Electronics Engineering

Perez, Lance

Electrical Engineering

**Goedert, James** **Construction Systems**

Rebuilding New Orleans

\$293,660

Dept. of Housing and Urban Development

Bernstein, Stuart

Construction Systems

Holmes, William

Construction Systems

Morcous, George

Construction Systems

Schwer, Avery

Construction Systems

**Goodman, Richard** **Food Science and Technology**

Assessing the Potential Allergenicity of  
Proteins Introduced by Genetic Engineering

\$450,000

Environmental Protection Agency

Chen, LingYun

Food Science and Technology

Schlegel, Vicki

Food Science and Technology

Taylor, Stephen

Food Science and Technology

**Gosselin, David** **School of Natural Resources**

Earth Science Institute for Elementary Educators

\$356,094

NASA

Bonnstetter, Ronald

Teaching, Learning and Teacher Education

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

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

**Hage, David** **Chemistry**  
Chromatographic Automation of Immunoassays  
\$946,982 DHHS-NIH-NIGMS

\* Chromatographic Studies of Functional Proteomics  
\$763,414 DHHS-NIH-NIDDK

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

**Harris, Steven** **Plant Science Initiative/Plant Pathology**  
Autophagy in Fungal Hyphae: Functional  
Genomic & Mechanical Strength Studies  
\$308,035 University of Maryland-Baltimore

**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 Plant Science Initiative

\* 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**  
\* 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 Ext**  
North Central Region Sustainable Agriculture  
Professional Development Program—FY 2005  
\$910,283 Dept. of Agriculture-CSREES

**Hayes, Michael** **School of Natural Resources**  
\* Transitioning the Drought Impact  
Reporter into an Operational System  
\$310,137 Dept. of Commerce-NOAA-NCTP

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

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

**Hergert, Gary** **Panhandle Research and Extension Center**  
 Enhancing Irrigation Management Tools & Developing  
 a Decision Support System for Managing Limited  
 Irrigation Supplies for the High Plains  
 \$885,093 Dept. of Agriculture-RMA-FCIC  
 Burgener, Paul Panhandle Research and Extension Center  
 Lyon, Drew Panhandle Research and Extension Center  
 Martin, Derrel Biological Systems Engineering  
 Pavlista, Alexander Panhandle Research and Extension Center  
 Supalla, Raymond Agricultural Economics  
 Urrea Florez, Carlos Panhandle Research and Extension Center  
 Yonts, C. Dean Panhandle Research and Extension Center

Demonstrate & Adapt Remote Sensing Technology to Produce  
 Consumptive Water Use Maps for the Nebraska Panhandle  
 \$239,951 Dept. of Agriculture-NRCS  
 Baltensperger, David Panhandle Research and Extension Center  
 Berger, Aaron Panhandle Research and Extension Center  
 DeBoer, Karen Panhandle Research and Extension Center  
 Hla, Aung Panhandle Research and Extension Center  
 Lyon, Drew Panhandle Research and Extension Center  
 Pavlista, Alexander Panhandle Research and Extension Center  
 Yonts, C. Dean Panhandle Research and Extension Center

**Heusel, Gary** **Student Involvement**  
 Midwest Consortium for Service-Learning in Higher Education  
 \$939,806 Corporation for National Service

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

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

**Holz, John** **School of Natural Resources**  
 \* Fremont Lake #20 Alum Treatment Evaluation Project  
 \$201,700 Nebraska Dept. of Environmental Quality  
 Barrow, Tadd School of Natural Resources  
 Hoagland, Kyle School of Natural Resources  
 Holz, Aris School of Natural Resources

**Hu, Qi (Steve) School of Natural Resources**

Engaging Agricultural Communities in Great Plains of US with  
Applications & Development of Climate Prediction & Information  
\$436,424 Dept. of Commerce-NOAA

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

\$293,732 Dept. of Commerce-NOAA  
Hubbard, Kenneth School of Natural Resources  
Lynne, Gary Agricultural Economics  
Pytlik Zillig, Lisa Educational Psychology  
Bruning, Roger Educational Psychology

**Hunt, Robert University of Nebraska State Museum**

Renovation & Computerization of University of Nebraska  
Vertebrate Paleontology Collection  
\$498,368 NSF  
Voorhies, Michael University of Nebraska State Museum

**Hudgins, Jerry Electrical Engineering**

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

**Hutkins, Robert Food Science and Technology**

Food Safety: Life-Long Learning through Teacher Training  
\$400,000 Dept. of Agriculture-NRICGP  
Durso, Lisa Food Science and Technology  
Rupnow, John Food Science and Technology  
Thippareddi, Harshavardhan Food Science and Technology  
Whipple, Georgianna Food Science and Technology

**Hygstrom, Scott School of Natural Resources**

Development of Spatially Explicit Models of Wildlife Diseases  
\$450,930 Dept. of Agriculture-APHIS

**Ianno, Natale Electrical Engineering**

Nano-Material Science  
\$531,500 NSF-EPSCoR  
Turner, Joseph Engineering Mechanics

**Irmak, Suat Biological Systems Engineering**

\* Measurement of Growing Season Actual Crop Evapotranspiration  
and Crop Coefficients, and Dormant Season Evaporative Losses  
for Key Vegetation Surfaces in the Central Platte Natural  
Resources District  
\$492,564 Central Platte NRD  
Irmak, Ayse Biological Systems Engineering  
Martin, Derrel Biological Systems Engineering  
van Donk, Simon Biological Systems Engineering  
Verma, Shashi School of Natural Resources

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

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



- Jiang, Hong** **Computer Science and Engineering**  
 SAM^2 Toolkit: Scalable & Adaptive Metadata  
 Management for High-End Computing  
 \$602,326 NSF  
 Wang, Jun Computer Science and Engineering
- Jones, Clinton** **Veterinary and Biomedical Sciences**  
 Functional Analysis of biCPO  
 \$349,500 Dept. of Agriculture-NRICGP  
 Zhang, Yange Veterinary and Biomedical Sciences
- Functional Analysis of Proteins Encoded by the Bovine  
 Herpesvirus 1 Latency Related Gene  
 \$374,475 Dept. of Agriculture-CSREES
- \* Does HSV-1 Latency Associated Transcript (LAT)  
 Encode a Protein?  
 \$405,625 DHHS-NIH-NIAID
- Jones, Elizabeth** **Civil Engineering**  
 ITS Resource, Research & Educational  
 Activities at Peter Kiewit Institute  
 \$921,414 Nebraska Dept. of Roads
- Jones, Erick** **Industrial and Management  
 Systems Engineering**  
 Center for Engineering Logistics and Distribution at UNL  
 \$256,000 NSF
- Jose, H. Douglas** **Agricultural Economics**  
 Trade Adjustment Assistance Program  
 \$705,000 Dept. of Agriculture-RMA
- Josiah, Scott** **Nebraska State Forest Service**  
 Community Enhancement Program  
 \$350,000 Nebraska Dept. of Roads
- NRCS-Technical Service Provider Project  
 \$403,694 Dept. of Agriculture-NRCS
- Hazardous Fuels Reduction: Pine Ridge Adjacent Landowners 2007  
 \$250,000 Dept. of Agriculture-FS
- Kelling, Clayton** **Veterinary and Biomedical Sciences**  
 Role of Nonstructural Proteins in Pestivirus Virion Assembly  
 \$289,116 DHHS-NIH-NIAID
- Kennedy, Patricia** **Marketing**  
 Socially Constituted Food Consumption of Adolescents  
 \$350,000 Dept. of Agriculture-CSREES  
 McGarvey, Mary Economics  
 Stanek-Krogstrand, Kaye Nutrition and Health Sciences
- Keown, Jeff** **Animal Science**  
 Trilateral Curriculum Modification &  
 Rural Community Information Delivery  
 \$209,157 Dept. of Education-FIPSE

**Kim, Yong Rak****Civil Engineering**

Material Selection & Design Consideration for  
Moisture Damage of Asphalt Pavement

\$225,527

Nebraska Dept. of Roads

Azizinamini, Atorod

Civil Engineering

\* Asphalt Research Consortium

\$350,000

Texas A &amp; M Research Foundation

Allen, David

Engineering Mechanics

\* Layer Moduli of Nebraska Pavements for the New Mechanistic-  
Empirical Pavement Design Guide (MEPDG)

\$226,106

Nebraska Dept. of Roads

**Knutson, Cody****School of Natural Resources**

\* Development of a Drought Decision Support Portal for the  
Republican River Basin of Colorado, Nebraska & Kansas

\$223,524

Dept. 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

\$400,000

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

\$594,226

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

\$416,000

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

\$203,353

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

Development of Interactive Simulation Environments  
for Inquiry Astronomy Teaching

\$336,572

NSF

Schmidt, Edward

Physics and Astronomy

**Leslie-Pelecky, Diandra****Physics and Astronomy**

Magnetic Properties of Disordered Rare-Earth Nanostructures

\$420,000

NSF

Shield, Jeff

Mechanical Engineering

Magnetic Cluster States in Nanostructured Materials

\$450,000

Dept. of Energy-EPSCoR

**Lindquist, John****Agronomy and Horticulture**

Contribution of Fusarium lateritium to Weed  
Suppressive Soils & Weed Abundance

\$366,186

Dept. of Agriculture-NRICGP

Drijber, Rhae

Agronomy and Horticulture

Yuen, Gary

Plant Pathology

**Liou, Sy-Hwang****Physics and Astronomy**

Nanometer-Size Magnetic Devices

\$236,000

DOD-DEPSCoR

**Liu, Mingsheng****Architectural Engineering**

CC at Mutual of Omaha - Phase III

\$210,319

Omaha Public Power District

**Lodi, Kathleen****4-H State Office**

\* Health Rocks-Healthy Life Curricula Development

\$250,700

National 4-H Council

Birstihl, Elizabeth

Cooperative Extension

Fox, Marilyn

Southeast Research and Extension Center

**Louda, Svata****Biological Sciences**

Single vs. Multiple Insect Herbivore Guild  
Interactions in Canada Thistle Dynamics

\$408,760

Dept. of Agriculture-NRICGP

Insect Herbivore Guild Interactions &  
Tall Thistle Population Dynamics

\$369,999

NSF

**Lu, Yongfeng****Electrical Engineering**

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

Magnetic Confinement of Plasmas in Laser-Induced Breakdown  
Spectroscopy for Improved Sensitivity & Accuracy  
\$249,306 Dept. of Energy

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

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

\* Wavelength-Tunable Laser for Resonant Energy  
Coupling in Multi-Energy Processing  
\$223,566 DOD-Office of Naval Research-DURIP

**Mackenzie, Sally****Plant Science Initiative**

Machinery of Mitochondrial Recombination in Higher Plants  
\$494,080 NSF  
Christensen, Alan Biological Sciences

Nuclear-Organellar Interactions  
Involving AtMSH1 in Arabidopsis  
\$500,000 Dept. of Energy

Strategy for the Transgenic Induction of  
Cytoplasmic Male Sterility in Crop Plants  
\$466,608 Dept. of Agriculture-BRDC

Training Graduate Students in Plant Breeding using  
Crop Drought Tolerance Improvement as a Model  
\$599,999 Dept. of Agriculture-NRICGP  
Fromm, Michael Plant Science Initiative

**Mamo, Martha****Agronomy and Horticulture**

Pollution & Economic Decision Support Tool for Impaired  
Watershed Management Plans in Eastern Nebraska  
\$335,000 Dept. 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)  
 \$468,667 Dept. of Interior-BR
- Food & Agricultural Sciences National Needs  
 Graduate Fellowship Grants Program  
 \$276,000 Dept. of Agriculture-CSREES
- McNulty, Lawrence** **Educational Administration**  
 \* Eurasia/South Asia TEA Program 2007  
 \$379,187 International Research and Exchanges
- McQuillan, Julia** **Sociology**  
 Infertility: Pathways & Psychosocial Outcomes  
 \$426,907 Pennsylvania State University
- Meagher, Michael** **Chemical and Biomolecular Engineering**  
 Optimization of Phytase Production in Pichia Pastoris  
 \$372,874 Syngenta  
 Inan, Mehmet Chemical and Biomolecular Engineering
- Melvin, Steven** **West Central Research and Extension Center**  
 \* Irrigation Management with Limited Water:  
 A Farm Education Program  
 \$287,080 Dept. of Interior-BR  
 Martin, Derrel Biological Systems Engineering  
 Corr, Alan West Central Research and Extension Center  
 van Donk, Simon West Central Research and Extension Center
- Miller, Nancy** **Textiles, Clothing and Design**  
 Collaborative Research on Small Business Network  
 Creation and Outcomes for Change and Innovation  
 \$230,011 NSF
- Mitra, Amit** **Plant Pathology**  
 Efficient Gene Silencing by Intrinsic Direct  
 Repeats: Mechanism & Utilization  
 \$390,000 NSF
- \* Functional Map of Tomato Genome using  
 Direct Repeat Induced Gene Silencing  
 \$301,000 Dept. of Agriculture-NRICGP
- Moriyama, Etsuko** **Plant Science Initiative/Biological Sciences**  
 \* Efficient and Sensitive Mining System for  
 G-Protein Coupled Receptors  
 \$591,300 DHHS-NIH-NLM
- \* Large-Scale Simultaneous Multiple  
 Alignment & Phylogeny Estimation  
 \$223,215 NSF
- Morris, T. Jack** **Biological Sciences**  
 The Role of a Host Protein (TIP) in the Resistance  
 Response of Arabidopsis to Turnip Crinkle Virus Infection  
 \$360,000 Dept. of Energy  
 Qu, Feng Biological Sciences

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

Influence of Enterotoxins on Virulence and  
Colonization of Porcine Intestine by E.coli

\$270,000

Dept. of Agriculture-NRICGP

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

\*Effects of a Supplementary Vocabulary Intervention for  
Students with Limited English Proficiency

\$694,884

Dept. of Education

**Nickerson, H. Doak** **Nebraska State Forest Service**

Restoring the Pine Ridge Forest Ecosystem

\$300,000

Nebraska Environmental Trust

**Noureddini, Hossein** **Chemical and Biomolecular Engineering**

Reduction of Phosphorus from Ethanol  
By-Product used as Livestock Feed

\$210,781

Nebraska Corn Board

**Oglesby, Robert** **Geosciences**

Evaluating the Role of Global Snow Cover on Seasonal to  
Interannual Predictability of Temperature & Precipitation

\$598,216

NASA

**Orti, Guillermo** **Biological Sciences**

RCN: DeepFin Will Advance the Phylogeny of "Fishes"

\$500,000

NSF

\*Assembling the Euteleost Tree of Life - Addressing the  
Major Unresolved Problem in Vertebrate Phylogeny

\$602,956

NSF

Li, Chenhong

Biological Sciences

Diamond, Judy

University of Nebraska State Museum

**Pattnaik, Asit** **Veterinary and Biomedical Sciences**

Analyses of Virulence & Attenuation

Determinants of PRRSV using Reverse Genetics

\$320,000

Dept. of Agriculture-NRICGP

Osorio, Fernando

Veterinary and Biomedical Sciences

VSV RNA Transcription and Replication

\$996,128

DHHS-NIH-NIAID

**Perez, Lance** **Electrical Engineering**

Self-Configuration & Localization in

Ad Hoc Wireless Sensor Networks

\$548,807

DOD-DEPSCoR

Goddard, Stephen

Computer Science and Engineering

\* GAANN in Engineering & Assistive Technology

\$383,643

Dept. of Education

Adams, Stephanie

Industrial and Management

Systems Engineering

Henze, Gregor

Architectural Engineering

Goddard, Stephen

Computer Science and Engineering

- Pilson, Diana** **Biological Sciences**  
 Transgenic Virus Resistant Squash: Ecological Effect  
 \$314,877 Dept. of Agriculture-CSREES  
 Morris, T. Jack Biological Sciences
- Platt, Stephen** **Mechanical Engineering**  
 In Vivo Robotic Camera System for Laparoscopic Surgery  
 \$389,358 DHHS-NIH-NIBIB  
 Farritor, Shane Mechanical Engineering
- Pope, Kevin** **School of Natural Resources**  
 Recruitment of Walleye and White Bass in Irrigation Reservoirs  
 \$397,628 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**  
 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  
 Yu, Zuyuan Industrial and Management Systems Engineering
- \*Modeling and Analysis of Material Removal and  
 Tool Wear in Micro Ultrasonic Machining  
 \$247,760 NSF
- Ramamurthy, Byrav** **Computer Science and Engineering**  
 Secure Group Communication over Wired & Wireless Networks  
 \$349,990 NSF  
 Variyam, Vinod Computer Science and Engineering
- 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**

Investigating the Use of Small Diameter  
Softwood as Guardrail Posts

\$280,000

Dept. of Agriculture-FS

Faller, Ronald

Civil Engineering

Midwest States Regional Pooled Fund Program

\$545,000

Nebraska Dept. of Roads

Sicking, Dean

Midwest Roadside Safety

Rhode, John

Midwest Roadside Safety

Faller, Ron

Midwest Roadside Safety

**Reid, Robert****Special Education and Communication Disorders**

Leadership Training in Attention Deficit Hyperactivity Disorder

\$620,006

Dept. of Education

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

Development of State of the Art Traffic

Micro-Simulation Model for Nebraska

\$222,896

Nebraska Dept. of Roads

Jones, Elizabeth

Civil Engineering

Intelligent Transportation System Deployment Project

\$831,942

Nebraska Dept. of Roads

Jones, Elizabeth

Civil Engineering

Khattak, Aemal

Civil Engineering

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

\* Spintronic Devices Enabled by Semiconducting Boron Carbide

\$299,998

NSF

Adenwalla, Shireen

Center for Materials and Nanoscience

Dowben, Peter

Center for Materials and Nanoscience

**Rothermel, 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

**Rupp, Gary****Veterinary and Biomedical Sciences**

Biosecurity Practices/Wholesome Food

\$249,792

Dept. of Agriculture-CSREES

Griffin, Dee

Veterinary and Biomedical Sciences

Smith, David R

Veterinary and Biomedical Sciences

**Samal, Ashok****Computer Science and Engineering**

Building Knowledge Discovery & Information Fusion

Tools for Collaborative Systems to Adaptively

Manage Uncertain Hydrological Resources

\$601,816

NSF

Chen, Xun-Hong

School of Natural Resources

Soh, Leen-Kiat

Computer Science and Engineering

Tomkins, Alan

Public Policy Center

Zellmer, Sandra

College of Law



**Saraf, Ravi** **Chemical and Biomolecular Engineering**

Nanodevice for Imaging Normal Stress Distribution with  
Application in Sensing Texture and Feel by Touching

\$332,156

NSF

**Scalora, Mario** **Psychology**

\* Threat Assessment

\$509,111

Bulling, Denise

ManTech International Corporation

Public Policy Center

**Schacht, Walter** **Agronomy and Horticulture**

Grasslands Ecological Monitoring System

\$608,880

Dept. of Agriculture-RMA-FCIC

**Scheel, Joan** **Food Science and Technology**

Development, Coordination & Delivery of Information on Food  
Defense to Small & Medium Food Manufacturers

\$291,123

Dept. of Commerce-NIST

**Scheffler, Marilyn** **Special Education and  
Communication Disorders**

Project PROMOTE

\$797,184

Sanger, Dixie

Special Education and Communication Disorders

Dept. of Education

Project Support: Speech-Language

Pathologists Supporting Literacy Instruction

\$800,000

Sanger, Dixie

Special Education and Communication Disorders

Dept. of Education

Project Re-entry: Preparing Speech-Language

Pathologists to Serve Students with Traumatic Brain Injury

\$800,000

Hux, Karen

Special Education and Communication Disorders

Dept. of Education

**Sellmyer, David** **Physics and Astronomy/Center  
for Materials and Nanoscience**

\* Studies of Artificially Structured Composite Magnets

\$381,000

Dept. of Energy

\* Materials Research Science & Engineering Center:

Quantum and Spin Phenomena in Nanomagnetic Structures

\$200,000

Belashchenko, Kirill

Tsymbol, Evgeny

NanoElectronics Research Corporation

Physics and Astronomy

Physics and Astronomy

**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      Dept. of Agriculture-CSREES  
Baltensperger, David      Panhandle Research and Extension Center  
Brandle, James      School of Natural Resources  
Francis, Charles      Agronomy/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      Dept. of Agriculture-CSREES  
Burbach, Mark      School of Natural Resources  
Lynne, Gary      Agricultural Economics  
Martin, Alexander      Agronomy and Horticulture  
Milner, Maribeth      Agronomy and Horticulture

**Sheridan, Susan**      **Educational Psychology**

Leadership Training in Interdisciplinary Collaboration

\$800,000      Dept. of Education

**Shield, Jeffrey**      **Mechanical Engineering**

The Effect of Long-Range Dumbbell Ordering on the Properties &  
Microstructures of Rare Earth Permanent Magnets

\$340,000      NSF

**Sicking, Dean**      **Civil Engineering**

Identification of Vehicular Impact Conditions  
Associated with Serious Ran-Off-Road Crashes

\$634,521      National Cooperative Highway Research Program  
Khattak, Aemal      Civil Engineering  
Jones, Elizabeth      Civil Engineering

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      Dept. of Agriculture-CSREES

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

\$220,000      Pioneer Hi-Bred

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

Role of Hyaluronan in Prostate Cancer Progression

\$326,250      DOD-Army Medical Research

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

**Smith, David R.** **Veterinary and Biomedical Sciences**  
 Intervention Strategies to Reduce  
 Escherichia Coli O157:H7 in Beef Feedyards  
 \$500,000 Dept. of Agriculture-NRICGP  
 Erickson, Galen Animal Science  
 Hinkley, Susanne Veterinary and Biomedical Sciences  
 Klopfenstein, Terry Animal Science  
 Moxley, Rodney Veterinary and Biomedical Sciences

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

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

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

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

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

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

**Spalding, Roy**

\* Effectiveness of Irrigated Crop Management Practices in Reducing Groundwater Nitrate Contamination

\$630,768

Ferguson, Richard

Marx, David

Spalding, Mary

**Agronomy and Horticulture**

Dept. of Agriculture-CSREES

Agronomy and Horticulture

Statistics

School of Natural Resources

**Spaulding, William**

\* Decision Science in Rehabilitation

\$877,652

Garbin, Calvin

**Psychology**

DHHS-NIH-NIMH

Psychology

**Specht, James**

Genetic Mapping & Application of SNP DNA Markers in Soybean

\$329,391

**Agronomy and Horticulture**

Dept. of Agriculture-ARS

**Spreitzer, Robert**

Role of the Rubisco Small Subunit

\$871,500

**Biochemistry**

Dept. of Energy

Rubisco Phylogenetic Engineering

\$202,383

Dept. of Agriculture-NRICGP

**Srisa-an, Witawas**

Building Scalable & Adaptive Garbage Collector for Server Systems

\$281,000

Elbaum, Sebastian

**Computer Science and Engineering**

NSF

Computer Science and Engineering

\* CSR-PDOS: Memory Efficient Garbage Collection

Framework for Java Server Applications

\$ 300,000

NSF

**Starace, Anthony**

Strong Field & Ultrafast Atomic and Molecular Processes

\$250,000

**Physics and Astronomy**

NSF

**Steadman, James**

Bean/Cowpea Collaborative Research Support Program

\$427,468

**Plant Pathology**

Michigan State University

Resistance Improvement of Bean thru Multi-Site

Screening & Pathogen Characterization

\$204,650

Dept. of Agriculture-ARS

**Steffen, David**

Johne's Disease Testing

\$208,000

**Veterinary and Biomedical Sciences**

Nebraska Dept. of Agriculture

**Stentz, Terry****Construction Management**

Human Factors in Railway Operation  
 Dept. of Transportation-FRA  
 \$301,250  
 Jones, Elizabeth Civil Engineering  
 Rilett, Laurence Civil Engineering  
 Khattak, Aemal Civil Engineering  
 Riley, Michael Industrial and Management Systems Engineering  
 Jones, Erick Industrial and Management Systems Engineering

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

**Stockton, Matthew****West Central Research and Extension Center**

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

**Stone, Julie****Plant Science Initiative/Biochemistry**

Role of Transcriptional Regulator in  
 Programmed Cell Death & Plant Development  
 \$354,000 Dept. of Energy

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

Test of Adaptive Divergence across Altitudinal  
 Gradients: Population Genomics of Deer Mice  
 \$492,000 NSF

**Stowell, Richard****Biological Systems Engineering**

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

**Stubbendieck, James****Great Plains Studies**

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

**Subramanian, Anu****Chemical and Biomolecular Engineering**

Prep Zirconia Aggregates/Adsorbents in Bioseparations  
 \$270,131 NSF

\* Biomimetic Nanofibrillar Scaffolds for Tissue Engineering  
 \$394,370 DHHS-NIH-NIBIB  
 Larsen, Gustavo Chemical and Biomolecular Engineering

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

US CMS Tier 2 Center

\$761,000

University of California-Los Angeles

Bloom, Kenneth

Physics and Astronomy

Dominguez, Aaron

Physics and Astronomy

MRI: Acquisition of Affordable Shared-Memory

Computing &amp; Scalable Storage for Scientists &amp; Engineers

\$300,000

NSF

\* US CMS Operations at the LHC

\$508,000

University of California-Los Angeles

Bloom, Kenneth

Physics and Astronomy

Dominguez, Aaron

Physics and Astronomy

**Tadros, Maher****Civil Engineering**

Class C Fly Ash in Concrete Pavement

\$321,379

Nebraska Dept. of Roads

\* Evaluation &amp; 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 Dept. of Roads

Morcous, George

Construction Systems

**Takacs, James****Chemistry**

Novel Cyclization Reactions for Organic Synthesis

\$422,500

NSF

**Taylor, Steve****Food Science and Technology**

Food Allergen Database

\$617,846

Various Industries

Goodman, Richard

Food Science and Technology

Midwest Advanced Food Manufacturing Alliance

\$462,110

Dept. of Agriculture-CSREES

Allergenicity Evaluation of Isinglass

\$555,035

Various Industries

**Thippareddi, Harshavardhan** **Food Science and Technology**

Understanding and Controlling Listeria Monocytogenes  
Transmission through Ready-to-Eat Meat Products  
\$222,270 Colorado State University

HACCP Assistance for Small & Very Small Processors with  
Development & Validation of Safe Meat Chilling Processes  
\$599,916 Dept. 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 Dept. 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

**Tiller, Dale** **Architectural Engineering**

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

**Torquati, Julia** **Child, Youth and Family Studies**

Evaluation of Promising Models and Delivery  
Approaches to Child Care Provider Training  
\$484,658 Iowa State University  
Wilcox, Brian Center on Children, Families and the Law  
Raikes, Helen Center on Children, Families and the Law

**Trainin, Guy** **Teaching, Learning and Teacher Education**

Arts Linc  
\$261,674 Lake Elsinore USD

**Tsybal, Evgeny** **Physics and Astronomy**

Multiscale Modeling of Magnetic Nanocontacts  
\$200,751 Seagate Technology

**Tyler, Kimberly** **Sociology**

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

**Uiterwaal, Kees** **Physics and Astronomy**

Inside a Focused Laser Beam: Molecular Dynamics  
\$447,001 NSF

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

Ion Acceleration with High Intensity Lasers  
\$401,277 NSF

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

- Van Etten, James** **Plant Pathology**  
Center for Innovation in Membrane Protein Production  
\$524,676 Univ of California-San Francisco  
Dunigan, David Plant Pathology
- Variyam, Vinod** **Computer Science and Engineering**  
Studies in Computational Complexity Theory  
\$200,000 NSF
- Vasa, Stanley** **Special Education and Communication Disorders**  
Project NETS: Nebraska Educational Transition Specialists  
\$798,624 Dept. of Education  
Scheffler, Marilyn Special Education and Communication Disorders
- Verma, Shashi** **School of Natural Resources**  
Carbon Sequestration and Global Climate Change  
\$941,161 Dept. of Energy-EPSCoR  
Knops, Johannes Biological Sciences  
Cassman, Kenneth Agronomy and Horticulture
- Viljoen, Hendrik** **Chemical and Biomolecular Engineering**  
Vortex-Tube Based Thermocycler w/Intelligent Software  
\$705,752 DHHS-NIH-Nat Ctr Rsch Resources  
Gogos, George Mechanical Engineering
- Wagner, William** **Biological Sciences**  
Communication of Direct Mating Benefits to Females  
\$307,283 NSF
- Waldren, Vernon** **Southeast Research and Extension Center**  
HUD Omaha Lead Site  
\$300,000 Dept. of Housing and Urban Development
- Walstad, William** **Economics**  
Interactive Teaching in Undergraduate Economic Courses  
\$674,928 NSF
- Weeks, Donald** **Biochemistry**  
Development of Herbicide-Resistant Plants for Environmentally-Safe Production Energy & Biomass Crops  
\$232,000 Consortium for Plant Biotechnology Research
- Weisz, Victoria** **Center on Children, Families and the Law**  
Nebraska State Court Improvement  
\$276,002 Supreme Court of Nebraska
- Weldon, Robert** **Biological Sciences**  
Intracellular Targeting of HIV Gag Proteins  
\$393,825 DHHS-NIH-NIAID



|   |                                       |
|---|---------------------------------------|
| <b>Weller, Curtis</b>   | <b>Biological Systems Engineering</b> |
| Purification Process Influences on Structural & Nutritional Function of Grain Sorghum                             |                                       |
| \$338,000   | Dept. 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        |
| <b>Whitbeck, Les</b>  | <b>Sociology</b>                      |
| Shonga Ska: Sacred Horse Society Drug Prevention Program  |                                       |
| \$433,944   | DHHS-NIH-Nat Inst Drug Abuse          |
| <b>White, Brett</b>   | <b>Animal Science</b>                 |
| Transcriptional Regulation/Porcine GnRH Receptor Gene   |                                       |
| \$287,193   | Dept. of Agriculture-CSREES           |
| <b>Wiegand, Roger</b>   | <b>Mathematics</b>                    |
| GAANN Fellowship Program: Mathematics at UNL  |                                       |
| \$635,375   | Dept. of Education                    |
| Pitts, David  | Mathematics                           |
| Walker, Judy  | Mathematics                           |
| Walker, Mark  | Mathematics                           |
| Bellows, Laurie   | Graduate Studies                      |
| <b>Wiener, Richard</b>  | <b>Psychology</b>                     |
| REU Site: Psychology and Law  |                                       |
| \$269,280   | NSF                                   |
| Jury Bias in Criminal Cases: Sexual Assault, Homicide and Generic Prejudice                                       |                                       |
| \$233,883   | NSF                                   |
| * Self-referencing, Social Identity & Judgments of Sexual Harassment  |                                       |
| \$302,364   | NSF                                   |
| <b>Wilhite, Donald</b>  | <b>School of Natural Resources</b>    |
| Drought Monitoring, Planning & Mitigation   |                                       |
| \$495,371   | Dept. of Agriculture-CSREES           |
| Mitigation & Preparedness Technologies for the US   |                                       |
| \$589,996   | Dept. of Agriculture-CSREES           |
| Estimating the Impacts of Complex Climatic Events: Drought in Colorado, Nebraska & New Mexico                     |                                       |
| \$300,000   | Dept. of Commerce-NOAA                |
| * Developing a Drought Preparedness Framework for Tribal Governments: Moving from Crisis to Risk-Based Management |                                       |
| \$609,539   | Dept. of Interior-BIA                 |

**Wilson, Brent** **Mechanical Engineering**

Development of Improved Product Performance  
through Optimization & Modeling of  
Engineering Materials Processing & Function

\$588,028

Turner, Joseph

Brenco/Amsted Industries  
Engineering Mechanics

**Wilson Jr., Robert** **Panhandle Research and Extension Center**

Assessing the Long Term Viability of Roundup Ready  
Technology as a Foundation for Cropping Systems

\$880,000

Monsanto Co.

**Woldt, Wayne** **Biological Systems Engineering**

Advancing Onsite Wastewater Treatment in Nebraska

\$259,742

Skipton, Sharon

Nebraska Dept. of Environmental Quality  
Southeast Research and Extension Center

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

AIDS and Cancer Specimen Bank

\$383,601

George Washington University

\* Research and Training on HIV/AIDS  
Neuropathogenesis in Zambia

\$273,363

DHHS-NIH-NIMH

\* Vaccination against Mucosal HIV Clade C Transmission

\$251,710

Dana-Farber Cancer Institute

**Woodward, Gordon** **Mathematics**

Increasing Participation in Computer Science, Engineering, &  
Mathematics through NSF Scholarships at UNL

\$400,000

Ballard, John

Ramamurthy, Byrav

Goddard, Steve

Lee, Kevin

NSF  
Engineering  
Computer Science and Engineering  
Computer Science and Engineering  
Arts & Sciences

Nebraska REU in Applied Mathematics

\$251,823

Rebarber, Richard

NSF  
Mathematics

**Wortmann, Charles** **Agronomy/Horticulture**

Integrated Approach to Reduced Risk of Phosphorus  
Pollution of Surface Waters in Crop-Livestock Based  
Managed Ecosystems of the Midwest

\$235,839

Erickson, Galen

Schulte, Dennis

Franti, Tom

Jose, H. Douglas

Nebraska Corn Board  
Animal Science  
Biological Systems Engineering  
Biological Systems Engineering  
Agricultural Economics

**Yang, Yiqi** **Textiles, Clothing and Design**

Resistance of Sulfur Dyed Fabrics to Oxidative  
Bleaching & Acidic Tendering: Improvement & Application

\$300,618

Procter & Gamble

- Yoder, Ronald** **Biological Systems Engineering**  
Nebraska AgrAbility  
\$800,000 Dept. of Agriculture-CSREES  
Baquet, Alan Agricultural Economics
- Yohe, John** **IANR-Intl 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 Dept. of Agriculture-NRICGP
- Epigenetic Effects of Biotin on Activation of  
Endogenous Viral Sequences  
\$395,601 DHHS-NIH-NIEHS
- Zeng, Xiao Cheng** **Chemistry**  
Crystallization and Interfacial Properties of Silicon  
\$235,000 Dept. of Energy
- ITR: Multiscale Treatment of Systems with Strong Heterogeneities  
\$715,121 NSF  
Diestler, Dennis Agronomy and Horticulture  
Feng, Ruqiang Engineering Mechanics
- Zera, Anthony** **Biological Sciences**  
Enzymatic and Molecular Bases of Trade-Offs in  
Lipid Metabolism that Underlie Life History Trade-Off  
\$429,682 NSF  
Harshman, Lawrence Biological Sciences
- Physiological & Molecular Causes of Genetic  
Variation/Covariation in Endocrine Regulation  
\$372,000 NSF
- Zhang, Luwen** **Center for Virology**  
Interferon Regulatory Factor 7 and NPC  
\$393,855 DHHS-NIH-NIAID
- Zlotnik, Vitaly** **Geosciences**  
Mechanisms Producing Variation in Lake Salinity in  
Dune Environments: Nebraska Sand Hills  
\$219,958 NSF  
Fritz, Sherilyn Geosciences  
Swinehart, James School of Natural Resources

## Career and K Awards

Active awards in 2007

\* Indicates new in 2007

### NSF CAREER Grants

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



#### **Adams, Stephanie**

Industrial and Management Systems Engineering  
Designing Effective Teams in the Engineering  
Classroom for the Enhancement of Learning  
\$643,418 NSF



#### **Binek, Christian**

Physics and Astronomy  
Education & Research on Nanoscale Spintronic  
Systems & Heterostructures  
\$500,000 NSF



#### **Bloom, Kenneth**

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



#### **Choueiry, Berthe**

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



#### **Dominguez, Aaron**

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



#### **Elbaum, Sebastian**

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



#### **Frank, Tracy**

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



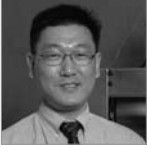
**Gursoy, Mustafa**

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



**Hebets, Eileen**

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



**Kim, Yong Rak**

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



**Wang, Lily**

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



**Xu, Lisong**

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

## K Awards

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



**Angeletti, Peter**

Biological Sciences

Maintenance of Human Papilloma Virus Genes

\$613,512

DHHS-NIH-NCI



**DiLillo, David**

Psychology

Family Functioning of Adults Maltreated as Children

\$670,826

DHHS-NIH-NIMH



**Sayood, Khalid**

Electrical Engineering

Identification of Biological Materials of Unknown Origin

\$764,005

DHHS-NIH-NIAID



**Tyler, Kimberly**

Sociology

Neglect and Abuse Histories Among Homeless Young Adults

\$659,525

DHHS-NIH-NIMH

## Arts and Humanities Awards \$50,000 or more

Active awards in 2007

\* Indicates new in 2007

### Cahan, David

### History

A Biography of Hermann von Helmholtz

\$102,868

NSF

1/1/05 - 12/31/07



David Cahan, Charles Bessey professor and professor of history, is writing a full-scale, definitive biography of Hermann von Helmholtz (1821-1894), one of the major figures of modern science. The biography will provide a fresh account of Helmholtz's personal life within the context of his family, schooling and friends, and portray and analyze his working life as a scientist—principally as a physiologist and physicist, but also as a leader in other fields (chemistry, mathematics, psychology and meteorology), all within the context of German science. It will show how he represented the aims, results and image of science to the educated but otherwise non-scientific classes of Europe and America. It also will show the implications of contemporary science that he drew for the fine arts, medicine, industry and society at large. The extensive use of correspondence means the work will be the first new modern biography of Helmholtz as well as one of the most detailed biographies of a scientist ever published.

### Kooser, Ted

### English

American Life in Poetry Project

\$125,000

Poetry Foundation

1/1/05 - 12/31/07



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

**Price, Kenneth**

**English**

\$500,000  
8/1/05 - 3/31/09

Walt Whitman Archive  
National Endowment for the Humanities



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

**Walter, Katherine**

**Libraries**

\$169,651  
11/1/05 - 4/30/08  
Price, Kenneth  
Bolin, Mary  
Barney, Brett

Interoperability of Metadata Standards for  
Digital Thematic Research Collections  
Institute of Museum and Library Services

English  
Libraries  
Libraries



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



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

\$222,177

National Endowment for the Humanities

9/1/03–8/31/07

Walter is using a National Endowment for the Humanities grant to create an on-line edition of the Journals of the Lewis and Clark Expedition, edited by Gary E. Moulton, UNL professor emeritus of history. The interdisciplinary team is drawn from the UNL Libraries, the University of Nebraska Press, and the Center for Great Plains Studies. The site will also feature supplementary texts relating to Euro-American and Native perspectives on the Lewis and Clark expedition, images, and audio files of poet William Kloefkorn reading selected passages. Online searchability will make the Web site a useful resource for scholars and the general public.

\* National Digital Newspaper Program: Nebraska

\$271,016

National Endowment for the Humanities

Wunder, John

Journalism and Mass Communications

Mering, Margaret

Center for Digital Research in the Humanities

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 2007

\* Indicates new in 2007

### **Bleed, Peter**

\*Archaeological Investigation of the Battle of El Viso, July 1, 1898  
\$30,220 National Geographic Society

### **Anthropology and Geography**

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

\$47,500 ArtsReach  
Nebraskans for the Arts

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

\$23,250 Umo<sup>ho</sup> Cultural Arts Program  
Kennedy Center for Performing Arts

### **Handa, Rumiko**

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

### **Architecture**

### **Hanson, Marin**

\$21,274 \*International Quilt Study Center New Building Opening Exhibition  
Ducey, Carolyn Cooper Foundation  
International Quilt Study Center

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

### **Jewell, Andrew**

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

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

### **Price, Kenneth**

\$14,000 \*Walt Whitman Archive  
Cooper Foundation

### **English**

### **Randolph, Ladette**

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

### **University Press**

### **Walter, Katherine**

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

### **University Libraries**

\$20,000 Homestead — Broken Bow Microfilming Project (CESU)  
Edwards, Rick Dept. of Interior-NPS  
Economics

### **Weiss, Wendy**

\$5,535 Hillestad Textiles Gallery  
Friends of the Hillestad Textiles Gallery

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

# PATENTS ISSUED IN 2007

Recognition for faculty who received patents

UNL faculty indicated in **red**

## **Terry J. Klopfenstein**

Animal Science

Title: Ruminant Feed and Method of Making

Date: November 28, 2007

No. 840554 (European)

Country: Ireland

## **Yiqi Yang**

Textiles, Clothing and Design

Title: Sulfur Dye Protection Systems and Compositions and Methods Employing Same

Date: October 8, 2007

No. 210789

Country: India

Adnan Hadzialic; **Stephen Robert Platt**; Dmitry Oleynikov; **Shane Farritor**

Mechanical Engineering

Title: Robot for Surgical Applications

Date: April 3, 2007

No. 7,199,545

Country: United States

## **Dean Sicking**; Keith Kurz; **Ronald Faller**

Civil Engineering; Midwest Roadside Safety Program

Title: Traffic Noise Barrier System

Date: May 22, 2007

No. 7,220,077

Country: United States

## **Sally Mackenzie**; Zarir Vaghchhipawala

Plant Pathology

Title: Soybean FGAM Synthase Promoters Useful in Parasite Control

Date: May 29, 2007

No. 7,223,901

Country: United States

## **Stephen M. Goddard**

Computer Science and Engineering

Title: Fault Tolerant Firewall Sandwiches

Date: August 7, 2007

No. 7,254,834

Country: United States

# 2007 INTELLECTUAL PROPERTY LICENSES

Recognition for faculty who licensed intellectual property

UNL faculty indicated in **red**

Licensee: Perennial Plant Products, Inc. (dba Blooms of Bressingham of North America)

Descriptions: *Chrysanthemum*: 95003a, 94019, Orange Spider, Big Purple, Blush, Sunsatation, 80108, 81126, 84112

*Clematis* groundcover

*Dianthus*: Roshish One, Prairie Pink, Sweetheart, 24025, Pixie, Hearts Desire

*Penstemon*: Prairie Star, Prairie Flame, Prairie Twilight, Lady Husker, Norma

*Schizachrium*: scoparium 1, scoparium 2

Veronica

Inventors: **Dale Lindgren; Daniel Schaaf**

Department: West Central Research and Extension Center

Licensee: Neogen Corporation

Description: Immunoassay technology for use in detection of allergens in food

Inventors: **Stephen L. Taylor; Susan Hefle**

Department: Food Science and Technology

*Dr. Hefle died in August of 2006.*

Licensee: Sharp Bros. Seed Co.

Description: Goldmine variety of big bluestem

Inventor: **Terrance P. Riordan**

Department: Agronomy and Horticulture

Licensee: Nebraska Surgical Solutions, Inc.

Descriptions: In vivo robot

Method and robotic device for drug delivery

A display for surgical visualization

Imaging robot

Inventors: **Shane Farritor; Dmitry Oleynikov**

Department: Mechanical Engineering

Licensee: Channel Bio Corp.

Description: Roundup-ready soybean varieties with increased tolerance to glyphosate

Inventor: **George Graef**

Department: Agronomy and Horticulture

Licensees: University of North Dakota, University of New Orleans, Purdue University

Description: CALMIT Data Acquisition Program (CDAP), software for the collection of spectral data using dual field ratiometers

Inventors: **Bryan Leavitt; Donald Rundquist**

Department: Conservation and Survey Division

Licensee: The Grain Place, Inc.

Description: Yellow hilum, high protein soybeans

Inventor: **George Graef**

Department: Agronomy and Horticulture

Licensee: CYRO Industries

Description: Crashworthy protection system for roadside sound barriers (PARAGLAS Barrier)

Inventor: **Ron Faller**

Department: Midwest Roadside Safety Program

Licensee: Terra Nova Nurseries

Description: *Penstemon*: Dark Towers

Inventor: **Dale Lindgren**

Department: West Central Research and Extension Center

Licensee: Chrysantis, Inc.

Description: New gene that intensifies purple plant color in pearl millet

Inventor: **David Andrews**

Department: Agronomy and Horticulture

Licensee: South Dakota Crop Improvement

Description: Husker Genetics Brand Overland NE01643 (wheat)

Inventor: **Stephen Baenziger**

Department: Agronomy and Horticulture

Licensee: Sementes Adriana

Description: Pearl millet parent lines NM, hybrids, and other germplasms to include any seeds that are increased or directly produced using NM, NPM, NE or NFPM lines

Inventor: **David Andrews**

Department: Agronomy and Horticulture

# START UP COMPANIES IN 2007

Recognition for faculty who started companies

UNL faculty indicated in **red**

**Shane Farritor**; Dmitry Oleynikov

Mechanical Engineering

Company: Nebraska Surgical Solutions, Inc.

Start Date: April 20, 2007

**Hendrick Viljoen**; Joel TerMaat

Chemical and Biomolecular Engineering

Company: Philisa Technology Corporation

Start Date: August 13, 2007

## CREATIVE WORKS IN FINE AND PERFORMING ARTS

Faculty who created, performed or produced creative works  
in fine and performing arts, nationally or internationally

UNL faculty indicated in **red**

**John R. Bailey**  
**Mark Clinton**

**School of Music**  
**School of Music**

*Theodor Blumer Woodwind Music, Vol. 3.* Camas, Wash.: Crystal Records, 2007.

**Diane C. Barger**  
**Mark Clinton**  
**Susan Levine**

**School of Music**  
**School of Music**  
**School of Music**

Soloists, performance, *Into the Monster's Lair*, clarinet with piano and dancer. International Clarinet Association's ClarinetFest, Vancouver, Canada.

**Anthony J. Bushard**

**School of Music**

Creative exhibition, *Waging the Peace: Bernard Herrmann and The Day the Earth Stood Still*, lecture in musicology. College Music Society National Meeting, Salt Lake City, Utah.

**Dana Fritz**

**Art and Art History**

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

Artist, exhibit, *Power of Nature: Dana Fritz & Hee Sook Kim*, photography. Yavapai College Art Gallery, Prescott, Arizona.

**Michael F. James**

**Textiles, Clothing and Design**

Artist, exhibit, *Interference Effect: Betrayed Lover's Knot #2*, fabric construction quilt. Touring exhibition co-sponsored by Craft in America Inc., and Curatorial Assistance Traveling exhibitions (CATE) and complementing the PBS production *Craft in America* that aired nationally in May 2007.

Artist, exhibit, *Flights of Fantasy*, multiple works, fabric constructions and quilts. Museum of Art, Seoul, South Korea. Invitational exhibit organized by the U.S. State Department's Art-in-Embassies Program, the U.S. Embassy, Seoul, and Seoul National University.

Artist, exhibit, solo exhibition. Galerie Jonas, Petit-Cortailod, Neuchâtel, Switzerland.

**Gail M. Kendall**

**Art and Art History**

Artist, exhibit, *32nd Pottery Exhibition*. Art School at Old Church, Demarest, New Jersey.

Artist, exhibit, *The Akal Exchange*, ceramics exhibition & workshop. Amiz-Amiz Tagine Workshop, Marrakech, Morocco.

Artist, exhibit, ceramics invitation. Red Lodge Ceramic Center, Red Lodge, Montana.

Artist, exhibit, *St. Croix Pottery Tour*. Mayeron Cowles Studio, Shaffer, Minnesota.

Artist, exhibit, earthenware invitation. The Clay Studio, Philadelphia, Pennsylvania.

**Karen S. Kunc****Art and Art History**

Artist, exhibit, solo exhibition, prints. Gallery Piano Nobile, Krakow, Poland.

Artist, exhibit, *Lyrical Legacy*, prints & artist's books. Leedy-Voukos Art Center, Kansas City, Missouri.

Artist, exhibit, solo exhibition, prints. Huntington Museum of Art, Huntington, West Virginia.

**Barbara Trout****Textiles, Clothing and Design**

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

**Wendy R. Weiss****Textiles, Clothing and Design**

Artist, exhibit, *Polka Dot Clouds*, textile art. 2007 International exhibition of Natural Dye for I, Daegu Culture and Arts Center, Korea and Ulsan Culture and Arts Center, Korea.

Artist, exhibit, *Striped Trees*, textile art. 2007 International exhibition of Natural Dye for I, Daegu Culture and Arts Center, Korea and Ulsan Culture and Arts Center, Korea.

**Sandra Williams****Art and Art History**

Artist, exhibit, *The History of Zero*, solo exhibition, mixed media. The Arts Center in Orange, Orange, Virginia.



# BOOKS

Recognition for faculty who have written books  
UNL faculty indicated in **red**

## **Marco Abel**

**English**

Abel, M. (2007). *Violent affect: Literature, cinema, and critique after representation*. Lincoln, NE: University of Nebraska Press.

## **Jonis Agee**

**English**

Agee, J. (2007). *The river wife*. New York: Random House.

## **Bruce J. Avolio**

**Management**

Luthans, F., Youssef, C.M., & Avolio, B.J. (2007). *Psychological capital: Developing the human competitive edge*. Oxford, UK: Oxford University Press.

## **Grace Bauer**

**English**

Bauer, G. (2007). *Retreats & recognitions*. Sandpoint, ID: Lost Horse Press.

## **Donald F. Becker**

**Biochemistry**

Banerjee, R., Becker, D.F., Gladyshev, V.N., Ragsdale, S.W., & Dickman, M. (Eds.). (2007). *Redox biochemistry*. Hoboken, NJ: John Wiley & Sons.

## **Susan Belasco**

**English**

Belasco, S., & Johnson, L. (2007). *The Bedford anthology of American literature*. New York: Bedford/St. Martins.

Belasco, S., Price, K.M., & Folsom, E. (Eds.). (2007). *Leaves of Grass: The sesquicentennial essays*. Lincoln, NE: University of Nebraska Press.

## **David Beukelman**

**Special Education and  
Communication Disorders**

Beukelman, D., Yorkston, K., & Garrett, K. (Eds.). (2007). *Augmentative communication strategies for adults with acute or chronic medical conditions*. Baltimore, MD: Paul H. Brooks Publishing Co.

## **Brian H. Bornstein**

**Psychology**

Wiener, R. L., Bornstein, B. H., Schopp, R. F., & Willborn, S. L. (Eds.). (2007). *Social consciousness in legal decision making: Psychological perspectives*. New York: Springer.

## **Kathy R. Bosch**

**Extension; Child, Youth and Family Studies**

Purcell, S.E., Nelson, M.E., Hanna, J.S., DeFrain, J., Krumback, E.M., Schroeder, D.E., Warner, M.K., & Bosch, K.R. (2007). *Fun to play, ready to learn activity guide*. Lincoln, NE: UNL Communications & Information Technology.

## **James Bovaird**

**Educational Psychology**

Bovaird, J., Little, T.D., & Card, N.A. (2007). *Modeling contextual effects in longitudinal studies*. Mahwah, NJ: Erlbaum.

**Amy N. Burnett****History**

Savory, P.A., Burnett, A.N., & Goodburn, A.M. (2007). *Inquiry into the college classroom: A journey toward scholarly teaching*. Boston: Jossey-Bass (Anker Series).

**Enrique Martinez Celaya****Art and Art History**

Celaya, E.M. (2007). *Early work*. Lincoln, NE: University of Nebraska Press.

**Frankie M. Condon****English**

Condon, F.M., Geller, A.E., Eodice, M., & Carroll, M. (2007). *The everyday writing center: A community of practice*. Logan, UT: Utah State University Press.

**Sidnie White Crawford****Classics and Religious Studies**

Crawford, S.W. (Ed.). (2007). *Up to the Gates of Ekron: Essays on the archaeology and history of the Eastern Mediterranean in honor of Seymour Gitin*. Jerusalem, Israel: Israel Exploration Society.

**John Creswell****Educational Psychology**

Creswell, J. (2007). *Projecto de pesquisa*. Sao Paulo, Brazil: Artmed Editora.

Creswell, J., & Plano Clark, V. (2007). *Designing and conducting mixed methods research*. Thousand Oaks, CA: Sage.

**T. Newell Decker****Special Education and Communication Disorders**

Ackley, R.S., Decker, T.N., & Limb, C.J. (Eds.). (2007). *Essential guide to hearing and balance disorders*. Mahwah, NJ: Lawrence Erlbaum Publishers.

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

DeFrain, J., Olson, D.H., & Skogrand, L. (2007). *Marriages and families: Intimacy, diversity, and strengths* (6th ed.). New York: McGraw-Hill Higher Education.

DeFrain, J., Skogrand L., DeFrain, N., & Jones, J. E. (2007). *Surviving and transcending a traumatic childhood: The dark thread*. London: Haworth Press/Taylor & Francis.

DeFrain, J., & Asay, S.M. (Eds.). (2007). *Strong families around the world: Strengths-based research and perspectives*. Binghamton, NY: Hawthorn Press.

DeFrain, J., Lodl, K.A., & Ulrich, L. (2007). *Family treasures: Creating strong families*. Lincoln, NE: iUniverse Publishers.

Purcell, S.E., Nelson, M.E., Hanna, J.S., DeFrain, J., Krumbach, E.M., Schroeder, D.E., Warner, M.K., & Bosch, K.R. (2007). *Fun to play, ready to learn activity guide*. Lincoln, NE: UNL Communications & Information Technology.

**Yasar Demirel****Chemical and Biomolecular Engineering**

Demirel, Y. (2007). *Nonequilibrium thermodynamics transport and rate processes in physical, chemical and biological systems*. Amsterdam: Elsevier.

**Martin Despang** **Architecture**

Despang, M., & Burt, J. (Eds.). (2007). *New supermarket design*. New York: Collins Design.

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

Digman, L.A. (2007). *Strategic management: Cases for the global information age* (8th ed.). Mason, OH: Thomson Brooks/Cole.

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

Dixon, W.W. (2007). *Film talk: Directors at work*. New Brunswick, NJ: Rutgers University Press.

**Beth Doll** **Educational Psychology**

Doll, B., & Cummings, J.A. (2007). *Transforming school mental health services*. Thousand Oaks, CA: Corwin Press.

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

Driskell, J. (Ed.). (2007). *Sports nutrition: Fats and proteins*. Boca Raton, FL: CRC Press, Taylor & Francis Group.

**David P. Forsythe** **Political Science**

Forsythe, D.P., & Rieffer-Flanagan, B.A.J. (2007). *The International Committee of the Red Cross: A neutral humanitarian actor*. New York: Routledge.

**Chris W. Gallagher** **English**

Gallagher, C.W. (2007). *Reclaiming assessment: A better alternative to the accountability agenda*. Portsmouth, NH: Heinemann.

**James Alex Garza** **History; Ethnic Studies**

Garza, J.A. (2007). *The imagined underworld: Sex, crime and vice in Porfirian Mexico City*. Lincoln, NE: University of Nebraska Press.

**Norman Geske** **Art and Art History**

Geske, N. (2007). *Beyond madness: The art of Ralph Blakelock*. Lincoln, NE: University of Nebraska Press.

**Joan R. Giesecke** **Libraries**

Giesecke, J.R., Hernon, P., & Alire, C.A. (2007). *Academic librarians as emotionally intelligent leaders*. Westport, CT: Libraries Unlimited.

**Vadim N. Gladyshev** **Biochemistry**

Banerjee, R., Becker, D.F., Gladyshev, V.N., Ragsdale, S.W., & Dickman, M. (Eds.). (2007). *Redox biochemistry*. Hoboken, NJ: John Wiley & Sons.

**Amy M. Goodburn** **English**

Savory, P.A., Burnett, A.N., & Goodburn, A.M. (2007). *Inquiry into the college classroom: A journey toward scholarly teaching*. Boston: Jossey-Bass (Anker Series).

**Andrew R. Graybill** **History**

Graybill, A.R. (2007). *Policing the Great Plains: Rangers, mounties, and the North American frontier, 1875-1910*. Lincoln, NE: University of Nebraska Press.

**Janet S. Hanna**      **Extension; Child, Youth and Family Studies**

Purcell, S.E., Nelson, M.E., Hanna, J.S., DeFrain, J., Krumback, E.M., Schroeder, D.E., Warner, M.K., & Bosch, K.R. (2007). *Fun to play, ready to learn activity guide*. Lincoln, NE: UNL Communications & Information Technology.

**Glenn J. Hoffman**      **Biological Systems Engineering**

Martin, D.L., Hoffman, G.J., Evans, R.G., & Jensen, M.E. (Eds.). (2007). *Design and operation of farm irrigation systems* (2nd ed.). St. Joseph, MI: American Society of Agricultural and Biological Engineers.

**Srikanth B. Iyengar**      **Mathematics**

Iyengar, S.B., Leuschke, G.J., Leykin, A., Miller, C., Miller, E., Singh, A., & Walther, U. (2007). *Twenty-four hours of local cohomology*. Providence, RI: American Mathematical Society.

**Douglas M. Jackson**      **Architecture**

Jackson, D.M., & Jones, W.C. (2007). *El segundo*. New York: Princeton Architectural Press.

**Evelyn M. Jacobson**      **Modern Languages and Literatures**

Jacobson, M.R., & Jacobson, E.M. (Trans.). (2007). *Max Horkheimer, a life in letters: Selected correspondence*. Lincoln, NE: University of Nebraska Press.

**Manfred R. Jacobson**      **Modern Languages and Literatures;  
Judaic Studies**

Jacobson, M.R., & Jacobson, E.M. (Trans.). (2007). *Max Horkheimer, a life in letters: Selected correspondence*. Lincoln, NE: University of Nebraska Press.

**Paul A. Johnsgard**      **Biological Sciences**

Johnsgard, P.A. (2007). *The Niobrara*. Lincoln, NE: University of Nebraska Press.

**Frances W. Kaye**      **History and Ethnic Studies; English**

Vigil, R.H., Kaye, F.W., & Wunder, J.R. (Eds.). (2007). *Spain and the plains: Myths and realities of Spanish exploration and settlement of the Great Plains*. Boulder, CO: University of Colorado Press.

**Ari Kohen**      **Political Science; Judaic Studies**

Kohen, A. (2007). *In defense of human rights: A non-religious grounding in a pluralistic world*. New York: Routledge.

**Marjorie J. Kolstelnik**      **College of Education and Human Sciences**

Kolstelnik, M.J., Soderman, A.K., & Whiren, A.P. (2007). *Developmentally appropriate curriculum: Best practices in early childhood education*. Upper Saddle River, NJ: Merrill/Prentice Hall.

Kolstelnik, M.J., Onaga, E., Rohde, B., & Whiren, A.P. (2007). *Children with special needs: Lessons for early childhood professionals*. New York: Teachers College Press.

**Ted Kooser**      **English**

Kooser, T. (2007). *The poetry home repair manual: Practical advice for beginning poets*. Lincoln, NE: University of Nebraska Press.

**Eileen M. Krumbach**

**Extension; Child, Youth  
and Family Studies**

Purcell, S.E., Nelson, M.E., Hanna, J.S., DeFrain, J., Krumbach, E.M., Schroeder, D.E., Warner, M.K., & Bosch, K.R. (2007). *Fun to play, ready to learn activity guide*. Lincoln, NE: UNL Communications & Information Technology.

**Carole Levin**

**History**

Levin, C., Robin, D., & Larsen, A. (Eds.). (2007). *Encyclopedia of women in the Renaissance*. Santa Barbara, CA: ABC-CLIO.

**Frederick M. Link**

**English**

Reynolds, G.J., Quirk, T., Link, F.M. (2007). *Alexander's Bridge, Willa Cather scholarly edition*. Lincoln, NE: University of Nebraska Press.

**Kathleen A. Lodi**

**4-H Youth Development**

DeFrain, J., Lodi, K.A., & Ulrich, L. (2007). *Family treasures: Creating strong families*. Lincoln, NE: iUniverse Publishers.

**Fred Luthans**

**Management**

Luthans, F., Youssef, C.M., & Avolio, B.J. (2007). *Psychological capital: Developing the human competitive edge*. Oxford, UK: Oxford University Press.

**Derrel L. Martin**

**Biological Systems Engineering**

Martin, D.L., Hoffman, G.J., Evans, R.G., & Jensen, M.E. (Eds.). (2007). *Design and operation of farm irrigation systems* (2nd ed.). St. Joseph, MI: American Society of Agricultural and Biological Engineers.

**Jennifer McKittrick**

**Philosophy**

McKittrick, J. (Ed.). (2007). *Establishing medical reality*. Berlin: Springer.

**Patrice C. McMahon**

**Political Science**

McMahon, P. (2007). *Taming ethnic hatred: Ethnic cooperation and transnational networks in Eastern Europe*. Syracuse, NY: Syracuse University Press.

**Colleen Medill**

**College of Law**

Medill, C. (2007). *Introduction to employee benefits law: Policy and practice* (2nd ed.). St. Paul, MN: Thomson/West.

**Mary E. Nelson**

**Extension; Child, Youth and Family Studies**

Purcell, S.E., Nelson, M.E., Hanna, J.S., DeFrain, J., Krumbach, E.M., Schroeder, D.E., Warner, M.K., & Bosch, K.R. (2007). *Fun to play, ready to learn activity guide*. Lincoln, NE: UNL Communications & Information Technology.

**David L. Olson**

**Management**

Olson, D.L., Shi, Y., & Stam, A. (Eds.). (2007). *Advances in multiple criteria decision making and human systems management: Knowledge and wisdom*. Amsterdam: IOS Press.

**Vicki Plano Clark**

**Psychology**

Creswell, J., & Plano Clark, V. (2007). *Designing and conducting mixed methods research*. Thousand Oaks, CA: Sage.

**Kenneth M. Price** **English**

Belasco, S., Price K.M., & Folsom, E. (Eds.). (2007). *Leaves of Grass: The sesquicentennial essays*. Lincoln, NE: University of Nebraska Press.

**Sarah E. Purcell** **Extension; Child, Youth and Family Studies**

Purcell, S.E., Nelson, M.E., Hanna, J.S., DeFrain, J., Krumback, E.M., Schroeder, D.E., Warner, M.K., & Bosch, K.R. (2007). *Fun to play, ready to learn activity guide*. Lincoln, NE: UNL Communications & Information Technology.

**Ladette Randolph** **University of Nebraska Press**

Randolph, L., & Shevchuk-Murray, N. (Eds.). (2007). *The big empty*. Lincoln, NE: University of Nebraska Press.

**Hilda Raz** **English**

Raz, H., & Link, A.R. (2007). *What becomes you*. Lincoln, NE: University of Nebraska Press.

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

Reynolds, G.J., Quirk, T., Link, F.M. (2007). *Alexander's Bridge, Willa Cather scholarly edition*. Lincoln, NE: University of Nebraska Press.

Reynolds, G.J. (2007). *Cather studies* (Vol. 7). Lincoln, NE: University of Nebraska Press.

**Paul A. Savory** **Industrial and Management Systems Engineering**

Savory, P.A., Burnett, A.N., & Goodburn, A.M. (2007). *Inquiry into the college classroom: A journey toward scholarly teaching*. Boston: Jossey-Bass (Anker Series).

**Khalid Sayood** **Electrical Engineering**

Sayood, K. (2007). *Learning programming using MATLAB*. New York: Morgan Claypool.

**Robert F. Schopp** **College of Law**

Wiener, R.L., Bornstein, B.H., Schopp, R.F., & Willborn, S.L. (Eds.). (2007). *Social consciousness in legal decision making: Psychological perspectives*. New York: Springer.

**Debra E. Schroeder** **Extension; Child, Youth and Family Studies**

Purcell, S.E., Nelson, M.E., Hanna, J.S., DeFrain, J., Krumback, E.M., Schroeder, D.E., Warner, M.K., & Bosch, K.R. (2007). *Fun to play, ready to learn activity guide*. Lincoln, NE: UNL Communications & Information Technology.

**Susan M. Sheridan** **Educational Psychology**

Sheridan, S.M., & Kratochwill, T. (2007). *Conjoint behavioral consultation: Promoting family-school connections and interventions*. New York: Springer.

Sheridan, S.M., & Erchul, W. (2007). *Handbook of research in school consultation: Empirical foundations for the field*. Mahwah, NJ: Erlbaum.

**Keng Siau****Management**

Siau, K. (Ed.). (2007). *Contemporary issues in database design and information systems development*. Hershey, PA: IGI Global.

Siau, K. (Ed.). (2007). *Research issues in systems analysis and design, databases, and software development*. Hershey, PA: IGI Global.

**William D. Spaulding****Psychology**

Spaulding, W.D., & Poland, J. (2007). *Nebraska symposium on motivation* (Vol. 52). Lincoln, NE: University of Nebraska Press.

**Jordan Stump****Modern Languages and Literatures**

Stump, J., & Queneau, R. (Trans., Eds.). (2007). *Letters, numbers, forms*. Champaign, IL: University of Illinois Press.

Stump, J., & Ricardou, J. (Trans.). (2007). *Place names*. Champaign, IL: Dalkey Archive Press.

**John D. Turner****Classics and Religious Studies**

Turner, J.D. (2007). *Ecrits gnostiques*. La Bibliothèque de Nag Hammadi, Laval, Canada: Gallimard.

**Mary Uhl-Bien****Management**

Uhl-Bien, M., Shamir, B., & Pillai, R. (2007). *Follower-centered perspectives on leadership: A tribute to the memory of James R. Meindl*. Greenwich, CT: Information Age Publishing.

**Linda Ulrich****IANR Communications and Information Technology**

DeFrain, J., Lodl, K.A., & Ulrich, L. (2007). *Family treasures: Creating strong families*. Lincoln, NE: iUniverse Publishers.

**Hendrik van den Berg****Economics**

van den Berg, H., & Lewer, J.J. (2007). *International trade and economic growth*. Armonk, NY: M.E. Sharpe.

**William B. Walstad****Economics**

Walstad, W.B., & Kourilsky, M.L. (2007). *The entrepreneur in youth: An untapped resource for economic growth, social entrepreneurship, and education*. Northampton, MA: Edward Elgar.

Walstad, W.B. (2007). *Study guide for economics*. Burr Ridge, IL: McGraw-Hill.

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

Purcell, S.E., Nelson, M.E., Hanna, J.S., DeFrain, J., Krumbach, E.M., Schroeder, D.E., Warner, M.K., & Bosch, K.R. (2007). *Fun to play, ready to learn activity guide*. Lincoln, NE: UNL Communications & Information Technology.

**Richard L. Wiener****Psychology**

Wiener, R.L., Bornstein, B.H., Schopp, R.F., & Willborn, S.L. (Eds.). (2007). *Social consciousness in legal decision making: Psychological perspectives*. New York: Springer.

**Steven L. Willborn****College of Law**

Wiener, R.L., Bornstein, B.H., Schopp, R.F., & Willborn, S.L. (Eds.). (2007). *Social consciousness in legal decision making: Psychological perspectives*. New York: Springer.

Willborn, S.L., Schwab, S.J., Burton, J.F., & Lester, G.L.L. (2007). *Employment law: Cases and materials* (4th ed.). Charlottesville, VA: LexisNexis.

**David J. Wishart****Anthropology and Geography**

Wishart, D.J. (Ed.). (2007). *Encyclopedia of the Great Plains Indians*. Lincoln, NE: University of Nebraska Press.

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

Hickey, D.R., Wunder, S.A., & Wunder, J.R. (2007). *Nebraska moments*. Lincoln, NE: Nebraska Press.

Vigil, R.H., Kaye, F.W., & Wunder, J.R. (Eds.). (2007). *Spain and the plains: Myths and realities of Spanish exploration and settlement of the Great Plains*. Boulder, CO: University of Colorado Press.

**Susan A. Wunder****Teaching, Learning and Teacher Education**

Hickey, D.R., Wunder, S.A., & Wunder, J.R. (2007). *Nebraska moments*. Lincoln, NE: Nebraska Press.

**Janos Zemleni****Nutrition and Health Sciences**

Zemleni, J., Rucker, R.B., & McCormick, D.B. (Eds.). (2007). *Handbook of vitamins*. Boca Raton, FL: Taylor and Francis.



## 2007 RECOGNITIONS AND HONORS

Faculty who have been elected to honor academics  
or who have received national or international honors  
UNL faculty indicated in **red**

**Myron Braake** **Plant Pathology (Emeritus)**

National Academy of Science membership  
*Dr. Braake died June 15, 2007.*

**Brian Larkins** **Office of Research;  
Agronomy and Horticulture**

National Academy of Science membership

**William Splinter** **Larsen Tractor Test and Power Museum;  
Biological Systems Engineering (Emeritus)**

National Academy of Engineers membership

**James Van Etten** **Plant Pathology**

National Academy of Science membership

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**Sam Allgood** **Economics**

Member, American Economic Committee on Economic Education

**Diane C. Barger** **School of Music**

Buffet Crampon Artist/Clinician, Buffet Crampon USA, Inc.  
Treasurer, International Clarinet Association

**Fred P. Baxendale** **Entomology**

Award for Excellence in Extension, National Association of State  
Universities and Land-Grant Colleges

**Mary M. Beck** **Animal Science**

Fellow Award, Poultry Science Association

**Christopher R. Bilder** **Statistics**

CAUSEweb Resource of the Year Award, Consortium for the  
Advancement of Undergraduate Statistics Education

**Dawn O. Braithwaite** **Communication Studies**

Distinguished Service Award, Western States Communication  
Association  
Second vice president, National Communication Association

**Chris R. Calkins** **Animal Science**

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

**Gwendolyn M. Combs** **Management**

Elected to executive committee, Gender and Diversity in  
Organizations Division, Academy of Management  
Vice president, president elect, Management Faculty of Color  
Association, Inc.

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

Distinguished Publication Award, Association of Women in Psychology

**Mary Jo Deegan** **Sociology**

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

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

Honorary appointment, Conjoint Professor of Family Studies, University of Newcastle, New South Wales, Australia

**Martin Despang** **Architecture**

Social Motion paper presented at the Urban Transport Conference, Coimbra, Portugal

Top nominee, INDEX Award

Second place, *Im Zentrum zu Hause*, Berlin, Germany

Top nominee, NIKE BDA Award

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

2007 Distinguished Paper, Decision Sciences Institute

**Matthew B. Dwyer** **Computer Science & Engineering**

Distinguished Scientist, Association for Computing Machinery

**Calvin L. Ferrell** **Animal Science**

Research Fellow Award, American Society of Animal Science

**James Ford** **English**  
**Ariel Bybee** **School of Music**

International Trophy Grand Prize, Waterford International Festival of Light Opera

**David P. Forsythe** **Political Science**

Human Rights Scholar of the Year, American Political Science Association, Human Rights Section

Senior Fulbright Research Chair, United States and Danish Fulbright Committees

**John E. Foster** **Entomology**

International Plant Protection Award of Distinction 2007, International Association for the Plant Protection Sciences

**Scott M. Fuess, Jr.** **Economics**

Fellowship, Institute for the Study of Labor (IZA) Bonn, Germany

**Russell Ganim** **Modern Languages and Literatures**  
**Thomas Carr** **Modern Languages and Literatures**

Co-organizers, North American Society for Seventeenth Century French Literature Conference

**James A. Garza** **History and Ethnic Studies**

Journal of the West Award for Best Article of the Year, *Journal of the West*

**James A. Gosey** **Animal Science**

Pioneer Award, Beef Improvement Federation

**David S. Hage** **Chemistry**

Top 20 Most Cited Review Articles (2002-2007), *Journal of Chromatography*

**David J. Hansen** **Psychology**

Fellow, American Psychological Association

**Janet A. Harkness** **Gallup Research Center**

Member, German Youth Institute Advisory Taskforce  
Member, Social Behavioral and Economic Sciences Advisory Board,  
National Science Foundation

**Jeff G. Hart** **Extension**

National Award for Diversity 2007, USDA/CSREES/ECOP

**Leon G. Higley** **Entomology**

2007 Foundation Memorial Award, Entomological Society of America

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

Fellow, National Strength and Conditioning Association

**Srikanth B. Iyengar** **Mathematics**

Friedrich Wilhelm Bessel Research Award, Alexander von Humboldt Foundation, Germany

**Margaret D. Jacobs** **History**

Visiting fellowship, Centre for Indigenous Studies, Australian National University

**Michael James** **Textiles, Clothing & Design**

Silver Star Award, Quilts, Inc. and International Quilt Festival

**Paul J. Jasa** **Biological Systems Engineering**

Outstanding Presentation Award, 2007 National No-Tillage Conference

**Jay T. Johnson** **Anthropology and Geography**

Chair, Indigenous Peoples' Knowledges and Rights Commission,  
International Geographical Union

**David D. Jones** **Biological Systems Engineering**

2007 Best Paper Award, Biological and Agricultural Division of the American Society for Engineering Education

**Jeannette E. Jones** **History and Ethnic Studies**

Deutsche Bank Junior Scholar-in-Residence Fellowship, Heidelberg Center for American Studies

**Alan C. Kamil** **Biological Sciences, Psychology**

Quest Award for Research Contributions, Animal Behavior Society

**Gordon V. Karels** **Finance**

Visiting scholar, Federal Reserve Bank of Atlanta

**Karen S. Kunc** **Art and Art History**

2007 Printmaker Emeritus Award, Southern Graphics Council

**Stephen Lahey** **Classics and Religious Studies**

John Nicholas Brown Prize for Best First Book, Medieval Academy of America

**Gail F. Latta** **Libraries**

Bobby Knight Dissertation of the Year Award finalist, Association for the Study of Higher Education

**Sang M. Lee** **Management**

Keynote speaker, International Conference on Strategic Innovation in Bandung, Indonesia  
Distinguished Global Leadership Award, Pan-Pacific Business Association

**Carole Levin** **History**

National Endowment for the Humanities Fellowship, Folger Shakespeare Library

**Donald G. Levis** **Animal Science**

Master of the Pork Industry, *National Hog Farmer* magazine

**Yijia Lin** **Finance**

Ernst Meyer Prize, Geneva Association

**Yongfeng Lu** **Electrical Engineering**

Fellow, Society of Photo-optical Instrumentation Engineers

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

Member, American Association of University Professors Committee on the Economic Status of the Profession

**Allan L. McCutcheon** **Gallup Research Center; Statistics**

Senior statistical director, Exit Polls for the National Election Pool  
Fellow, Royal Statistical Society

**George E. Meyer** **Biological Systems Engineering**

2007 Best Paper Award, Biological and Agricultural Division of the American Society for Engineering Education

**Nancy Miller** **Textiles, Clothing & Design**

Best Paper Award, Journal of Small Business Management and the Office Depot

**Helen A. Moore** **Sociology**

President, Midwest Sociological Society

**Sucheta Nadkarni** **Management**

Outstanding Service Award, Managerial and Organizational Cognition Division of the Academy of Management

**Fiona Nah** **Management**

Extra-Outstanding Associate Editor, International Conference on Information Systems

**Glenn E. Nierman** **School of Music**

Outstanding Service to the National Association for Music Education, Nebraska Music Educators Association

- Andrzej Nowak** **Civil Engineering**  
Award of National Professorship, Leach Kaczynski, President of Poland
- Edward Nowlin** **Marketing**  
Co-winner, American Marketing Association's Sales SIG  
Dissertation Proposal, American Marketing Association
- Alexander D. Pavlista** **Agronomy and Horticulture**  
President, Potato Association of America
- Allan C. Peterson** **Mathematics**  
Euler Prize for Research in Time Scales, Technical University, Munich
- Byrav Ramamurthy** **Computer Science & Engineering**  
Vice chair, Optical Networking Technical Committee, IEEE  
Communications Society
- Brett C. Ratcliffe** **Entomology; Museum**  
Outstanding Paper of the Year Award, Coleopterists Society
- Peter Revez** **Computer Science & Engineering**  
Fulbright Senior U.S. Scholar, Fulbright Foundation, Greece
- Sheila E. Scheideler** **Animal Science**  
Helene Cecil Leadership Award, Poultry Science Association
- Marc Schneiderjans** **Management**  
Fellow, Decision Sciences Institute
- Keng Siau** **Management**  
Keynote speaker, Second AIS SIGSAND European Symposium on  
Systems Analysis and Design, Gdansk, Poland  
Editor in chief, *Journal of Database Management*  
Co-editor-in-chief, *Advances in Database Research Series*  
Outstanding Service Award, International Federation for  
Information Processing
- Dean Sicking** **Civil Engineering;  
Midwest Roadside Safety Facility**  
National Medal of Technology, President George W. Bush
- Robert G. Simon** **Marketing**  
Outstanding Faculty Adviser, International Collegiate American  
Marketing Association
- Ravipreet S. Sohi** **Marketing**  
Track co-chair, American Marketing Association's Winter  
Educators' Conference  
Associate editor, *International Journal of Applied Decision Sciences*
- Robert J. Spreitzer** **Biochemistry**  
Chair, North-Central Regional Project NC-1168, Regulation of  
Photosynthetic Processes, NC-1168 Membership

**Alan E. Steinweis****History**

Finalist, National Jewish Book Award for Studying the Jew, Holocaust Category, Jewish Book Council

**William G. Thomas III****History**

Distinguished Lecturer, Organization of American Historians  
Digital Innovation Fellowship, American Council of Learned Societies

**Harriet S. Turner****International Affairs;  
Modern Languages and Literatures**

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

**Mary Uhl-Bien****Management**

Best Reviewer Award, *Leadership Quarterly*

**L. Dale Van Vleck****Animal Science**

Pioneer Award, National Dairy Shrine

**Lily M. Wang****Architectural Engineering**

Fellowship, Acoustical Society of America

**Clarence E. Waters****Architectural Engineering**

Elected to the Board of Governors, Architectural Engineering Institute

**Les B. Whitbeck****Sociology**

Community, Culture, and Prevention Science Award, Society for Prevention Research

**Brian L. Wilcox****Center on Children, Families  
and the Law; Psychology**

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

**Ronald E. Yoder****Biological Systems Engineering**

President's Citation, American Society for Agricultural and Biological Engineers

**Xiao Cheng Zeng****Chemistry; Physics & Astronomy**

Fellow, American Association for the Advancement of Science

## Glossary of Federal Agency Abbreviations

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

- DHHS Department of Health and Human Services  
 ACF Administration for Children and Families  
 CDC Centers for Disease Control  
 NIH National Institutes of Health  
     Fogarty International Center  
     NCI National Cancer Institute  
     NCRR National Center for Research Resources  
     National Eye Institute  
     NHLBI National Heart, Lung and Blood Institute  
     National Institute on Aging  
     NIAID National Institute on Allergy &  
     Infectious Diseases  
     NICHD National Institute of Child Health and  
     Human Development  
     NIDCD National Institute on Deafness  
     & Communication Disorders  
     NIDDK National Institute of Diabetes,  
     Digestive & Kidney Disease  
     NIDA National Institute on Drug Abuse  
     NIGMS National Institute on General  
     Medical Sciences  
     NIMH National Institute of Mental Health
- HUD Department of Housing and Urban Development
- DoI Department of Interior  
 BR Bureau of Reclamation  
 FWS Fish & Wildlife Service  
 GS Geological Survey  
 NPS National Park Service
- DoT Department of Transportation  
 Federal Highway Administration
- EPA Environmental Protection Agency
- IMLS Institute of Museum & Library Services
- NASA National Aeronautics and Space Administration  
 Ames Research Center  
 Goddard Space Flight Center  
 Jet Propulsion Laboratory  
 John Stennis Space Center  
 Lewis Research Center  
 Wallops Flight Facility
- NCHRP National Cooperative Highway  
 Research Program
- NEA National Endowment for the Arts
- NEH National Endowment for the Humanities
- NSF National Science Foundation  
 EPSCoR Experimental Program to  
 Stimulate Cooperative Research
- NSA National Security Agency