1-1-2006

“Major Sponsored Program and Faculty Awards for Research and Creative Activity for 2005

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I am pleased to present the fourth annual "Major Sponsored Program and Faculty Awards for Research and Creative Activity" report. This booklet highlights the successes of University of Nebraska–Lincoln faculty during 2005. The funding sources, projects and investigators on major sponsored program awards received during the year are listed, as well as patents issued, published books and scholarship, fellowships and other recognitions. New this year are intellectual property licenses and performances and exhibitions in the fine and performing arts. The list is impressive and continues to grow each year—further evidence the University of Nebraska–Lincoln is on the move!

We work to closely integrate our research priorities with our established programs of excellence. We are dedicated to fostering interdisciplinary research and collaborations with public and private partnerships, expanding our economic development efforts by working with business and industry.

This booklet reports only the largest dollar amounts as reported through our Office of Sponsored Programs. However, the majority of our research and creative activity is conducted by single investigators and scholars who are pioneering new frontiers across all fields. Many faculty obtain funding at levels below the significantly high thresholds set for inclusion in this report. This in no way diminishes their scholarly contributions and we are proud of all our faculty.

Thank you for your interest and support of research at UNL. We are on the move!

Prem S. Paul
Vice Chancellor for Research and Dean of Graduate Studies
AWARDS OF $3 MILLION OR MORE
Active awards in 2005
* Indicates new in 2005

Allen, David
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.

Banerjee, Ruma
Redox Biology Center
$10,190,697 DHHS-NIH-NCRR
9/30/02 – 8/31/07

Ruma Banerjee, George Holmes University Professor of Biochemistry in the Institute of Agriculture and Natural Resources, is the director of the Redox Biology Center. The center was established in 2002 with a grant from the National Institutes of Health as a Center of Biomedical Research Excellence. 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.

Epstein, Michael
Center for Behavior and Reading
$4,498,231 Dept. of Education
10/1/01 – 9/30/06

Michael Epstein, William Barkley Professor of special education and communication disorders, and co-investigator Ron Nelson, associate research professor of special education and communication disorders, have established the Center for Behavior and Reading in the Center for At-Risk Children’s Services to focus on implementing and evaluating reading and behavior intervention programs for school-aged children. The aim
of their research is to assess the overall and intervention-specific effects of various programs on school, staff, child and family levels. The project is funded by the U.S. Department of Education and involves seven participating schools in Lincoln’s public school system.

Fromm, Michael  
Center for Biotechnology

A Protein Interaction Database for Rice Protein Kinases

$6,057,747  
9/1/02 – 8/31/06

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.

Goddard, Stephen  
Computer Science and Engineering

* Drought Risk, Impact and Mitigation Information System

$6,407,473  
9/1/05 – 8/31/08

Stephen Goddard, associate professor of computer science and director of UNL’s Laboratory for Advanced Research Computing, is principal investigator in a $6.4 million joint effort by climatologists and computer scientists to bring cutting-edge computer science technologies to agricultural producers’ age-old decision-making processes. The three-year partnership agreements are between the U.S. Department of Agriculture’s Risk Management Agency, UNL’s Department of Computer Science and Engineering and the UNL-based National Drought Mitigation Center. A separate $1 million cooperative agreement, directed by Donald Wilhite, professor in the School of Natural Resources and director of the National Drought Mitigation Center, will support continued work on a tool that uses satellite technology and climate information to detect vegetation stress on the ground for a much more detailed view of drought’s scope and potential impact.
David Harwood, professor of geosciences, leads an international team of scientists drilling beneath the Antarctic ice pack to unearth geological strata that could hold ancient clues to contemporary global warming trends. The National Science Foundation has awarded $12.9 million to a consortium of five U.S. universities headed by UNL and Northern Illinois University. Dubbed ANDRILL, (ANtarctic geological DRILLing), the project is administered by the ANDRILL Science Management Office headquartered at UNL. ANDRILL is backed by more than $30 million in funding, including $9.7 million in previous and ongoing national agreements to support operations and nearly $8 million from the other countries to support scientific research. Other members of the U.S. consortium making up the American portion of the ANDRILL program are Florida State University, Ohio State University and the University of Massachusetts Amherst. The project also includes scientists from Germany, Italy and New Zealand.

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 10 take courses created by math and pedagogy experts. Middle school is a gateway to high school success, and efforts to improve middle school learning, especially in mathematics, show benefits at later stages in students’ academic careers.
Michael Meagher, Donald F. Othmer professor of Chemical and Biomolecular Engineering, is the director of the Biological Process Development Facility. The facility provides clients with process research and early manufacturing of new therapeutic molecules for human clinical testing. The facility is also involved in the development of vaccines against biological warfare agents and products that can be used as therapeutic countermeasures to treat people who have been exposed to biological agents. Department of Defense funding has led to the building of new laboratories that give the Biological Process Development Facility new capabilities in mammalian cell culture process research and development.

**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.

David Sellmyer, George Holmes  
Distinguished professor in the department 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.
Sheridan, Susan  
**Parent Engagement and Learning Birth to Five**  
$5,068,518  
9/26/03 – 9/30/08  
Edwards, Carolyn

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.

Tomkins, Alan  
**Public Policy Center**  
Community-Based & Faith-Based Organization Partners in an Integrated System of Behavioral Health Care in Nebraska  
$3,504,226  
9/30/02 – 3/31/06  
Alan Tomkins, director of the Public Policy Center and professor of psychology and law, is leading a project funded by the U.S. Department of Health and Human Services. The goal is to enhance and expand the capacity of community- and faith-based organizations to provide high-quality services as part of an integrated system of behavioral health care to rural and urban communities. Among the hoped-for outcomes is to address the problem of insufficient resources by tapping into the extensive network of community- and faith-based organizations who offer behavioral health care services. The project will be a model for other states to emulate in coordinating and integrating these groups into an effective delivery system.

Velander, William  
**Chemical and Biomolecular Engineering**  
* cGMP Recombinant FIX and Oral Hemophilia B Therapy  
$9,981,870  
9/6/05 – 8/31/10  
Meagher, Michael  
Van Cott, Kevin

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

$3,044,606 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 – 2/1/07

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 & Remote Ojibwe Families

$3,138,960 DHHS-NIH-NIMH
7/1/02 – 6/30/07
Hayt, Dan Sociology

Ojibwe Pathways Through the High School Years

$3,262,793 DHHS-NIH-NIDA
9/3/05 – 6/30/12
Johnson, Kurt Sociology
Park, Mingue Sociology
Hayt, Dan Sociology

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.
AWARDS OF $3 MILLION OR MORE

Wood, Charles  
* Nebraska Center for Virology  

$10,354,057  
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.

Yohe, John  
IANR-Intl Programs

International Sorghum/Millet Collaborative Research Support Program (INTSORMIL)  
$36,990,000  
7/1/96 – 6/30/06

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.
Awards of $1 Million to $2,999,999
Active awards in 2005
* Indicates new in 2005

Banerjee, Ruma
Biochemistry
Cystathionine Beta Synthase & Hyperhomocysteinemia
$1,177,264 DHHS-NIH-NHLBI
Mechanism of Methylmalonyl-CoA Mutase: A Radical Enzyme
$1,023,449 DHHS-NIH-NIDDK
Regulation of Homocysteine-dependent Redox Homeostasis
$1,531,581 DHHS-NIH-NIDDK

Buckendahl, Chad
Educational Psychology
Evaluation of the National Assessment of Educational Progress
$2,398,258 Dept. of Education
Davis, Susan
Educational Psychology

Caldwell, Robert
School of Natural Resources
Thematic Soil Mapping for Site-Specific Management
$1,025,000 Dept. of Agriculture-IFAFS
Dobermann, Achim
Agronomy and Horticulture
Adamchuk, Viacheslav
Biological Systems Engineering
Ferguson, Richard
Agronomy and Horticulture

Cerutti, Heriberto
Plant Science Initiative
* RNA-Mediated Silencing: Mechanisms and Biological Roles in Chlamydomonas
$1,042,852 DHHS-NIH-NIGMS

Chen, Bing
School of Engineering Technology
* SPIRIT: Silicon Prairie Initiative on Robotics in IT
$1,170,488 NSF

Cotton, Dan
Communications and Information Technology
National E-Extension Project
$2,570,000 National Association of State Universities and Land Grant Colleges

Diamond, Judy
University of Nebraska State Museum
Explore Evolution
$2,851,409 NSF

Doll, Elizabeth
Educational Psychology
* Inspiring 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

$1 MILLION — $2,999,999
Dzenis, Yuris  
**Engineering Mechanics**

NIRT: Manufacturing of Novel Continuous Nanocrystalline Ceramic Nanofibers

$1,095,200  
Zeng, Xiao Cheng  
Feng, Ruqiang  
Turner, Joseph  
Larsen, Gustavo  

Chemistry  
Engineering Mechanics  
Engineering Mechanics  
Chemical and Biomolecular Engineering

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

Mountain-Prairie Upgrade Partnership

$1,155,054  
Engen-Wedin, Nancy  
Feng, Ruqiang  
Turner, Joseph  
Larsen, Gustavo  
Eccarius, Malinda  

Chemistry  
Engineering Mechanics  
Chemical and Biomolecular Engineering

Faller, Ronald  
**Civil Engineering**

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

$1,045,913  
Holloway, Jim  
Reid, John  
Rohde, John  
Sicking, Dean

Civil Engineering  
Mechanical Engineering  
Civil Engineering  
Civil Engineering

Farritor, Shane  
**Mechanical Engineering**

Track Stability Assessment & Data Transmission

$1,190,000  
Arnold, Richard  
Turner, Joseph  
Barton, John  
Jones, Elizabeth  
Khattak, Aemal  
Sharif, Hamid  
Rilett, Laurence

Mechanical Engineering  
Engineering Mechanics  
Mechanical Engineering  
Civil Engineering  
Civil Engineering  
Civil Engineering  
School of Engineering Technology  
Civil Engineering

Fromm, Michael  
**Biotechnology**

Metabolite Signaling Center

$2,635,898

NSF-EPSCoR

Gladyshev, Vadim  
**Biochemistry**

Functions of Mammalian Thioredoxin Reductases

$1,003,492  
Selenoprotein as a Target for Cancer Prevention

DHHS-NIH-NIGMS  
DHHS-NIH-NCI

$1,188,490  
Methionine Sulfoxide Reduction, Selenium and Aging

DHHS-NIH-NIA

$1,256,826
<table>
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<tr>
<th>Name</th>
<th>Department/Program</th>
<th>Title</th>
<th>Amount</th>
<th>Funding Agency/Program</th>
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<tr>
<td><strong>Goddard, Stephen</strong></td>
<td>Computer Science and Engineering</td>
<td>Digital Government: A Decision Support System for Drought Risk Management</td>
<td>$1,031,914</td>
<td>NSF</td>
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<td>Hayes, Michael</td>
<td>School of Natural Resources</td>
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<td>Willhite, Donald</td>
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<td>Waltman, William</td>
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<td><strong>Green, Jordan</strong></td>
<td>Special Education and Communication Disorders</td>
<td>Early Speech Motor Development</td>
<td>$1,804,739</td>
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<td>Wilhite, Donald</td>
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<td><strong>Hoagland, Kyle</strong></td>
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<td>* DNR Ground Water Management and Protection Act Service Agreement</td>
<td>$1,500,000</td>
<td>Nebraska Dept. Natural Resources</td>
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<td><strong>Hubbard, Kenneth</strong></td>
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<td>Services of the NOAA Regional Climate Centers</td>
<td>$1,824,032</td>
<td>Dept. of Commerce-NOAA</td>
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<td><strong>Jones, Vicky</strong></td>
<td>Northeast Research &amp; Extension Center</td>
<td>Northeast Nebraska Paraprofessional Ladder Project</td>
<td>$1,976,000</td>
<td>Dept. of Education</td>
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<td>Lopez, William</td>
<td>Teaching, Learning and Teacher Education</td>
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<td><strong>Jose, H. Douglas</strong></td>
<td>Agricultural Economics</td>
<td>North Central Risk Management Education Center</td>
<td>$2,400,000</td>
<td>Dept. of Agriculture-CSREES</td>
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<td><strong>Josiah, Scott</strong></td>
<td>NE State Forest Service</td>
<td>Cooperative Forestry Program</td>
<td>$1,322,016</td>
<td>Dept. of Agriculture-FS</td>
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<td><strong>Kamil, Alan</strong></td>
<td>Biological Sciences</td>
<td>Landmarks, Bearings and Way-Finding</td>
<td>$1,338,934</td>
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<td>Mechanisms of Visual Search and Attention</td>
<td>$1,029,062</td>
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$1 MILLION — $2,999,999
Koszewski, Wanda  Nutrition and Health Sciences  Building Nebraska Families
$2,226,983  Ne Dept. Health & Human Serv
Birnstihl, Elizabeth  Schnefp, Marilynn  Nutrition and Health Sciences
Nutrition Education Program
$1,240,527  Ne Dept. Health & Human Serv
Birnstihl, Elizabeth  Schnefp, Marilynn  Nutritional and Health Sciences

Lenzen, Stephen  NET
Advanced Learning Environments Research & Technology (ALERT)
$2,618,000  General Services Administration

Leslie-Pelecky, Diandra  Physics and Astronomy
Track 2, GK-12: Project Fulcrum: Phase II
$1,987,732  NSF

Lou, Marjorie  Veterinary and Biomedical Sciences
Protein-Thiol Mixed Disulfide in Cataractogenesis
$1,671,431  DHHS-NIH-Natl 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 Therapeutic Agents & Vaccines against Biological Warfare
$2,155,900  DOD-Army Medical Research
Schlegel, Vicki  Food Science and Technology
Zhang, Wenhui  Chemical and Biomolecular Engineering
Wu, Joey  Chemical and Biomolecular Engineering

Nelson, J. Ron  Special Education and Communication Disorders
Portales a Aprender Leer (PAL)
$2,687,442  Dept. of Education

Parkhurst, Lawrence  Chemistry
Assembly Mechanisms of TBP-Nucleated Complexes
$1,129,090  DHHS-NIH-NIGMS
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<td>Paul, Prem</td>
<td>Vice Chancellor for Research</td>
<td>Establishment of Functional Genomics for Medicinal Chemistry Facility II</td>
<td>$2,000,000</td>
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<td>Ragsdale, Stephen</td>
<td>Biochemistry</td>
<td>Enzymology of Reductive Acetyl-CoA Pathway</td>
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<td>Sheridan, Susan</td>
<td>Center on Children, Youth, Families and Schools</td>
<td>* Evaluation of Efficacy of CBC for Addressing Disruptive Behaviors of Children-at-Risk for Academic Failure</td>
<td>$1,368,067</td>
<td>Dept. of Education</td>
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<td>Simpson, Melanie</td>
<td>Biochemistry</td>
<td>* Role of Hyaluronan Matrix in Prostate Cancer Progression</td>
<td>$1,084,090</td>
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<td>Snow, Greg</td>
<td>Physics and Astronomy</td>
<td>The Cosmic Ray Observatory Project</td>
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<td>Van Etten, James</td>
<td>Plant Pathology</td>
<td>DNA Replication &amp; Gene Expression of Chlorella Viruses</td>
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<td>Verma, Shashi</td>
<td>School of Natural Resources</td>
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<td>$2,214,769</td>
<td>Dept. of Energy/NIGEC</td>
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<td>Walker, Judy</td>
<td>Mathematics</td>
<td>EMSW21-MCTP: Nebraska Mentoring through Critical Transition Points</td>
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<td>Wedin, David</td>
<td>School of Natural Resources</td>
<td>Sand Hills Biocomplexity: Integrating Biogeophysical Processes Across Space and Time</td>
<td>$1,794,730</td>
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Weeks, Donald  Biochemistry
* Development of Dicamba-Resistant Crops
$2,500,000  Monsanto Co.

Whitbeck, Les  Sociology
Great Plains Cultural Ways Mental Health Careers Program
$1,514,284  DHHS-NIH-NIMH
Moore, Helen  Sociology

White, Lynn  Sociology
Infertility: Pathways & Psychosocial Outcomes
$2,559,414  DHHS-NIH-NICHD
McQuillan, Julia  Sociology

Wilcke, William  IANR-Research
North Central Regional Sustainable Agriculture Research & Education Program – SARE
$2,707,719  Dept. of Agriculture-CSREES

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

Wilson, Brent  Mechanical Engineering
Development of Improved Product Performance through Optimization & Modeling of Engineering Materials Processing & Function
$1,351,226  Brenco

Wood, Charles  Biological Sciences
Kaposi’s Sarcoma & Human Herpesvirus in Africa
$2,783,369  DHHS-NIH-Nat Cancer Institute
Programs in HIV & AIDS Assoc Diseases/Malignancies
$1,938,760  DHHS-NIH-Fogarty Intl Center
Evolution of Clade C HIV-1 in Infected Children
$1,586,250  DHHS-NIH-NICHD
Research Training in Comparative Viral Pathogenesis
$1,217,271  DHHS-NIH-NIAID
Vaccination against Intrapartum HIV Clade C Transmission
$959,278  Dana-Farber Cancer Institute

Yamamoto, Catherine  Student Affairs
Talent Search Program
$1,626,225  Dept. of Education
Upward Bound Program–Northeast Nebraska
$1,238,496  Dept. of Education
Student Support Services Program
$1,889,008  Dept. of Education

Yohe, John  IANR-Intl Programs
Post Graduate Training and Collaborative Research to Strengthen INIA of Mozambique
$1,199,985  USAID
Zempleni, Janos  
Nutrition and Health Sciences  
Vitamin-Dependent Modifications of Histones  
$1,014,269  
DHHS-NIH-NIDDK

Zhang, Luwen  
Center for Virology  
* Oncogenic Properties of Interferon Regulatory Factor 7  
$1,145,961  
DHHS-NIH-Nat Cancer Institute
Abdelrahman, Magdy  
Civil Engineering  
Restricted-Zone Requirements for Superpave Mixes  
Made with Local Aggregate Sources in Nebraska  
$269,350  Ne Dept. Roads

Azizinamini, Atorod  
Yakel, Aaron  
Civil Engineering  
Material Selection & Design Consideration for Moisture Damage of Asphalt Pavement  
$225,527  Ne Dept. Roads

Adenwalla, Shireen  
Physics and Astronomy  
Nanoscale Structural Engineering of Ferroelectric Polymers  
$283,641  Dept. of Energy-EPSCoR
Ducharme, Stephen  
Physics and Astronomy

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

Albrecht, Julie  
Nutrition and Health Sciences  
Entrepreneurial Center Development for Food & Textile Small Scale Business in Tajikistan  
$256,000  Dept. of State-BECA
Prochaska-Cue, Kathy  
Family and Consumer Sciences

Alexander, Dennis  
Electrical Engineering  
Ultra-Short Laser Pulse Propagation  
$300,943  DOD-DEPSCoR

Alfano, James  
Plant Pathology  
Functional Genomics of the Interactions of Tomato & Pseudomonas Syringae  
$392,500  Cornell University
Isolation & Characterization of Pseudomonas Type III Effectors that Suppress Programmed Cell Death in Eukaryotes  
$375,000  NSF
Chaperones of the Type III Protein Secretion System of Pseudomonas Syringae Tomato DC 300  
$200,000  Dept. of Agriculture-CSREES

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

Ayers, Jerry  School of Natural Resources  
* Management and Preservation of Saline Wetlands in Eastern Nebraska  
$314,260  Environmental Protection Agency
Harvey, Ed  School of Natural Resources
Gosselin, David  School of Natural Resources

Azizinamini, Atorod  Civil Engineering  
* Simple for Dead-Continuous for Live Load System with Partial Pre-Fabricated Deck System  
$242,038  Ne Dept. of Roads
$290,000  Ne Dept. of Roads
Rizos, Dimitri  Civil Engineering
Development of Design Tools for Steel Bridge Systems, Simple for Dead Loads & Continuous for Superimposed Dead Load & Live Loads  
$226,306  Ne Dept. Roads
Steel Box System Monitoring of N-2 over I-480 Bridge  
$292,244  Ne Dept. Roads
$240,000  IBRC 2002 Project

Baenziger, P. Stephen  Agronomy and Horticulture  
* Developing Winter Wheat with Improved Fusarium Head Blight Tolerance by Conventional and Transgenic Approaches  
$218,531  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

Barletta, Raul  Veterinary and Biomedical Sciences  
Molecular Analysis of Mycobacterium Paratuberculosis Colony-Morphology Attenuated Mutant  
$270,000  Dept. of Agriculture-NRICGP

Basolo, Alexandra  Biological Sciences  
* Behavioral Plasticity in Preexisting Receiver Bias  
$360,000  NSF
Effects of Sexual Selection & Predation on a Genetic Polymorphism for Body Size  
$519,721  NSF
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Mechanisms of Social Cognition  
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Kamil, Alan  Biological Sciences  
Virtual Ecology: Experimental Tests of Evolution in Predator-Prey Systems  
$461,000  NSF

Brand, Jennifer  Center for Materials Research  
Boron Carbide Semiconductor Films  
$307,826  DOD-Battelle

Buhler, Stephen  English  
Leadership for Institutional Change  
$265,000  W. K. Kellogg Foundation

Bulling, Denise  Public Policy Center  
* Hospital Preparedness  
$281,520  Ne Dept. 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  
$310,000  Nebraska Dept. Roads

Caldwell, Robert  School of Natural Resources  
Manure & Nutrient Management Practices to Protect Human Health & the Environment  
$662,200  Dept. of Agriculture-ARS

Carlo, Gustavo  Psychology  
Parenting & Sociocognitive Correlates of Prosocial Behaviors in Mexican American & European American Children  
$339,283  NSF

Cerutti, Heriberto  Biological Sciences  
Transcriptional Gene Silencing in Chlamydomonas & Arabidopsis  
$400,000  NSF

Chollet, Raymond  Biochemistry  
Molecular/Biochemical Investigations of PEPC (and its novel ser/thr-Kinase) and SuSy (Nodulin-100), 2 phosphorylated Metabolic Enzymes in Plants  
$749,024  NSF

$200,000 – $999,999
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  Agrobacterium-Mediated Genetic Transformation of Wheat & Soybeans  $345,537  Dept. of Agriculture-ARS-BRDC
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

Comfort, Steven  School of Natural Resources  * Field-Scale Demonstrations of Innovative Remediation Techniques for Contaminated Soil and Water  $994,100  Environmental Protection Agency

Costello, Don  Computer Science and Engineering  GAANN Fellowships for Computer Science & Engineering  $498,132  Dept. of Education

Crockett, Lisa  Psychology  Ethnicity, Parenting and Adolescent Adjustment  $387,748  DHHS-NIH-NICHD

Daly, Edward  Educational Psychology  School Psychology Leadership Specialization in Response-to-Intervention Research & Systems Change  $800,000  Dept. of Education
McCurdy, Merilee  Educational Psychology
Sheridan, Susan  Educational Psychology
Kunz, Gina  Educational Psychology

DeKraai, Mark  Public Policy Center  * Child Mental Health SIG  $650,000  Nebraska Dept. Health and Human Services

DiMagno, Stephen  Chemistry  * Hydrogen for Fuel Cells  $966,000  DOD-Office of Naval Research
Takacs, James  Chemistry
Berkowitz, David  Chemistry
Hydrogenase and Alkane Functionalization Catalysts  $599,748  DOD-Office of Naval Research
Redepenning, Jody  Chemistry

Dobermann, Achim  Agronomy and Horticulture  Harnessing Breakthroughs in Nutrient Management & Information Technology for Greater Profitability in Corn, Soybeans & Dry Beans  $300,000  Ne Dept. Agriculture
Dowben, Peter  
Center for Materials Research  
Development of Semiconducting Boron Carbide for Solid State Neutron Detectors  
$905,000  
DOD-Office of Naval Research  
Adenwalla, Shireen  
Center for Materials Research  
Balkir, Sina  
Electrical Engineering  
Brand, Jennifer  
Center for Materials Research  
Doudin, Bernard  
Center for Materials Research  
Hallbeck, Susan  
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Robertson, Brian  
Center for Materials Research  
Paul, Prem  
Vice Chancellor for Research  
Surface Chemistry of Adsorbates on Crystalline Polymers  
$380,000  
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Drummond, Wayne  
Architecture  
Neighborhoods in Transition: Community Outreach Partnerships  
$388,914  
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Parsons, Gerald  
Agricultural Leadership/Education  
Carranza, Miguel  
Sociology  
Cantarero, Rodrigo  
Community and Regional Planning  
Waite, Michelle  
Chancellor's Office  
Larrick, Steven  
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Fritz, Susan  
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Dwyer, Matthew  
Computer Science and Engineering  
* Software Model Checking for Embedded Systems  
$212,534  
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Parallel Analysis of Models for Distributed Real-Time Embedded Systems  
$309,613  
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Program Analysis Techniques to Support Dependable RTSJ Applications  
$207,519  
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Elbaum, Sebastian  
Computer Science and Engineering  
Goddard, Stephen  
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Dzenis, Yuris  
Engineering Mechanics  
Fundamentals of Fabrication of Nanofiber Assemblies by Electrospinning  
$372,000  
NSF  
Farritor, Shane  
Mechanical Engineering  
Novel Continuous Carbon Nanofibers for the Next Generation Lightweight Structural Nanocomposites  
$252,362  
DOD-Air Force Off of Sci Rsch  
Ultra High Speed Digital Imaging System  
$330,746  
DOD-Army Rsch Office -DURIP  

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  

$200,000 – $999,999
Elbaum, Sebastian  Computer Science and Engineering  
ITR/SW: Collaborative Research: A New Generation of Scalable, Cost-Effective Regression Testing Techniques  
$251,018  NSF  
$211,294  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 Disorders  
Leadership Training in Emotional Disturbance Disorders  
$590,854  Dept. of Education  
Postdoctoral Training in Emotional & Behavioral Disorders  
$471,512  Dept. of Education  
Early Childhood Mental Health Project  
$716,290  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  
$210,000  NSF  

Farritor, Shane  Mechanical Engineering  
Track Stability Assessment  
$461,944  Dept. of Transportation-FRA  
Palmer, Robert  Electrical Engineering  

Fritz, Sherilyn  Geosciences  
Lake Titicaca Drilling Project  
$314,167  NSF  

Fuller, Robert  Physics and Astronomy  
Algebra-Based Physics with Human Applications  
$378,798  NSF  
Spiegel, Amy  Educational Psychology  
Plano-Clark, Vicki  Physics and Astronomy  

Ganow, Marcella  Civil Engineering  
* Nebraska ITS Program Support and ITS Architecture Maintenance  
$207,488  Ne Dept. Roads  
Glenn, Kathleen  Civil Engineering  

Gardner, Scott  School of Biological Sciences  
Worm-Web: Georeferencing Computerized Data & Linking Databases in the Manter Laboratory of Parasitology  
$420,107  NSF  
Hosier, Aaron  Information Services  

$200,000 — $999,999
Gaskell, C. Martin  
**Physics and Astronomy**  
Variability of Active Galactic Nuclei  
$435,611  
NSF

Gay, Timothy  
**Physics and Astronomy**  
Polarized Electron Physics  
$652,002  
NSF

Gibson, Robert  
**Biological Sciences**  
Graduate Assistance in Areas of National Need: Integrating Ecology, Evolution, Geosciences, & Sustainable Natural Resource Management/Agriculture  
$452,850  
Dept. of Education

Ginting, Daniel  
**Agronomy and Horticulture**  
Pollution & Economic Decision Support Tool for Impaired Watershed Management Plans in Eastern Nebraska  
$335,000  
Dept. of Agriculture-CSREES

Gitelson, Anatoly  
**School of Natural Resources**  
Consequences of Institutional Change: Land-Cover Dynamics in Kazakhstan 1960-2000  
$538,780  
NASA

Gladyshev, Vadim  
**Biochemistry**  
Identity of Terminator & Selenocysteine UGA Codons  
$789,237  
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Goddard, Stephen  
**Computer Science and Engineering**  
Energy-Aware CPU & I/O Scheduling for Embedded, Real-Time Systems  
$200,000  
NSF

Graef, George  
**Agronomy and Horticulture**  
Sclerotinia Resistance Enhanced by Accumulation of QTL Transgenic Approaches  
$223,142  
Dept. of Agriculture-ARS

Greve, Vickie  
**Northeast Research and Extension Center**  
Communities Together Can  
$389,000  
Dept. of Agriculture-CSREES

Griesen, James  
**Vice Chancellor for Student Affairs**  
NU Directions: Program to Reduce High-Risk Drinking  
$468,000  
Robert Wood Johnson Foundation
Hage, David  
Chemistry  
Chromatographic Automation of Immunoassays  
$938,559  
DHHS-NIH-NIGMS

Harbison, Gerard  
Chemistry  
Structure & Dynamics of DNA Hairpins  
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DHHS-NIH-NIGMS

Hardy, John  
Physics and Astronomy  
Studies on Novel Ferroelectrics for Microwave Optics  
$240,000  
DOD-Army Research Office

Harshman, Lawrence  
Biological Sciences  
Identification of Genes & Proteins that Regulate Stress Resistance  
$505,985  
DOD-DEPSCoR

Harwood, David  
Geosciences  
Acquisition of a Drilling Rig to Recover Geological Records from the Antarctic Margin for the ANDRILL Consortium  
$482,361  
NSF

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  
Improved Drought Monitoring Through the Integration of Climate & Satellite-based Data  
$241,094  
Dept. of Interior-GS  
Hubbard, Kenneth  
School of Natural Resources  
Wilhite, Donald  
School of Natural Resources

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

Hefle, Sue  
Food Science and Technology  
Allergenicity Evaluation of Isinglass  
$417,610  
Various Industries  
Taylor, Steve  
Food Science and Technology

Hein, Gary  
Panhandle Research and Extension Center  
Biologically Intensive Areawide IPM of Russian Wheat Aphid & Greenbug  
$425,823  
Dept. of Agriculture-ARS

Henry, Chris  
Biological Systems Engineering  
Livestock Producer Environmental Assistance Project  
$567,750  
Ne Environmental Trust

Henze, Gregor  
School of Engineering Technology  
Predictive Optimal Control of Active & Passive Building Thermal Storage Inventory  
$357,781  
Dept. of Energy-Natl Energy Tech

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<td>* Socially Constituted Food Consumption of Adolescents</td>
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Khattak, Aemal  
Civil Engineering

Driver Information System at At-Grade Railroad Highway Crossings

$293,762

Pesti, Geza  
Civil Engineering


Kostelnik, Marjorie  
Education and Human Sciences

* Planning Project for SAGE Lifelong Learning

$200,000

Eversoll, Deanna  
Education and Human Sciences


Langell, Marjorie  
Chemistry

Surface Chemistry of Rock Salt & Spinel 3D Transition Metal Oxides Tailored by Structural & Compositional Methods

$425,000


Ledder, Glenn  
Mathematics

* UBM: Research for Undergraduates in Theoretical Ecology (RUTE)

$905,000

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

Schmidt, Edward  
Physics and Astronomy

Development of Interactive Simulation Environments for Inquiry Astronomy Teaching

$336,572

Schmidt, Edward  
Physics and Astronomy


Leslie-Pelecky, Diandra  
Physics and Astronomy

* Magnetic Properties of Disordered Rare-Earth Nanostructures

$420,000

Shield, Jeff  
Mechanical Engineering


Liou, Sy-Hwong  
Physics and Astronomy

Nanometer-Size Magnetic Devices

$236,000


Loope, David  
Geosciences

Paleometeorological Records from Sand Dunes & Eolian Sand Stones

$262,570


Louda, Svata  
Biological Sciences

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

$408,760

Insect Herbivore Guild Interactions & Tall Thistle Population Dynamics

$369,999


$200,000 — $999,999
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<td>Response of Arabidopsis to Turnip Crinkle Virus Infection</td>
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<td>Colonization of Porcine Intestine by E.coli</td>
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<td>Determinants of PRRSV using Reverse Genetics</td>
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<td>VSV RNA Transcription and Replication</td>
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<td>Sturgeon in the Lower Platte River</td>
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Pilson, Diana  
**Biological Sciences**  
*Transgenic Virus Resistant Squash: Ecological Effect*  
$314,877  
Morris, T. Jack  
Biological Sciences

Ragsdale, Stephen  
**Biochemistry**  
*Enzymology of Methanogenesis: Mechanism of Methyl-Coenzyme M Reductase*  
$280,000  
Dept. of Energy

Rajca, Andrzej  
**Chemistry**  
*Organic Polymers with Magneto-Dielectric Properties*  
$308,608  
DOD-Air Force Off of Sci Rsch

Rajurkar, Kamlakar  
**Industrial and Management Systems Engineering**  
*Analysis & Gap Monitoring for Improving Micro EDM Performance-Supplement*  
$202,500  
Yu, Zuyuan  
Industrial and Management Systems Engineering

Ramamurthy, Byrav  
**Computer Science and Engineering**  
*Secure Group Communication over Wired & Wireless Networks*  
$349,990  
NSF  
Varyiam, Vinod  
Computer Science and Engineering

Ratcliffe, Brett  
**Entomology**  
*A Faunistic Survey of the Dynastinae of Honduras, Nicaragua & El Salvador*  
$342,842  
NSF

Redepenning, Jody  
**Center for Materials Research**  
*Chemically Modified Nano-Electrodes for Magnetoelectronics Applications*  
$390,000  
Doudin, Bernard  
Center for Materials Research

Reichenbach, Stephen  
**Computer Science and Engineering**  
*SEI: Information Modeling for Comparative Visualizations & Analyses*  
$351,428  
NSF

Reid, John  
**Mechanical Engineering**  
*Investigating the Use of Small Diameter Softwood as Guardrail Posts*  
$280,000  
Faller, Ronald  
Civil Engineering

$200,000 — $999,999
Rilett, Laurence  Civil Engineering  
* Development of State of the Art Traffic Micro-Simulation Model for Nebraska  
$222,896  
Jones, Elizabeth  Civil Engineering  

Robertson, Brian  Mechanical Engineering  
Development of a Novel Inorganic Dielectric Barrier Layer for Magneto-Resistive Junctions  
$400,000  
Doudin, Bernard  Physics and Astronomy  
Dowben, Peter  Physics and Astronomy  

Rohde, John  Civil Engineering  
Midwest States Regional Pooled Fund Program-Yr 15  
$545,000  
Sicking, Dean  Civil Engineering  
Reid, John  Mechanical Engineering  
Faller, Ron  Midwest Roadside Safety Facility  

Rothermel, Gregg  Computer Science and Engineering  
* CRI: Community Resource to Support Controlled Experimentation with Program Analysis and Testing Techniques  
$874,636  
Elbaum, Sebastian  Computer Science and Engineering  
Dwyer, Matthew  Computer Science and Engineering  
* ITR: Dependable End-User Software  
$282,992  
Oregon State University  

Samal, Ashok  Computer Science and Engineering  
Intelligent Joint Evolution of Data & Information: An Integrated Framework for Drought Monitoring & Mitigation  
$214,000  
Hayes, Michael  School of Natural Resources  
Hubbard, Kenneth  School of Natural Resources  
Soh, Leen-Kiat  Computer Science and Engineering  
Svoboda, Mark  School of Natural Resources  
Waltman, William  Computer Science and Engineering  
Wilhite, Donald  School of Natural Resources  

Saraf, Ravi  Chemical and Biomolecular Engineering  
* Nanodevice for Imaging Normal Stress Distribution with Application in Sensing Texture and Feel by Touching  
$217,156  
Schacht, Walter  Agronomy and Horticulture  
Grasslands Ecological Monitoring System  
$608,880  
Dept. of Agriculture-RMA-FCIC  

$200,000 – $999,999
Scheffler, Marilyn  Special Education and Communication Disorders

Project PROMOTE  Dept. of Education

$797,184  Sanger, Dixie  Special Education and Communication Disorders
Project Support: Speech-Language Pathologists Supporting Literacy Instruction

$800,000  Sanger, Dixie  Special Education and Communication Disorders

Selley, Roger  Agricultural Economics

Nebraska AgrAbility  Dept. of Agriculture-CSREES

$597,720  Sanger, Dixie  Special Education and Communication Disorders

Sellmyer, David  Physics and Astronomy

Acquisition of an X-Ray Diffractometer for Nanoscale Materials Research & Education  NSF

$252,000  Sellmyer, David  Physics and Astronomy

Shank, Nancy  Public Policy Center

Bridging the Gap: Information & Referral Database Interoperability  Dept. of Commerce-NTIA

$600,000  Shank, Nancy  Public Policy Center

Shapiro, Charles  Northeast Research and Extension Center

* Improving Organic Farming Systems across Nebraska Agroecosystems  Dept. of Agriculture-CSREES

$762,949  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

Sheridan, Susan  Educational Psychology

Leadership Training in Interdisciplinary Collaboration  Dept. of Education

$800,000  Sheridan, Susan  Educational Psychology

Shield, Jeffrey  Mechanical Engineering

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

$340,000  Shield, Jeffrey  Mechanical Engineering

Sicking, Dean  Civil Engineering

Identification of Vehicular Impact Conditions Associated with Serious Run-Off-Road Crashes  Natl Coop Hwy Rsch Prog

$634,521  Khattak, Aemal  Civil Engineering
Jones, Elizabeth  Civil Engineering

Improved Procedures for Safety Performance Evaluation of Roadside Features  Natl Coop Hwy Rsch Prog

$833,940  Reid, John  Mechanical Engineering
Rohde, John  Civil Engineering
Faller, Ronald  Civil Engineering

$200,000 — $999,999
Siegfried, Blair  
Entomology  
Population Genetics & Molecular Mechanisms of Resistant Western Corn Rootworms  
$264,000  Dept. of Agriculture-CSREES  
Wright, Robert  Entomology  
Meinke, Lance  Entomology  
A Site Specific Field Corn IPM Program that Incorporates Transgenic Technology  
$283,913  Pennsylvania State University

Simpson, Melanie  
Biochemistry  
Role of Hyaluronan in Prostate Cancer Progression  
$326,250  DOD-Army Medical Research

Sincovec, Richard  
Computer Science and Engineering  
Great Plains Software Technology Initiative for the New Economy  
$800,000  Dept. of Education-FIPSE  
MRI: Acquisition of High Performance Computing & Data Visualization for Scientists & Engineers  
$500,000  NSF  
Jiang, Hong  Computer Science and Engineering  
Ramamurthy, Byrav  Computer Science and Engineering  
Seth, Sharad  Computer Science and Engineering  
Swanson, David  Computer Science and Engineering

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

Smith, David R.  
Veterinary and Biomedical Sciences  
Intervention Strategies to Reduce Escherichia Coli 0157:H7 in Beef Feedyards  
$500,000  Dept. of Agriculture-NRICGP  
Erickson, Galen  Animal Science  
Hinkley, Susanne  Veterinary and Biomedical Sciences  
Klopfenstein, Terry  Animal Science  
Moxley, Rodney  Veterinary and Biomedical Sciences

Soukup, Rodney  
Electrical Engineering  
Electronic Devices of Germanium Carbide  
$270,000  NSF  
Ianno, Natale  Electrical Engineering

Specht, James  
Agronomy and Horticulture  
Elevating Protein Content in the North Central USA Soybean-Growing States  
$642,199  Iowa State University-NCSRP  
Graef, George  Agronomy and Horticulture

Spreitzer, Robert  
Biochemistry  
Role of the Rubisco Small Subunit  
$618,000  Dept. of Energy
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$200,000 — $999,999
Thippareddi, Harshavardhan Food Science and Technology
* Understanding and Controlling Listeria Monocytogenes Transmission through Ready-to-Eat Meat Products
$222,270 Colorado State University
HACCP Assistance for Small & Very Small Processors with Development & Validation of Safe Meat Chilling Processes
$599,916 Dept. of Agriculture-CSREES
Wang, Lijun Biological Systems Engineering
Weller, Curtis Biological Systems Engineering
Burson, Dennis Animal Science
HACCP Training & Research to Assist Meat Processors with Process Deviations for Lethality & Stabilization
$495,640 Dept. of Agriculture-CSREES

Tiller, Dale School of Engineering Technology
Converging Redundant Sensor Network Information for Improved Building Control
$327,000 Dept. of Energy-Natl Energy Tech
Henze, Gregor School of Engineering Technology
Tonn, Steven Southeast Research and Extension Center Omaha Lake Extension Coordinator
$307,645 Ne Dept. Environmental Quality

Torquati, Julia Family and Consumer Sciences
* Evaluation of Promising Models and Delivery Approaches to Child Care Provider Training
$239,875 Iowa State University
Wilcox, Brian Center on Children, Families and the Law
Raikes, Helen Center on Children, Families and the Law

Tsymbal, Evgeny Physics and Astronomy
Theory of Electronic Magnetic & Transport Properties of Nanoscale Magnetic Junctions
$300,000 NSF
Jaswal, Sitaram Physics and Astronomy

Uiterwaal, Kees Physics and Astronomy
Inside a Focused Laser Beam: Molecular Dynamics
$442,001 NSF

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

Van Etten, James Plant Pathology
* Center for Innovation in Membrane Protein Production
$287,782 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 in Dryland & Irrigated Agroecosystems  
$900,000  
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Cassman, Kenneth  
Agronomy and Horticulture  
Knops, Johannes  
Biological Sciences  
Hubbard, Kenneth  
School of Natural Resources  
Arkebauer, Timothy  
Agronomy and Horticulture  
Dobermann, Achim  
Agronomy and Horticulture  
Yang, Haishun  
Agronomy and Horticulture  
Walters, Daniel  
Agronomy and Horticulture

Vidaver, Anne  
Plant Pathology  
Molecular Characterization of Clavibacter iranicus & Related Species  
$318,742  
Dept. of Agriculture-ARS

Viljoen, Hendrik  
Chemical and Biomolecular Engineering  
Multi-Scale Study of Solid Phase Reactions  
$275,030  
NSF  
Vortex-Tube Based Thermocycler w/Intelligent Software  
$346,758  
DHHS-NIH-Nat Ctr Rsch Resources  
Gogos, George  
Mechanical Engineering

Wagner, William  
Biological Sciences  
* Communication of Direct Mating Benefits to Females  
$295,283  
NSF

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

Wang, Jun  
Computer Science and Engineering  
* CSR-PDOS: Energy-Efficient, High-Performance Storage Array Systems  
$260,000  
NSF

Wang, Xinwei  
Mechanical Engineering  
* Sub-Surface Structural Damages in Laser-Assisted Surface Nanostructuring  
$249,999  
NSF  
Lu, Yongfeng  
Electrical Engineering

Weber, John  
Animal Science  
Phenotype Screens for Bone Marrow Failure  
$208,050  
Baylor College of Medicine

$200,000 — $999,999
Weeks, Donald  
**Biochemistry**  
Development of Herbicide-Resistant Plants for Environmentally-Safe Production Energy & Biomass Crops  
$232,000  
Consortium for Plant Biotechnology Research  
Role of the Cia 5 Gene in the Carbon Concentrating Mechanism in Chlamydomonas Reinhardtii  
$387,000  
NSF

Weissinger, Ellen  
**Graduate Studies**  
Ronald E. McNair Graduate Program  
$960,172  
Dept. of Education

Weisz, Victoria  
**Center on Children, Families and the Law**  
Nebraska State Court Improvement  
$861,502  
Supreme Court of Nebraska

Weldon, Robert  
**Biological Sciences**  
Intracellular Targeting of HIV Gag Proteins  
$393,825  
DHHS-NIH-NIAID

Weller, Curtis  
**Biological Systems Engineering**  
Purification Process Influences on Structural & Nutritional Function of Grain Sorghum  
$338,000  
Dept. of Agriculture-NRCGP  
Carr, Timothy  
Schlegel, Vicki  
Cuppett, Susan  
Hwang, Keum Taek  
Wang, Lijun  
Food Science and Technology  
Industrial Ag Products Center  
Biological Systems Engineering

Whitbeck, Les  
**Sociology**  
Shonga Ska: Sacred Horse Society Drug Prevent Program  
$437,375  
DHHS-NIH-Nat Inst Drug Abuse

White, Brett  
**Animal Science**  
Transcriptional Regulation/Porcine GnRH Receptor Gene  
$287,193  
Dept. of Agriculture-CSREES

White, Joseph  
**Sociology**  
* Developing an Alcohol Prevention Program with the Dakota  
$388,953  
DHHS-NIH-NIAAA  
Hoyt, Dan  
Whitbeck, Les  
Godfrey, Joyzelle  
Sociology  
Sociology

Wiegand, Roger  
**Mathematics**  
Graduate Assistance in Areas of National Need Fellowship Program: Mathematics at the University of Nebraska–Lincoln  
$428,412  
Dept. of Education  
Lewis, Jim  
Walker, Judy  
Walker, Mark  
Mathematics  
Mathematics  
Mathematics
Wiener, Richard  Psychology  $269,280  NSF
* REU Site: Psychology and Law
* Jury Bias in Criminal Cases: Sexual Assault, Homicide and Generic Prejudice

Wilcox, Brian  Center on Children, Families and the Law  $560,767  Pennsylvania State University
Community Context of Rural & Urban Child Neglect
Chambers, Jeff  Center on Children, Families and the Law
Graef, Michelle  Center on Children, Families and the Law
Wiese, Cheryl  Sociology
Midwest Child Care Research Consortium
$800,000  DHHS-Admin for Child & Families
Torquati, Julia  Family and Consumer Sciences

Wilhite, Donald  School of Natural Resources  $495,371  Dept. of Agriculture-CSREES
Drought Monitoring, Planning & Mitigation
 Mitigation & Preparedness Technologies for the US
$384,819  Dept. of Agriculture-CSREES

Willis, Mary  Anthropology and Geography  $227,459  The Jacob and Valeria Langeloth Foundation
Anterior Dentition and Restoration Among Nuer and Dinka Refugees from Sudan

Witkowski, John  Northeast Research and Extension Center  $237,105  Iowa State University
Integrated Network for Tribal College Community
Watershed Natural Resources Education

Woodward, Gordon  Mathematics  $400,000  NSF
Increasing Participation in Computer Science, Engineering, & Mathematics through NSF Scholarships at the University of Nebraska–Lincoln
Ballard, John  Engineering & Technology
Ramamurthy, Byrav  Computer Science and Engineering
Goddard, Steve  Computer Science and Engineering
Lee, Kevin  Arts & Sciences
Nebraska REU in Applied Mathematics
$223,987  NSF
Rebarber, Richard  Mathematics

Workman, Tom  Student Affairs  $999,999  Dept. of Education
"Greek Revolution": Enabling Cultural Change in UNL Greek Life

Total: $200,000 – $999,999
Wortmann, Charles  Agronomy/Horticulture
* Integrated Approach to Reduced Risk of Phosphorus Pollution of Surface Waters in Crop-Livestock Based Managed Ecosystems of the Midwest
$235,839  Nebraska Corn Board
Erickson, Galen  Animal Science
Schulte, Dennis  Biological Systems Engineering
Franti, Tom  Biological Systems Engineering
Jose, H. Douglas  Agricultural Economics

Wunder, Susan  Teaching, Learning and Teacher Education
Nebraska Partnership for American History Education
$684,815  Educational Service Unit #7

Yamamoto, Catherine  Student Affairs
Upward Bound–Lincoln
$938,496  Dept. of Education
Upward Bound Math/Science Project
$891,664  Dept. of Education

Yang, Yiqi  Textiles, Clothing and Design
Resistance of Sulfur Dyed Fabrics to Oxidative Bleaching & Acidic Tendering: Improvement & Application
$300,618  Procter & Gamble

Zeng, Xiao Cheng  Chemistry
Crystallization and Interfacial Properties of Silicon
$235,000  Dept. of Energy
ITR: Multiscale Treatment of Solid-Fluid Interfaces
$400,000  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
$417,682  NSF
Harshman, Lawrence  Biological Sciences
Morph-Dependent Cyclic JH Titer in a Wing-Polymorphic Insect: Adaptive Significance & Underlying Causes
$321,626  NSF

Zhang, Luwen  Center for Virology
* Interferon Regulatory Factor 7 and NPC
$398,109  DHHS-NIH-NIAID

$200,000 — $999,999
Career and K Awards
Active awards in 2005
* Indicates new in 2005

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 as an educator.

Adams, Stephanie
Industrial and Management Systems Engineering
Designing Effective Teams in the Engineering Classroom for the Enhancement of Learning
$623,918 NSF

Becker, Donald
Biochemistry
Spectrochemical Studies of Novel PutA Flavoprotein
$314,250 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
$407,494 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.

Orti, Guillermo
Biological Sciences
Molecular Systematics of Ray-Finned Fishes
$533,295 NSF

Perez, Lance
Electrical Engineering
Channel Coding for Satellite and Mobile Communications
$269,880 NSF

Scott, Stephen
Computer Science and Engineering
Making Exponential-Time Learning Algorithms Efficient
$299,952 NSF

Wang, Lily
School of Engineering Technology
Integrating Time-Variant Source Directivity into Architectural Acoustic Auralizations
$389,376 NSF

Angeletti, Peter
Biological Sciences
Maintenance of Human Papilloma Virus Genes
$649,726 DHHS-NIH-NCI

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

Tyler, Kimberly
Sociology
Neglect and Abuse Histories Among Homeless Young Adults
$659,525 DHHS-NIH-NIMH
**Behrendt, Stephen**  
*English*  
*Genre, Dialogue, and Community in British Romantic Fiction*

- **$124,822**  
- **National Endowment for the Humanities**  
- **10/01/2004 – 9/30/2005**

Stephen Behrendt, George Holmes  
Distinguished Professor of English, received a major award from the National Endowment for the Humanities to continue support of a summer seminar for university and college professors whose scholarship focuses on individual writers of the British Romantic Era (c. 1780-1840). The University Libraries has extremely strong primary and secondary holdings, including the Corvey Collection of Romantic era belles lettres. The seminar allows scholars access to the collection and enriches sustained dialogue about inter-genre connections, helps remap the landscape of the British Romantic era and advances future scholarship for applied curricular and pedagogical design.

**Cahan, David**  
*History*  
*A Biography of Hermann von Helmholtz*

- **$80,625**  
- **NSF**  
- **1/1/2005 – 12/31/2006**

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 portrait 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.
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.

Thomas Myers, curator of anthropology and professor of museum studies and anthropology, and Dee Ann Allison, chair of the Automated Systems Office and professor of libraries, are using a grant from the Institute of Museum & Library Services in a collaborative project to locate and catalog artifacts and photographic images of the Omaha tribe that are scattered in museums, libraries and private collections worldwide. The key program is development of a Website to make the resulting database of Omaha artifacts and an on-line gallery of images accessible to tribal members, educators, students and the general public. The Nebraska State Historical Society and members of the Omaha Tribe are partners with the NU State Museum and UNL Libraries in this project.

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 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.

The Walt Whitman Hypertext Archive

$200,000 National Endowment for the Humanities
5/1/03 – 4/30/05

Price is also part of a project to produce The Walt Whitman Hypertext Archive, which will build on, enhance and contextualize the 22-volume Collected Writings of Walt Whitman by publishing a comprehensive on-line Walt Whitman archive Website. The project involves encoding all materials in the Collected Writings and editing, encoding, linking and annotating all remaining materials, including the vast archive of Whitman’s poetry manuscripts.

Walter, Katherine Libraries

* Interoperability of Metadata Standards for Digital Thematic Research Collections

$169,651 Institute of Museum and Library Services

Price, Kenneth English

Bolin, Mary Libraries

Barney, Brett Libraries

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

Benjamin A. Botkin Collection-Preservation/Access

$97,435 National Endowment for the Humanities
7/1/01 – 6/30/06

Walter is also using a National Endowment for the Humanities grant to preserve a vast collection of materials from the Benjamin A. Botkin Collection of Applied American Folklore and microfilming it to improve its accessibility to scholars and the public. Botkin was national folklore editor of the Federal Writers Project and chief of the Library of Congress Archive of American Folk Song. The collection adds to the understanding of this discipline in development and it consists 8,000 books, 447 linear feet of archival materials and 700 recordings. The project preserves 291
linear feet on microfilm and also preserves 200 sound recordings made by Botkin himself.

**Virtual Archive of Whitman’s Manuscripts**

$245,723 Institute of Museum & Library Services
Kenneth Price English
11/1/01 – 10/31/05

Walter and Kenneth Price, professor of English and Hillegass Chair in 19th Century American Literature, are working with partner institution the University of Virginia to create a Virtual Archive of Walt Whitman’s Manuscripts. This project, funded by the Institute of Museum & Library Services, will create a uniform web-based guide to Whitman’s manuscripts (estimated at 70,000 items) with special scholarly enhancements of 4,300 poetry manuscripts at more than 60 institutions. The project is developing a technically innovative response to the complex scholarly problem of archival management, building a searchable database specific to the nature of Whitman materials and serving as a model for future scholar-archivist collaborations.

**Implementation Grants for Special Projects—**

**Journals of Lewis and Clark Online Edition**

$222,177 National Endowment for the Humanities
Dunham, Gary University Press
9/1/03–8/31/05

Walter and Gary Dunham, University of Nebraska Press director, are 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 website a useful resource for scholars and the general public. The project is timed to coincide with the bicentennial commemoration of Lewis and Clark’s expedition.
## Arts and Humanities Awards

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

**Active awards in 2005**  
Indicates new in 2005

<table>
<thead>
<tr>
<th>Name</th>
<th>Department/Field</th>
<th>Project Description</th>
<th>Award Amount</th>
<th>Source(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Becker, Karen</strong></td>
<td>Music</td>
<td>UNL String Project</td>
<td>$10,000</td>
<td>American String Teachers Assn</td>
</tr>
<tr>
<td><strong>Bleed, Peter</strong></td>
<td>Anthropology and Geography</td>
<td>* Archaeological Reconnaissance of San Juan Hill Battlefield</td>
<td>$5,185</td>
<td>National Geographic Society</td>
</tr>
<tr>
<td><strong>Brooke, Robert</strong></td>
<td>English</td>
<td>* Voices from Young Citizens: Writing from Rural Nebraska Youth Involved in Place Conscious Education</td>
<td>$8,100</td>
<td>Nebraska Humanities Council</td>
</tr>
<tr>
<td><strong>Dunham, Gary</strong></td>
<td>University Press</td>
<td>Moravian Springplace Mission among the Cherokees</td>
<td>$10,000</td>
<td>Montana Committee for Humanities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* National Historic Publications and Records</td>
<td>$6,000</td>
<td>Montana Committee for Humanities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Publication of “Beaver Steals Fire”</td>
<td>$6,000</td>
<td>Montana Committee for Humanities</td>
</tr>
<tr>
<td><strong>Engen-Wedin, Nancy</strong></td>
<td>Lied Center</td>
<td>Omaha Cultural Arts Project</td>
<td>$45,000</td>
<td>Friends of Lied</td>
</tr>
<tr>
<td><strong>Handa, Rumiko</strong></td>
<td>Architecture</td>
<td>* Spirit of Design: Multidisciplinary, Multimedia Database and Website</td>
<td>$12,000</td>
<td>Graham Foundation</td>
</tr>
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<td>Potter, James</td>
<td></td>
<td>Architecture</td>
</tr>
<tr>
<td><strong>Reynolds, Guy</strong></td>
<td>English</td>
<td>* 10th International Cather Seminar, “Violence, the Arts, and Cather”</td>
<td>$8,600</td>
<td>Nebraska Humanities Council</td>
</tr>
<tr>
<td><strong>Ritchie, George</strong></td>
<td>Music</td>
<td>Organ Scholar, Saint Cecilia Scholastica Cantorum</td>
<td>$11,175</td>
<td>Saint Cecilia Schola Cantorum</td>
</tr>
<tr>
<td><strong>Tomkins, Alan</strong></td>
<td>Public Policy Center</td>
<td>By the People: America in the World</td>
<td>$42,232</td>
<td>MacNeil/Lehrer Productions; Community Foundation for Greater New Haven; Cooper Foundation</td>
</tr>
<tr>
<td><strong>Walter, Katherine</strong></td>
<td>University Libraries</td>
<td>* Quilt Index National Leadership Project</td>
<td>$20,000</td>
<td>Michigan State University</td>
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<td>Crews, Patricia</td>
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<td>Textiles, Clothing and Design</td>
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<td>Homestead - Broken Bow Microfilming Project (CESU)</td>
<td></td>
<td>Dept. of Interior-NPS</td>
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<td>Edwards, Rick</td>
<td></td>
<td>Economics</td>
</tr>
</tbody>
</table>

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**ARTS AND HUMANITIES $5,000 – $49,999**
Alexander, Dennis
Electrical Engineering
Title: Laser Machining of Materials
Description: Nanomachining Using Femtosecond/Attosecond Lasers
Date: March 8, 2005
No. 6,864,457
Country: United States

Alfano, James
Biological Sciences
Title/Description: DNA Molecules and Polypeptides of Pseudomonas Syringae HRP Pathogenicity Island and their Uses
Date: February 8, 2005
No. 6,852,835
Country: United States

Azizinamini, Atorod
Civil Engineering
Title: Composite Action System and Method
Description: HBS Composite Action System
Date: March 29, 2005
No. 6,871,462
Country: United States

Balkir, Sina; Leon-Salas, Walter D.; Perez, Lance; Hoffman, Michael
Electrical Engineering
Title: System and Method for Generating Pseudo-Noise Sequences
Description: Chaos Based Pseudo-Noise (PN) Sequence Generation
Date: December 27, 2005
No. 6,981,010
Country: United States

Berkowicz, David
Chemistry
Title/Description: In Situ Screening to Optimize Variables in Organic Reactions
Date: December 13, 2005
No. 6,974,665
Country: United States

Chacon, Ofelia; Barletta, Raul
Veterinary & Biomedical Sciences
Title: D-Alanine Racemase Mutants of Mycobacteria and Uses Therefore
Description: D-alanine Biosynthetic Enzymes as Targets for Development of Anti-Mycobacterial Drugs and Vaccines
Date: August 16, 2005
No. 6,929,799
Country: United States
Liu, Mingsheng
Architecture
Title: Fume Hood Exhaust Stack System
Description: Advanced Stack Systems
Date: May 10, 2005
No. 6,890,252
Country: United States

Sayood, Khalid; Hoffman, Michael
Electrical Engineering
Title: System and Method for Joint Source-Channel Encoding, with Symbol Decoding and Error Correction
Description: Self-Correcting Arithmetic Codes for Noisy Communication Channels
Date: May 10, 2005
No. 6,892,343
Country: United States

Sicking, Dean L.
Civil Engineering
Title/Description: High-Impact, Energy-Absorbing Vehicle Barrier System
Date: August 9, 2005
No. 6,926,461
Country: United States

Tadros, Maher; Foster, Edward Terence; Yehia, Sherif
Civil Engineering, Constructions Systems Technology, Civil Engineering
Title/Description: Pre-cast Post-Tensioned Segmental Pole System
Date: February 8, 2005
No. 6,851,231
Country: United States

Weeks, Donald
Biochemistry
Title: Methods and Materials for Making and Using Transgenic Dicamba-Degrading Organisms
Description: Development of Crops Tolerant to Treatment with Dicamba
Date: February 19, 2005
No. 42194
Country: North Korea

Date: August 18, 2005
No. 781125
Country: Australia

Date: December 16, 2005
No. 10-1999-7009092
Country: South Korea
Licensee: Kansas Organic Producers  
Description: NE99495 plant variety.  
Inventor: Baenziger, Stephen  
Department: Agronomy and Horticulture

Licensee: BASF Plant Science, L.L.C.  
Description: Infinity Hard Red Winter Wheat, formerly NH01046.  
Inventors: Baenziger, Stephen; Martin, Alexander; Shipman, Mary; Lyon, Drew  
Department: Agronomy and Horticulture

Licensee: Baker Hughes Inteq  
Description: Neutron detector for oil well drilling, 10 years from date of execution.  
Inventor: Brand, Jennifer I.  
Department: Chemical and Biomolecular Engineering

Licensee: i-Diverse, Inc.  
Description: Fragment from animal anti-apoptotic gene confers stress resistance to transgenic plants.  
Inventor: Dickman, Martin  
Department: Plant Pathology

Licensee: Garst Seed Company  
Description: Soybean variety NEX8903  
Inventors: Graef, George; Korte, Leslie; White, Dennis  
Department: Agronomy and Horticulture

Licensee: Stonebridge, Inc.  
Description: A large-seeded soybean lines with higher protein and sucrose content and a yellow hilum variety U00-429042 and U00-429048.  
Inventor: Graef, George  
Department: Agronomy and Horticulture

Licensee: Ramaeker Organic Farms  
Description: U96-2831LS soybean variety.  
Description: A large-seeded, yellow hilum, high protein soybean variety.  
Inventor: Graef, George  
Department: Agronomy and Horticulture

Licensee: Seedwest  
Description: Seeded variety of Buffalograss SWI-2000.  
Inventor: Riordan, Terrance P.  
Department: Agronomy and Horticulture

Licensee: USDA ARS, APTRU, Delaware State University, Morgan State University, UNL Agronomy and Horticulture Department  
Description: Licensed CALMIT Software.  
Inventor: Rundquist, Don  
Department: Conservation and Survey Division
Licensee: Big Sky Wholesale Seed Inc.
Licensee: Heritage Seed Co. Inc.
Description: Beefmaker plant variety.
Inventor: Vogel, Kenneth P.
Department: USDA-ARS

Licensee: Monsanto
Description: Germplasm comprising a dicamba-resistance gene.
Inventor: Weeks, Don
Department: Biochemistry

Licensee: Upstate
Description: Antibody(ies) developed and characterized at UNL, which is specific to monoclonal antibody(ies) against biotinylated Histone H4.
Inventors: Zempleni, Janos; Sarath, Gautam
Department: Nutritional Science and Dietetics, Biochemistry
CREATIVE WORKS IN FINE AND PERFORMING ARTS
Faculty who created, performed and produced creative works in fine and performing arts.

Faculty Chamber Music Recital Series  
Anderson, Scott L.  
Haar, Paul  
Neely, David  
Potter, Clark  
Chamber Music Recital in Ames, Iowa, a collaborative performance with the faculty at Iowa State University, featured two works for Saxophone and Trombone Quartet by UNL composer Randall Snyder.

Moran Quintet  
Bailey, John  
McMullen, William  
Barger, Diane C.  
Micklich, Albie  
French, Allen  
Performance/Lecture, Quebec City, Canada, College Music Society National Conference and Alcalá de Heneras, Spain; College Music Society International Conference. Wind Chamber Music of Theodor Blumer.

Everything Old is New Again: Tradition Meets Innovation in Perle’s ‘Wind Quintet No. 4 (with Gretchen Foley).

University of Nebraska Brass Quintet  
Anderson, Scott L.  
White, Darryl  
Bircher, K. Craig  
French, Allen  
Fuller, Craig  
Chamber Music Recital featuring original brass quintet music at Central Presbyterian Church, Denver, Colo., and Colorado State University, Fort Collins, Colo.

Bailey, John R.  
Performance, American Flute Orchestra, Beijing, Shanghai, Xi’an, China, flute orchestra concert tour. Conducted the American Flute Orchestra, a professional ensemble of 35 flutists (contrabass, bass, alto, and concert flutes) assembled from around the U.S. and Canada on tour in China.

Barger, Diane C.  
Performance, TAMA-Tokyo, Japan, International Clarinet Association Performance.
Bartels, Ron H.  
Art and Art History  
New Generations 2005 International Exhibition, SangMyung University, Republic of Korea  
Bartels’s lenticular video print work and digital motion video art.  
September 1 – December 1, 2005.

Digital Universe, Caladan Gallery, Boston, Mass: Ron Bartels Contemporary Icons online exhibition July – October, Inside Out, From Here In Time, Surprise Again, Another Viewpoint, lenticular prints and QuickTime video motion work.

7th International Abstraction, Upstream People Gallery, Larry Bradshaw, juror  

Fritz, Dana  
Art & Art History  
Artist Residency, Alfred and Trafford Klots Artist Residency Program, Chateau de Rochefort-en-Terre, Brittany, France.


Curator’s Choice Award, 2005 HCP Juried Membership Exhibition, Houston Center for Photography, Houston, Texas.

Holz, Aaron  
Art & Art History  
Artist, Another Place, A Different Garden: RARE Art Gallery. New York, N.Y.

Artist, Power, Passion & Humiliation: MPG Contemporary, Boston, Mass.

Artist, Ivan Fortushniak and Aaron Holz: Lake George Arts Project, Lake George, N.Y.

Artist, Cool & Collected-Consummate Works from Local Collectors: Bemis Center For Contemporary Arts, Omaha, Neb.

James, Michael F.  
Textiles, Clothing & Design  
Questioning Convention: The Studio Quilts of Michael James.  
30 year retrospective exhibition, Fuller Craft Museum, Brockton, Mass.

Mond, Robert A.  
Johnny Carson School of Theatre and Film  
Lighting design, The Merchant of Venice, by William Shakespeare, Pennsylvania Shakespeare Festival; Center Valley, Pa.

Lighting design for children’s theatre, The Little Mermaid, by Linda Daugherty, Pennsylvania Shakespeare Festival; Center Valley, Pa.
Shomos, William H.  
**School of Music**  
Author/Creator, *War Horse 101*, Opera Omaha, staged in Omaha and throughout Nebraska.


Stage director, Des Moines Metro Opera Apprentice Artist Program, Des Moines, Iowa.

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**Smith, Virginia L.**  
**Johnny Carson School of Theatre and Film**  
Director, *Voice of the Prairie*, Moscow, Russia.

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**Souto, Francisco**  
**Art & Art History**  
Artist, Francisco Souto Solo Exhibition, Brookhaven College School of the Arts, Dallas, Texas.

Artist, 6th Kochi International Triennial of Prints, Kochi, Japan.

Artist, 2005 Pacific Rim International Print Exhibition, Hilo, Hawaii.

Artist, IV Novosibirsk Biennial of Contemporary Graphic Art, Novosibirsk State Art Museum, Russia.


Artist, Open Expressions: Contemporary American Printmaking, American University, Cairo, Egypt.

Artist, 6th British International Miniature Print Exhibition, Dumfries, U.K.

Artist, 18th Parkside National Small Print Exhibition, Kenosha, Wis.

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**Teo, Sharon M.**  
**Johnny Carson School of Theatre and Film**  

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**Trout, Barbara L.**  
**Textiles, Clothing & Design**  

Weiss, Wendy  
Textiles, Clothing & Design

Artist, HOME AGAIN: University of Kansas Textiles: Past and Present, Farm Gallery, Kansas City, Kan.; Design Gallery, University of Kansas.

Artist, Art of Fine Craft: Nebraska Invitational, Lincoln, Neb., Elder Gallery, Nebraska Wesleyan University.

Artist, At the Fence #2, RED, A Juried Show on the Color Red, Rapid City, SD.

Artist, textile and sound environment. Traveler’s Field, Design Gallery, University of Wisconsin and University Place Gallery, Lincoln, Neb. Collaborator: Jay Kreimer.

Williams, Sandra M.  
Art and Art History


Artist, The Seven Mysteries, McHenry County College, Crystal Lake, Ill., Stevenson Gallery, Southern Oregon University, Ashland, Ore.

Quilt Quest  
4-H Youth Development

Akers, Donna L.

Asato, Noriko

Beatty, Millard, F.; Hayes, Michael, eds.

Behrendt, Stephen C.
History; Minneapolis, Minn., Mid-List Press, 2005. (English)

Borstelmann, Thomas; Jones, Jacqueline; Wood, Peter H.; Tyler May, Elaine; Ruiz, Vicki L.

Braithwaite, Dawn O.; Baxter, Leslie A., eds.

Carlo, Gustavo; Pope Edwards, Carolyn, eds.
Nebraska Symposium on Motivation, Volume 52. Moral Motivation through the Life Span; Lincoln, Neb., University of Nebraska Press, 2005. (Psychology)

Cejda, Brent D., ed.

Couture, Barbara; Kent, Thomas eds.

DeFrain, John D., Olson, David H.

Denicola, Robert C.
Copyright; New York, N.Y., Foundation Press, 2005. (Law)

Dunham, Gary; Ellis, Clyde; Lassiter, Luke Eric, eds.
Powwow; Lincoln, Neb., University of Nebraska Press, 2005. (University of Nebraska Press)
Diamond, Judy, ed.  

Digman, Lester A.; Laipply, Harold  
Strategic Management: Competing in the Global Information Age; Mason, Ohio, Thomson Custom Solutions, 2005. (Management)

Dixon, Wheeler W.  
Lost in the Fifties: Recovering Phantom Hollywood; Carbondale, Ill., Southern Illinois University Press, 2005. (English)

American Cinema of the 1940s: Themes and Variations; New Brunswick, N.J., Rutgers University Press, 2005. (English)

Edwards, Richard; Bowles, Samuel; Roosevelt, Frank  

Forsythe, David  

Foster, Gwendolyn, A.  
Class-Passing: Social Mobility in Film and Popular Culture; Carbondale, Ill., Southern Illinois University Press, 2005. (English)

Giesecke, Joan R.; McNeil, Beth  
Fundamentals of Library Supervision; Chicago, Ill., American Library Association, 2005. (University Libraries)

Gorman, Robert  
The Socratic Method in the Dialogues of Cicero; Stuttgart, Germany, Franz Steiner Verlag, 2005. (Classics/Religious Studies)

Grady, Marilyn L.; Brock, Barbara  

Grange, William M.  
Hitler Laughing: Comedy in the Third Reich; Baltimore, Md., Rowman and Littlefield, 2005. (Johnny Carson School of Theatre and Film)

Hage, David S., ed.  
Handbook of Affinity Chromatography, 2nd Ed; New York, N.Y., Taylor and Francis, 2005. (Chemistry)

Harbourne, Brian; Giliberto, Ciro; Geramita, Anthony; Miro-Roig, Rosa Maria; Ranestad, Kristian, eds.  
Projective Varieties with Unexpected Properties; Berlin, Germany, Walter de Gruyter, 2005. (Mathematics)
Harter, Lynn M.; Japp, Phyllis M.; Beck, Christina S., eds.  

Hayden, F. Gregory  

Homestead, Melissa J.  
American Women Authors and Literary Property, 1822-1869; New York, N.Y., Cambridge University Press, 2005. (English)

Janovy, Karen O.  
Sculpture from the Sheldon Memorial Art Gallery; Lincoln, Neb., University of Nebraska Press, 2005. (Sheldon Memorial Art Gallery and Sculpture Garden)

Japp, Phyllis M.; Meister, Mark; Japp, Debra M., eds.  

Johnsgard, Paul A.  
Prairie Dog Empire: A Saga of the Shortgrass Prairie; Lincoln, Neb., University of Nebraska Press, 2005. (Biological Sciences)

Kiewra, Kenneth  
Learn How to Study and SOAR to Success; Upper Saddle River, N.J., Pearson Prentice Hall, 2005. (Educational Psychology)

Kooser, Ted  
The Poetry Home Repair Manual: Practical Advice for Beginning Poets; Lincoln, Neb., University of Nebraska Press, 2005. (English)

Kostelnik, Marjorie J.; Whiren, Alice Phipps; Soderman, Anne K.; Stein, Laura C.; Gregory, Kara  
Guiding Children’s Social Development: Theory to Practice; Singapore, Thomson Learning Asia, 2005. (Education and Human Sciences)

Lee, Sang M.; Olson, David L.  
Introduction to Management Science, 2nd Edition; Cincinnati, Ohio, Thomson Learning, 2005. (Management)

Lepard, Brian  

Luebke, Frederick C.  
Nebraska: An Illustrated History, 2nd Edition; Lincoln, Neb., University of Nebraska Press, 2005. (History)

Luthans, Fred  
Lynch, Thomas P., ed.  
*El Lobo: Readings on the Mexican Gray Wolf*; Salt Lake City, Utah, University of Utah Press, 2005. (English)

MacPhee, Craig  

Moshman, Dave  

Nisse, Ruth  
*Defining Acts: Drama and the Politics of Interpretation in Late Medieval England*; Notre Dame, Ind., University of Notre Dame Press, 2005. (English)

Olson, David L.; Evans, James R.  

Owomoyela, Oyekan  
*Yoruba Proverbs*; Lincoln, Neb., University of Nebraska Press, 2005. (English)

Price, Kenneth M.; Folsom, Ed  
*Re-Scripting Walt Whitman: An Introduction to His Life and Work*; Oxford, U.K., Blackwell, 2005. (English)

Pytlik Zillig, Lisa; Bodarsson, M.; Bruning, Roger, eds.  
*Technology-Based Education: Bringing Researchers and Practitioners Together*; Greenwich, Conn., Information Age Publishing, 2005. (Educational Psychology)

Rawley, James A.  

Randolph, Ladette  
*This is Not the Tropics*; Madison, Wis., University of Wisconsin Press, 2005. (University of Nebraska Press)

Sarroub, Loukia K.  

Sayood, Khalid  

Schlegel, Vicki L., ed.  
Process Improvement: A Tool Kit for Healthcare; Lincoln, Neb., Leston Quality Engineering LLC, 2005. (Food Science & Technology)

Schniederjans, Marc J.; Schniederjans, Ashlyn M.; Schniederjans, Dara G.  
Outsourcing and Insourcing in an International Context; Amonk, N.Y., M.E. Sharpe, 2005. (Management)

Scholl, Philip J.; Colwell, D.; Hall, M. J.R., eds.  

Seefeldt, Douglas; Hantman, Jeffrey L.; Onuf, Peter S., eds.  
Across the Continent: Jefferson, Lewis and Clark and the Making of America; Charlottesville, Va., University of Virginia Press, 2005. (History)

Siau, Keng, ed.  

Smith, Victoria A. ed.; Stabler, Hollis D.  

Smith, Kevin  
Governing States and Localities; Washington, D.C., CQ Press, 2005. (Political Science)

Taylor, Stephen L., ed.  
Advances in Food & Nutrition Research, Volume 49; San Diego, Calif., Elsevier/Academic Press, 2005. (Food Science & Technology)

Waldren, Richard P.; Martin, John H.; Stamp, David L.  

Walstad, William B.; Brue, Stanley L.; McConnell, Campbell R.  

Wilhite, Donald A.; Botterill, Linda Courtenay, eds.  
From Disaster Response to Risk Management: Australia’s National Drought Policy; Dordrecht, The Netherlands, Springer, 2005. (School of Natural Resources)

Wilhite, Donald A., ed.  
Drought and Water Crises: Science, Technology, and Management Issues; Boca Raton, Fla., CRC Press, 2005. (School of Natural Resources)
Yang, Jiashi

Zempleni, Janos; Dakshinamurti, Krishnamurti, eds.
Nutrients and Cell Signaling; New York, N.Y., Marcel Dekker, 2005. (Nutritional Science & Dietetics)
2005 RECOGNITIONS AND HONORS
Faculty who have been elected to or who have received national or international honors.

Braake, Myron, Plant Pathology (Emeritus)
National Academy of Science Membership

Kooser, Ted, English
2005 Pulitzer Prize for Poetry for *Delights and Shadows*, Copper Canyon, 2004
U.S. Poet Laureate Consultant in Poetry to the Library of Congress

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

Van Etten, James, Plant Pathology
National Academy of Science Membership

Abbott, Douglas, A., Family & Consumer Sciences
Fulbright Scholar, Israel

Adams, Stephanie, Industrial and Management Systems Engineering
American Association for the Advancement of Science/National Science Foundation, Science and Engineering Policy Fellow

Alfano, James R., Plant Pathology
American Phytopathological Society, Syngenta Award

Anderson, John, Economics
President’s Council of Economic Advisers, Senior Economist

Ball, A. Dwayne, Marketing
Fulbright Senior Specialist, Portugal

Ballard, John, Industrial and Management Systems Engineering
American Society for Engineering Education, Vice President, National Board

Barger, Diane C., School of Music
International Clarinet Association, Treasurer

Behrendt, Stephen C., English
Keats-Shelley Association of America, Distinguished Scholar Award in the Field of Romanticism for 2005

Bell, Lloyd, Agricultural Leadership, Education and Communication
American Association for Agricultural Education - North Central Region, Outstanding Educator

Berryman, Chuck, Construction Management
National Association of Home Builders, National Educator of the Year
Brumm, Michael C. Animal Science
National Hog Farmer, one of the Top 50 Men and Women Who Truly Made A Difference in the U.S. Pork Industry in the Last 50 Years

Burnett, Amy History
TIAA-CREF Institute, Theodore M. Hesburgh Award Certificate of Excellence

Cahan, David History
Dibner Institute for the History of Science and Technology, Massachusetts Institute of Technology, Senior Fellowship
National Science Foundation, Fellowship

Cassman, Kenneth, G. Agronomy and Horticulture
American Association for the Advancement of Science, Fellow

Christenson, Ron Animal Science
American Society of Animal Science, Research Fellow

Coble, Parks History
University of Nebraska Outstanding Research and Creative Activity Award

Crawford, Sidnie W. Classics and Religious Studies
Center of Theological Inquiry, Member

Creswell, John Educational Psychology
Sage Publications Outstanding Sales Award, Research Design: Qualitative, Quantitative, and Mixed Methods, 2nd ed.

Crews, Patricia, C. Textiles, Clothing & Design
International Textiles and Apparel Association, Distinguished Scholar Award

Dahab, Mohamed Civil Engineering
Water Environment Federation, President-Elect

Daly, Ed Educational Psychology
American Psychological Association Division 16 Fellow

Day, Jeffrey Architecture
American Institute of Architects Nebraska—Citation, Design Award for Burt Pool House and Office Research
American Institute of Architects Nebraska, Design Award for Art Farm Red Barn

DeFrain, John D. Family and Consumer Sciences
Phi Beta Delta Honor Society for International Scholars, Installation Certificate

Dixon, Wheeler W. English
Peter C. Rollins Annual Book Award for Lost in the Fifties: Recovering Phantom Hollywood, Southern Illinois Press, 2005

Dowben, Peter A. Physics and Astronomy
American Physical Society, Fellow
Ellis, Marion D. 
Entomology
American Association of Professional Apiculturists, President
Eastern Apiculture Society of North America, Roger A. Morse
Outstanding Teaching and Extension Award

Engen-Wedin, Nancy G. 
Lied Center for Performing Arts
Teaching, Learning and Teacher Education
John F. Kennedy Center for the Performing Arts, National Advisory Committee Partners in Education Program

Espy, Kimberly Andrews 
Psychology
Associate Vice Chancellor for Research
American Psychological Association, Division 40, Early Career Award
American Psychological Association, Fellow

Ferguson, Richard B. 
Agronomy and Horticulture
Soil Science Society of America Nutrient Management and Soil and Plant Analysis Division, Chair-elect

Fielding, Christopher 
Geosciences
Geological Society of Australia, Dorothy Hill Medal

Fischer, Bruce 
Construction Management
Associated Schools of Construction, National Teaching Award

Ford, Chris 
Architecture
American Institute of Architects Western Mountain Region and Southern Arizona, Design Award Citation for Barrio Metalico
American Institute of Architects Western Mountain Region and Southern Arizona, Design Award Merit and Honor for Ice House Lofts

Foster, Edward Terence 
Construction Systems
National Society of Professional Engineers for Practice Divisions, National Vice President

Fox, Marilyn; Team Leader 
Extension
Florence T. Hall Award for the Building Nebraska Families Program, National Extension Association of Family and Consumer Sciences

Francis, Charles, A. 
Agronomy and Horticulture
American Association for the Advancement of Science, Fellow

Franti, Tom 
Biological Systems Engineering
American Society of Agricultural Engineers, Educational Aids Competition Blue Ribbon, Planning Your Riparian Buffer: Design and Plant Selection and Installing Your Riparian Buffer: Tree and Grass Planting, Postplanting Care and Maintenance

Fuess, Scott M. 
Economics
Institute For The Study of Labor, Bonn, Germany, Research Fellow
Gaussoin, Roch E.  
Agronomy and Horticulture  
American Society of Agronomy, Fellow  
Crop Science Society of America Turfgrass Science Division,  
Elected Chair-Elect

Goodburn, Amy  
English  
TIAA-CREF Institute, Theodore M. Hesburgh Award Certificate of  
Excellence

Graybill, Andrew R.  
History  
Western History Association, Bolton-Kinnaird Award

Harkness, Janet A.  
English, Gallup Research Center  
European Union, Descartes Prize

Heemstra, Jill  
Biological Systems Engineering

Koelsch, Richard  
American Society of Agricultural Engineers, Educational Aids  
Competition Blue Ribbon, Poultry EMS Project

Henneman, Alice C.  
Extension  
Tufts University, “Among the Best” rating from Tufts University,  
Nutrition Navigator-A Rating Guide to Nutrition Web Sites

Houser, Kevin W.  
Architectural Engineering  
Leon Gaster Award, Chartered Institution of Building Services  
Engineers  
Taylor Technical Talent Award, Illuminating Engineering Society of  
North America

Klein, Robert N.  
Agronomy and Horticulture  
American Society of Agronomy, Elected Representative, Board of  
Directors, Extension Education Division

Klopfenstein, Terry  
Animal Science  
American Society of Animal Science, Distinguished Teaching Award

Koelsch, Richard K.  
Animal Science,  
Biological Systems Engineering  
American Society of Agricultural Engineers, G.B. Gunlogson  
Countryside Engineering Award

Kranz, Bill  
Biological Systems Engineering

Watts, Darrell  
Yonts, Dean  
American Society of Agricultural Engineers, Educational Aids  
Competition Blue Ribbon, Assuring Efficient Center Pivot Irrigation

Leung, Kam  
Physics and Astronomy  
Academia Sinica, Republic of China, Institute of Astronomy and  
Astrophysics, Visiting Fellow

Levin, Carole  
History  
Rare Books and Manuscripts Section, Association of College  
and Research Libraries, Katharine Kyes Leab and Daniel J. Leab  
Exhibition Catalogue Award, Elizabeth I: Ruler and Legend
RECOGNITIONS AND HONORS

Levis, Donald G. Animal Science
National Hog Farmer, one of the Top 50 Men and Women Who Truly Made A Difference in the U.S. Pork Industry in the Last 50 Years

Lindgren, Dale T. Agronomy and Horticulture
American Penstemon Society, The Glenn Viehmeyer Award

Lou, Marjorie F. Veterinary and Biomedical Sciences
International Society for Eye Research, Elected Committee Chair
National Foundation for Eye Research, Board of Trustees
Zhejiang University, Hangzhou, China, Kwan-Biao Zhao
Distinguished Professor

Lyon, Drew J. Agronomy and Horticulture
American Society of Agronomy, Fellow

Mahoney, Timothy R. History
Fulbright Scholar, Poland

Martin, Derrel Biological Systems Engineering
Irmak, Suat
Yonts, Dean
Payero, Jose
Bureau of Reclamation Commissioner’s Water Conservation Award

McLaughlin, William Chemistry
University of Nebraska Outstanding Teaching and Instructional Creativity Award

Medill, Colleen E. Law
American Law Institute, Elected Member

Morris, Jack Biological Sciences
American Phytopathological Society, Ruth Allen Award

Nelson, Darrell W. Agronomy and Horticulture
American Society of Agronomy, Agronomic Service Award

Newman, Ian Educational Psychology
U.S. Department of Education Office of Safe and Drug-Free Schools and Communities, National Programs/Drug and Alcohol Models on College Campuses

Niemeyer, Shirley M. Textiles, Clothing & Design
National Extension Association of Family & Consumer Sciences, National Extension Housing Outreach Award

Nisse, Ruth English
National Humanities Center, Fellow

Nowak, Andrzej, S. Civil Engineering
Warsaw University of Technology, Warsaw, Poland, Medal Politechniki Warszawskiej

Olds, Marshall Modern Languages and Literatures
Academicques Palmes de France, Knight
Osorio, Fernando A. Veterinary and Biomedical Sciences
Pig Improvement Corporation, Ensminger International School on Swine Diseases, International Veterinary Advisory Board
Porcine Reproductive & Respiratory Syndrome Virus Eradication Campaign Adviser

Poser, Susan Law
American Law Institute, Elected Member

Rajurkar, Kamlakar Industrial and Management Systems Engineering
American Society of Mechanical Engineering, Vice President

Ramamurthy, Byravamurthy Computer Science and Engineering
Institute of Electrical and Electronics Engineers, Secretary, Optical Networking Technical Committee

Reichenbach, Stephen Computer Science and Engineering
Applied Information Management Institute, Technology Professor of the Year

Revesz, Peter Z. Computer Science and Engineering
Alexander von Humboldt Foundation, Alexander von Humboldt Research Fellowship

Rieke, Reuben Chemistry
University of Minnesota, Outstanding Achievement Award

Rush, Ivan Animal Science
American Society of Animal Science, Extension Award

Sarroub, Loukia K. Teaching, Learning and Teacher Education
National Reading Conference, 2005 Edward B. Fry Book Award For Outstanding Contributions to Literacy Research and Practice

Saskova-Pierce, Mila Modern Languages and Literatures
President of the Czech Republic, Gratias Agit Award, Czech Komensky Club

Savory, Paul A. Industrial and Management Systems Engineering
TIAA-CREF Institute, Theodore M. Hesburgh Award Certificate of Excellence

Seefeldt, Douglas History
Huntington Library, Los Angeles Corral of Westerners Research Fellowship

Shapiro, Charles A. Agronomy and Horticulture
American Society of Agronomy, Fellow

Shearman, Robert C. Agronomy and Horticulture
United States Golf Association, Green Section Award
Sheridan, Susan  
**Educational Psychology**, Nebraska Center for Research on Children, Youth, Families and Schools  
National Association of School Psychologists Presidential Award

Siau, Keng  
**Management**  
Association for Information Systems Special Interest Group on Systems Analysis and Design, Advisory Board Member  
Information Resources Management Association, Outstanding Leader Award

Snow, Gregory  
**Physics and Astronomy**  
American Physical Society, Fellow

Soukup, Rodney J.  
**Electrical Engineering**  
Institute of Electrical and Electronic Engineers, Meritorious Service Award

Starace, Anthony  
**Physics and Astronomy**  
University of Nebraska Outstanding Research and Creative Activity Award

Steadman, James R.  
**Plant Pathology**  
Alpha Phi chapter of the Phi Delta Honor Society for International Scholars  
American Phytopathological Society, International Service Award  
Caribbean Division of the American Phytopathological Society Frederick L. Wellman Award

Tadros, Maher  
**Civil Engineering**  
Prestressed Concrete Institute, Titan of the Industry

Teo, Sharon M.  
Johnny Carson School of Theatre and Film  
Endacott, Richard  
Johnny Carson School of Theatre and Film  
Oliva, Giacomo  
Hixson-Lied College of Fine & Performing Arts  
Fairfield, Terry  
University of Nebraska Foundation  
Andersen, Kathe  
Hixson-Lied College of Fine & Performing Arts  
Buntain Comine, Lucy  
University of Nebraska Foundation  
Rodriguez, Sarah W.  
University of Nebraska Foundation  
Council for Advancement and Support of Education, Grand  
Gold Medal and Gold Medal Award for Overall Excellence In Fundraising Programs: Technology Applications

Turner, Harriet, S.  
**Modern Languages**  
Martinez, Adelaida  
**Literatures**  
Choice magazine, Outstanding Academic Title, *The Cambridge Companion to the Spanish Novel from 1600 to the Present*

UNL for Families Extension Team  
**Extension**  
Annie E. Casey Foundation, 4-H Families Count: Annie E. Casey Family Strengthening Award

Van Vleck, L. Dale  
**Animal Science**  
American Society of Animal Science, Morrison Award
Velander, William H. Chemical and Biomolecular Engineering
Society of Vascular Surgery, Resident Research Prize

Walker, Judy L. Mathematics
Mathematical Association of America, Deborah and Franklin
Tepper Haimo Award for Distinguished College or University
Teaching of Mathematics

Wang, Lily M. Architectural Engineering
Acoustical Society of America, R. Bruce Lindsay Award

Wedeman, Andrew H. Political Science
China Quarterly, Gordon White Prize

Weiss, Wendy Textiles, Clothing and Design
Kreimer, Jay
Fiber 2005, Honorable Mention, Textile and Sound Environment

Wentz, Timothy Construction Management
Mechanical Contractors Association of America, National
Educator of the Year

Wishart, David Anthropology and Geography
American Library Association, Outstanding Reference Source,
Encyclopedia of the Great Plains
Choice magazine, Outstanding Academic Title, Encyclopedia of the
Great Plains

Wristen, Brenda, G. School of Music
American Institute of Physics and Human Factors Society,
Discovery Breakthroughs In Science Award

Yiannaka, Amalia Agricultural Economics
Australian Agricultural and Resource Economics Society and the
American Agricultural Economics Association, Young Professionals
Heading South Award

Yonts, Dean Biological Systems Engineering
Smith, John
American Society of Agricultural Engineers, Educational Aids
Competition Blue Ribbon, Dry Bean Production and Pest
Management

Zempleni, Janos Nutrition and Health Sciences
American Society for Nutrition, Mead Johnson Award 2006

Zeng, Xiao, C. Chemistry
American Physical Society, Fellow
GLOSSARY

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

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
GLOSSARY

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