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
Biochemistry
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
Special Education and Communication Disorders
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 NSF
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 Dept. of Agriculture-RMA-FCIC
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.
Harwood, David  
Geosciences  
$12,978,160  
Levy, Richard  
Geosciences  
6/1/05 – 5/31/10

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.

Lewis, Jim  
Mathematics  
$5,000,000

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.
Meagher, Michael  
Chemical and Biomolecular Engineering  
Process Research & Development of Antibodies as Countermeasures for C. Botulinum Neurotoxin  
$10,627,000  
DOD-Army Medical Research  
3/1/02 – 2/10/07

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.

Sellmyer, David  
Center for Materials Research  
Materials Research Science & Engineering  
Center; Nanomagnetic Structures  
$5,491,000  
NSF  
9/1/02 – 8/31/08

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  Educational Psychology  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.
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.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
<th>Title</th>
<th>Funding Agency</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Banerjee, Ruma</td>
<td>Biochemistry</td>
<td>Cystathionine Beta Synthase &amp; Hyperhomocysteinemia</td>
<td>DHHS-NIH-NHLBI</td>
<td>$1,177,264</td>
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<td>Mechanism of Methylmalonyl-CoAMutase: A Radical Enzyme</td>
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<td>$1,023,449</td>
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<td>Regulation of Homocysteine-dependent Redox Homeostasis</td>
<td>DHHS-NIH-NIDDK</td>
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<td>Buckendahl, Chad</td>
<td>Educational Psychology</td>
<td>Evaluation of the National Assessment of Educational Progress</td>
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<td>Davis, Susan</td>
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<td>Educational Psychology</td>
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<td>Caldwell, Robert</td>
<td>School of Natural Resources</td>
<td>Thematic Soil Mapping for Site-Specific Management</td>
<td>Dept. of Agriculture-IAFS</td>
<td>$1,025,000</td>
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<td>Adamchuk, Viacheslav</td>
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<td>Agronomy and Horticulture</td>
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<td>Ferguson, Richard</td>
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<td>Biological Systems Engineering</td>
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<td>Cerutti, Heriberto</td>
<td>Plant Science Initiative</td>
<td>* RNA-Mediated Silencing: Mechanisms and Biological Roles in Chlamydomonas</td>
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<td>$1,042,852</td>
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<td>Chen, Bing</td>
<td>School of Engineering Technology</td>
<td>* SPIRIT: Silicon Prairie Initiative on Robotics in IT</td>
<td>NSF</td>
<td>$1,170,488</td>
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<td>Cotton, Dan</td>
<td>Communications and Information Technology</td>
<td>National E-Extension Project</td>
<td>National Association of State Universities and Land Grant Colleges</td>
<td>$2,570,000</td>
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<td>Diamond, Judy</td>
<td>University of Nebraska State Museum</td>
<td>Explore Evolution</td>
<td>NSF</td>
<td>$2,851,409</td>
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<td>Doll, Elizabeth</td>
<td>Educational Psychology</td>
<td>* Inspiring Inquiry: Science Instruction Model for Teachers in Rural, Culturally Diverse Schools</td>
<td>Dept. of Education</td>
<td>$1,261,684</td>
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<td>Bruning, Roger</td>
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<td>Teaching, Learning and Teacher Education</td>
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<td>Dzenis, Yuris</td>
<td>Engineering Mechanics</td>
<td>NIRT: Manufacturing of Novel Continuous Nanocrystalline Ceramic Nanofibers</td>
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<td>Zeng, Xiao Cheng</td>
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<td>Eccarius, Malinda</td>
<td>Special Education and Communication Disorders</td>
<td>Mountain-Prairie Upgrade Partnership</td>
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<td>Nebraska Native American Career Ladder Project</td>
<td>$1,164,735</td>
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<td>Faller, Ronald</td>
<td>Civil Engineering</td>
<td>Evaluation &amp; Field Installation of Steel Tube &amp; Foam Energy Reduction (SAFER) Barrier</td>
<td>$1,045,913</td>
<td>Indianapolis Racing League</td>
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<td>Farritor, Shane</td>
<td>Mechanical Engineering</td>
<td>Track Stability Assessment &amp; Data Transmission</td>
<td>$1,190,000</td>
<td>Dept. of Transportation-FRA</td>
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<td>Jones, Elizabeth</td>
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<td>Khattak, Aemal</td>
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<td>Biotechnology</td>
<td>Metabolite Signaling Center</td>
<td>$2,635,898</td>
<td>NSF-EPSCoR</td>
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<td>Gladyshev, Vadim</td>
<td>Biochemistry</td>
<td>Functions of Mammalian Thioredoxin Reductases</td>
<td>$1,003,492</td>
<td>DHHS-NIH-NIGMS</td>
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<td>Selenoprotein as a Target for Cancer Prevention</td>
<td>$1,188,490</td>
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<td>Methionine Sulfoxide Reduction, Selenium and Aging</td>
<td>$1,256,826</td>
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Goddard, Stephen  
Computer Science and Engineering  
$1,031,914  
NSF

Hayes, Michael  
School of Natural Resources
Deogun, Jitender  
Computer Science and Engineering
Hubbard, Kenneth  
School of Natural Resources
Wilhite, Donald  
School of Natural Resources
Waltman, William  
Computer Science and Engineering
Reichenbach, Stephen  
Computer Science and Engineering
Revesz, Peter  
Computer Science and Engineering

Climate & Soil Risk Information System  
$1,212,056  
Wilhite, Donald  
School of Natural Resources
Hubbard, Kenneth  
School of Natural Resources

Green, Jordan  
Special Education and Communication Disorders  
Early Speech Motor Development  
$1,804,739  
DHHS-NIH-NIDCD

Heusel, Gary  
Student Involvement  
Midwest Consortium for Service-Learning in Higher Education  
$1,105,041  
Corporation for National Service

Hoagland, Kyle  
School of Natural Resources  
* DNR Ground Water Management and Protection Act Service Agreement  
$1,500,000  
Nebraska Dept. Natural Resources

Hubbard, Kenneth  
School of Natural Resources  
Services of the NOAA Regional Climate Centers  
$1,824,032  
Dept. of Commerce-NOAA

Jones, Vicky  
Northeast Research & Extension Center  
Northeast Nebraska Paraprofessional Ladder Project  
$1,976,000  
Dept. of Education
Lopez, William  
Teaching, Learning and Teacher Education

Jose, H. Douglas  
Agricultural Economics  
North Central Risk Management Education Center  
$2,400,000  
Dept. of Agriculture-CSREES

Josiah, Scott  
NE State Forest Service  
Cooperative Forestry Program  
$1,322,016  
Dept. of Agriculture-FS

Kamil, Alan  
Biological Sciences  
Landmarks, Bearings and Way-Finding  
$1,338,934  
DHHS-NIH-NIMH
Mechanisms of Visual Search and Attention  
$1,029,062  
DHHS-NIH-NIMH
Bond, Alan  
Biological Sciences

12
Koszewski, Wanda Nutrition and Health Sciences Building Nebraska Families $2,226,983 Ne Dept. Health & Human Serv IANR-Cooperative Ext Nutrition and Health Sciences Nutrition Education Program $1,240,527 Ne Dept. Health & Human Serv IANR Cooperative Extension 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 GK-12: Project FULCRUM-Building Partnerships $1,572,817 NSF Teaching, Learning and Teacher Education $1,987,732 NSF Track 2, GK-12: Project Fulcrum: Phase II

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 Mechanical Engineering

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 Food Science and Technology $2,877,000 DOD-Army Space and Missile Defense Command Therapeutic Agents & Vaccines against Biological Warfare $2,155,900 DOD-Army Medical Research Food Science and Technology

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
Paul, Prem  
For the Department of Chemistry

Establishment of Functional Genomics for Medicinal Chemistry Facility II

$2,000,000  
DHHS-NIH-NCRR

Establishment of Functional Genomics for Medicinal Chemistry Facility II

$1,991,060  
DHHS-NIH-NCRR

Ragsdale, Stephen  
Biochemistry

Enzymology of Reductive Acetyl-CoA Pathway

$1,235,700  
DHHS-NIH-NIGMS

Sheridan, Susan  
Center on Children, Youth, Families and Schools

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

$1,368,067  
Dept. of Education

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

Simpson, Melanie  
Biochemistry

* Role of Hyaluronan Matrix in Prostate Cancer Progression

$1,084,090  
DHHS-NIH-Nat Cancer Institute

Snow, Greg  
Physics and Astronomy

The Cosmic Ray Observatory Project

$1,374,005  
NSF

Claes, Daniel  
Physics and Astronomy

Van Etten, James  
Plant Pathology

DNA Replication & Gene Expression of Chlorella Viruses

$1,255,600  
DHHS-NIH-NIGMS

Dunigan, David  
Plant Pathology

Kang, Ming  
Plant Pathology

Zhang, Yuanzheng  
Plant Pathology

Agarkova, Irina  
Plant Pathology

Gurnon, James  
Plant Pathology

Verma, Shashi  
School of Natural Resources

Great Plains Regional Center for Global Environmental Change

$2,214,769  
Dept. of Energy/NIGEC

Carbon Sequestration in Agriculture

$1,139,462  
Kansas State University

Knops, Johannes  
Biological Sciences

Walker, Judy  
Mathematics

EMSW21-MCTP: Nebraska Mentoring through Critical Transition Points

$2,500,000  
NSF

Marley, Tom  
Mathematics

Wedin, David  
School of Natural Resources

Sand Hills Biocomplexity: Integrating Biogeophysical Processes Across Space and Time

$1,794,730  
NSF

Loope, David  
Geosciences

$1 MILLION — $2,999,999
Weeks, Donald  
* Development of Dicamba-Resistant Crops  
$2,500,000  
Monsanto Co.

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

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

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

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

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

Wood, Charles  
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  
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  
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
### Awards of $200,000 - $999,999

**Active awards in 2005**

* Indicates new in 2005

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<td>Abdelrahman, Magdy</td>
<td>Civil Engineering</td>
<td>Restricted-Zone Requirements for Superpave Mixes Made with Local Aggregate Sources in Nebraska</td>
<td>Ne Dept. Roads</td>
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<td>Yakel, Aaron Material Selection &amp; Design Consideration for Moisture Damage of Asphalt Pavement</td>
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<td>Physics and Astronomy</td>
<td>Nanoscale Structural Engineering of Ferroelectric Polymers</td>
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<td>* Low-Cost Energy Dissipation at Culvert Exits</td>
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<td>Nutrition and Health Sciences</td>
<td>Entrepreneurial Center Development for Food &amp; Textile Small Scale Business in Tajikistan</td>
<td>Dept. of State-BECA</td>
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<td>Ultra-Short Laser Pulse Propagation</td>
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<td>Functional Genomics of the Interactions of Tomato &amp; Pseudomonas Syringae</td>
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<td>Isolation &amp; Characterization of Pseudomonas Type III Effectors that Suppress Programmed Cell Death in Eukaryotes</td>
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<td>Chaperones of the Type III Protein Secretion System of Pseudomonas Syringae Tomato DC 300</td>
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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  
Civil Engineering  
Rizos, Dimitri  
Development of Design Tools for Steel Bridge Systems, Simple for Dead Loads & Continuous for Superimposed Dead Load & Live Loads  
$226,306  
Steel Box System Monitoring of N-2 over I-480 Bridge  
$292,244  
IBRC 2002 Project  
$240,000  
Ne Dept. Roads

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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<td>Leadership for Institutional Change</td>
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<td>* Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Programs</td>
<td>Dept. of Agriculture-RMA</td>
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<td>Molecular/Biochemical Investigations of PEPC (and its novel ser/thr-Kinase) and SuSy (Nodulin-100), 2 phosphorylated Metabolic Enzymes in Plants</td>
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Experimental High Energy Physics  
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Snow, Gregory  
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Clemente, Thomas  
**Biotechnology/Plant Science Initiative/Agronomy and Horticulture**  
Agrobacterium-Mediated Genetic Transformation of Wheat & Soybeans  
$345,537  
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**Biotechnology/Plant Science Initiative/Agronomy and Horticulture**  
Agrobacterium-Mediated Genetic Transformation of Wheat & Soybeans  
$345,537  
Snow, Gregory  
**Physics and Astronomy**  

Clemente, Thomas  
**Biotechnology/Plant Science Initiative/Agronomy and Horticulture**  
Agrobacterium-Mediated Genetic Transformation of Wheat & Soybeans  
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**Physics and Astronomy**  

Comfort, Steven  
**School of Natural Resources**  
Field-Scale Demonstrations of Innovative Remediation Techniques for Contaminated Soil and Water  
$994,100  
Costello, Don  
**Computer Science and Engineering**  
GAANN Fellowships for Computer Science & Engineering  
$498,132  
Costello, Don  
**Computer Science and Engineering**  
GAANN Fellowships for Computer Science & Engineering  
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Crockett, Lisa  
**Psychology**  
Ethnicity, Parenting and Adolescent Adjustment  
$387,748  
Crockett, Lisa  
**Psychology**  
Ethnicity, Parenting and Adolescent Adjustment  
$387,748  

Daly, Edward  
**Educational Psychology**  
School Psychology Leadership Specialization in Response-to-Intervention Research & Systems Change  
$800,000  
Daly, Edward  
**Educational Psychology**  
School Psychology Leadership Specialization in Response-to-Intervention Research & Systems Change  
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DeKraai, Mark  
**Public Policy Center**  
Child Mental Health SIG  
$650,000  
DeKraai, Mark  
**Public Policy Center**  
Child Mental Health SIG  
$650,000  

DiMaggio, Stephen  
**Chemistry**  
Hydrogen for Fuel Cells  
$966,000  
DiMaggio, Stephen  
**Chemistry**  
Hydrogen for Fuel Cells  
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Dobermann, Achim  
**Agronomy and Horticulture**  
Harnessing Breakthroughs in Nutrient Management & Information Technology for Greater Profitability in Corn, Soybeans & Dry Beans  
$300,000  
Dobermann, Achim  
**Agronomy and Horticulture**  
Harnessing Breakthroughs in Nutrient Management & Information Technology for Greater Profitability in Corn, Soybeans & Dry Beans  
$300,000  

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$200,000 — $999,999
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  Center for Materials Research  
Robertson, Brian  Center for Materials Research  
Paul, Prem  Vice Chancellor for Research  
Surface Chemistry of Adsorbates on Crystalline Polymers  
$380,000  NSF  

Drummond, Wayne  Architecture  
Neighborhoods in Transition: Community Outreach Partnerships  
$388,914  Dept. of Housing & Urban Devel  
Parsons, Gerald  Agricultural Leadership/Education  
Carranza, Miguel  Sociology  
Cantarero, Rodrigo  Community and Regional Planning  
Waite, Michelle  Chancellor’s Office  
Larrick, Steven  Architecture  
Fritz, Susan  Agricultural Leadership/Education  

Dwyer, Matthew  Computer Science and Engineering  
* Software Model Checking for Embedded Systems  
$212,534  Kansas State University  
Parallel Analysis of Models for Distributed Real-Time Embedded Systems  
$309,613  Kansas State University  
Program Analysis Techniques to Support Dependable RTSJ Applications  
$207,519  NSF  
Elbaum, Sebastian  Computer Science and Engineering  
Goddard, Stephen  Computer Science and Engineering  

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  

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Elbaum, Sebastian  
Computer Science and Engineering  
ITR/SW: Collaborative Research: A New Generation of Scalable, Cost-Effective Regression Testing Techniques  
$251,018  
ITR: Dependable End-User Software  
$211,294  
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Engen-Wedin, Nancy  
Teaching, Learning and Teacher Education  
* Indigenous Roots Teacher Education Program  
$704,730  
McGowan, Thomas  
Teaching, Learning and Teacher Education  
$211,294  
NSF

Epstein, Michael  
Special Education and Communication Disorders  
Leadership Training in Emotional Disturbance Disorders  
$590,854  
Postdoctoral Training in Emotional & Behavioral Disorders  
$471,512  
Early Childhood Mental Health Project  
$716,290  
Randomized Clinical Trial of Wraparound Services for Elementary School Students in School Settings  
$538,266  
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Fabrikant, Ilya  
Physics and Astronomy  
Collision Processes Involving Low-Energy Electrons  
$210,000  
NSF

Farritor, Shane  
Mechanical Engineering  
Track Stability Assessment  
$461,944  
Palmer, Robert  
Electrical Engineering  
$314,167  
NSF

Fritz, Sherilyn  
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Lake Titicaca Drilling Project  
$314,167  
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Fuller, Robert  
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Algebra-Based Physics with Human Applications  
$378,798  
Spiegel, Amy  
Educational Psychology  
$207,488  
Glenn, Kathleen  
Civil Engineering  
$420,107  
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Ganow, Marcella  
Civil Engineering  
* Nebraska ITS Program Support and ITS Architecture Maintenance  
$207,488  
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  
Hosier, Aaron  
Information Services
Gaskell, C. Martin  
Physics and Astronomy  
Variability of Active Galactic Nuclei  
$435,611  
NSF

Gay, Timothy  
Physics and Astronomy  
Polarized Electron Physics  
$652,002  
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Gibson, Robert  
Graduate Assistance in Areas of National Need: Integrating Ecology, Evolution, Geosciences, & Sustainable Natural Resource Management/Agriculture  
$452,850  
Dept. of Education

Ginting, Daniel  
Pollution & Economic Decision Support Tool for Impaired Watershed Management Plans in Eastern Nebraska  
$335,000  
Dept. of Agriculture-CSREES  
Agricultural Economics  
Mamo, Martha  
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Wortman, Charles

Gladyshev, Vadim  
Biochemistry  
Identity of Terminator & Selenocysteine UGA Codons  
$789,237  
DHHS-NIH-NIGMS

Goddard, Stephen  
Computer Science and Engineering  
Energy-Aware CPU & I/O Scheduling for Embedded, Real-Time Systems  
$200,000  
NSF

Graef, George  
Sclerotinia Resistance Enhanced by Accumulation of QTL Transgenic Approaches  
$223,142  
Dept. of Agriculture-ARS  
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Steadman, James

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

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

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<td>* Searle Scholar: Exploring Neural Basis of Complex Behavior in Amblypygids</td>
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Morris, T. Jack  
**Biological Sciences**  
The Role of a Host Protein (TIP) in the Resistance Response of Arabidopsis to Turnip Crinkle Virus Infection  
$360,000  
Dept. of Energy

Moxley, Rodney  
**Veterinary and Biomedical Sciences**  
* Influence of Enterotoxins on Virulence and Colonization of Porcine Intestine by E.coli  
$270,000  
Dept. of Agriculture-NRICGP  
Role of A/E Proteins in E.Coli:O157:H7 in Intestinal Colonization of Adult Cattle  
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Nickerson, Kenneth  
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Structure of Extracellular Quorum Sensing Molecules from Dimorphic Fungi  
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Atkin, Audrey  
Dussault, Patrick

Noureddini, Hossein  
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* Reduction of Phosphorus from Ethanol By-Product used as Livestock Feed  
$210,781  
Nebraska Corn Board

Orr, John  
**Mathematics**  
Assessment of Student Achievement in Undergraduate Education (ASA)  
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Jones, C. Edward  
Lindsley-Griffin, Nancy  
Lee, Kevin  
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Evolution of Advanced Electronic Educational Support Material  
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Brownstone Research Group

Orti, Guillermo  
**Biological Sciences**  
* RCN: DeepFin will Advance the Phylogeny of “Fishes”  
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Pattnaik, Asit  
**Veterinary and Biomedical Sciences**  
Analyses of Virulence & Attenuation Determinants of PRRSV using Reverse Genetics  
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VSV RNA Transcription and Replication  
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Peters, Ed  
**School of Natural Resources**  
Ecology & Management of Pallid Sturgeon & Sturgeon in the Lower Platte River  
$572,260  
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Platte River Fisheries Research  
$701,000  
Ne Game & Parks Commission  
Nebraska Statewide Stream Inventory  
$329,967  
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Pilson, Diana
* Transgenic Virus Resistant Squash: Ecological Effect
$314,877
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Ragsdale, Stephen
* Enzymology of Methanogenesis: Mechanism of Methyl-Coenzyme M Reductase
$280,000
Biochemistry
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Rajca, Andrzej
Organic Polymers with Magneto-Dielectric Properties
$308,608
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Ducharme, Stephen
Physics & Astronomy
Very High-Spin Polyradicals & Chiral Pi-Conjugated Systems
$555,000
NSF

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

Ramamurthy, Byrav
Secure Group Communication over Wired & Wireless Networks
$349,990
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Varyam, Vinod
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Ratcliffe, Brett
A Faunistic Survey of the Dynastinae of Honduras, Nicaragua & El Salvador
$342,842
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Redepenning, Jody
* Chemically Modified Nano-Electrodes for Magnetoelectronics Applications
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Doudin, Bernard
Center for Materials Research
Binek, Christian
Physics and Astronomy
Sokolov, Andrei
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Reichenbach, Stephen
SEI: Information Modeling for Comparative Visualizations & Analyses
$351,428
NSF

Reid, John
Investigating the Use of Small Diameter Softwood as Guardrail Posts
$280,000
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Faller, Ronald
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Rilett, Laurence  
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* Development of State of the Art Traffic Micro-Simulation Model for Nebraska  
$222,896  
Jones, Elizabeth  
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Robertson, Brian  
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Development of a Novel Inorganic Dielectric Barrier Layer for Magneto-Resistive Junctions  
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Doudin, Bernard  
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Dowben, Peter  
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Rohde, John  
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Midwest States Regional Pooled Fund Program-Yr 15  
$545,000  
Sicking, Dean  
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Reid, John  
Mechanical Engineering  
Faller, Ron  
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Rothermel, Gregg  
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* CRI: Community Resource to Support Controlled Experimentation with Program Analysis and Testing Techniques  
$874,636  
Elbaum, Sebastian  
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Dwyer, Matthew  
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Samal, Ashok  
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Intelligent Joint Evolution of Data & Information: An Integrated Framework for Drought Monitoring & Mitigation  
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Hayes, Michael  
School of Natural Resources  
Hubbard, Kenneth  
School of Natural Resources  
Soh, Leen-Kiat  
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Svoboda, Mark  
School of Natural Resources  
Waltman, William  
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Wilhite, Donald  
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Saraf, Ravi  
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* 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  

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Scheffler, Marilyn  Special Education and Communication Disorders
Project PROMOTE
$797,184  Dept. of Education

Sanger, Dixie  Special Education and Communication Disorders
Project Support: Speech-Language Pathologists Supporting Literacy Instruction
$800,000  Dept. of Education

Selley, Roger  Agricultural Economics  Nebraska AgrAbility
$597,720  Dept. of Agriculture-CSREES

Sellmyer, David  Physics and Astronomy
Acquisition of an X-Ray Diffractometer for Nanoscale Materials Research & Education
$252,000  NSF

Shank, Nancy  Public Policy Center  Bridging the Gap: Information & Referral Database Interoperability
$600,000  Dept. of Commerce-NTIA

Shapiro, Charles  Northeast Research and Extension Center
* Improving Organic Farming Systems across Nebraska Agroecosystems
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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
$800,000  Dept. of Education

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

Sicking, Dean  Civil Engineering  Identification of Vehicular Impact Conditions Associated with Serious Run-Off-Road Crashes
$634,521  Natl Coop Hwy Rsch Prog
Khattak, Aemal  Civil Engineering
Jones, Elizabeth  Civil Engineering

Improved Procedures for Safety Performance Evaluation of Roadside Features
$833,940  Natl Coop Hwy Rsch Prog
Reid, John  Mechanical Engineering
Rohde, John  Civil Engineering
Faller, Ronald  Civil Engineering

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Siegfried, Blair  
Population Genetics & Molecular Mechanisms of Resistant Western Corn Rootworms  
$264,000  
Wright, Robert  
Meinke, Lance  
Dept. of Agriculture-CSREES  
Entomology  
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  
Ramamurthy, Byrav  
Seth, Sharad  
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Computer Science and Engineering  
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  
Animal Science  
Veterinary and Biomedical Sciences  
Veterinary and Biomedical Sciences  
Ianno, Natale  
Electrical Engineering

Soukup, Rodney  
Electrical Engineering  
Electronic Devices of Germanium Carbide  
$270,000  
NSF  
Lano, 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  
Agronomy and Horticulture  
Graef, George

Spreitzer, Robert  
Biochemistry  
Role of the Rubisco Small Subunit  
$618,000  
Dept. of Energy
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<th>Name</th>
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<td>Srisa-an, Witawas</td>
<td>Computer Science and Engineering</td>
<td>Building Scalable &amp; Adaptive Garbage Collector for Server Systems</td>
<td>$281,000 NSF</td>
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<td>Dynamics of Few-Body Atomic Processes</td>
<td>$996,337 Dept. of Energy</td>
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<td>Jasmonate Signaling in Plants: Activation of Jasmonic Acid by the JAR 1 Response Locus in Arabidopsis Thaliana</td>
<td>$357,937 NSF</td>
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<td>Bean/Cowpea Collaborative Research Support Program</td>
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<td>High Plains Regional Technology in Education Consortium</td>
<td>$257,005 University of Kansas</td>
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<td>Human Factors in Railway Operation</td>
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<td>Farm Viability, Farmland Preservation and Smart Growth</td>
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<td>Prep Zirconia Aggregates/Adsorbents in Bioseparations</td>
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<td>US CMS Tier 2 Center</td>
<td>$375,000 University of California-Los Angeles</td>
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<td>Novel Cyclization Reactions for Organic Synthesis</td>
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<td>Food Allergen Database</td>
<td>$346,406 Various Industries</td>
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<td>Midwest Advanced Food Manufacturing Alliance</td>
<td>$488,921 Dept. of Agriculture-CSREES</td>
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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  
Wang, Lijun  
Biological Systems Engineering  
Weller, Curtis  
Animal Science  
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

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

Varyiam, Vinod  
Computer Science and Engineering  
Studies in Computational Complexity Theory  
$200,000  
NSF
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<td>Verma, Shashi</td>
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<td>Carbon Sequestration in Dryland &amp; Irrigated Agroecosystems</td>
<td>$900,000</td>
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<td>Hubbard, Kenneth</td>
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<td>Vidaver, Anne</td>
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<td>Molecular Characterization of Clavibacter iranicus &amp; Related Species</td>
<td>$318,742</td>
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<td>Viljoen, Hendrik</td>
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<td>Multi-Scale Study of Solid Phase Reactions</td>
<td>$275,030</td>
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<td>Wagner, William</td>
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<td>* Communication of Direct Mating Benefits to Females</td>
<td>$295,283</td>
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<td>Walstad, William</td>
<td>Economics</td>
<td>Interactive Teaching in Undergraduate Economic Courses</td>
<td>$674,928</td>
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<td>Wang, Jun</td>
<td>Computer Science and Engineering</td>
<td>* CSR-PDOS: Energy-Efficient, High-Performance Storage Array Systems</td>
<td>$260,000</td>
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<td>Wang, Xinwei</td>
<td>Mechanical Engineering</td>
<td>* Sub-Surface Structural Damages in Laser-Assisted Surface Nanostructuring</td>
<td>$249,999</td>
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<td>Phenotype Screens for Bone Marrow Failure</td>
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<td>Baylor College of Medicine</td>
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$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  
$338,800  Dept. of Agriculture-NRICGP  
Carr, Timothy  Nutrition and Health Sciences  
Schlegel, Vicki  Food Science and Technology  
Cuppett, Susan  Food Science and Technology  
Hwang, Keum Taek  Industrial Ag Products Center  
Wang, Lijun  Biological Systems Engineering  

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  Sociology  
Whitbeck, Les  Sociology  
Godfrey, Joyzelle  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  Mathematics  
Walker, Judy  Mathematics  
Walker, Mark  Mathematics  

$200,000 — $999,999
Wiener, Richard  Psychology  
* REU Site: Psychology and Law  
$269,280  NSF
* Jury Bias in Criminal Cases: Sexual Assault, Homicide and Generic Prejudice  
$233,883  NSF

Wilcox, Brian  Center on Children, Families and the Law  
Community Context of Rural & Urban Child Neglect  
$560,767  Pennsylvania State University
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  
Drought Monitoring, Planning & Mitigation  
$495,371  Dept. of Agriculture-CSREES
Mitigation & Preparedness Technologies for the US  
$384,819  Dept. of Agriculture-CSREES

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

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

Woodward, Gordon  Mathematics  
Increasing Participation in Computer Science, Engineering, & Mathematics through NSF Scholarships at the University of Nebraska–Lincoln  
$400,000  NSF
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  
“Greek Revolution”: Enabling Cultural Change in UNL Greek Life  
$293,936  Dept. of Education
Wortmann, Charles  
**Agronomy/Horticulture**

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

$235,839  
Erickson, Galen  
Schulte, Dennis  
Franti, Tom  
Jose, H. Douglas  
Nebraska Corn Board  
Animal Science  
Biological Systems Engineering  
Biological Systems Engineering  
Agricultural Economics

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

Nebraska Partnership for American History Education

$684,815  
Erickson, Galen  
Schulte, Dennis  
Franti, Tom  
Jose, H. Douglas  
Nebraska Corn Board  
Animal Science  
Biological Systems Engineering  
Biological Systems Engineering  
Agricultural Economics

Yamamoto, Catherine  
**Student Affairs**

Upward Bound–Lincoln

$938,496  
$891,664  
Upward Bound Math/Science Project  
Dept. of Education  
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  
Diester, Dennis  
Feng, Ruqiang  
Agronomy and Horticulture  
Engineering Mechanics  
ITR: Multiscale Treatment of Systems with Strong Heterogeneities  
$715,121  
Diester, Dennis  
Feng, Ruqiang  
Agronomy and Horticulture  
Engineering Mechanics

Zera, Anthony  
**Biological Sciences**

* Enzymatic and Molecular Bases of Trade-Offs in Lipid Metabolism that Underlie Life History Trade-Off

$417,682  
Harshman, Lawrence  
Biological Sciences  
Morph-Dependent Cyclic JH Titer in a Wing-Polymorphic Insect: Adaptive Significance & Underlying Causes  
$321,626  
Harshman, Lawrence  
Biological Sciences  
Physiological & Molecular Causes of Genetic Variation/Covariation in Endocrine Regulation  
$372,000  
Harshman, Lawrence  
Biological Sciences

Zhang, Luwen  
**Center for Virology**

* Interferon Regulatory Factor 7 and NPC

$398,109  
DHHS-NIH-NIAID
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
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<td>Molecular Systematics of Ray-Finned Fishes</td>
<td>$533,295</td>
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<td>Channel Coding for Satellite and Mobile Communications</td>
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<td>Making Exponential-Time Learning Algorithms Efficient</td>
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<td>Wang, Lily</td>
<td>School of Engineering Technology</td>
<td>Integrating Time-Variant Source Directivity into Architectural Acoustic Auralizations</td>
<td>$389,376</td>
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K Awards
National Institutes of Health K Awards provide support for intensive development experiences in one of the biomedical, behavioral or clinical sciences leading to research independence. Candidates for these awards normally must have a research or health-professional doctorate and postdoctoral research experience at the time of application. The proposed career-development experience must be in a research area new to the applicant and/or one in which an additional supervised research experience will substantially add to the applicant’s research capabilities. Candidates must provide a plan for achieving independent research support by the end of the award, and must be willing to spend a minimum of .75 FTE conducting research and career development during the award three-, four-, or five-year project period.

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<tr>
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<td>Angeletti, Peter</td>
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<td>Maintenance of Human Papilloma Virus Genes</td>
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<td>DiLillo, David</td>
<td>Psychology</td>
<td>Family Functioning of Adults Maltreated as Children</td>
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<td>Tyler, Kimberly</td>
<td>Sociology</td>
<td>Neglect and Abuse Histories Among Homeless Young Adults</td>
<td>$659,525</td>
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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  
David Cahan, Charles Bessey Professor and professor of history, is writing a full-scale, definitive biography of Hermann von Helmholtz (1821-1894), one of the major figures of modern science. The biography will provide a fresh account of Helmholtz’s personal life within the context of his family, schooling and friends, and portray and analyze his working life as a scientist—principally as a physiologist and physicist, but also as a leader in other fields (chemistry, mathematics, psychology and meteorology), all within the context of German science. It will show how he represented the aims, results and image of science to the educated but otherwise non-scientific classes of Europe and America. It also will show the implications of contemporary science that he drew for the fine arts, medicine, industry and society at large. The extensive use of correspondence means the work will be the first new modern biography of Helmholtz as well as one of the most detailed biographies of a scientist ever published.
Kooser, Ted  English
* American Life in Poetry Project
Poetry Foundation
$50,000  1/1/2005 – 1/31/2006
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.

Myers, Thomas  University of Nebraska
State Museum
Omaha Indian Cultural Artifacts & Images:
Online Inventory & Web Site
$218,688  Institute of Museum & Library Services
Dee Ann Allison  Libraries
12/1/01 – 11/30/05
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.

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

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 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.
<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
<th>Project Description</th>
<th>Amount</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Becker, Karen</td>
<td>Music</td>
<td>UNL String Project</td>
<td>$10,000</td>
<td>American String Teachers Assn</td>
</tr>
<tr>
<td>Bleed, Peter</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>Brooke, Robert</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>Dunham, Gary</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>Engen-Wedin, Nancy</td>
<td>Lied Center</td>
<td>Omaha Cultural Arts Project</td>
<td>$45,000</td>
<td>Friends of Lied</td>
</tr>
<tr>
<td>Handa, Rumiko</td>
<td>Architecture</td>
<td>* Spirit of Design: Multidisciplinary, Multimedia Database and Website</td>
<td>$12,000</td>
<td>Graham Foundation - Architecture</td>
</tr>
<tr>
<td>Reynolds, Guy</td>
<td>English</td>
<td>* 10th International Cather Seminar, &quot;Violence, the Arts, and Cather&quot;</td>
<td>$8,600</td>
<td>Nebraska Humanities Council</td>
</tr>
<tr>
<td>Ritchie, George</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>Tomkins, Alan</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>Walter, Katherine</td>
<td>University Libraries</td>
<td>* Quilt Index National Leadership Project</td>
<td>$20,000</td>
<td>Michigan State University Textiles, Clothing and Design Homestead - Broken Bow Microfilming Project (CESU)</td>
</tr>
</tbody>
</table>

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 Psuedo-Noise Sequences
Description: Chaos Based Pseudo-Noise (PN) Sequence Generation
Date: December 27, 2005
No. 6,981,010
Country: United States

Berkowitz, 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: 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 Buffalo grass 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
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.

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

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.

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

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.

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

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; Cilberto, 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
Roll Over Joe Stalin: Struggling with Post-Soviet Reform in the Caucasus; Lincoln, Neb., iUniverse, 2005. (Economics)

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.
All American Yemeni Girls: Being Muslim in a Public School; Philadelphia, Pa., University of Pennsylvania Press, 2005. (Teaching, Learning and Teacher Education)

Sayood, Khalid

Introduction to Data Compression, 3rd Edition; San Fransisco, Calif., Morgan Kaufmann, 2005. (Electrical Engineering)
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*


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*


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
Fox, Amanda
Josiah, Scott
Kucera, Mike
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
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Recognition</th>
</tr>
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<tbody>
<tr>
<td>Gaussoin, Roch E.</td>
<td>Agronomy and Horticulture</td>
<td>American Society of Agronomy, Fellow</td>
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<td></td>
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<td>Crop Science Society of America Turfgrass Science Division, Elected Chair-Elect</td>
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<tr>
<td>Goodburn, Amy</td>
<td>English</td>
<td>TIAA-CREF Institute, Theodore M. Hesburgh Award Certificate of Excellence</td>
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<td>Graybill, Andrew R.</td>
<td>History</td>
<td>Western History Association, Bolton-Kinnaird Award</td>
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<td>Harkness, Janet A.</td>
<td>English, Gallup Research Center</td>
<td>European Union, Descartes Prize</td>
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<tr>
<td>Heemstra, Jill</td>
<td>Biological Systems Engineering</td>
<td>American Society of Agricultural Engineers, Educational Aids Competition Blue Ribbon, Poultry EMS Project</td>
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<tr>
<td>Koelsch, Richard</td>
<td>Biological Systems Engineering</td>
<td>American Society of Agricultural Engineers, G.B. Gunlogson Countryside Engineering Award</td>
</tr>
<tr>
<td>Henneman, Alice C.</td>
<td>Extension</td>
<td>Tufts University, “Among the Best” rating from Tufts University, Nutrition Navigator-A Rating Guide to Nutrition Web Sites</td>
</tr>
<tr>
<td>Houser, Kevin W.</td>
<td>Architectural Engineering</td>
<td>Leon Gaster Award, Chartered Institution of Building Services Engineers</td>
</tr>
<tr>
<td></td>
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<td>Taylor Technical Talent Award, Illuminating Engineering Society of North America</td>
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<td>Klein, Robert N.</td>
<td>Agronomy and Horticulture</td>
<td>American Society of Agronomy, Elected Representative, Board of Directors, Extension Education Division</td>
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<td>Klopfenstein, Terry</td>
<td>Animal Science</td>
<td>American Society of Animal Science, Distinguished Teaching Award</td>
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<td>Koelsch, Richard K.</td>
<td>Animal Science, Biological Systems Engineering</td>
<td>American Society of Agricultural Engineers, G.B. Gunlogson Countryside Engineering Award</td>
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<td>Kranz, Bill</td>
<td>Biological Systems Engineering</td>
<td>American Society of Agricultural Engineers, Educational Aids Competition Blue Ribbon, Assuring Efficient Center Pivot Irrigation</td>
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<td>Watts, Darrell</td>
<td>Biological Systems Engineering</td>
<td>American Society of Agricultural Engineers, Educational Aids Competition Blue Ribbon, Assuring Efficient Center Pivot Irrigation</td>
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<td>Yonts, Dean</td>
<td>Biological Systems Engineering</td>
<td>American Society of Agricultural Engineers, Educational Aids Competition Blue Ribbon, Assuring Efficient Center Pivot Irrigation</td>
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<td>Leung, Kam</td>
<td>Physics and Astronomy</td>
<td>Academia Sinica, Republic of China, Institute of Astronomy and Astrophysics, Visiting Fellow</td>
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<td>Levin, Carole</td>
<td>History</td>
<td>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</td>
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</table>
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
<table>
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<tr>
<th>Name</th>
<th>Field</th>
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<tr>
<td>Osorio, Fernando A.</td>
<td>Veterinary and Biomedical Sciences</td>
<td>Pig Improvement Corporation, Ensminger International School on Swine Diseases, International Veterinary Advisory Board, Porcine Reproductive &amp; Respiratory Syndrome Virus Eradication Campaign Adviser</td>
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<td>Poser, Susan</td>
<td>Law</td>
<td>American Law Institute, Elected Member</td>
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<td>Rajurkar, Kamlakar</td>
<td>Industrial and Management Systems Engineering</td>
<td>American Society of Mechanical Engineering, Vice President</td>
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<td>Ramamurthy, Byravamurthy</td>
<td>Computer Science and Engineering</td>
<td>Institute of Electrical and Electronics Engineers, Secretary, Optical Networking Technical Committee</td>
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<td>Reichenbach, Stephen</td>
<td>Computer Science and Engineering</td>
<td>Applied Information Management Institute, Technology Professor of the Year</td>
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<td>Revesz, Peter Z.</td>
<td>Computer Science and Engineering</td>
<td>Alexander von Humboldt Foundation, Alexander von Humboldt Research Fellowship</td>
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<td>Rieke, Reuben</td>
<td>Chemistry</td>
<td>University of Minnesota, Outstanding Achievement Award</td>
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<td>Rush, Ivan</td>
<td>Animal Science</td>
<td>American Society of Animal Science, Extension Award</td>
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<td>Sarroub, Loukia K.</td>
<td>Teaching, Learning and Teacher Education</td>
<td>National Reading Conference, 2005 Edward B. Fry Book Award For Outstanding Contributions to Literacy Research and Practice</td>
</tr>
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<td>Saskova-Pierce, Mila</td>
<td>Modern Languages and Literatures</td>
<td>President of the Czech Republic, Gratias Agit Award, Czech Komensky Club</td>
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<td>Savory, Paul A.</td>
<td>Industrial and Management Systems Engineering</td>
<td>TIAA-CREF Institute, Theodore M. Hesburgh Award Certificate of Excellence</td>
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<td>Seefeldt, Douglas</td>
<td>History</td>
<td>Huntington Library, Los Angeles Corral of Westerners Research Fellowship</td>
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<td>Shapiro, Charles A.</td>
<td>Agronomy and Horticulture</td>
<td>American Society of Agronomy, Fellow</td>
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<td>Shearman, Robert C.</td>
<td>Agronomy and Horticulture</td>
<td>United States Golf Association, Green Section Award</td>
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</table>
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 and Literatures*  
Martinez, Adelaida  
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
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 of Federal Agency Abbreviations

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<tr>
<th>Abbreviation</th>
<th>Full Name</th>
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<tr>
<td>USAID</td>
<td>United States Agency for International Development</td>
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<tr>
<td>CNS</td>
<td>Corporation for National Service</td>
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<tr>
<td>USDA</td>
<td>United States Department of Agriculture</td>
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<tr>
<td>ARS</td>
<td>Agricultural Research Service</td>
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<tr>
<td>BRDC</td>
<td>Biotechnology Research and Development Corporation</td>
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<tr>
<td>CSREES</td>
<td>Cooperative State Research, Education &amp; Extension Service</td>
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<tr>
<td>ERS</td>
<td>Extension Research Service</td>
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<tr>
<td>FAS</td>
<td>Foreign Agriculture Service</td>
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<td>FS</td>
<td>Forestry Service</td>
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<tr>
<td>NRCS</td>
<td>Natural Resources Conservation Service</td>
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<tr>
<td>NRICGP</td>
<td>National Research Initiative Competitive Grant Program</td>
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<tr>
<td>RMA</td>
<td>Risk Management Agency</td>
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<tr>
<td>SARE</td>
<td>Sustainable Agricultural Research and Education Program</td>
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<tr>
<td>DOC</td>
<td>Department of Commerce</td>
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<tr>
<td>EDA</td>
<td>Economic Development Administration</td>
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<tr>
<td>NOAA</td>
<td>National Oceanic &amp; Atmospheric Administration</td>
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<tr>
<td>DOD</td>
<td>Department of Defense</td>
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<td>Army Corps of Engineers</td>
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<td>Army Research Office</td>
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<tr>
<td>DEPSCoR</td>
<td>Defense Experimental Program to Stimulate Cooperative Research</td>
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<tr>
<td>Naval Research Laboratory</td>
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<tr>
<td>Office of Naval Research</td>
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<tr>
<td>U.S. Army Medical Research Acquisition Activity</td>
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<td>DEd</td>
<td>Department of Education</td>
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<td>FIPSE</td>
<td>Fund for the Improvement of Postsecondary Education</td>
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<tr>
<td>DOE</td>
<td>Department of Energy</td>
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<td>EPSCoR</td>
<td>Experimental Program to Stimulate Cooperative Research</td>
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<td>NIGEC</td>
<td>National Inst for Global Environmental Change</td>
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<td>Sandia National Laboratories</td>
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<td>Department of Health and Human Services</td>
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<td>ACF</td>
<td>Administration for Children and Families</td>
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<td>CDC</td>
<td>Centers for Disease Control</td>
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<td>NIH</td>
<td>National Institutes of Health</td>
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<td>Fogarty International Center</td>
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<td>NCI</td>
<td>National Cancer Institute</td>
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<td>NCRCC</td>
<td>National Center for Research Resources</td>
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<td>National Eye Institute</td>
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<td>NHLBI</td>
<td>National Heart, Lung and Blood Institute</td>
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<td>NIAID</td>
<td>National Institute on Allergy &amp; Infectious Diseases</td>
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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