“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
Engineering

Blast Wave Absorbing Structures: an Experimental & Modeling Program

$7,500,000 DOD-Army Research Laboratory
6/25/04 – 6/24/09

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

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  
9/1/02 – 8/31/06  
Michael Fromm, director of the Center for Biotechnology and a professor of agronomy and horticulture in the Institute of Agriculture and Natural Resources, is the Plant Genome Research Center’s principal investigator. The center was established in 2002 with a grant from the National Science Foundation and involves scientists from six universities. Research at the center focuses on protein kinases of plants, in particular those of cereal crops. Protein kinases are enzymes that affect the way plants react to their environments. Manipulating kinases could provide a means of regulating the tolerance of plants to disease and environmental stresses, such as drought and temperature extremes.

Goddard, Stephen  
Computer Science and Engineering  
* Drought Risk, Impact and Mitigation Information System  
$6,407,473  
9/1/05 – 8/31/08  
Stephen Goddard, associate professor of computer science and director of UNL’s Laboratory for Advanced Research Computing, is principal investigator in a $6.4 million joint effort by climatologists and computer scientists to bring cutting-edge computer science technologies to agricultural producers’ age-old decision-making processes. The three-year partnership agreements are between the U.S. Department of Agriculture’s Risk Management Agency, UNL’s Department of Computer Science and Engineering and the UNL-based National Drought Mitigation Center. A separate $1 million cooperative agreement, directed by Donald Wilhite, professor in the School of Natural Resources and director of the National Drought Mitigation Center, will support continued work on a tool that uses satellite technology and climate information to detect vegetation stress on the ground for a much more detailed view of drought’s scope and potential impact.
Harwood, David  Geosciences
* ANDRILL: Investigating Antarctica’s Role in Cenozoic Global Environmental Change

$12,978,160  NSF
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

Math in the Middle Institute Partnership

$5,000,000  NSF
Ruth Heaton  Teaching, Learning and Teacher Education
Thomas McGowan  Teaching, Learning and Teacher Education
Barbara Jacobson  Lincoln Public Schools
8/01/04 – 7/31/09

Jim Lewis, professor of mathematics; Ruth Heaton, associate professor of teaching, learning and teacher education; Tom McGowan, professor of teaching, learning and teacher education; and Barbara Jacobson, curriculum director for Lincoln Public Schools, are co-leaders of a $5 million project titled the Math in the Middle Institute Partnership. The goal is to create the next set of leaders in middle school mathematics who will mentor peers and offer challenging courses to their students. During the five years of the project, about 120 teachers will participate in three in-residence summer sessions, four non-resident academic semesters and 10 take courses created by math and pedagogy experts. Middle school is a gateway to high school success, and efforts to improve middle school learning, especially in mathematics, show benefits at later stages in students’ academic careers.
Michael Meagher, professor of Chemical and Biomolecular Engineering, is the director of the Biological Process Development Facility. The facility provides clients with process research and early manufacturing of new therapeutic molecules for human clinical testing. The facility is also involved in the development of vaccines against biological warfare agents and products that can be used as therapeutic countermeasures to treat people who have been exposed to biological agents. Department of Defense funding has led to the building of new laboratories that give the Biological Process Development Facility new capabilities in mammalian cell culture process research and development.

**Fast-Track Production of a Heptavalent Botulinum Vaccine**

$6,799,173  
DynPort Vaccine Company  
9/1/03 – 2/28/08

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

David Sellmyer, George Holmes  
Distinguished professor in the department of physics and astronomy at UNL, leads the Materials Research Science and Engineering Center. The center was established in 2002 with a grant from the National Science Foundation and involves scientists from the departments of physics and astronomy, chemistry and mechanical engineering, and the School of Biological Sciences. MRSEC projects focus on fabricating and studying new magnetic structures and materials at the nanometer scale. The research has applications in advanced computing and data storage, handheld electronic devices, advanced sensors and future medical technologies.
Sheridan, Susan  
Parent Engagement and Learning Birth to Five  
Educational Psychology  
$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
Hoyt, Dan Sociology

Ojibwe Pathways Through the High School Years

$3,262,793 DHHS-NIH-NIDA
Johnson, Kurt Sociology
Park, Mingue Sociology
Hoyt, 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.
Wood, Charles

* Nebraska Center for Virology

$10,354,057

9/26/05 – 4/30/10

Charles Wood, Lewis Lehr/3M University Professor of Biological Sciences, is the director of the Nebraska Center for Virology. The center, funded by the National Institutes of Health, combines the expertise and facilities of Nebraska’s leading biomedical research institutions: UNL, the University of Nebraska Medical Center, and Creighton University. Center research addresses pathogenic and therapeutic aspects of some the most devastating viral and neuroimmune disorders facing the global community, including AIDS, HIV-associated cancers, Alzheimer’s disease and chronic infections caused by herpes viruses and a new class of infectious agents called prions.

Yohe, John

International Sorghum/Millet Collaborative Research Support Program (INTSORMIL)

$36,990,000

7/1/96 – 6/30/06

John Yohe, associate professor in the department of agronomy and horticulture, directs the International Sorghum/Millet (INTSORMIL) Collaborative Research Support Program. INTSORMIL is a collaborative international organization that supports research focused on improving nutrition and increasing income in developing countries and the United States. Scientists from U.S. land grant universities collaborate with scientists in host countries in the development of technology to improve production and utilization of sorghum and millet and facilitate natural resource management. Their work is done in Africa, Eurasia, Latin America and the United States.
## Awards of $1 Million to $2,999,999

**Active awards in 2005**

* Indicates new in 2005

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<th>Name</th>
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Dzenis, Yuris  
Dzenis, Yuris Engineering Mechanics

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Zeng, Xiao Cheng  
Chemistry
Feng, Ruqiang  
Engineering Mechanics
Turner, Joseph  
Engineering Mechanics
Larsen, Gustavo  
Chemical and Biomolecular Engineering

$1 MILLION — $2,999,999

Eccarius, Malinda  
Eccarius, Malinda Special Education and Communication Disorders

Mountain-Prairie Upgrade Partnership
$1,155,054
Engen-Wedin, Nancy  
Engen-Wedin, Nancy Teaching, Learning and Teacher Education

Nebraska Native American Career Ladder Project
$1,164,735
Faller, Ronald  
Faller, Ronald Civil Engineering

Evaluation & Field Installation of Steel Tube & Foam Energy Reduction (SAFER) Barrier
$1,045,913
Farritor, Shane  
Farritor, Shane Mechanical Engineering

Track Stability Assessment & Data Transmission
$1,190,000
Fromm, Michael  
Fromm, Michael Biotechnology

Metabolite Signaling Center
$2,635,898
Gladyshev, Vadim  
Gladyshev, Vadim Biochemistry

Functions of Mammalian Thioredoxin Reductases
$1,003,492
Selenoprotein as a Target for Cancer Prevention
$1,188,490
Methionine Sulfoxide Reduction, Selenium and Aging
$1,256,826
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<td>Veterinary and Biomedical Sciences</td>
<td>Protein-Thiol Mixed Disulfide in Cataractogenesis</td>
<td>$1,671,431</td>
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<td>Multi-Laser-Beam Open-Atmosphere Surface Coating Techniques Based on Precursor Excitation, Photodissociation and Controlled Cooling</td>
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<td>Chemical and Biomolecular Engineering</td>
<td>Process Research and Development of Antibodies as Countermeasures for C. botulinum Neurotoxin</td>
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<td>Food Science and Technology</td>
<td>Therapeutic Agents &amp; Vaccines against Biological Warfare</td>
<td>$1,155,900</td>
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<td>Assembly Mechanisms of TBP-Nucleated Complexes</td>
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Paul, Prem  Vice Chancellor for Research
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 Biological Sciences
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
Looke, David  Geosciences
Weeks, Donald  
* Development of Dicamba-Resistant Crops  
Biochemistry  
Monsanto Co.  
$2,500,000

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

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

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

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

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

Wood, Charles  
Kaposi’s Sarcoma & Human Herpesvirus in Africa  
Biological Sciences  
DHHS-NIH-Nat Cancer Institute Programs in HIV & AIDS Assoc Diseases/Malignancies  
$2,783,369

Wood, Charles  
Evolution of Clade C HIV-1 in Infected Children  
DHHS-NIH-Fogarty Intl Center  
$1,938,760

Wood, Charles  
Research Training in Comparative Viral Pathogenesis  
DHHS-NIH-NIAID  
$1,217,271

Wood, Charles  
Vaccination against Intrapartum HIV Clade C Transmission  
Dana-Farber Cancer Institute  
$959,278

Yamamoto, Catherine  
Talent Search Program  
Student Affairs  
Dept. of Education  
$1,626,225

Yamamoto, Catherine  
Upward Bound Program–Northeast Nebraska  
$1,238,496

Yamamoto, Catherine  
Student Support Services Program  
$1,889,008

Yohe, John  
Post Graduate Training and Collaborative Research to Strengthen INIA of Mozambique  
IANR-Intl Programs  
USAID  
$1,199,985
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Awards of $200,000 - $999,999
Active awards in 2005
* Indicates new in 2005

Abdelrahman, Magdy  
Civil Engineering
Restricted-Zone Requirements for Superpave Mixes  
Made with Local Aggregate Sources in Nebraska
$269,350  Ne Dept. Roads
Azizinamini, Atorod  
Civil Engineering
Yakel, Aaron  
Civil Engineering
Material Selection & Design Consideration for Moisture Damage of Asphalt Pavement
$225,527  Ne Dept. Roads

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

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

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

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

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

Asard, Han  
Biochemistry
Physiological Functions & Biochemical Properties of Plant Cytochromes b561
$386,084  NSF

Atkin, Audrey  
Biological Sciences
Wild-Type PPR1 mRNA Decay by Yeast Nonsense-Mediated mRNA Decay Pathway
$403,219  NSF
Moriyama, Etsuko  
Plant Science Initiative
$200,000 — $999,999

Avramov, Luchezar  Mathematics
Homology & Cohomology over Commutative Rings
$356,322  NSF

Avramova, Zoya  Biological Sciences
ATX1, Epigenetic Regulator of Plant Development
$442,500  NSF

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

Azizinamini, Atorod  Civil Engineering
* Simple for Dead-Continuous for Live Load System with Partial Pre-Fabricated Deck System
$242,038  Ne Dept. of Roads
$290,000  Ne Dept. of Roads
Rizos, Dimitri  Civil Engineering
Development of Design Tools for Steel Bridge Systems, Simple for Dead Loads & Continuous for Superimposed Dead Load & Live Loads
$226,306  Ne Dept. Roads
Steel Box System Monitoring of N-2 over I-480 Bridge
$292,244  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 & Prediation on a Genetic Polymorphism for Body Size
$519,721  NSF

$200,000 — $999,999
Batelaan, Herman  
Physics and Astronomy  
Matter Optics with Intense Laser Light  
$424,997  
NSF

Becker, Donald  
Biochemistry  
Spectroelectrochemistry of the Novel PutA Flavoprotein  
$693,134  
DHHS-NIH-NIGMS

Belli, Robert  
Gallup Research Center  
Verbal Behaviors in Computerized Lifecourse Surveys  
$414,430  
DHHS-NIH-Nat Inst Aging

Belot, John  
Chemistry  
GOALI: Chemical Factors Affecting Metal-Organic Chemical Vapor Deposition Precursors  
$365,000  
NSF

Benson, Andrew  
Food Science and Technology  
* Functional Consequences of Genome Evolution in Listeria Monocytogenes  
$261,515  
Dept. of Agriculture-NRICGP  
Genome Biology of Francisella tularensis Populations  
$391,459  
DHHS-NIH-NIAID  
Population Genomes of Listeria Monocytogenes  
$372,468  
Dept. of Agriculture-NRICGP

Berkowitz, David  
Chemistry  
New Approaches to Catalyst Screening & Development  
$419,416  
NSF  
Development of Cystathionine Beta-Synthase Inhibitors  
$214,500  
American Heart Association

Beukelman, David  
Special Education and Communication Disorders  
* Rehabilitation Engineering Research Center on Communication Enhancement  
$284,994  
Duke University Medical Center

Bevins, Rick  
Psychology  
Acquired Appetitive Properties of Nicotine  
$902,065  
DHHS-NIH-NIDA

Bi, Xin  
Biochemistry  
Heterochromatin Domains & Boundary Elements  
$926,572  
DHHS-NIH-NIGMS  
Chiu, Ya-Hui  
Biochemistry

Billesbach, David  
Biological Systems Engineering  
Development & Field Testing of a Rapidly Deployable Carbon Dioxide Flux Management System  
$380,376  
Dept. of Energy-Berkeley Nat Lab

Blum, Paul  
Biological Sciences  
Gene Silencing & Catabolite Repression in the Archaeon Sulfolobus Sulfataricus  
$413,380  
NSF

$200,000 — $999,999
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<td>Virtual Ecology: Experimental Tests of Evolution in Predator-Prey Systems</td>
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<td>Boron Carbine Semiconductor Films</td>
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<td>* Hospital Preparedness</td>
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<td>English</td>
<td>Leadership for Institutional Change</td>
<td>W. K. Kellogg Foundation</td>
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<td>Bulling, Denise</td>
<td>Public Policy Center</td>
<td>* Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Programs</td>
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<td>Burbach, Mark</td>
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<td>Carlo, Gustavo</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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**Physics and Astronomy**  
Experimental High Energy Physics  
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Clemente, Thomas  
**Biotechnology/Plant Science Initiative/Agronomy and Horticulture**  
**Initiative/Agronomy and Horticulture**  
Agrobacterium-Mediated Genetic  
Transformation of Wheat & Soybeans  
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Initiative/Agronomy and Horticulture  
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Dept. of Agriculture-ARS-BRDC  
$387,748  
Dept. of Energy

Costello, Don  
**Computer Science and Engineering**  
GAANN Fellowships for Computer Science & Engineering  
$498,132

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

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

DiMagno, Stephen  
**Chemistry**  
* Hydrogen for Fuel Cells  
$966,000

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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Physics and Astronomy  
Variability of Active Galactic Nuclei  
$435,611  
NSF

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

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

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

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

Gladyshev, Vadim  
Biochemistry  
Identity of Terminator & Selenocysteine UGA Codons  
$789,237  
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  
Agronomy and Horticulture  
* Sclerotinia Resistance Enhanced by Accumulation of QTL Transgenic Approaches  
$223,142  
Dept. of Agriculture-ARS

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

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

Swanson, Douglas  
Cooperative Extension

Steadman, James  
Agronomy and Horticulture  
Plant Pathology

Clemente, Thomas  
Agronomy and Horticulture

Major, Linda  
Student Affairs
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Civil Engineering  
Driver Information System at At-Grade Railroad Highway Crossings  
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Kostelnik, Marjorie  
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* Planning Project for SAGE Lifelong Learning  
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Langell, Marjorie  
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Surface Chemistry of Rock Salt & Spinel 3D Transition Metal Oxides Tailored by Structural & Compositional Methods  
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* UBM: Research for Undergraduates in Theoretical Ecology (RUTE)  
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Gibson, Robert  
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Loladze, Irakli  
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Lee, Kevin  
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ClassAction: Model Rapid-Feedback & Dynam Formative Assess System  
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Schmidt, Edward  
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Development of Interactive Simulation Environments for Inquiry Astronomy Teaching  
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Physics and Astronomy  

Leslie-Pelecky, Diandra  
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* Magnetic Properties of Disordered Rare-Earth Nanostructures  
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Shield, Jeff  
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Liou, Sy-Hwang  
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Nanometer-Size Magnetic Devices  
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Loope, David  
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Paleometeorological Records from Sand Dunes & Eolian Sand Stones  
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Louda, Svata  
Biological Sciences  
* Single vs. Multiple Insect Herbivore Guild Interactions in Canada Thistle Dynamics  
$408,760  
Insect Herbivore Guild Interactions & Tall Thistle Population Dynamics  
$369,999  

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**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

Nickerson, Kenneth  
**Biological Sciences**  
Structure of Extracellular Quorum Sensing Molecules from Dimorphic Fungi  
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NSF

Nouroeddi, Hossein  
**Chemical and Biomolecular Engineering**  
* 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)  
$493,156  
NSF

Pattnaik, Asit  
**Veterinary and Biomedical Sciences**  
Analyses of Virulence & Attenuation Determinants of PRRSV using Reverse Genetics  
$320,000  
Dept. of Agriculture-NRICGP

Peters, Ed  
**School of Natural Resources**  
Ecology & Management of Pallid Sturgeon & Sturgeon in the Lower Platte River  
$572,260  
Ne Game & Parks Commission

Orti, Guillermo  
**Biological Sciences**  
* RCN: DeepFin will Advance the Phylogeny of “Fishes”  
$500,000  
NSF

Osorio, Fernando  
**Veterinary and Biomedical Sciences**  
VSV RNA Transcription and Replication  
$996,128  
DHHS-NIH-NIAID

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<td>* CRI: Community Resource to Support Controlled Experimentation with Program Analysis and Testing Techniques</td>
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<td>Intelligent Joint Evolution of Data &amp; Information: An Integrated Framework for Drought Monitoring &amp; Mitigation</td>
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<td>Chemical and Biomolecular Engineering</td>
<td>* Nanodevice for Imaging Normal Stress Distribution with Application in Sensing Texture and Feel by Touching</td>
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<td>Dept. of Commerce-NTIA</td>
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<td>Northeast Research and Extension Center</td>
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<td>Identification of Vehicular Impact Conditions Associated with Serious Run-Off-Road Crashes</td>
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Siegfried, Blair  
**Entomology**  
Population Genetics & Molecular Mechanisms of Resistant Western Corn Rootworms  
$264,000  
Wright, Robert  
Entomology  
Meinke, Lance  
Entomology  
A Site Specific Field Corn IPM Program that Incorporates Transgenic Technology  
$283,913  
Pennsylvania State University

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

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

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

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

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

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

Spreitzer, Robert  
**Biochemistry**  
Role of the Rubisco Small Subunit  
$618,000  
Dept. of Energy
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<td>Jasmonate Signaling in Plants: Activation of Jasmonic Acid by the JAR 1 Response Locus in Arabidopsis Thaliana</td>
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<td>* Food Allergen Database</td>
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<td>Midwest Advanced Food Manufacturing Alliance</td>
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**Total Funding:** $200,000 – $999,999
Thippareddi, Harshavardhan  Food Science and Technology
* Understanding and Controlling Listeria Monocytogenes Transmission through Ready-to-Eat Meat Products
$222,270  Colorado State University

HACCP Assistance for Small & Very Small Processors with Development & Validation of Safe Meat Chilling Processes
$599,916  Dept. of Agriculture-CSREES
Wang, Lijun  Biological Systems Engineering
Weller, Curtis  Biological Systems Engineering
Burson, Dennis  Animal Science

HACCP Training & Research to Assist Meat Processors with Process Deviations for Lethality & Stabilization
$495,640  Dept. of Agriculture-CSREES

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

Tonn, Steven  Southeast Research and Extension Center
Omaha Lake Extension Coordinator
$307,645  Ne Dept. Environmental Quality

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

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

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

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

Van Etten, James  Plant Pathology
* Center for Innovation in Membrane Protein Production
$287,782  Univ of California-San Francisco
Dunigan, David  Plant Pathology

Varyam, Vinod  Computer Science and Engineering
Studies in Computational Complexity Theory
$200,000  NSF
Vasa, Stanley  
Special Education and Communication Disorders  
Project NETS: Nebraska Educational Transition Specialists  
$798,624  
Dept. of Education  
Scheffler, Marilyn  
Special Education and Communication Disorders  

Verma, Shashi  
School of Natural Resources  
Carbon Sequestration in Dryland & Irrigated Agroecosystems  
$900,000  
Dept. of Energy  
Cassman, Kenneth  
Agronomy and Horticulture  
Knops, Johannes  
Biological Sciences  
Hubbard, Kenneth  
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Dobermann, Achim  
Agronomy and Horticulture  
Yang, Haishun  
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Walters, Daniel  
Agronomy and Horticulture  

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

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

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

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

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

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

Weber, John  
Animal Science  
Phenotype Screens for Bone Marrow Failure  
$208,050  
Baylor College of Medicine
Weeks, Donald  Biochemistry
Development of Herbicide-Resistant Plants for Environmentally-Safe Production Energy & Biomass Crops
$232,000  Consortium for Plant Biotechnology Research
Role of the Cia 5 Gene in the Carbon Concentrating Mechanism in Chlamydomonas Reinhardtii
$387,000  NSF

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

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

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

Weller, Curtis  Biological Systems Engineering
Purification Process Influences on Structural & Nutritional Function of Grain Sorghum
$338,000  Dept. of Agriculture-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
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<td>* Jury Bias in Criminal Cases: Sexual Assault, Homicide and Generic Prejudice</td>
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<td>Community Context of Rural &amp; Urban Child Neglect</td>
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<td>Mitigation &amp; Preparedness Technologies for the US</td>
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<td>Anthropology and Geography</td>
<td>Anterior Dentition and Restoration Among Nuer and Dinka Refugees from Sudan</td>
<td>$227,459</td>
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<td>Integrated Network for Tribal College Community Watershed Natural Resources Education</td>
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<td>Increasing Participation in Computer Science, Engineering, &amp; Mathematics through NSF Scholarships at the University of Nebraska–Lincoln</td>
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<td>“Greek Revolution”: Enabling Cultural Change in UNL Greek Life</td>
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Wortmann, Charles  Agronomy/Horticulture
* Integrated Approach to Reduced Risk of Phosphorus Pollution of Surface Waters in Crop-Livestock Based Managed Ecosystems of the Midwest
$235,839  Nebraska Corn Board
Erickson, Galen
Schulte, Dennis  Biological Systems Engineering
Franti, Tom  Biological Systems Engineering
Jose, H. Douglas  Agricultural Economics

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

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

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

Zeng, Xiao Cheng  Chemistry
Crystallization and Interfacial Properties of Silicon
$235,000  Dept. of Energy
ITR: Multiscale Treatment of Solid-Fluid Interfaces
$400,000  NSF
Diestler, Dennis  Agronomy and Horticulture
Feng, Ruqiang  Engineering Mechanics
ITR: Multiscale Treatment of Systems with Strong Heterogeneities
$715,121  NSF
Diestler, Dennis  Agronomy and Horticulture
Feng, Ruqiang  Engineering Mechanics

Zera, Anthony  Biological Sciences
* Enzymatic and Molecular Bases of Trade-Offs in Lipid Metabolism that Underlie Life History Trade-Off
$417,682  NSF
Harshman, Lawrence  Biological Sciences
Morph-Dependent Cyclic JH Titer in a Wing-Polymorphic Insect: Adaptive Significance & Underlying Causes
$321,626  NSF
Harshman, Lawrence  Biological Sciences
Physiological & Molecular Causes of Genetic Variation/Covariation in Endocrine Regulation
$372,000  NSF

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

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
CAREER AND K AWARDS

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

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

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

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

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

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

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

Tyler, Kimberly
Sociology
Neglect and Abuse Histories Among Homeless Young Adults
$659,525 DHHS-NIH-NIMH
Behrendt, Stephen  English
Genre, Dialogue, and Community in British Romantic Fiction
$124,822  National Endowment for the Humanities
10/01/2004 – 9/30/2005
Stephen Behrendt, George Holmes
Distinguished Professor of English, received a major award from the National Endowment for the Humanities to continue support of a summer seminar for university and college professors whose scholarship focuses on individual writers of the British Romantic Era (c. 1780-1840). The University Libraries has extremely strong primary and secondary holdings, including the Corvey Collection of Romantic era belles lettres. The seminar allows scholars access to the collection and enriches sustained dialogue about inter-genre connections, helps remap the landscape of the British Romantic era and advances future scholarship for applied curricular and pedagogical design.

Cahan, David  History
*A Biography of Hermann von Helmholtz
$80,625  NSF
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  
* 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  
Institute of Museum & Library Services  
Libraries  
$218,688  
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  
* Walt Whitman Archive  
English  
National Endowment for the Humanities  
$500,000  
Ken Price, professor of English and Hillegass Chair of 19th Century American Literature, is principal investigator for a $500,000 We the People Challenge Grant from the National Endowment for the Humanities. The award is contingent on UNL acquiring a 3-1 match of $1.5 million in the next four years. When fundraising is completed, the $2 million establishes an endowment at the University of Nebraska Foundation, the proceeds of which provide permanent annual operating funding for the Walt Whitman Archive. The Whitman Archive is an electronic research and teaching tool that makes Whitman’s huge body of work easily accessible.
Whitman amassed a huge volume of work during his life. Some 70,000 manuscripts are housed in about 80 locations, although the bulk is known to be in just five libraries. But the logistics of finding these various documents, let alone assessing and comparing their relevance and content, are daunting. The Archive allows scholars to search the entire body of Whitman’s writings and scholarship on those works and offers scholarly analysis.

The Walt Whitman Hypertext Archive
$200,000 National Endowment for the Humanities
5/1/03 – 4/30/05
Price is also part of a project to produce The Walt Whitman Hypertext Archive, which will build on, enhance and contextualize the 22-volume Collected Writings of Walt Whitman by publishing a comprehensive on-line Walt Whitman archive Website. The project involves encoding all materials in the Collected Writings and editing, encoding, linking and annotating all remaining materials, including the vast archive of Whitman’s poetry manuscripts.

Walter, Katherine Libraries
* Interoperability of Metadata Standards for Digital Thematic Research Collections
$169,651 Institute of Museum and Library Services
Price, Kenneth English
Bolin, Mary Libraries
Barney, Brett Libraries

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

Benjamin A. Botkin Collection-Preservation/Access
$97,435 National Endowment for the Humanities
7/1/01 – 6/30/06
Walter is also using a National Endowment for the Humanities grant to preserve a vast collection of materials from the Benjamin A. Botkin Collection of Applied American Folklore and microfilming it to improve its accessibility to scholars and the public. Botkin was national folklore editor of the Federal Writers Project and chief of the Library of Congress Archive of American Folk Song. The collection adds to the understanding of this discipline in development and it consists 8,000 books, 447 linear feet of archival materials and 700 recordings. The project preserves 291
linear feet on microfilm and also preserves 200 sound recordings made by Botkin himself.

**Virtual Archive of Whitman’s Manuscripts**

**$245,723**

Institute of Museum & Library Services

Kenneth Price

English

11/1/01 – 10/31/05

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

**Implementation Grants for Special Projects—**

**Journals of Lewis and Clark Online Edition**

**$222,177**

National Endowment for the Humanities

Dunham, Gary

University Press

9/1/03–8/31/05

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

**$5,000-$49,999**

*Indicates new in 2005*

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<td>American String Teachers Assn</td>
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<td><strong>Bleed, Peter</strong></td>
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<td><strong>Brooke, Robert</strong></td>
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<td><em>Voices from Young Citizens: Writing from Rural Nebraska Youth Involved in Place Conscious Education</em></td>
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<td><strong>Dunham, Gary</strong></td>
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<td>Moravian Springplace Mission among the Cherokees</td>
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<td><strong>Handa, Rumiko</strong></td>
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<td><em>Spirit of Design: Multidisciplinary, Multimedia Database and Website</em></td>
<td>Graham Foundation</td>
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<td><strong>Reynolds, Guy</strong></td>
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<td><em>10th International Cather Seminar, “Violence, the Arts, and Cather</em>*</td>
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<td><strong>Ritchie, George</strong></td>
<td>Music</td>
<td>Organ Scholar, Saint Cecilia Scholastica Cantorum</td>
<td>Saint Cecilia Schola Cantorum</td>
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<tr>
<td><strong>Tomkins, Alan</strong></td>
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<td>By the People: America in the World</td>
<td>MacNeil/Lehrer Productions; Community Foundation for Greater New Haven; Cooper Foundation</td>
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<td><strong>Walter, Katherine</strong></td>
<td>University Libraries</td>
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<td>Crews, Patricia</td>
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<td>Homestead - Broken Bow Microfilming Project (CESU)</td>
<td>Dept. of Interior-NPS</td>
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</tbody>
</table>

### ARTS AND HUMANITIES $5,000 — $49,999
PATENTS ISSUED IN 2005
Recognition for Faculty Who Received Patents
UNL Faculty indicated in red

Alexander, Dennis
Electrical Engineering
Title: Laser Machining of Materials
Description: Nanomachining Using Femtosecond/Attosecond Lasers
Date: March 8, 2005
No. 6,864,457
Country: United States

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

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

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

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
Architectecture
Title: Fume Hood Exhaust Stack System
Description: Advanced Stack Systems
Date: May 10, 2005
No. 6,890,252
Country: United States

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

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

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

Weeks, Donald
Biochemistry
Title: Methods and Materials for Making and Using Transgenic Dicamba-Degrading Organisms
Description: Development of Crops Tolerant to Treatment with Dicamba
Date: February 19, 2005
No. 42194
Country: North Korea
Date: August 18, 2005
No. 781125
Country: Australia
Date: December 16, 2005
No. 10-1999-7009092
Country: South Korea
Licensee: Kansas Organic Producers
Description: NE99495 plant variety.
Inventor: Baenziger, Stephen
Department: Agronomy and Horticulture

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

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

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

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

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

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

Licensee: Seedwest
Description: Seeded variety of 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 Henares, Spain; College Music Society International Conference. Wind Chamber Music of Theodor Blumer.

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*


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

Hayden, F. Gregory  

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

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

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

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

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

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

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

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

Lepard, Brian  

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

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

MacPhee, Craig  

Moshman, Dave  

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

Olson, David L.; Evans, James R.  

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

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

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

Rawley, James A.  

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

Sarroub, Loukia K.  

Sayood, Khalid  

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

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

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

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

Siau, Keng, ed.  

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

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

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

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

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

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

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

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

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

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

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

Van Etten, James  
Plant Pathology  
National Academy of Science Membership

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

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

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

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

Ball, A. Dwayne  
Marketing  
Fulbright Senior Specialist, Portugal

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Daly, Ed, Educational Psychology
American Psychological Association Division 16 Fellow

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Heemstra, Jill  Biological Systems Engineering  
American Society of Agricultural Engineers, Educational Aids Competition Blue Ribbon, Poultry EMS Project

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

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

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

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

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

Kranz, Bill  Biological Systems Engineering

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

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

Levin, Carole  History  
Rare Books and Manuscripts Section, Association of College and Research Libraries, Katharine Kyes Leab and Daniel J. Leab Exhibition Catalogue Award, Elizabeth I: Ruler and Legend
Levis, Donald G. Animal Science
National Hog Farmer, one of the Top 50 Men and Women Who Truly Made A Difference in the U.S. Pork Industry in the Last 50 Years

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

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

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

Mahoney, Timothy R. History
Fulbright Scholar, Poland

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

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

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

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

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

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

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

Nisse, Ruth English
National Humanities Center, Fellow

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

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

Poser, Susan Law
American Law Institute, Elected Member

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

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

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

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

Rieke, Reuben Chemistry
University of Minnesota, Outstanding Achievement Award

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

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

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

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

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

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

Shearman, Robert C. Agronomy and Horticulture
United States Golf Association, Green Section Award
RECOGNITIONS AND HONORS

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

Wishtart, David Anthropology and Geography

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
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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Name</th>
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<tbody>
<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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<tr>
<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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<tr>
<td>DEd</td>
<td>Department of Education</td>
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<tr>
<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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<tr>
<td>EPSCoR</td>
<td>Experimental Program to Stimulate Cooperative Research</td>
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<tr>
<td>NIGEC</td>
<td>National Inst for Global Environmental Change</td>
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<td>Sandia National Laboratories</td>
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<tr>
<td>DHHS</td>
<td>Department of Health and Human Services</td>
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<tr>
<td>ACF</td>
<td>Administration for Children and Families</td>
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<tr>
<td>CDC</td>
<td>Centers for Disease Control</td>
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<tr>
<td>NIH</td>
<td>National Institutes of Health</td>
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<td>Fogarty International Center</td>
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<tr>
<td>NCI</td>
<td>National Cancer Institute</td>
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<tr>
<td>NCRRR</td>
<td>National Center for Research Resources</td>
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<tr>
<td>National Eye Institute</td>
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<tr>
<td>NHLBI</td>
<td>National Heart, Lung and Blood Institute</td>
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<td>National Institute on Aging</td>
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<tr>
<td>NIAID</td>
<td>National Institute on Allergy &amp; Infectious Diseases</td>
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</tbody>
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GLOSSARY

NICH
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