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## "Major Sponsored Program and Faculty Awards for Research and Creative Activity for 2005"

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**Vice  
Chancellor  
Prem Paul**



**Chancellor  
Harvey  
Perlman**

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

6/25/04 – 6/24/09

DOD-Army Research Laboratory



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

9/30/02 – 8/31/07

DHHS-NIH-NCRR



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

10/1/01 – 9/30/06

Dept. of Education



Michael Epstein, William Barkley Professor of special education and communication disorders, and co-investigator Ron Nelson, associate research professor of special education and communication disorders, have established the Center for Behavior and Reading in the Center for At-Risk Children's Services to focus on implementing and evaluating reading and behavior intervention programs for school-aged children. The aim

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

### **Fromm, Michael**

### **Center for Biotechnology**

**A Protein Interaction Database for Rice Protein Kinases**

\$6,057,747

NSF

9/1/02 – 8/31/06



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

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

### **Goddard, Stephen**

### **Computer Science and Engineering**

**\* Drought Risk, Impact and Mitigation Information System**

\$6,407,473

Dept. of Agriculture-RMA-FCIC

Wilhite, Donald

School of Natural Resources

9/1/05 – 8/31/08



Stephen Goddard

Stephen Goddard, associate professor of computer science and director of UNL's Laboratory for Advanced Research Computing, is principal investigator in a \$6.4 million joint effort by climatologists and computer scientists to bring cutting-edge computer science technologies to agricultural producers' age-old decision-making processes. The three-year partnership agreements are between the U.S. Department of Agriculture's Risk Management Agency, UNL's Department of Computer Science and Engineering and the UNL-based National Drought Mitigation Center. A separate \$1 million cooperative agreement, directed by Donald Wilhite,



Donald Wilhite

professor in the School of Natural Resources and director of the National Drought Mitigation Center, will support continued work on a tool that uses satellite technology and climate information to detect vegetation stress on the ground for a much more detailed view of drought's scope and potential impact.

**Harwood, David**

**Geosciences**

\* **ANDRILL: Investigating Antarctica’s Role in Cenozoic Global Environmental Change**

\$12,978,160

NSF

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

**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.

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

**Process Research & Development of Antibodies as  
Countermeasures for C. Botulinum Neurotoxin**

\$10,627,000

DOD-Army Medical Research

3/1/02 – 2/10/07



Michael Meagher, Donald F. Othmer professor of Chemical and Biomolecular Engineering, is the director of the Biological Process Development Facility. The facility provides clients with process research and early manufacturing of new therapeutic molecules for human clinical testing. The

facility is also involved in the development of vaccines against biological warfare agents and products that can be used as therapeutic countermeasures to treat people who have been exposed to biological agents. Department of Defense funding has led to the building of new laboratories that give the Biological Process Development Facility new capabilities in mammalian cell culture process research and development.

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

\$6,799,173

DynPort Vaccine Company

9/1/03 – 2/28/08

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

**Sellmyer, David**

**Center for Materials Research**

**Materials Research Science & Engineering  
Center; Nanomagnetic Structures**

\$5,491,000

NSF

9/1/02 – 8/31/08



David Sellmyer, George Holmes Distinguished professor in the department of physics and astronomy at UNL, leads the Materials Research Science and Engineering Center. The center was established in 2002 with a grant from the National Science Foundation and involves scientists from the

departments of physics and astronomy, chemistry and mechanical engineering, and the School of Biological Sciences. MRSEC projects focus on fabricating and studying new magnetic structures and materials at the nanometer scale. The research has applications in advanced computing and data storage, handheld electronic devices, advanced sensors and future medical technologies.

**Sheridan, Susan****Educational Psychology****Parent Engagement and Learning Birth to Five**

\$5,068,518

DHHS-NIH-NICHD

9/26/03 – 9/30/08

Edwards, Carolyn

Psychology



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

DHHS-Admin for Children &amp; Families

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

DHHS-NIH-NHLBI

Meagher, Michael

Chemical and Biomolecular Engineering

Van Cott, Kevin

Chemical and Biomolecular Engineering

9/6/05 – 8/31/10



William Velander, Donald R. Voelte Jr. and Nancy A. Keegan Endowed Chair in Engineering, is principal investigator in a partnership funded by a \$9.9 million grant from the National Institutes of Health/ National Heart, Lung and Blood Institute. The goal is to develop an abundant, pure,

safe and effective therapy for Hemophilia B using recombinant human coagulation proteins produced in the milk of transgenic pigs. The project builds on innovative bioengineering technologies



pioneered by Velander that enable improved intravenous and novel oral delivery of hemophilic factors to patients. Hemophilia B is a congenital bleeding disorder that causes pain, crippling injuries and early death. It can be treated by Factor IX, a blood protein, but the costs are prohibitive and most patients do not receive it. Velander's project isolates Factor IX in the milk of transgenic pigs.

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

\$3,044,606

Meagher, Michael

Van Cott, Kevin

Inan, Mehmet

8/1/05 - 2/1/07

DOD-Army Medical Research

Chemical and Biomolecular Engineering

Chemical and Biomolecular Engineering

Chemical and Biomolecular Engineering

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

**Whitbeck, Les**

**Sociology**

**Cultural Resilience of Rural & Remote Ojibwe Families**

\$3,138,960

7/1/02 - 6/30/07

Hoyt, Dan

DHHS-NIH-NIMH

Sociology

**Ojibwe Pathways Through the High School Years**

\$3,262,793

9/3/05 - 6/30/12

Johnson, Kurt

Park, Mingué

Hoyt, Dan

DHHS-NIH-NIDA

Sociology

Sociology

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.

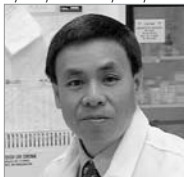
**Wood, Charles****Biological Sciences**

\* Nebraska Center for Virology

\$10,354,057

DHHS-NIH-NCRR

9/26/05 - 4/30/10



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

**Yohe, John****IANR-Intl Programs**

International Sorghum/Millet Collaborative  
Research Support Program (INTSORMIL)

\$36,990,000

U.S. Agency for International Development

7/1/96 - 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

<b>Banerjee, Ruma</b>	<b>Biochemistry</b>
<b>Cystathionine Beta Synthase &amp; Hyperhomocysteinemia</b>	
\$1,177,264	DHHS-NIH-NHLBI
<b>Mechanism of Methylmalonyl-CoAMutase: A Radical Enzyme</b>	
\$1,023,449	DHHS-NIH-NIDDK
<b>Regulation of Homocysteine-dependent Redox Homeostasis</b>	
\$1,531,581	DHHS-NIH-NIDDK
<b>Buckendahl, Chad</b>	<b>Educational Psychology</b>
<b>Evaluation of the National Assessment of Educational Progress</b>	
\$2,398,258	Dept. of Education
Davis, Susan	Educational Psychology
<b>Caldwell, Robert</b>	<b>School of Natural Resources</b>
<b>Thematic Soil Mapping for Site-Specific Management</b>	
\$1,025,000	Dept. of Agriculture-IFAFS
Dobermann, Achim	Agronomy and Horticulture
Adamchuk, Viacheslav	Biological Systems Engineering
Ferguson, Richard	Agronomy and Horticulture
<b>Cerutti, Heriberto</b>	<b>Plant Science Initiative</b>
<b>* RNA-Mediated Silencing: Mechanisms and Biological Roles in Chlamydomonas</b>	
\$1,042,852	DHHS-NIH-NIGMS
<b>Chen, Bing</b>	<b>School of Engineering Technology</b>
<b>* SPIRIT: Silicon Prairie Initiative on Robotics in IT</b>	
\$1,170,488	NSF
<b>Cotton, Dan</b>	<b>Communications and Information Technology</b>
<b>National E-Extension Project</b>	
\$2,570,000	National Association of State Universities and Land Grant Colleges
<b>Diamond, Judy</b>	<b>University of Nebraska State Museum</b>
<b>Explore Evolution</b>	
\$2,851,409	NSF
<b>Doll, Elizabeth</b>	<b>Educational Psychology</b>
<b>* Inspiring Inquiry: Science Instruction Model for Teachers in Rural, Culturally Diverse Schools</b>	
\$1,261,684	Dept. of Education
Bruning, Roger	Educational Psychology
Bonnstetter, Ron	Teaching, Learning and Teacher Education
Horn, Christy	Educational Psychology

<b>Dzenis, Yuris</b>	<b>Engineering Mechanics</b>
	NIRT: Manufacturing of Novel Continuous Nanocrystalline Ceramic Nanofibers
\$1,095,200	NSF
Zeng, Xiao Cheng	Chemistry
Feng, Ruqiang	Engineering Mechanics
Turner, Joseph	Engineering Mechanics
Larsen, Gustavo	Chemical and Biomolecular Engineering
<b>Eccarius, Malinda</b>	<b>Special Education and Communication Disorders</b>
	Mountain-Prairie Upgrade Partnership
\$1,155,054	Dept. of Education
<b>Engen-Wedin, Nancy</b>	<b>Teaching, Learning and Teacher Education</b>
	Nebraska Native American Career Ladder Project
\$1,164,735	Dept. of Education
Garcia, Ricardo	Teaching, Learning and Teacher Education
<b>Faller, Ronald</b>	<b>Civil Engineering</b>
	Evaluation & Field Installation of Steel Tube & Foam Energy Reduction (SAFER) Barrier
\$1,045,913	Indianapolis Racing League
Holloway, Jim	Civil Engineering
Reid, John	Mechanical Engineering
Rohde, John	Civil Engineering
Sicking, Dean	Civil Engineering
<b>Farritor, Shane</b>	<b>Mechanical Engineering</b>
	Track Stability Assessment & Data Transmission
\$1,190,000	Dept. of Transportation-FRA
Arnold, Richard	Mechanical Engineering
Turner, Joseph	Engineering Mechanics
Barton, John	Mechanical Engineering
Jones, Elizabeth	Civil Engineering
Khattak, Aemal	Civil Engineering
Sharif, Hamid	School of Engineering Technology
Rilett, Laurence	Civil Engineering
<b>Fromm, Michael</b>	<b>Biotechnology</b>
	Metabolite Signaling Center
\$2,635,898	NSF-EPSCoR
<b>Gladyshev, Vadim</b>	<b>Biochemistry</b>
	Functions of Mammalian Thioredoxin Reductases
\$1,003,492	DHHS-NIH-NIGMS
	Selenoprotein as a Target for Cancer Prevention
\$1,188,490	DHHS-NIH-NCI
	Methionine Sulfoxide Reduction, Selenium and Aging
\$1,256,826	DHHS-NIH-NIA

<b>Goddard, Stephen</b>	<b>Computer Science and Engineering</b>
	Digital Government: A Decision Support System for Drought Risk Management
\$1,031,914	NSF
Hayes, Michael	School of Natural Resources
Deogun, Jitender	Computer Science and Engineering
Hubbard, Kenneth	School of Natural Resources
Wilhite, Donald	School of Natural Resources
Waltman, William	Computer Science and Engineering
Reichenbach, Stephen	Computer Science and Engineering
Revesz, Peter	Computer Science and Engineering
	Climate & Soil Risk Information System
\$1,212,056	Dept. of Agriculture-RMA
Wilhite, Donald	School of Natural Resources
Hubbard, Kenneth	School of Natural Resources
<b>Green, Jordan</b>	<b>Special Education and Communication Disorders</b>
	Early Speech Motor Development
\$1,804,739	DHHS-NIH-NIDCD
<b>Heusel, Gary</b>	<b>Student Involvement</b>
	Midwest Consortium for Service-Learning in Higher Education
\$1,105,041	Corporation for National Service
<b>Hoagland, Kyle</b>	<b>School of Natural Resources</b>
	* DNR Ground Water Management and Protection Act Service Agreement
\$1,500,000	Nebraska Dept. Natural Resources
<b>Hubbard, Kenneth</b>	<b>School of Natural Resources</b>
	Services of the NOAA Regional Climate Centers
\$1,824,032	Dept. of Commerce-NOAA
<b>Jones, Vicky</b>	<b>Northeast Research &amp; Extension Center</b>
	Northeast Nebraska Paraprofessional Ladder Project
\$1,976,000	Dept. of Education
Lopez, William	Teaching, Learning and Teacher Education
<b>Jose, H. Douglas</b>	<b>Agricultural Economics</b>
	North Central Risk Management Education Center
\$2,400,000	Dept. of Agriculture-CSREES
<b>Josiah, Scott</b>	<b>NE State Forest Service</b>
	Cooperative Forestry Program
\$1,322,016	Dept. of Agriculture-FS
<b>Kamil, Alan</b>	<b>Biological Sciences</b>
	Landmarks, Bearings and Way-Finding
\$1,338,934	DHHS-NIH-NIMH
	Mechanisms of Visual Search and Attention
\$1,029,062	DHHS-NIH-NIMH
Bond, Alan	Biological Sciences

<b>Koszewski, Wanda</b>	<b>Nutrition and Health Sciences</b>
\$2,226,983	<b>Building Nebraska Families</b>
Birnstihl, Elizabeth	Ne Dept. Health & Human Serv
Schnepf, Marilynn	IANR-Cooperative Ext
	Nutrition and Health Sciences
	<b>Nutrition Education Program</b>
\$1,240,527	Ne Dept. Health & Human Serv
Birnstihl, Elizabeth	IANR Cooperative Extension
Schnepf, Marilynn	Nutritional and Health Sciences
<b>Lenzen, Stephen</b>	<b>NET</b>
	<b>Advanced Learning Environments Research &amp; Technology (ALERT)</b>
\$2,618,000	General Services Administration
<b>Leslie-Pelecky, Diandra</b>	<b>Physics and Astronomy</b>
	<b>GK-12: Project FULCRUM-Building Partnerships</b>
\$1,572,817	NSF
Buck, Gayle	Teaching, Learning and Teacher Education
Dussault, Patrick	Chemistry
Kirby, Roger	Physics and Astronomy
	<b>Track 2, GK-12: Project Fulcrum: Phase II</b>
\$1,987,732	NSF
<b>Lou, Marjorie</b>	<b>Veterinary and Biomedical Sciences</b>
	<b>Protein-Thiol Mixed Disulfide in Cataractogenesis</b>
\$1,671,431	DHHS-NIH-Natl Eye Institute
<b>Lu, Yongfeng</b>	<b>Electrical Engineering</b>
	<b>* Multi-Laser-Beam Open-Atmosphere Surface</b>
	<b>Coating Techniques Based on Precursor Excitation,</b>
	<b>Photodissociation and Controlled Cooling</b>
\$2,999,970	DOD-Office of Naval Research-MURI
Wang, Xinwei	Mechanical Engineering
<b>Meagher, Michael</b>	<b>Chemical and Biomolecular Engineering</b>
	<b>* Process Research and Development of Antibodies as</b>
	<b>Countermeasures for C. botulinum Neurotoxin</b>
\$2,877,000	DOD-Army Space and Missile Defense Command
	<b>Therapeutic Agents &amp; Vaccines against Biological Warfare</b>
\$2,155,900	DOD-Army Medical Research
Schlegel, Vicki	Food Science and Technology
Zhang, Wenhui	Chemical and Biomolecular Engineering
Wu, Joey	Chemical and Biomolecular Engineering
<b>Nelson, J. Ron</b>	<b>Special Education and</b>
	<b>Communication Disorders</b>
	<b>Portales a Aprender Leer (PAL)</b>
\$2,687,442	Dept. of Education
<b>Parkhurst, Lawrence</b>	<b>Chemistry</b>
	<b>Assembly Mechanisms of TBP-Nucleated Complexes</b>
\$1,129,090	DHHS-NIH-NIGMS

<b>Paul, Prem</b>	<b>Vice Chancellor for Research</b>
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
<b>Ragsdale, Stephen</b>	<b>Biochemistry</b>
	Enzymology of Reductive Acetyl-CoA Pathway
\$1,235,700	DHHS-NIH-NIGMS
<b>Sheridan, Susan</b>	<b>Center on Children, Youth, Families and Schools</b>
	* 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
<b>Simpson, Melanie</b>	<b>Biochemistry</b>
	* Role of Hyaluronan Matrix in Prostate Cancer Progression
\$1,084,090	DHHS-NIH-Nat Cancer Institute
<b>Snow, Greg</b>	<b>Physics and Astronomy</b>
	The Cosmic Ray Observatory Project
\$1,374,005	NSF
Claes, Daniel	Physics and Astronomy
<b>Van Etten, James</b>	<b>Plant Pathology</b>
	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
<b>Verma, Shashi</b>	<b>School of Natural Resources</b>
	Great Plains Regional Center for Global Environmental Change
\$2,214,769	Dept. of Energy/NIGEC
	Carbon Sequestration in Agriculture
\$1,139,462	Kansas State University
Knops, Johannes	Biological Sciences
<b>Walker, Judy</b>	<b>Mathematics</b>
	EMSW21-MCTP: Nebraska Mentoring through Critical Transition Points
\$2,500,000	NSF
Marley, Tom	Mathematics
<b>Wedin, David</b>	<b>School of Natural Resources</b>
	Sand Hills Biocomplexity: Integrating Biogeophysical Processes Across Space and Time
\$1,794,730	NSF
Loope, David	Geosciences

<b>Weeks, Donald</b>	<b>Biochemistry</b>
* Development of Dicamba-Resistant Crops	
\$2,500,000	Monsanto Co.
<b>Whitbeck, Les</b>	<b>Sociology</b>
Great Plains Cultural Ways Mental Health Careers Program	
\$1,514,284	DHHS-NIH-NIMH
Moore, Helen	Sociology
<b>White, Lynn</b>	<b>Sociology</b>
Infertility: Pathways & Psychosocial Outcomes	
\$2,559,414	DHHS-NIH-NICHD
McQuillan, Julia	Sociology
<b>Wilcke, William</b>	<b>IANR-Research</b>
North Central Regional Sustainable Agriculture Research & Education Program – SARE	
\$2,707,719	Dept. of Agriculture-CSREES
<b>Wilhite, Donald</b>	<b>School of Natural Resources</b>
* Rangeland and Forage Geospatial Decision Support System for Drought Risk Management	
\$1,023,038	Dept. of Agriculture-RMA
<b>Wilson, Brent</b>	<b>Mechanical Engineering</b>
Development of Improved Product Performance through Optimization & Modeling of Engineering Materials Processing & Function	
\$1,351,226	Brenco
<b>Wood, Charles</b>	<b>Biological Sciences</b>
Kaposi's Sarcoma & Human Herpesvirus in Africa	
\$2,783,369	DHHS-NIH-Nat Cancer Institute
Programs in HIV & AIDS Assoc Diseases/Malignancies	
\$1,938,760	DHHS-NIH-Fogarty Intl Center
Evolution of Clade C HIV-1 in Infected Children	
\$1,586,250	DHHS-NIH-NICHD
Research Training in Comparative Viral Pathogenesis	
\$1,217,271	DHHS-NIH-NIAID
Vaccination against Intrapartum HIV Clade C Transmission	
\$959,278	Dana-Farber Cancer Institute
<b>Yamamoto, Catherine</b>	<b>Student Affairs</b>
Talent Search Program	
\$1,626,225	Dept. of Education
Upward Bound Program–Northeast Nebraska	
\$1,238,496	Dept. of Education
Student Support Services Program	
\$1,889,008	Dept. of Education
<b>Yohe, John</b>	<b>IANR-Intl Programs</b>
Post Graduate Training and Collaborative Research to Strengthen INIA of Mozambique	
\$1,199,985	USAID



**Zempleni, Janos**

**Nutrition and Health Sciences**

Vitamin-Dependent Modifications of Histones

\$1,014,269

DHHS-NIH-NIDDK

**Zhang, Luwen**

**Center for Virology**

\* Oncogenic Properties of Interferon Regulatory Factor 7

\$1,145,961

DHHS-NIH-Nat Cancer Institute

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

Active awards in 2005

\* Indicates new in 2005

- 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

<b>Avramov, Luchezar</b>	<b>Mathematics</b>
Homology & Cohomology over Commutative Rings	
\$356,322	NSF
<b>Avramova, Zoya</b>	<b>Biological Sciences</b>
ATX1, Epigenetic Regulator of Plant Development	
\$442,500	NSF
<b>Ayers, Jerry</b>	<b>School of Natural Resources</b>
* 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
<b>Azizinamini, Atorod</b>	<b>Civil Engineering</b>
* Simple for Dead-Continuous for Live Load System with Partial Pre-Fabricated Deck System	
\$242,038	Ne Dept. of Roads
Design, Construction, Testing & Development of Design Specification for High Performance Steel Bridges	
\$290,000	Ne Dept. of Roads
Rizos, Dimitri	Civil Engineering
Development of Design Tools for Steel Bridge Systems, Simple for Dead Loads & Continuous for Superimposed Dead Load & Live Loads	
\$226,306	Ne Dept. Roads
Steel Box System Monitoring of N-2 over I-480 Bridge	
\$292,244	Ne Dept. Roads
IBRC 2002 Project	
\$240,000	Ne Dept. Roads
<b>Baenziger, P. Stephen</b>	<b>Agronomy and Horticulture</b>
* 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
<b>Barletta, Raul</b>	<b>Veterinary and Biomedical Sciences</b>
Molecular Analysis of Mycobacterium Paratuberculosis Colony-Morphology Attenuated Mutant	
\$270,000	Dept. of Agriculture-NRICGP
<b>Basolo, Alexandra</b>	<b>Biological Sciences</b>
* Behavioral Plasticity in Preexisting Receiver Bias	
\$360,000	NSF
Effects of Sexual Selection & Predation on a Genetic Polymorphism for Body Size	
\$519,721	NSF

<b>Batelaan, Herman</b>	<b>Physics and Astronomy</b>
\$424,997	Matter Optics with Intense Laser Light NSF
<b>Becker, Donald</b>	<b>Biochemistry</b>
\$693,134	Spectroelectrochemistry of the Novel PutA Flavoprotein DHHS-NIH-NIGMS
<b>Belli, Robert</b>	<b>Gallup Research Center</b>
\$414,430	Verbal Behaviors in Computerized Lifecourse Surveys DHHS-NIH-Nat Inst Aging
<b>Belot, John</b>	<b>Chemistry</b>
\$365,000	GOALI: Chemical Factors Affecting Metal-Organic Chemical Vapor Deposition Precursors NSF
<b>Benson, Andrew</b>	<b>Food Science and Technology</b>
\$261,515	* Functional Consequences of Genome Evolution in Listeria Monocytogenes Dept. of Agriculture-NRICGP
\$391,459	Genome Biology of Francisella tularensis Populations DHHS-NIH-NIAID
\$372,468	Population Genomes of Listeria Monocytogenes Dept. of Agriculture-NRICGP
<b>Berkowitz, David</b>	<b>Chemistry</b>
\$419,416	New Approaches to Catalyst Screening & Development NSF
\$214,500	Development of Cystathionine Beta-Synthase Inhibitors American Heart Association
<b>Beukelman, David</b>	<b>Special Education and Communication Disorders</b>
\$284,994	* Rehabilitation Engineering Research Center on Communication Enhancement Duke University Medical Center
<b>Bevins, Rick</b>	<b>Psychology</b>
\$902,065	Acquired Appetitive Properties of Nicotine DHHS-NIH-NIDA
<b>Bi, Xin</b>	<b>Biochemistry</b>
\$926,572	Heterochromatin Domains & Boundary Elements DHHS-NIH-NIGMS
Chiu, Ya-Hui	Biochemistry
<b>Billesbach, David</b>	<b>Biological Systems Engineering</b>
\$380,376	Development & Field Testing of a Rapidly Deployable Carbon Dioxide Flux Management System Dept. of Energy-Berkeley Nat Lab
<b>Blum, Paul</b>	<b>Biological Sciences</b>
\$413,380	Gene Silencing & Catabolite Repression in the Archaeon Sulfolobus Solfataricus NSF

<b>Bond, Alan</b>	<b>Biological Sciences</b>
\$544,548	Mechanisms of Social Cognition
Kamil, Alan	DHHS-NIH-NIMH Biological Sciences
	Virtual Ecology: Experimental Tests of Evolution in Predator-Prey Systems
\$461,000	NSF
Kamil, Alan	Biological Sciences
<b>Brand, Jennifer</b>	<b>Center for Materials Research</b>
	Boron Carbide Semiconductor Films
\$307,826	DOD-Battelle
<b>Buhler, Stephen</b>	<b>English</b>
	Leadership for Institutional Change
\$265,000	W. K. Kellogg Foundation
<b>Bulling, Denise</b>	<b>Public Policy Center</b>
	* Hospital Preparedness
\$281,520	Ne Dept. Health and Human Services
<b>Burbach, Mark</b>	<b>School of Natural Resources</b>
	* Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Programs
\$403,293	Dept. of Agriculture-RMA
Ramamurthy, Byrav	Computer Science and Engineering
<b>Burson, Dennis</b>	<b>Animal Science</b>
	Listeria Monocytogenes Controls in Ready to Eat Meat Products
\$599,732	Dept. of Agriculture-CSREES
Thippareddi, Harshavardhan	Food Science and Technology
<b>Cady, Daniel</b>	<b>Cooperative Extension</b>
	* Nebraska Technology Transfer Center at UNL
\$310,000	Nebraska Dept. Roads
<b>Caldwell, Robert</b>	<b>School of Natural Resources</b>
	Manure & Nutrient Management Practices to Protect Human Health & the Environment
\$662,200	Dept. of Agriculture-ARS
<b>Carlo, Gustavo</b>	<b>Psychology</b>
	Parenting & Sociocognitive Correlates of Prosocial Behaviors in Mexican American & European American Children
\$339,283	NSF
<b>Cerutti, Heriberto</b>	<b>Biological Sciences</b>
	Transcriptional Gene Silencing in Chlamydomonas & Arabidopsis
\$400,000	NSF
<b>Chollet, Raymond</b>	<b>Biochemistry</b>
	Molecular/Biochemical Investigations of PEPC (and its novel ser/thr-Kinase) and SuSy (Nodulin-100), 2 phosphorylated Metabolic Enzymes in Plants
\$749,024	NSF

<b>Claes, Daniel</b>	<b>Physics and Astronomy</b>
	Experimental High Energy Physics
\$573,000	NSF
Snow, Gregory	Physics and Astronomy
<b>Clemente, Thomas</b>	<b>Biotechnology/Plant Science Initiative/Agronomy and Horticulture</b>
	Agrobacterium-Mediated Genetic Transformation of Wheat & Soybeans
\$345,537	Dept. of Agriculture-ARS-BRDC
	From Proplastid to Chloroplast; Understanding Plastid Differentiation in Maize by Microarray & Proteome Analysis
\$389,225	Cornell University
	Research in Nebraska on Improved Soybean Oil for Biodiesel Fuel
\$491,000	Dept. of Energy
<b>Comfort, Steven</b>	<b>School of Natural Resources</b>
	* Field-Scale Demonstrations of Innovative Remediation Techniques for Contaminated Soil and Water
\$994,100	Environmental Protection Agency
<b>Costello, Don</b>	<b>Computer Science and Engineering</b>
	GAANN Fellowships for Computer Science & Engineering
\$498,132	Dept. of Education
<b>Crockett, Lisa</b>	<b>Psychology</b>
	Ethnicity, Parenting and Adolescent Adjustment
\$387,748	DHHS-NIH-NICHD
<b>Daly, Edward</b>	<b>Educational Psychology</b>
	School Psychology Leadership Specialization in Response-to-Intervention Research & Systems Change
\$800,000	Dept. of Education
McCurdy, Merilee	Educational Psychology
Sheridan, Susan	Educational Psychology
Kunz, Gina	Educational Psychology
<b>DeKraai, Mark</b>	<b>Public Policy Center</b>
	* Child Mental Health SIG
\$650,000	Nebraska Dept. Health and Human Services
<b>DiMagno, Stephen</b>	<b>Chemistry</b>
	* Hydrogen for Fuel Cells
\$966,000	DOD-Office of Naval Research
Takacs, James	Chemistry
Berkowitz, David	Chemistry
	Hydrogenase and Alkane Functionalization Catalysts
\$599,748	DOD-Office of Naval Research
Redepenning, Jody	Chemistry
<b>Dobermann, Achim</b>	<b>Agronomy and Horticulture</b>
	Harnessing Breakthroughs in Nutrient Management & Information Technology for Greater Profitability in Corn, Soybeans & Dry Beans
\$300,000	Ne Dept. Agriculture

**Dowben, Peter** **Center for Materials Research**  
 Development of Semiconducting Boron Carbide  
 for Solid State Neutron Detectors  
 \$905,000 DOD-Office of Naval Research  
 Adenwalla, Shireen Center for Materials Research  
 Balkir, Sina Electrical Engineering  
 Brand, Jennifer Center for Materials Research  
 Doudin, Bernard Center for Materials Research  
 Hallbeck, Susan Center for Materials Research  
 Robertson, Brian Center for Materials Research  
 Paul, Prem Vice Chancellor for Research  
 Surface Chemistry of Adsorbates on Crystalline Polymers  
 \$380,000 NSF

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

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

**Dzenis, Yuris** **Engineering Mechanics**  
 Fundamentals of Fabrication of  
 Nanofiber Assemblies by Electrospinning  
 \$372,000 NSF  
 Farritor, Shane Mechanical Engineering  
 Novel Continuous Carbon Nanofibers for the  
 Next Generation Lightweight Structural Nanocomposites  
 \$252,362 DOD-Air Force Off of Sci Rsch  
 Ultra High Speed Digital Imaging System  
 \$330,746 DOD-Army Rsch Office -DURIP

**Eccarius, Malinda** **Special Education and  
 Communication Disorders**  
 \* Mountain Prairie Upgrade Partnership - Early Childhood  
 \$781,642 Dept. of Education  
 Marvin, Chris Special Education and Communication Disorders

<b>Elbaum, Sebastian</b>	<b>Computer Science and Engineering</b>
	ITR/SW: Collaborative Research: A New Generation of Scalable, Cost-Effective Regression Testing Techniques
\$251,018	NSF
	ITR: Dependable End-User Software
\$211,294	NSF
<b>Engen-Wedin, Nancy</b>	<b>Teaching, Learning and Teacher Education</b>
	* Indigenous Roots Teacher Education Program
\$704,730	Dept. of Education
McGowan, Thomas	Teaching, Learning and Teacher Education
<b>Epstein, Michael</b>	<b>Special Education and Communication and Disorders</b>
	Leadership Training in Emotional Disturbance Disorders
\$590,854	Dept. of Education
	Postdoctoral Training in Emotional & Behavioral Disorders
\$471,512	Dept. of Education
	Early Childhood Mental Health Project
\$716,290	Dept. of Education
	Randomized Clinical Trial of Wraparound Services for Elementary School Students in School Settings
\$538,266	Dept. of Education
<b>Fabrikant, Ilya</b>	<b>Physics and Astronomy</b>
	Collision Processes Involving Low-Energy Electrons
\$210,000	NSF
<b>Farritor, Shane</b>	<b>Mechanical Engineering</b>
	Track Stability Assessment
\$461,944	Dept. of Transportation-FRA
Palmer, Robert	Electrical Engineering
<b>Fritz, Sherilyn</b>	<b>Geosciences</b>
	Lake Titicaca Drilling Project
\$314,167	NSF
<b>Fuller, Robert</b>	<b>Physics and Astronomy</b>
	Algebra-Based Physics with Human Applications
\$378,798	NSF
Spiegel, Amy	Educational Psychology
Plano-Clark, Vicki	Physics and Astronomy
<b>Ganow, Marcella</b>	<b>Civil Engineering</b>
	* Nebraska ITS Program Support and ITS Architecture Maintenance
\$207,488	Ne Dept. Roads
Glenn, Kathleen	Civil Engineering
<b>Gardner, Scott</b>	<b>School of Biological Sciences</b>
	Worm-Web: Georeferencing Computerized Data & Linking Databases in the Manter Laboratory of Parasitology
\$420,107	NSF
Hosier, Aaron	Information Services



<b>Gaskell, C. Martin</b>	<b>Physics and Astronomy</b> Variability of Active Galactic Nuclei	\$435,611	NSF
<b>Gay, Timothy</b>	<b>Physics and Astronomy</b> Polarized Electron Physics	\$652,002	NSF
<b>Gibson, Robert</b>	<b>Biological Sciences</b> Graduate Assistance in Areas of National Need: Integrating Ecology, Evolution, Geosciences, & Sustainable Natural Resource Management/Agriculture	\$452,850	Dept. of Education
	Graduate Assistance in Areas of National Need Fellowship for Ecology, Evolution & Behavior at UNL	\$622,665	Dept. of Education
<b>Ginting, Daniel</b>	<b>Agronomy and Horticulture</b> Pollution & Economic Decision Support Tool for Impaired Watershed Management Plans in Eastern Nebraska	\$335,000	Dept. of Agriculture-CSREES
Helmets, Glenn	Agricultural Economics		
Mamo, Martha	Agronomy and Horticulture		
Wortman, Charles	Agronomy and Horticulture		
<b>Gitelson, Anatoly</b>	<b>School of Natural Resources</b> Consequences of Institutional Change: Land-Cover Dynamics in Kazakhstan 1960-2000	\$538,780	NASA
<b>Gladyshev, Vadim</b>	<b>Biochemistry</b> Identity of Terminator & Selenocysteine UGA Codons	\$789,237	DHHS-NIH-NIGMS
<b>Goddard, Stephen</b>	<b>Computer Science and Engineering</b> Energy-Aware CPU & I/O Scheduling for Embedded, Real-Time Systems	\$200,000	NSF
<b>Graef, George</b>	<b>Agronomy and Horticulture</b> * Sclerotinia Resistance Enhanced by Accumulation of QTL Transgenic Approaches	\$223,142	Dept. of Agriculture-ARS
Clemente, Thomas	Agronomy and Horticulture		
Steadman, James	Plant Pathology		
<b>Greve, Vickie</b>	<b>Northeast Research and Extension Center</b> Communities Together Can	\$389,000	Dept. of Agriculture-CSREES
Swanson, Douglas	Cooperative Extension		
<b>Griesen, James</b>	<b>Vice Chancellor for Student Affairs</b> NU Directions: Program to Reduce High-Risk Drinking	\$468,000	Robert Wood Johnson Foundation
Major, Linda	Student Affairs		

<b>Hage, David</b>	<b>Chemistry</b>
\$938,559	Chromatographic Automation of Immunoassays DHHS-NIH-NIGMS
<b>Harbison, Gerard</b>	<b>Chemistry</b>
\$845,363	Structure & Dynamics of DNA Hairpins DHHS-NIH-NIGMS
<b>Hardy, John</b>	<b>Physics and Astronomy</b>
\$240,000	Studies on Novel Ferroelectrics for Microwave Optics DOD-Army Research Office
<b>Harshman, Lawrence</b>	<b>Biological Sciences</b>
\$505,985	Identification of Genes & Proteins that Regulate Stress Resistance DOD-DEPSCoR
<b>Harwood, David</b>	<b>Geosciences</b>
\$482,361	Acquisition of a Drilling Rig to Recover Geological Records from the Antarctic Margin for the ANDRILL Consortium NSF
<b>Hay, DeLynn</b>	<b>IANR-Cooperative Ext</b>
\$910,283	North Central Region Sustainable Agriculture Professional Development Program—FY 2005 Dept. of Agriculture-CSREES
<b>Hayes, Michael</b>	<b>School of Natural Resources</b>
\$241,094	Improved Drought Monitoring Through the Integration of Climate & Satellite-based Data Dept. of Interior-GS
Hubbard, Kenneth	School of Natural Resources
Wilhite, Donald	School of Natural Resources
<b>Hebets, Eileen</b>	<b>Biological Sciences</b>
\$240,000	* Searle Scholar: Exploring Neural Basis of Complex Behavior in Amblypygids Chicago Community Trust/Searle Scholar
<b>Hefle, Sue</b>	<b>Food Science and Technology</b>
\$417,610	Allergenicity Evaluation of Isinglass Various Industries
Taylor, Steve	Food Science and Technology
<b>Hein, Gary</b>	<b>Panhandle Research and Extension Center</b>
\$425,823	Biologically Intensive Area-wide IPM of Russian Wheat Aphid & Greenbug Dept. of Agriculture-ARS
<b>Henry, Chris</b>	<b>Biological Systems Engineering</b>
\$567,750	Livestock Producer Environmental Assistance Project Ne Environmental Trust
<b>Henze, Gregor</b>	<b>School of Engineering Technology</b>
\$357,781	Predictive Optimal Control of Active & Passive Building Thermal Storage Inventory Dept. of Energy-Natl Energy Tech

- Holmes, Mary Anne** **Geosciences**  
*Where Are the Women Geoscientists?*  
 \$272,224 NSF
- Holz, John** **School of Natural Resources**  
*\* Classification of Nebraska Streams and Rivers:  
 Phase I Data Assessment, Collection and Analysis*  
 \$287,853 Nebraska Dept. Environmental Quality  
 Hoagland, Kyle School of Natural Resources
- Horn, Christy** **Educational Psychology**  
*Building Accepting Campus Communities*  
 \$945,171 Dept. of Education
- Hubbard, Kenneth** **School of Natural Resources**  
*Operations & Services of the Regional Climate Centers*  
 \$798,302 Dept. of Commerce-NOAA-Desert
- Hu, Qi (Steve)** **School of Natural Resources**  
*Engaging Agricultural Communities in Great Plains of US with  
 Applications & Development of Climate Prediction & Information*  
 \$436,424 Dept. of Commerce-NOAA
- Hutkins, Robert** **Food Science and Technology**  
*Food Safety: Life-Long Learning through Teacher Training*  
 \$400,000 Dept. of Agriculture-NRICGP  
 Durso, Lisa Food Science and Technology  
 Rupnow, John Food Science and Technology  
 Thippareddi, Harshavardhan Food Science and Technology  
 Whipple, Georgianna Food Science and Technology
- Hygnstrom, Scott** **School of Natural Resources**  
*\* Development of Spatially Explicit Models of Wildlife Diseases*  
 \$315,069 Dept. of Agriculture-APHIS
- Impara, James** **Educational Psychology**  
*Consulting Services/Assist Oklahoma Commission  
 for Teacher Preparation*  
 \$220,090 Oklahoma Office of Public Affairs  
 Buckendahl, Chad Educational Psychology
- Inan, Mehmet** **Chemical and Biomolecular Engineering**  
*\* Expression of Chimeric Antibody in Pichia pastoris*  
 \$297,562 Research Corporation
- Inderbitzen-Nolan, Heidi** **Psychology**  
*Etiological Factors in Adolescent Social Phobia*  
 \$614,387 DHHS-NIH-NIMH
- Jaacks, Duane** **Physics and Astronomy**  
*Mass Dependent Effects in Correlated Motion of  
 Massive Coulomb Interacting Particles*  
 \$717,500 NSF

<b>Jameson, Mary Liz</b>	<b>University of Nebraska State Museum</b>
\$750,000	Monography & Phylogeny of New World Scarabaeoid Beetles
Ratcliffe, Brett	NSF Entomology
<b>Johnson, Ron</b>	<b>School of Natural Resources</b>
\$222,513	* Common Sense Conservation of Endangered Species-Tern and Plover
	Nebraska Environmental Trust
<b>Jones, Clinton</b>	<b>Veterinary and Biomedical Sciences</b>
\$349,500	Functional Analysis of biCPO
Zhang, Yange	Dept. of Agriculture-NRICGP Veterinary and Biomedical Sciences
\$319,600	Regulation of the Latency-Reactivation Cycle by the Bovine Herpesvirus 1 (BHV-1) Latency Related (LR) Gene
	Dept. of Agriculture-CSREES
<b>Jones, Elizabeth</b>	<b>Civil Engineering</b>
\$921,414	ITS Resource, Research & Educational Activities at Peter Kiewit Institute
	Ne Dept. Roads
<b>Jones, Erick</b>	<b>Industrial and Management Systems Engineering</b>
\$250,000	* Center for Engineering Logistics and Distribution at UNL
	NSF
<b>Jose, H. Douglas</b>	<b>Agricultural Economics</b>
\$705,000	Trade Adjustment Assistance Program
	Dept. of Agriculture-RMA
<b>Josiah, Scott</b>	<b>NE State Forest Service</b>
\$350,000	Community Enhancement Program
	Ne Dept. Roads
<b>Kamble, Shripat</b>	<b>Entomology</b>
\$209,479	Nebraska Pesticide Information Network: Crop-Livestock Profiles & Pest Management Strategic Plan
	Michigan State University
<b>Kelling, Clayton</b>	<b>Veterinary and Biomedical Sciences</b>
\$289,116	* Role of Nonstructural Proteins in Pestivirus Virion Assembly
	DHHS-NIH-NIAID
<b>Kennedy, Patricia</b>	<b>Marketing</b>
\$350,000	* Socially Constituted Food Consumption of Adolescents
McGarvey, Mary	Dept. of Agriculture-CSREES Economics
Stanek-Krogstrand, Kaye	Nutrition and Health Sciences
<b>Keown, Jeff</b>	<b>Animal Science</b>
\$209,157	Trilateral Curriculum Modification & Rural Community Information Delivery
	Dept. of Education-FIPSE

<b>Khattak, Aemal</b>	<b>Civil Engineering</b>
	Driver Information System at At-Grade Railroad Highway Crossings
\$293,762	Ne Dept. Roads
Pesti, Geza	Civil Engineering
<b>Kostelnik, Marjorie</b>	<b>Education and Human Sciences</b>
	* Planning Project for SAGE Lifelong Learning
\$200,000	Bernard Osher Foundation
Eversoll, Deanna	Education and Human Sciences
<b>Langell, Marjorie</b>	<b>Chemistry</b>
	Surface Chemistry of Rock Salt & Spinel 3D Transition Metal Oxides Tailored by Structural & Compositional Methods
\$425,000	NSF
<b>Ledder, Glenn</b>	<b>Mathematics</b>
	* UBM: Research for Undergraduates in Theoretical Ecology (RUTE)
\$905,000	NSF
Deng, Bo	Mathematics
Gibson, Robert	Biological Sciences
Loladze, Irakli	Mathematics
Louda, Svata	Biological Sciences
<b>Lee, Kevin</b>	<b>Physics and Astronomy</b>
	ClassAction: Model Rapid-Feedback & Dynam Formative Assess System
\$359,768	NSF
Schmidt, Edward	Physics and Astronomy
	Development of Interactive Simulation Environments for Inquiry Astronomy Teaching
\$336,572	NSF
Schmidt, Edward	Physics and Astronomy
<b>Leslie-Pelecky, Diandra</b>	<b>Physics and Astronomy</b>
	* Magnetic Properties of Disordered Rare-Earth Nanostructures
\$420,000	NSF
Shield, Jeff	Mechanical Engineering
<b>Liou, Sy-Hwang</b>	<b>Physics and Astronomy</b>
	Nanometer-Size Magnetic Devices
\$236,000	DOD-DEPSCoR
<b>Loope, David</b>	<b>Geosciences</b>
	Paleometeorological Records from Sand Dunes & Eolian Sand Stones
\$262,570	NSF
<b>Louda, Svata</b>	<b>Biological Sciences</b>
	* Single vs. Multiple Insect Herbivore Guild Interactions in Canada Thistle Dynamics
\$408,760	Dept. of Agriculture-NRICGP
	Insect Herbivore Guild Interactions & Tall Thistle Population Dynamics
\$369,999	NSF

<b>Lu, Yongfeng</b>	<b>Electrical Engineering</b>
	* Laser-Assisted Fabrication of Large-Scale 3-D Photonic Bandgap Structures
\$350,000	DOD-DEPSCoR
Wang, Xinwei	Mechanical Engineering
	Fabrication of Photonic Bandgap Structured in Si & Ge Substrates Using Laser-Assisted Nanoimprinting of Self-Assembled Nanoparticles
\$210,238	DOD-Air Force Off of Sci Rsch
	Magnetic Confinement of Plasmas in Laser-Induced Breakdown Spectroscopy for Improved Sensitivity & Accuracy
\$249,306	Dept. of Energy
<b>Mackenzie, Sally</b>	<b>Plant Science Initiative</b>
	Machinery of Mitochondrial Recombination in Higher Plants
\$494,080	NSF
Christensen, Alan	Biological Sciences
	Mitochondrial Sorting & Inheritance in Arabidopsis
\$303,000	NSF
	Nuclear-Organellar Interactions Involving AtMSH1 in Arabidopsis
\$240,000	Dept. of Energy
	Strategy for the Transgenic Induction of Cytoplasmic Male Sterility in Crop Plants
\$343,108	Dept. of Agriculture-BRDC
<b>Martin, Alex</b>	<b>Agronomy and Horticulture</b>
	IWM Implementation: A Regional Approach
\$766,718	Dept. of Agriculture-CSREES
<b>Martin, Derrel</b>	<b>Biological Systems Engineering</b>
	* Modeling and Field Experimentation to Determine Effects of Land Terracing-Republican River Basin (CESU)
\$380,000	Dept. of Interior-BR
	Food & Agricultural Sciences National Needs Graduate Fellowship Grants Program
\$276,000	Dept. of Agriculture-CSREES
<b>Meagher, Michael</b>	<b>Chemical and Biomolecular Engineering</b>
	* Recombinant Type E Botulinum Neurotoxin Vaccine
\$345,756	DynPort Vaccine Company
Swanson, Todd	Chemical and Biomolecular Engineering
	cGMP Clinical Research Product/IFN-t/500 L-scale
\$819,466	Pepgen Corporation
<b>Miller, Nancy</b>	<b>Textiles, Clothing and Design</b>
	* Collaborative Research on Small Business Network Creation and Outcomes for Change and Innovation
\$230,011	NSF
<b>Mitra, Amit</b>	<b>Plant Pathology</b>
	Efficient Gene Silencing by Intrinsic Direct Repeats: Mechanism & Utilization
\$390,000	NSF
	Utilization of Direct Repeat Induced Gene Silencing in Plant Functional Genomics
\$200,000	Dept. of Agriculture-NRICGP

<b>Morris, T. Jack</b>	<b>Biological Sciences</b>
The Role of a Host Protein (TIP) in the Resistance Response of Arabidopsis to Turnip Crinkle Virus Infection	
\$360,000	Dept. of Energy
<b>Moxley, Rodney</b>	<b>Veterinary and Biomedical Sciences</b>
* Influence of Enterotoxins on Virulence and Colonization of Porcine Intestine by E.coli	
\$270,000	Dept. of Agriculture-NRICGP
Role of A/E Proteins in E.Coli:O157:H7 in Intestinal Colonization of Adult Cattle	
\$370,000	Dept. of Agriculture-NRICGP
<b>Nickerson, Kenneth</b>	<b>Biological Sciences</b>
Structure of Extracellular Quorum Sensing Molecules from Dimorphic Fungi	
\$325,000	NSF
Atkin, Audrey	Biological Sciences
Dussault, Patrick	Chemistry
<b>Noureddini, Hossein</b>	<b>Chemical and Biomolecular Engineering</b>
* Reduction of Phosphorus from Ethanol By-Product used as Livestock Feed	
\$210,781	Nebraska Corn Board
<b>Orr, John</b>	<b>Mathematics</b>
Assessment of Student Achievement in Undergraduate Education (ASA)	
\$493,156	NSF
Jones, C. Edward	Physics and Astronomy
Lindsay-Griffin, Nancy	Geosciences
Lee, Kevin	Arts & Sciences
Ledder, Glen	Mathematics
Evolution of Advanced Electronic Educational Support Material	
\$408,752	Brownstone Research Group
<b>Orti, Guillermo</b>	<b>Biological Sciences</b>
* RCN: DeepFin will Advance the Phylogeny of "Fishes"	
\$500,000	NSF
<b>Pattnaik, Asit</b>	<b>Veterinary and Biomedical Sciences</b>
Analyses of Virulence & Attenuation Determinants of PRRSV using Reverse Genetics	
\$320,000	Dept. of Agriculture-NRICGP
Osorio, Fernando	Veterinary and Biomedical Sciences
VSV RNA Transcription and Replication	
\$996,128	DHHS-NIH-NIAID
<b>Peters, Ed</b>	<b>School of Natural Resources</b>
Ecology & Management of Pallid Sturgeon & Sturgeon in the Lower Platte River	
\$572,260	Ne Game & Parks Commission
Platte River Fisheries Research	
\$701,000	Ne Game & Parks Commission
Nebraska Statewide Stream Inventory	
\$329,967	Ne Game & Parks Commission

- Pilson, Diana** **Biological Sciences**  
 \* Transgenic Virus Resistant Squash: Ecological Effect  
 \$314,877 Dept. of Agriculture-CSREES  
 Morris, T. Jack Biological Sciences
- Ragsdale, Stephen** **Biochemistry**  
 \* Enzymology of Methanogenesis: Mechanism  
 of Methyl-Coenzyme M Reductase  
 \$280,000 Dept. of Energy  
 Biochemistry of the Anaerobic  
 Dehalogenation of Chlorinated Aromatics  
 \$435,000 NSF
- Rajca, Andrzej** **Chemistry**  
 Organic Polymers with Magneto-Dielectric Properties  
 \$308,608 DOD-Air Force Off of Sci Rsch  
 Ducharme, Stephen Physics & Astronomy  
 Very High-Spin Polyradicals & Chiral Pi-Conjugated Systems  
 \$555,000 NSF
- Rajurkar, Kamlakar** **Industrial and Management  
 Systems Engineering**  
 Analysis & Gap Monitoring for Improving  
 Micro EDM Performance-Supplement  
 \$202,500 NSF  
 Yu, Zuyuan Industrial and Management Systems Engineering
- Ramamurthy, Byrav** **Computer Science and Engineering**  
 Secure Group Communication over Wired & Wireless Networks  
 \$349,990 NSF  
 Variyam, Vinod Computer Science and Engineering
- Ratcliffe, Brett** **Entomology**  
 A Faunistic Survey of the Dynastinae of  
 Honduras, Nicaragua & El Salvador  
 \$342,842 NSF
- Redepinning, Jody** **Center for Materials Research**  
 \* Chemically Modified Nano-Electrodes  
 for Magnetolectronics Applications  
 \$390,000 NSF  
 Doudin, Bernard Center for Materials Research  
 Binek, Christian Physics and Astronomy  
 Sokolov, Andrei Physics and Astronomy
- Reichenbach, Stephen** **Computer Science and Engineering**  
 SEI: Information Modeling for  
 Comparative Visualizations & Analyses  
 \$351,428 NSF
- Reid, John** **Mechanical Engineering**  
 Investigating the Use of Small Diameter  
 Softwood as Guardrail Posts  
 \$280,000 Dept. of Agriculture-FS  
 Faller, Ronald Civil Engineering



- Rilett, Laurence** **Civil Engineering**  
 \* Development of State of the Art Traffic  
 Micro-Simulation Model for Nebraska  
 \$222,896 Ne Dept. Roads  
 Jones, Elizabeth Civil Engineering
- Robertson, Brian** **Mechanical Engineering**  
 Development of a Novel Inorganic Dielectric  
 Barrier Layer for Magneto-Resistive Junctions  
 \$400,000 NSF  
 Doudin, Bernard Physics and Astronomy  
 Dowben, Peter Physics and Astronomy
- Rohde, John** **Civil Engineering**  
 Midwest States Regional Pooled Fund Program-Yr 15  
 \$545,000 Ne Dept. Roads  
 Sicking, Dean Civil Engineering  
 Reid, John Mechanical Engineering  
 Faller, Ron Midwest Roadside Safety Facility
- Rothermel, Gregg** **Computer Science and Engineering**  
 \* CRI: Community Resource to Support Controlled  
 Experimentation with Program Analysis and Testing Techniques  
 \$874,636 NSF  
 Elbaum, Sebastian Computer Science and Engineering  
 Dwyer, Matthew Computer Science and Engineering  
 \* ITR: Dependable End-User Software  
 \$282,992 Oregon State University
- Samal, Ashok** **Computer Science and Engineering**  
 Intelligent Joint Evolution of Data & Information:  
 An Integrated Framework for Drought Monitoring & Mitigation  
 \$214,000 NSF  
 Hayes, Michael School of Natural Resources  
 Hubbard, Kenneth School of Natural Resources  
 Soh, Leen-Kiat Computer Science and Engineering  
 Svoboda, Mark School of Natural Resources  
 Waltman, William Computer Science and Engineering  
 Wilhite, Donald School of Natural Resources
- Saraf, Ravi** **Chemical and Biomolecular Engineering**  
 \* Nanodevice for Imaging Normal Stress Distribution with  
 Application in Sensing Texture and Feel by Touching  
 \$217,156 NSF
- Schacht, Walter** **Agronomy and Horticulture**  
 Grasslands Ecological Monitoring System  
 \$608,880 Dept. of Agriculture-RMA-FCIC

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

\$797,184

Sanger, Dixie

Special Education and Communication Disorders

Dept. of Education

**Project Support: Speech-Language****Pathologists Supporting Literacy Instruction**

\$800,000

Sanger, Dixie

Special Education and Communication Disorders

Dept. of Education

**Selley, Roger****Agricultural Economics****Nebraska AgrAbility**

\$597,720

Dept. of Agriculture-CSREES

**Sellmyer, David****Physics and Astronomy****Acquisition of an X-Ray Diffractometer for  
Nanoscale Materials Research & Education**

\$252,000

NSF

**Shank, Nancy****Public Policy Center****Bridging the Gap: Information &  
Referral Database Interoperability**

\$600,000

Dept. of Commerce-NTIA

**Shapiro, Charles****Northeast Research and Extension Center****\* Improving Organic Farming Systems  
across Nebraska Agroecosystems**

\$762,949

Baltensperger, David

Panhandle Research and Extension Center

Brandle, James

School of Natural Resources

Francis, Charles

Agronomy/Horticulture

Knezevic, Stevan

Northeast Research and Extension Center

Wright, Robert

Entomology

Johnson, Ron

School of Natural Resources

**Sheridan, Susan****Educational Psychology****Leadership Training in Interdisciplinary Collaboration**

\$800,000

Dept. of Education

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

\$340,000

NSF

**Sicking, Dean****Civil Engineering****Identification of Vehicular Impact Conditions  
Associated with Serious Ran-Off-Road Crashes**

\$634,521

Khattak, Aemal

Natl Coop Hwy Rsch Prog

Jones, Elizabeth

Civil Engineering

Civil Engineering

**Improved Procedures for Safety Performance  
Evaluation of Roadside Features**

\$833,940

Reid, John

Natl Coop Hwy Rsch Prog

Rohde, John

Mechanical Engineering

Faller, Ronald

Civil Engineering

Civil Engineering

- Siegfried, Blair** **Entomology**  
 Population Genetics & Molecular Mechanisms of  
 Resistant Western Corn Rootworms  
 \$264,000 Dept. of Agriculture-CSREES  
 Wright, Robert Entomology  
 Meinke, Lance Entomology  
 A Site Specific Field Corn IPM Program that  
 Incorporates Transgenic Technology  
 \$283,913 Pennsylvania State University
- Simpson, Melanie** **Biochemistry**  
 Role of Hyaluronan in Prostate Cancer Progression  
 \$326,250 DOD-Army Medical Research
- Sincovec, Richard** **Computer Science and Engineering**  
 Great Plains Software Technology Initiative for the New Economy  
 \$800,000 Dept. of Education-FIPSE  
 MRI: Acquisition of High Performance Computing &  
 Data Visualization for Scientists & Engineers  
 \$500,000 NSF  
 Jiang, Hong Computer Science and Engineering  
 Ramamurthy, Byrav Computer Science and Engineering  
 Seth, Sharad Computer Science and Engineering  
 Swanson, David Computer Science and Engineering
- Smith, Andrew** **University of Nebraska State Museum**  
 Scarab Biodiversity of Southern South America  
 \$300,000 NSF  
 Ocampo, Federico University of Nebraska State Museum
- Smith, David R.** **Veterinary and Biomedical Sciences**  
 Intervention Strategies to Reduce  
 Escherichia Coli 0157:H7 in Beef Feedyards  
 \$500,000 Dept. of Agriculture-NRICGP  
 Erickson, Galen Animal Science  
 Hinkley, Susanne Veterinary and Biomedical Sciences  
 Klopfenstein, Terry Animal Science  
 Moxley, Rodney Veterinary and Biomedical Sciences
- Soukup, Rodney** **Electrical Engineering**  
 Electronic Devices of Germanium Carbide  
 \$270,000 NSF  
 Ianno, Natale Electrical Engineering
- Specht, James** **Agronomy and Horticulture**  
 Elevating Protein Content in the North Central  
 USA Soybean-Growing States  
 \$642,199 Iowa State University-NCSR  
 Graef, George Agronomy and Horticulture
- Spreitzer, Robert** **Biochemistry**  
 Role of the Rubisco Small Subunit  
 \$618,000 Dept. of Energy

- Srisa-an, Witawas** **Computer Science and Engineering**  
**Building Scalable & Adaptive Garbage Collector for Server Systems**  
 \$281,000 NSF  
 Elbaum, Sebastian Computer Science and Engineering
- Starace, Anthony** **Physics and Astronomy**  
**Dynamics of Few-Body Atomic Processes**  
 \$996,337 Dept. of Energy
- Staswick, Paul** **Agronomy and Horticulture**  
**Jasmonate Signaling in Plants: Activation of Jasmonic Acid  
 by the JAR 1 Response Locus in Arabidopsis Thaliana**  
 \$357,937 NSF
- Steadman, James** **Plant Pathology**  
**Bean/Cowpea Collaborative Research Support Program**  
 \$302,760 Michigan State University
- Steckelberg, Allen** **Special Education and  
 Communication Disorders**  
**High Plains Regional Technology in Education Consortium**  
 \$257,005 University of Kansas
- Stentz, Terry** **Construction Management**  
**\* Human Factors in Railway Operation**  
 \$590,000 Dept. of Transportation-FRA  
 Jones, Elizabeth Civil Engineering  
 Rilett, Laurence Civil Engineering  
 Khattak, Aemal Civil Engineering  
 Riley, Michael Industrial and Management Systems Engineering
- Stubbendieck, James** **Great Plains Studies**  
**Farm Viability, Farmland Preservation and Smart Growth**  
 \$308,000 Dept. of Agriculture-NRICGP  
 Esseks, J. Dixon Great Plains Studies
- Subramanian, Anu** **Chemical and Biomolecular Engineering**  
**Prep Zirconia Aggregates/Adsorbents in Bioseparations**  
 \$270,131 NSF
- Swanson, David** **Computer Science and Engineering**  
**\* US CMS Tier 2 Center**  
 \$375,000 University of California-Los Angeles  
 Bloom, Kenneth Physics and Astronomy  
 Dominguez, Aaron Physics and Astronomy
- Takacs, James** **Chemistry**  
**Novel Cyclization Reactions for Organic Synthesis**  
 \$422,500 NSF
- Taylor, Steve** **Food Science and Technology**  
**\* Food Allergen Database**  
 \$346,406 Various Industries  
**Midwest Advanced Food Manufacturing Alliance**  
 \$488,921 Dept. of Agriculture-CSREES

- Thippareddi, Harshavardhan** **Food Science and Technology**  
 \* Understanding and Controlling Listeria Monocytogenes  
 Transmission through Ready-to-Eat Meat Products  
 \$222,270 Colorado State University  
 HACCP Assistance for Small & Very Small Processors with  
 Development & Validation of Safe Meat Chilling Processes
- \$599,916 Dept. of Agriculture-CSREES  
 Wang, Lijun Biological Systems Engineering  
 Weller, Curtis Biological Systems Engineering  
 Burson, Dennis Animal Science  
 HACCP Training & Research to Assist Meat Processors with  
 Process Deviations for Lethality & Stabilization  
 \$495,640 Dept. of Agriculture-CSREES
- Tiller, Dale** **School of Engineering Technology**  
 Converging Redundant Sensor Network  
 Information for Improved Building Control  
 \$327,000 Dept. of Energy-Natl Energy Tech  
 Henze, Gregor School of Engineering Technology
- Tonn, Steven** **Southeast Research and Extension Center**  
 Omaha Lake Extension Coordinator  
 \$307,645 Ne Dept. Environmental Quality
- Torquati, Julia** **Family and Consumer Sciences**  
 \* Evaluation of Promising Models and Delivery  
 Approaches to Child Care Provider Training  
 \$239,875 Iowa State University  
 Wilcox, Brian Center on Children, Families and the Law  
 Raikes, Helen Center on Children, Families and the Law
- Tsymbal, Evgeny** **Physics and Astronomy**  
 Theory of Electronic Magnetic & Transport  
 Properties of Nanoscale Magnetic Junctions  
 \$300,000 NSF  
 Jaswal, Sitaram Physics and Astronomy
- Uiterwaal, Kees** **Physics and Astronomy**  
 Inside a Focused Laser Beam: Molecular Dynamics  
 \$442,001 NSF
- Umstadter, Donald** **Physics and Astronomy**  
 \* Ion Acceleration with High Intensity Lasers  
 \$401,277 NSF
- Van Etten, James** **Plant Pathology**  
 \* Center for Innovation in Membrane Protein Production  
 \$287,782 Univ of California-San Francisco  
 Dunigan, David Plant Pathology
- Variyam, Vinod** **Computer Science and Engineering**  
 Studies in Computational Complexity Theory  
 \$200,000 NSF

<b>Vasa, Stanley</b>	<b>Special Education and Communication Disorders</b>
Project NETS: Nebraska Educational Transition Specialists	
\$798,624	Dept. of Education
Scheffler, Marilyn	Special Education and Communication Disorders
<b>Verma, Shashi</b>	<b>School of Natural Resources</b>
Carbon Sequestration in Dryland & Irrigated Agroecosystems	
\$900,000	Dept. of Energy
Cassman, Kenneth	Agronomy and Horticulture
Knops, Johannes	Biological Sciences
Hubbard, Kenneth	School of Natural Resources
Arkebauer, Timothy	Agronomy and Horticulture
Dobermann, Achim	Agronomy and Horticulture
Yang, Haishun	Agronomy and Horticulture
Walters, Daniel	Agronomy and Horticulture
<b>Vidaver, Anne</b>	<b>Plant Pathology</b>
Molecular Characterization of Clavibacter iranicus & Related Species	
\$318,742	Dept. of Agriculture-ARS
<b>Viljoen, Hendrik</b>	<b>Chemical and Biomolecular Engineering</b>
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
<b>Wagner, William</b>	<b>Biological Sciences</b>
* Communication of Direct Mating Benefits to Females	
\$295,283	NSF
<b>Walstad, William</b>	<b>Economics</b>
Interactive Teaching in Undergraduate Economic Courses	
\$674,928	NSF
<b>Wang, Jun</b>	<b>Computer Science and Engineering</b>
* CSR-PDOS: Energy-Efficient, High-Performance Storage Array Systems	
\$260,000	NSF
<b>Wang, Xinwei</b>	<b>Mechanical Engineering</b>
* Sub-Surface Structural Damages in Laser-Assisted Surface Nanostructuring	
\$249,999	NSF
Lu, Yongfeng	Electrical Engineering
<b>Weber, John</b>	<b>Animal Science</b>
Phenotype Screens for Bone Marrow Failure	
\$208,050	Baylor College of Medicine

<b>Weeks, Donald</b>	<b>Biochemistry</b>
	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
<b>Weissinger, Ellen</b>	<b>Graduate Studies</b>
	Ronald E. McNair Graduate Program
\$960,172	Dept. of Education
<b>Weisz, Victoria</b>	<b>Center on Children, Families and the Law</b>
	Nebraska State Court Improvement
\$861,502	Supreme Court of Nebraska
<b>Weldon, Robert</b>	<b>Biological Sciences</b>
	Intracellular Targeting of HIV Gag Proteins
\$393,825	DHHS-NIH-NIAID
<b>Weller, Curtis</b>	<b>Biological Systems Engineering</b>
	Purification Process Influences on Structural & Nutritional Function of Grain Sorghum
\$338,000	Dept. of Agriculture-NRICGP
Carr, Timothy	Nutrition and Health Sciences
Schlegel, Vicki	Food Science and Technology
Cuppett, Susan	Food Science and Technology
Hwang, Keum Taek	Industrial Ag Products Center
Wang, Lijun	Biological Systems Engineering
<b>Whitbeck, Les</b>	<b>Sociology</b>
	Shonga Ska: Sacred Horse Society Drug Prevent Program
\$437,375	DHHS-NIH-Nat Inst Drug Abuse
<b>White, Brett</b>	<b>Animal Science</b>
	Transcriptional Regulation/Porcine GnRH Receptor Gene
\$287,193	Dept. of Agriculture-CSREES
<b>White, Joseph</b>	<b>Sociology</b>
	* Developing an Alcohol Prevention Program with the Dakota
\$388,953	DHHS-NIH-NIAAA
Hoyt, Dan	Sociology
Whitbeck, Les	Sociology
Godfrey, Joyzelle	Sociology
<b>Wiegand, Roger</b>	<b>Mathematics</b>
	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

<b>Wiener, Richard</b>	<b>Psychology</b>
\$269,280	* REU Site: Psychology and Law
	* Jury Bias in Criminal Cases: Sexual Assault, Homicide and Generic Prejudice
\$233,883	NSF
<b>Wilcox, Brian</b>	<b>Center on Children, Families and the Law</b>
\$560,767	Community Context of Rural & Urban Child Neglect
Chambers, Jeff	Pennsylvania State University
Graef, Michelle	Center on Children, Families and the Law
Wiese, Cheryl	Center on Children, Families and the Law
	Sociology
	Midwest Child Care Research Consortium
\$800,000	DHHS-Admin for Child & Families
Torquati, Julia	Family and Consumer Sciences
<b>Wilhite, Donald</b>	<b>School of Natural Resources</b>
\$495,371	Drought Monitoring, Planning & Mitigation
	Dept. of Agriculture-CSREES
	Mitigation & Preparedness Technologies for the US
\$384,819	Dept. of Agriculture-CSREES
<b>Willis, Mary</b>	<b>Anthropology and Geography</b>
\$227,459	Anterior Dentition and Restoration Among Nuer and Dinka Refugees from Sudan
	The Jacob and Valeria Langeloth Foundation
<b>Witkowski, John</b>	<b>Northeast Research and Extension Center</b>
\$237,105	Integrated Network for Tribal College Community Watershed Natural Resources Education
	Iowa State University
<b>Woodward, Gordon</b>	<b>Mathematics</b>
\$400,000	Increasing Participation in Computer Science, Engineering, & Mathematics through NSF Scholarships at the University of Nebraska-Lincoln
Ballard, John	NSF
Ramamurthy, Byrav	Engineering & Technology
Goddard, Steve	Computer Science and Engineering
Lee, Kevin	Computer Science and Engineering
	Arts & Sciences
	Nebraska REU in Applied Mathematics
\$223,987	NSF
Rebarber, Richard	Mathematics
<b>Workman, Tom</b>	<b>Student Affairs</b>
\$293,936	"Greek Revolution": Enabling Cultural Change in UNL Greek Life
	Dept. of Education



- Wortmann, Charles** **Agronomy/Horticulture**  
 \* Integrated Approach to Reduced Risk of Phosphorus  
 Pollution of Surface Waters in Crop-Livestock Based  
 Managed Ecosystems of the Midwest  
 \$235,839 Nebraska Corn Board  
 Erickson, Galen Animal Science  
 Schulte, Dennis Biological Systems Engineering  
 Franti, Tom Biological Systems Engineering  
 Jose, H. Douglas Agricultural Economics
- Wunder, Susan** **Teaching, Learning and Teacher Education**  
 Nebraska Partnership for American History Education  
 \$684,815 Educational Service Unit #7
- Yamamoto, Catherine** **Student Affairs**  
 Upward Bound-Lincoln  
 \$938,496 Dept. of Education  
 Upward Bound Math/Science Project  
 \$891,664 Dept. of Education
- Yang, Yiqi** **Textiles, Clothing and Design**  
 Resistance of Sulfur Dyed Fabrics to Oxidative Bleaching & Acidic  
 Tendering: Improvement & Application  
 \$300,618 Procter & Gamble
- Zeng, Xiao Cheng** **Chemistry**  
 Crystallization and Interfacial Properties of Silicon  
 \$235,000 Dept. of Energy  
 ITR: Multiscale Treatment of Solid-Fluid Interfaces  
 \$400,000 NSF  
 Diestler, Dennis Agronomy and Horticulture  
 Feng, Ruqiang Engineering Mechanics  
 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

Active awards in 2005

\* Indicates new in 2005

## NSF CAREER Grants

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



### Adams, Stephanie

Industrial and Management Systems Engineering

**Designing Effective Teams in the Engineering Classroom for the Enhancement of Learning**

\$623,918

NSF



### Becker, Donald

Biochemistry

**Spectrochemical Studies of Novel PutA Flavoprotein**

\$314,250

NSF



### Binek, Christian

Physics and Astronomy

**\* Education & Research on Nanoscale Spintronic Systems & Heterostructures**

\$500,000

NSF



### Bloom, Kenneth

Physics and Astronomy

**\* Top-Quark Physics, Computing & Software at Large Hadron Collider**

\$550,000

NSF



### Choueiry, Berthe

Computer Science and Engineering

**Detecting Interchangeability Relations in Constraint Satisfaction Problems and Exploiting them in Problem Solving and Interactions with Users**

\$600,000

NSF



### Dominguez, Aaron

Physics and Astronomy

**\* Superior Silicon Tracking & Discovery as CMS & D0**

\$550,000

NSF



### Elbaum, Sebastian

Computer Science and Engineering

**Leveraging Field Data to Test Pervasive Systems**

\$407,494

NSF

**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

**K Awards**

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

**Angeletti, Peter**

Biological Sciences

**Maintenance of Human Papilloma Virus Genes**

\$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

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

Active awards in 2005

\* Indicates new in 2005

## Behrendt, Stephen

English

Genre, Dialogue, and Community in  
British Romantic Fiction

\$124,822

National Endowment for the Humanities

10/01/2004 – 9/30/2005



Stephen Behrendt, George Holmes Distinguished Professor of English, received a major award from the National Endowment for the Humanities to continue support of a summer seminar for university and college professors whose scholarship focuses on individual writers of the British Romantic

Era (c. 1780-1840). The University Libraries has extremely strong primary and secondary holdings, including the Corvey Collection of Romantic era belles lettres. The seminar allows scholars access to the collection and enriches sustained dialogue about inter-genre connections, helps remap the landscape of the British Romantic era and advances future scholarship for applied curricular and pedagogical design.

## Cahan, David

History

\* A Biography of Hermann von Helmholtz

\$80,625

NSF

1/1/2005 – 12/31/2006



David Cahan, Charles Bessey Professor and professor of history, is writing a full-scale, definitive biography of Hermann von Helmholtz (1821-1894), one of the major figures of modern science. The biography will provide a fresh account of Helmholtz's personal life within the context of his family,

schooling and friends, and portray and analyze his working life as a scientist—principally as a physiologist and physicist, but also as a leader in other fields (chemistry, mathematics, psychology and meteorology), all within the context of German science. It will show how he represented the aims, results and image of science to the educated but otherwise non-scientific classes of Europe and America. It also will show the implications of contemporary science that he drew for the fine arts, medicine, industry and society at large. The extensive use of correspondence means the work will be the first new modern biography of Helmholtz as well as one of the most detailed biographies of a scientist ever published.

**Kooser, Ted****English****\* American Life in Poetry Project**

\$50,000

Poetry Foundation

1/1/2005 - 1/31/2006



The Poetry Foundation, in partnership with the Library of Congress, supports the American Life in Poetry project, an initiative of Ted Kooser, the Poet Laureate Consultant in Poetry to the Library of Congress. American Life in Poetry is a free weekly column for newspapers and

online publications featuring a poem written by a contemporary American poet, chosen by Kooser, with a brief introduction written by Kooser. The sole mission of this project is to promote poetry. The Poetry Foundation funds the project, with administrative support provided by the UNL English Department, where the project office is located.

**Myers, Thomas****University of Nebraska  
State Museum****Omaha Indian Cultural Artifacts & Images:  
Online Inventory & Web Site**

\$218,688

Institute of Museum & Library Services  
Libraries

Dee Ann Allison

12/1/01 - 11/30/05



Thomas Myers, curator of anthropology and professor of museum studies and anthropology, and Dee Ann Allison, chair of the Automated Systems Office and professor of libraries, are using a grant from the Institute of Museum & Library Services in a collaborative project to locate and catalog

artifacts and photographic images of the Omaha tribe that are scattered in museums, libraries and private collections worldwide. The key program is development of a Website to make the resulting database of Omaha artifacts and an on-line gallery of images accessible to tribal members, educators, students and the general public. The Nebraska State Historical Society and members of the Omaha Tribe are partners with the NU State Museum and UNL Libraries in this project.

**Price, Kenneth****English****\* Walt Whitman Archive**

\$500,000

National Endowment for the Humanities

8/1/2005 - 3/31/2009



Ken Price, professor of English and Hillegass Chair of 19th Century American Literature, is principal investigator for a \$500,000 We the People Challenge Grant from the National Endowment for the Humanities. The award is contingent on UNL acquiring a 3-1 match of \$1.5 million in the next four years. When

fundraising is completed, the \$2 million establishes an endowment at the University of Nebraska Foundation, the proceeds of which provide permanent annual operating funding for the Walt Whitman Archive. The Whitman Archive is an electronic research and teaching tool that makes Whitman's huge body of work easily

and conveniently accessible. Whitman amassed a huge volume of work during his life. Some 70,000 manuscripts are housed in about 80 locations, although the bulk is known to be in just five libraries. But the logistics of finding these various documents, let alone assessing and comparing their relevance and content, are daunting. The Archive allows scholars to search the entire body of Whitman's writings and scholarship on those works and offers scholarly analysis.

**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  
11/1/2005 - 10/31/2007

Price, Kenneth English Libraries  
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

Active awards in 2005

Indicates new in 2005

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





# 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

## **Azzinamini, Atorod**

Civil Engineering

Title: Composite Action System and Method

Description: HBS Composite Action System

Date: March 29, 2005

No. 6,871,462

Country: United States

## **Balkir, Sina; Leon-Salas, Walter D.; Perez, Lance; Hoffman, Michael**

Electrical Engineering

Title: System and Method for Generating Psuedo-Noise Sequences

Description: Chaos Based Pseudo-Noise (PN) Sequence Generation

Date: December 27, 2005

No. 6,981,010

Country: United States

## **Berkowitz, David**

Chemistry

Title/Description: In Situ Screening to Optimize Variables in Organic Reactions

Date: December 13, 2005

No. 6,974,665

Country: United States

## **Chacon, Ofelia; Barletta, Raul**

Veterinary & Biomedical Sciences

Title: D-Alanine Racemase Mutants of Mycobacteria and Uses Therefore

Description: D-alanine Biosynthetic Enzymes as Targets for Development of Anti-Mycobacterial Drugs and Vaccines

Date: August 16, 2005

No. 6,929,799

Country: United States

**Liu, Mingsheng**

Architecture

Title: Fume Hood Exhaust Stack System

Description: Advanced Stack Systems

Date: May 10, 2005

No. 6,890,252

Country: United States

**Sayood, Khalid; Hoffman, Michael**

Electrical Engineering

Title: System and Method for Joint Source-Channel Encoding, with Symbol Decoding and Error Correction

Description: Self-Correcting Arithmetic Codes for Noisy Communication Channels

Date: May 10, 2005

No. 6,892,343

Country: United States

**Sicking, Dean L.**

Civil Engineering

Title/Description: High-Impact, Energy-Absorbing Vehicle Barrier System

Date: August 9, 2005

No. 6,926,461

Country: United States

**Tadros, Maher; Foster, Edward Terence; Yehia, Sherif**

Civil Engineering, Constructions Systems Technology, Civil Engineering

Title/Description: Pre-cast Post-Tensioned Segmental Pole System

Date: February 8, 2005

No. 6,851,231

Country: United States

**Weeks, Donald**

Biochemistry

Title: Methods and Materials for Making and Using Transgenic Dicamba-Degrading Organisms

Description: Development of Crops Tolerant to Treatment with Dicamba

Date: February 19, 2005

No. 42194

Country: North Korea

Date: August 18, 2005

No. 781125

Country: Australia

Date: December 16, 2005

No. 10-1999-7009092

Country: South Korea

## 2005 INTELLECTUAL PROPERTY LICENSES

UNL Faculty indicated in red

Licensee: Kansas Organic Producers  
Description: NE99495 plant variety.  
Inventor: **Baenziger, Stephen**  
Department: Agronomy and Horticulture

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

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

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

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

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

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

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

Licensee: USDA ARS, APTRU, Delaware State University, Morgan State University, UNL Agronomy and Horticulture Department  
Description: Licensed CALMIT Software.  
Inventor: **Rundquist, Don**  
Department: Conservation and Survey Division

Licensee: Big Sky Wholesale Seed Inc.

Licensee: Heritage Seed Co. Inc.

Description: Beefmaker plant variety.

Inventor: Vogel, Kenneth P.

Department: USDA-ARS

Licensee: Monsanto

Description: Germplasm comprising a dicamba-resistance gene.

Inventor: Weeks, Don

Department: Biochemistry

Licensee: Upstate

Description: Antibody(ies) developed and characterized at UNL, which is specific to monoclonal antibody(ies) against biotinylated Histone H4.

Inventors: Zempleni, Janos; Sarath, Gautam

Department: Nutritional Science and Dietetics, Biochemistry

# CREATIVE WORKS IN FINE AND PERFORMING ARTS

Faculty who created, performed and produced creative works  
in fine and performing arts.

## **Faculty Chamber Music Recital Series**

**School of Music**

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**

**School of Music**

Bailey, John

McMullen, William

Barger, Diane C.

Micklich, Albie

French, Allen

Performance/Lecture, Quebec City, Canada, College Music Society National Conference and Alcalá de Heneras, Spain; College Music Society International Conference. Wind Chamber Music of Theodor Blumer.

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

## **University of Nebraska Brass Quintet**

**School of Music**

Anderson, Scott L.

White, Darryl

Bircher, K. Craig

French, Allen

Fuller, Craig

Chamber Music Recital featuring original brass quintet music at Central Presbyterian Church, Denver, Colo., and Colorado State University, Fort Collins, Colo.

## **Bailey, John R.**

**School of Music**

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.**

**School of Music**

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

January 2005- December 2005. Seven of Bartels' digital lenticular and polyester prints selected for online juried exhibition.

**Fritz, Dana****Art & Art History**

Artist Residency, Alfred and Trafford Klots Artist Residency Program, Chateau de Rochefort-en-Terre, Brittany, France.

Solo exhibition, Garden Views: the Culture of Nature, Illinois Central College, Peoria, Ill.

Group exhibition, Looking at the World: Photography from the Permanent Collection, Scottsdale Museum of Contemporary Art, Scottsdale, Ariz.

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

**Holz, Aaron****Art & Art History**

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

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

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

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

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

Questioning Convention: The Studio Quilts of Michael James.

30 year retrospective exhibition, Fuller Craft Museum, Brockton, Mass.

**Mond, Robert A.****Johnny Carson School of Theatre and Film**

Lighting design, *The Merchant of Venice*, by William Shakespeare, Pennsylvania Shakespeare Festival; Center Valley, Pa.

Lighting design for children's theatre, *The Little Mermaid*, by Linda Daugherty, Pennsylvania Shakespeare Festival; Center Valley, Pa.

**Shomos, William H.****School of Music**

Author/Creator, *War Horse 101*, Opera Omaha, staged in Omaha and throughout Nebraska.

Performance, *The Mystic Trumpeter*, Lincoln, Neb. Collaborated with the composer/conductor Tyler White.

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, 4th Lessedra World Art Print Annual, Lessedra Gallery & Contemporary Art Projects, Sofia, Bulgaria.

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**

Author, creator, producer and motion picture editor, *Almost Normal*, full-length feature film, shown in Long Island, N.Y.; Dallas, Texas; Asheville, N.C.; Washington, D.C.; Breckenridge, Colo.; Little Rock, Ark.; Honolulu, Hawaii; Lincoln, Neb.; and Munich, Frankfurt, Cologne and Berlin, Germany.

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

Artist, Fiber Art, *Burning Bush* in *Shuttle, Spindle and Dye*pot, Handweavers Guild of America, Suwanee, Ga.

*Burning Bush* in the book *500 Baskets*, Asheville, N.C., Lark Books, fiber art, Author/Creator.



**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, Better Luck in the Next Life, The Museum of Nebraska Art, Kearney, Neb.

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

**Quilt Quest****4-H Youth Development**

Five module curriculum written by Patricia Fairchild, Diane Vigna, Shirley Niemeyer, Susan Brown, Myrna DuBois, Jeanette Friesen, Lynda Parson, Barbara Schmidt, Phyllis Shoenholz.

## BOOKS

Recognition for Faculty Who Have Written Books  
UNL Faculty indicated in red

**Akers, Donna L.**

*Living in the Land of the Dead: The Choctaw Nation, 1830-1860*; Lansing, Mich., Michigan State University Press, 2004. (History)

**Asato, Noriko**

*Teaching Mikadoism: The Attack on Japanese Language Schools in Hawaii, California and Washington, 1919-1927*; Honolulu, Hawaii, University of Hawaii Press, 2005. (Modern Languages and Literatures)

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

*Mechanics and Mathematics of Crystals: Selected Papers of J.L. Ericksen*; Singapore, World Scientific Publishing Company, 2005. (Engineering Mechanics)

**Behrendt, Stephen C.**

*History*; Minneapolis, Minn., Mid-List Press, 2005. (English)

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

*Created Equal: A Social and Political History of the United States, Single Volume Edition*; New York, N.Y., Longman, 2005. (History)

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

*Engaging Theories in Family Communication: Multiple Perspectives*; Thousand Oaks, Calif., Sage, 2005. (Communication Studies)

**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.**

*Community College Exemplary Initiatives, Volume XVI 2004-2005*; Lincoln, Neb., National Council of Instructional Administrators, 2005. (Educational Administration)

**Couture, Barbara; Kent, Thomas eds.**

*The Private, The Public, and The Published: Reconciling Private Lives and Public Rhetoric*; Logan, Utah, Utah State University Press, 2004. (English, Senior Vice Chancellor for Academic Affairs)

**DeFrain, John D., Olson, David H.**

*Marriages and Families: Intimacy, Diversity, and Strengths*; New York City, N.Y., McGraw-Hill, 2005. (Family & Consumer Sciences)

**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.**

*Virus and the Whale: Exploring Evolution in Creatures Small and Large*; Arlington, Va., National Science Teachers Association Press, 2005. (Museum)

**Digman, Lester A.; Laipply, Harold**

*Strategic Management: Competing in the Global Information Age*; Mason, Ohio, Thomson Custom Solutions, 2005. (Management)

**Dixon, Wheeler W.**

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

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

**Edwards, Richard; Bowles, Samuel; Roosevelt, Frank**

*Understanding Capitalism: Competition, Command and Change*; Oxford, U.K., Oxford University Press, 2005. (Economics)

**Forsythe, David**

*The Humanitarians: The International Committee of the Red Cross*; Cambridge, U.K., Cambridge University Press, 2005. (Political Science)

**Foster, Gwendolyn, A.**

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

**Giesecke, Joan R.; McNeil, Beth**

*Fundamentals of Library Supervision*; Chicago, Ill., American Library Association, 2005. (University Libraries)

**Gorman, Robert**

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

**Grady, Marilyn L.; Brock, Barbara**

*Developing a Teacher Induction Plan*; Thousand Oaks, Calif., Corwin Press, 2005. (Educational Administration)

**Grange, William M.**

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

**Hage, David S., ed.**

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

**Harbourne, Brian; Cilberto, Ciro; Geramita, Anthony; Miro-Roig, Rosa Maria; Ranestad, Kristian, eds.**

*Projective Varieties with Unexpected Properties*; Berlin, Germany, Walter de Gruyter, 2005. (Mathematics)

**Harter, Lynn M.; Japp, Phyllis M.; Beck, Christina S., eds.**

*Narratives, Health and Healing: Communication Theory, Research and Practice*; Mahwah, N.J., Lawrence Earlbaum Associates, 2005. (Communication Studies)

**Hayden, F. Gregory**

*Policymaking For A Good Society: The Social Fabric Matrix Approach to Policy Analysis and Program Evaluation*; New York, N.Y., Springer, 2005. (Economics)

**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.**

*Communication Ethics, Media, and Popular Culture*; New York, N.Y., Peter Lang Publishers, 2005. (Communication Studies)

**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**

*Hope for a Global Ethic: Shared Principles in Religious Scriptures*; Wilmette, Ill., Baha'i Publishing, 2005. (Law)

**Luebke, Frederick C.**

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

**Luthans, Fred**

*Organizational Behavior, 10th Edition*; New York, N.Y., McGraw-Hill, 2005. (Management)

**Lynch, Thomas P., ed.**

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

**MacPhee, Craig**

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

**Moshman, Dave**

*Adolescent Psychological Development: Rationality, Morality, and Identity, 2nd Edition*; Mahwah, N.J., Lawrence Earlbaum Associates, 2005. (Educational Psychology)

**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.**

*Simulation and Risk Analysis*; Boston, Mass., Prentice Hall Custom Publishing, 2005. (Management)

**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.**

*The Transatlantic Slave Trade, 2nd Edition*; Lincoln, Neb., University of Nebraska Press, 2005. (History) Dr. Rawley died in November of 2005.

**Randolph, Ladette**

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

**Sarroub, Loukia K.**

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

**Sayood, Khalid**

*Understanding Circuits: Learning Problem Solving Using Circuit Analysis*; San Francisco, Calif., Morgan Claypool, 2005. (Electrical Engineering)

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

**Schlegel, Vicki L., ed.**

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

**Schniederjans, Marc J.; Schniederjans, Ashlyn M.; Schniederjans, Dara G.**

*Outsourcing and Insourcing in an International Context*; Amonk, N.Y., M.E. Sharpe, 2005. (Management)

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

*The Oestrid Flies: Biology, Host-Parasite Relationships, Impact and Management*; Cambridge, Mass., Cabi Publishing, 2005. (Entomology)

**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.**

*Advanced Topics in Database Research – Vol. IV*; Hershey, Pa., Idea Group Publishing, 2005. (Management)

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

*No One Ever Asked Me: The World War II Memoirs of an Omaha Indian Soldier*; Lincoln, Neb., University of Nebraska Press, 2005. (Ethnic Studies, History)

**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)

*Advances in Food & Nutrition Research, Volume 50*; San Diego, Calif., Elsevier/Academic Press, 2005. (Food Science & Technology)

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

*Principles of Field Crop Production*; Upper Saddle River, N.J., Prentice Hall, 2005. (Agronomy & Horticulture)

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

*Study Guide to Accompany Economics, 16th Edition*; New York, N.Y., Mc Graw Hill, 2005. (Economics)

**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**

*An Introduction to the Theory of Piezoelectricity (Advances in Mechanics and Mathematics)*; Berlin, Germany, Springer, 2005.  
(Engineering Mechanics)

**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

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**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**  
**Fox, Amanda**  
**Josiah, Scott**  
**Kucera, Mike**  
American Society of Agricultural Engineers, Educational Aids  
Competition Blue Ribbon, *Planning Your Riparian Buffer: Design  
and Plant Selection* and *Installing Your Riparian Buffer: Tree and  
Grass Planting, Postplanting Care and Maintenance*

**Fuess, Scott M.** **Economics**  
Institute For The Study of Labor, Bonn, Germany, Research Fellow

**Gaussoin, Roch E. Agronomy and Horticulture**

American Society of Agronomy, Fellow  
Crop Science Society of America Turfgrass Science Division,  
Elected Chair-Elect

**Goodburn, Amy English**

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

**Graybill, Andrew R. History**

Western History Association, Bolton-Kinnaird Award

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

European Union, Descartes Prize

**Heemstra, Jill Biological Systems Engineering**

**Koelsch, Richard**

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

**Henneman, Alice C. Extension**

Tufts University, "Among the Best" rating from Tufts University,  
Nutrition Navigator-A Rating Guide to Nutrition Web Sites

**Houser, Kevin W. Architectural Engineering**

Leon Gaster Award, Chartered Institution of Building Services  
Engineers

Taylor Technical Talent Award, Illuminating Engineering Society of  
North America

**Klein, Robert N. Agronomy and Horticulture**

American Society of Agronomy, Elected Representative, Board of  
Directors, Extension Education Division

**Klopfenstein, Terry Animal Science**

American Society of Animal Science, Distinguished Teaching Award

**Koelsch, Richard K. Animal Science,  
Biological Systems Engineering**

American Society of Agricultural Engineers, G.B. Gunlogson  
Countryside Engineering Award

**Kranz, Bill Biological Systems Engineering**

**Watts, Darrell**

**Yonts, Dean**

American Society of Agricultural Engineers, Educational Aids  
Competition Blue Ribbon, *Assuring Efficient Center Pivot Irrigation*

**Leung, Kam Physics and Astronomy**

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

**Levin, Carole History**

Rare Books and Manuscripts Section, Association of College  
and Research Libraries, Katharine Kyes Leab and Daniel J. Leab  
Exhibition Catalogue Award, *Elizabeth I: Ruler and Legend*

- 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 Irmak, Suat Yonts, Dean Payero, Jose** **Biological Systems Engineering**  
 Bureau of Reclamation Commissioner's Water Conservation Award
- McLaughlin, William** **Chemistry**  
 University of Nebraska Outstanding Teaching and Instructional Creativity Award
- Medill, Colleen E.** **Law**  
 American Law Institute, Elected Member
- Morris, Jack** **Biological Sciences**  
 American Phytopathological Society, Ruth Allen Award
- Nelson, Darrell W.** **Agronomy and Horticulture**  
 American Society of Agronomy, Agronomic Service Award
- Newman, Ian** **Educational Psychology**  
 U.S. Department of Education Office of Safe and Drug-Free Schools and Communities, National Programs/Drug and Alcohol Models on College Campuses
- Niemeyer, Shirley M.** **Textiles, Clothing & Design**  
 National Extension Association of Family & Consumer Sciences, National Extension Housing Outreach Award
- Nisse, Ruth** **English**  
 National Humanities Center, Fellow
- Nowak, Andrzej, S.** **Civil Engineering**  
 Warsaw University of Technology, Warsaw, Poland, Medal Politechniki Warszawskiej
- Olds, Marshall** **Modern Languages and Literatures**  
 Academicques Palmes de France, Knight

**Osorio, Fernando A.** **Veterinary and Biomedical Sciences**  
Pig Improvement Corporation, Ensminger International School on  
Swine Diseases, International Veterinary Advisory Board  
Porcine Reproductive & Respiratory Syndrome Virus Eradication  
Campaign Adviser

**Poser, Susan** **Law**  
American Law Institute, Elected Member

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

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

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

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

**Rieke, Reuben** **Chemistry**  
University of Minnesota, Outstanding Achievement Award

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

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

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

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

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

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

**Shearman, Robert C.** **Agronomy and Horticulture**  
United States Golf Association, Green Section Award

**Sheridan, Susan**

**Educational Psychology,  
Nebraska Center for Research  
on Children, Youth, Families and Schools**

National Association of School Psychologists Presidential Award

**Siau, Keng**

**Management**

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

**Snow, Gregory**

**Physics and Astronomy**

American Physical Society, Fellow

**Soukup, Rodney J.**

**Electrical Engineering**

Institute of Electrical and Electronic Engineers, Meritorious Service  
Award

**Starace, Anthony**

**Physics and Astronomy**

University of Nebraska Outstanding Research and Creative  
Activity Award

**Steadman, James R.**

**Plant Pathology**

Alpha Phi chapter of the Phi Delta Honor Society for International  
Scholars

American Phytopathological Society, International Service Award  
Caribbean Division of the American Phytopathological Society  
Frederick L. Wellman Award

**Tadros, Maher**

**Civil Engineering**

Prestressed Concrete Institute, Titan of the Industry

**Teo, Sharon M.**

**Johnny Carson School of Theatre and Film**

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

**Turner, Harriet, S.  
Martinez, Adelaida**

**Modern Languages  
and Literatures**

*Choice* magazine, Outstanding Academic Title, *The Cambridge  
Companion to the Spanish Novel from 1600 to the Present*

**UNL for Families Extension Team**

**Extension**

Annie E. Casey Foundation, 4-H Families Count: Annie E. Casey  
Family Strengthening Award

**Van Vleck, L. Dale**

**Animal Science**

American Society of Animal Science, Morrison Award

**Velander, William H.**      **Chemical and Biomolecular Engineering**  
Society of Vascular Surgery, Resident Research Prize

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

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

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

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

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

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

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

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

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

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

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

# Glossary of Federal Agency Abbreviations

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



NICHD National Institute of Child Health  
and Human Development  
 NIDCD National Institute on Deafness  
& Communication Disorders  
 NIDDK National Institute of Diabetes,  
Digestive & Kidney Disease  
 NIDA National Institute on Drug Abuse  
 NIGMS National Institute on General Medical Sciences  
 NIMH National Institute of Mental Health

HUD Department of Housing and Urban Development

DoI Department of Interior  
 BR Bureau of Reclamation  
 FWS Fish & Wildlife Service  
 GS Geological Survey  
 NPS National Park Service

DoT Department of Transportation  
 Federal Highway Administration

EPA Environmental Protection Agency

IMLS Institute of Museum & Library Services

NASA National Aeronautics and Space Administration  
 Ames Research Center  
 Goddard Space Flight Center  
 Jet Propulsion Laboratory  
 John Stennis Space Center  
 Lewis Research Center  
 Wallops Flight Facility

NCHRP National Cooperative Highway  
 Research Program

NEA National Endowment for the Arts

NEH National Endowment for the Humanities

NSF National Science Foundation  
 EPSCoR Experimental Program to  
 Stimulate Cooperative Research

NSA National Security Agency