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2006 Major Sponsored Program and Faculty Awards for Research & Creative Activity

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-RESEARCH-& CREATIVE-ACTIVITY

2006 MAJOR SPONSORED PROGRAM AND FACULTY AWARDS FOR RESEARCH & CREATIVE ACTIVITY

OFFICE OF RESEARCH & GRADUATE STUDIES AT THE UNIVERSITY OF NEBRASKA-LINCOLN



- 3 Awards of \$3 million or more
- 13 Awards of \$1 million to \$2,999,999
- 19 Awards of \$200,000 to \$999,999
- 47 CAREER and K Awards
- 50 Arts and Humanities Awards of \$50,000 or more
- 53 Arts and Humanities Awards of \$5,000 to \$49,999
- 54 Patents Issued
- 56 Intellectual Property Licences
- 59 Creative Works in Fine and Performing Arts
- 63 Books
- 69 Recognitions and Honors
- 75 Glossary of Federal Agency Abbreviations

On the Cover: A photo illustration of UNL's Diocles Laser, a 100-terawatt, ultra-fast laser with the highest combination of peak and average power of any laser in the United States.



Chancellor Harvey Perlman and Vice Chancellor Prem Paul

This is the fifth 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 2006. The funding sources, projects and investigators on major grants and sponsored program awards received during the year are listed, as well as patents issued; published books and scholarship; fellowships and other recognitions; intellectual property licenses; and performances and exhibitions in the fine and performing arts. This impressive list grows each year and I am pleased to present evidence of our faculties' accomplishments.

During FY2005-06, we achieved a funding milestone — UNL faculty attracted \$104.6 million in external funding to the institution. This is the first time we exceeded \$100 million and this in fact tripled the comparable figure achieved ten years ago.

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

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 faculty achievement.

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

Them St

Prem S. Paul Vice Chancellor for Research and Dean of Graduate Studies

AWARDS OF \$3 MILLION OR MORE

Active awards in 2006 * Indicates new in 2006

Allen, David

Engineering

Blast Wave Absorbing Structures: an Experimental & Modeling Program DOD-Army Research Laboratory

\$7.500.000



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 engineeringworking on 15 multidisciplinary projects. The projects have the common objective of providing new materials and technologies for blast mitigation, mine detection and pathogen detection.

Redox Biology Center

Baneriee. Ruma

Biochemistry

\$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.

Cassman, Kenneth

Nebraska Center for Energy Sciences, Agronomy and Horticulture

Vice Chancellor for Research and

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* Nebraska Center for Energy Sciences Nebraska Public Power District

\$5,000,000 Paul, Prem 4/1/06 - 3/31/2011



Dean of Graduate Studies Kenneth Cassman directs the Nebraska Center for Energy Sciences Research, a collaboration between UNL and the Nebraska Public Power District. The center was established in April 2006 with NPPD's five-year, \$5 million commitment to support energy research that produces

new technologies, processes and systems that provide new or

significantly enhanced renewable energy sources, improves the quality of life and boosts economic opportunity. The center fosters interdisciplinary collaboration among UNL faculty and with other research institutions, public-sector agencies, and private sector companies with similar interests. The center supports both basic and applied research and has a broad mandate to explore a range of renewable energy opportunities (including biofuels, wind and solar energy), as well as opportunities for energy conservation.

Cotton, Dan

Cooperative Extension

eXtension—The Transformation of Cooperative Extension \$6,800,000 (through 12/31/07) National Association of State Universities and Land-Grant Colleges

10/1/04 - 12/31/09



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

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

Epstein, Michael

Special Education and Communication Disorders Center for Behavior and Reading

Dept. of Education

\$4,498,231 10/1/01 - 9/30/07



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Michael Epstein, William Barkley Professor of special education and communication disorders, and co-investigator Ron Nelson, associate research professor of special education and communciation 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

NSF

A Protein Interaction Database for Rice Protein Kinases \$6,057,747



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

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

Metabolite Signaling Center

\$4,057,419 2/1/04 - 1/31/07

NSF-EPSCoR

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

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 - 9/30/08



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 cuttingedge computer science technologies to agricultural producers' age-old decisionmaking 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

Donald Wilhite Center. A separate \$1 million cooperative agreement, directed by Donald Wilhite,

professor in the School of Natural Resources and director of the

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

Harwood, David

Geosciences

ANDRILL: Investigating Antarctica's Role in Cenozoic Global Environmental Change

\$12,978,160 Levy, Richard 6/1/05 - 5/31/10 NSF Geosciences



David Harwood, professor of geosciences, leads an international team of scientists drilling beneath the Antarctic ice pack to unearth geological strata that could hold ancient clues to contemporary global warming trends. The National Science Foundation has awarded \$12.9

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

Jose, H. Douglas

Agricultural Economics

\$3,600,000 9/15/04 - 9/14/08

North Central Risk Management Education Center 000 Dept. of Agriculture-CSREES



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The North Central Risk Management Education Center provides program leadership and coordination for risk management education in the North Central Region (Kansas, Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota and

Wisconsin). It is one of four Risk Management Education Centers in the United States. They were established in 2001 to provide risk management education for agricultural producers to help them develop knowledge, skills and tools needed to make informed risk management decisions for their operations.

Lewis, Jim

Mathematics

NSF

Math in the Middle Institute Partnership

\$5,000,000 Ruth Heaton Thomas McGowan Barbara Jacobson 8/1/04 – 7/31/09

Teaching, Learning and Teacher Education Teaching, Learning and Teacher Education Lincoln Public Schools



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 nonresident academic semesters and take 10 courses created by math and pedagogy experts. Middle school is a gateway to high school success, and efforts to improve middle school learning, especially in mathematics, show benefits at later stages in students' academic careers.

Meagher, Michael

Chemical and Biomolecular Engineering

Process Research & Development of Antibodies as Countermeasures for C. Botulinum Neurotoxin 000 DOD-Army Medical Research

\$10,627,000 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.

Laurence Rilett

Civil Engineering

Region 7 University Transportation Center

\$6,225,000

Department of Transportation-Research and Innovative Technology Administration

2007 - 2010



The U.S. Department of Transportation's Research and Innovative Technology Administration has designated UNL's Mid-America Transportation Center as a regional University Transportation Center. MATC is a consortium with UNL as the lead institution with regional partners Kansas State

University, University of Kansas, University of Missouri-Rolla and Lincoln University of Missouri. The Nebraska Department of Roads and the Kansas and Missouri Departments of Transportation also are key partners. Laurence Rilett, Keith W. Klaasmeyer Chair in engineering and technology in UNL's civil engineering department, directs the center. Its focus is "improving safety and minimizing risk associated with increasing multi-modal freight movement on the U.S. surface transportation system." MATC will focus on safety research related to rural transportation. Key safety research areas include traffic control, animal crashes, safer at-grade railway crossings and work zones and the development of more effective and economical roadside crash barriers. The university transportation centers program supports transportation research, education and technology transfer that promote scientific innovations in a variety of transportation modes and disciplines. Region 7 serves Iowa, Kansas, Missouri and Nebraska. It is one of 10 regional university transportation centers in the nation.

Sellmyer, David

\$5.491.000

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Center for Materials Research

Materials Research Science & Engineering Center; Nanomagnetic Structures

NSF



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

DHHS-NIH-NICHD

Psychology

Parent Engagement and Learning Birth to Five

\$5,087,110 Edwards, Carolyn 9/26/03 - 9/30/08



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

The team will launch and evaluate a comprehensive, communitybased 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 & Families





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

\$9,794,346 Meagher, Michael Van Cott, Kevin

9/6/05 - 8/31/10

DHHS-NIH-NHLBI Chemical and Biomolecular Engineering Chemical and Biomolecular Engineering



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

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

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

\$5.398.990 Meagher, Michael Van Čott, Kevin Inan. Mehmet 8/1/05 - 10/31/08

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 Hoyt, Dan 7/1/02 - 6/30/07

DHHS-NIH-NIMH Sociology

Ojibwe Pathways Through the High School Years

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



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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 preteen Native children in the same region.

Wood, Charles

\$10,354,057

Biological Sciences

Nebraska Center for Virology

DHHS-NIH-NCRR



9/26/05 - 4/30/10

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

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

Kaposi's Sarcoma & Human Herpesvirus in Africa

DHHS-NIH-Nat Cancer Institute

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

Yohe, John

\$3.036.741

IANR-Intl Programs

International Sorghum/Millet Collaborative Research Support Program (INTSORMIL) U.S. Agency for International Development

\$36,990,000 7/1/96 - 6/30/06 \$9,000,000



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 2006 * Indicates new in 2006

Banerjee, Ruma Biochemistry

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

Barycki, Joseph Biochemistry

*	Structural Insights	into Redox Ho	omeostasis
\$1,093,775	-		DHHS-NIH-NIGMS

Buckendahl, Chad Educational Psychology

Evaluation of the Nat	ional Assessment of Educational Progress
\$2,398,258	Dept. of Education
Davis, Susan	Educational Psychology

School of Natural Resources

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

Cerutti, Heriberto Plant Science Initiative RNA-Mediated Silencing: Mechanisms and

	Biological Roles in Chlamydomonas
\$1,042,852	DHHS-NIH-NIGMS

Chen, B	ing	School of Engineering Techi	nology
	SPIRIT: Silicon	Prairie Initiative on Robotics in IT	
\$1,170,4	88		NSE

Cotton, Dan Cooperative Extension

^ New	Technologies for Ag Extension (eXtension)
\$1,425,600	Department of Agriculture-CSREES

DeKraai, Mark Public Policy Center Child Mental Health SIG

\$1,629,313	Nebraska Dept. Health and Human Services
Diamond, Judy	University of Nebraska State Museum Explore Evolution
\$2,851,409	NSF

Doll, Elizabeth

Caldwell, Robert

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

reachers in	
\$1,261,684	Dept. of Education
Bruning, Roger	Educational Psychology
Bonnstetter, Ron	Teaching, Learning and Teacher Education
Horn, Christy	Educational Psychology

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Educational Psychology

Dzenis, Yuris

Engineering Mechanics

NIRT: Manufacturing of Novel Continuous Nanocrystalline Ceramic Nanofibers

\$1,095,200	NSF
Zeng, Xiao Cheng	Chemistry
Feng, Ruqiang	Engineering Mechanics
Turner, Joseph	Engineering Mechanics
Larsen, Gustavo	Chemical and Biomolecular Engineering

Eccarius, Malinda

Special Education and Communication Disorders

\$1,155,054

Mountain-Prairie Upgrade Partnership Dept. of Education

Espy, Kimberly

Associate Vice Chancellor for Research and Graduate Studies

* Prenatal Tobacco Exposure: Perinatal and Genetic Risks \$1,242,130 DHHS-NIH-NIDA Wiebe, Sandra Office of Research

Faller, Ronald

Civil Engineering Evaluation & Field Installation of Steel Tube &

Foam Energy Reduction (SAFER) Barrier Indianapolis Racing League

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

Farrell, Michael

University Television

Mechanical Engineering

Civil Engineering

Civil Engineering

Civil Engineering

Biochemistry

NSF

* IPY: Engaging Antarctica \$1,168,014 Diamond, Judy University of Nebraska State Museum

Farritor, Shane

Mechanical Engineering

Track Stability Assessment & Data Transmission \$1,681,506 Dept. of Transportation-FRA Turner, Joseph **Engineering Mechanics** Nelson, Carl Mechanical Engineering Jones, Elizabeth **Civil Engineering** Civil Engineering Khattak, Aemal Sharif, Hamid School of Engineering Technology Rilett, Laurence **Civil Engineering**

Gladyshev, Vadim

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Functions of Mammalian Thio	redoxin Reductases
\$1,181,148	DHHS-NIH-NIGMS
Selenoprotein as a Target for	Cancer Prevention
\$1,356,161	DHHS-NIH-NCI
Methionine Sulfoxide Reduction	, Selenium and Aging
\$1,256,826	DHHS-NIH-NIA
* Identity & Functions of Selection	enoprotein Genes
\$1,138,800	DHHS-NIH-NIGMS

Computer Science and Engineering Goddard, Stephen **Climate & Soil Risk Information System** \$1,212,056 Dept. of Agriculture-RMA Wilhite, Donald School of Natural Resources Hubbard, Kenneth School of Natural Resources **Special Education and** Green, Jordan **Communication Disorders** Early Speech Motor Development \$1.779.288 DHHS-NIH-NIDCD School of Natural Resources Hoagland, Kyle DNR Ground Water Management and **Protection Act Service Agreement** \$1,500,000 Dept. of Natural Resources Hubbard, Kenneth School of Natural Resources Services of the NOAA Regional Climate Centers \$2,065,032 Dept. of Commerce-NOAA Jones, Vicky Northeast Research & Extension Center Northeast Nebraska Paraprofessional Ladder Project \$1.976.095 Dept. of Education Lopez, William Teaching, Learning and Teacher Education **NE State Forest Service** Josiah, Scott **Cooperative Forestry Program** Dept. of Agriculture-FS \$1,342,785 Kamil, Alan **Biological Sciences** Landmarks, Bearings and Way-Finding DHHS-NIH-NIMH \$1,338,934 Mechanisms of Visual Search and Attention \$1.029.062 DHHS-NIH-NIMH Bond, Alan **Biological Sciences Nutrition and Health Sciences** Koszewski, Wanda **Building Nebraska Families** \$2,226,983 Ne Dept. of Health & Human Serv Birnstihl, Elizabeth **IANR-Cooperative Ext** Schnepf, Marilynn Nutrition and Health Sciences Nutrition Education Program \$1.280.914 Ne Dept. of Health & Human Serv Birnstihl, Elizabeth IANR Cooperative Extension Nutritional and Health Sciences Schnepf, Marilynn Leslie-Pelecky, Diandra **Physics and Astronomy GK-12: Project FULCRUM-Building Partnerships** \$1,572,817 NSF Dussault, Patrick Chemistry

Physics and Astronomy Kirby, Roger Track 2, GK-12: Project Fulcrum: Phase II \$1.987.732 NSF Kirby, Roger Physics and Astronomy

Lou, Marjorie

Veterinary and Biomedical Sciences

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

Lu, Yongfeng

Electrical Engineering

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

Meagher, Michael **Chemical and Biomolecular Engineering**

Process Research and Development of Antibodies as Countermeasures for C. Botulinum Neurotoxin \$2,877,000 DOD-Army Space and Missile Defense Command Therapeutic Agents & Vaccines against Biological Warfare \$2,905,899 DOD-Army Medical Research Schlegel, Vicki Food Science and Technology Zhang, Wenhui Chemical and Biomolecular Engineering Wu, Joey Chemical and Biomolecular Engineering * Purification of proPRT-201 and Production of Reference Standard \$1,126,678 **Proteon Therapeutics**

Nelson, J. Ron

Special Education and Communication Disorders

\$2,687,442

Portales a Aprender Leer (PAL) Dept. of Education

Chemistry

Biochemistry

Student Affairs

Biochemistry

Parkhurst, Lawrence

Assembly Mechanisms of TBP-Nucleated Complexes DHHS-NIH-NIGMS \$1,115,504

Perez, Lance

Electrical Engineering * Strengthening Transitions into Engineering Program

\$1,648,354 NSF Ballard, John Engineering

Ragsdale, Stephen

Enzymology of Reductive Acetyl-CoA Pathway DHHS-NIH-NIGMS \$1,235,700

Robertson Jr., Vaughn

\$2,042,795

Sheridan, Susan

* UNL Educational Talent Search Dept. of Education

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

Evaluation of Efficacy of CBC for Addressing Disruptive Behaviors of Children-at-Risk for Academic Failure \$1,368,067 Dept. of Education

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

Simpson. Melanie

16

Role of Hyaluronan Matrix in Prostate Cancer Progression \$1.074.629 DHHS-NIH-Nat Cancer Institute

Snow, Greg

Physics and Astronomy

Physics and Astronomy

School of Natural Resources

The Cosmic Ray Observatory Project \$1,374,005 NSF Claes, Daniel Physics and Astronomy

Umstadter. Donald

* Research & Development of a High-Power-Laser-Driven **Electron Accelerator Suitable for Applications** \$1.250.029 DOD-DARPA Banerjee, Sudeep Physics and Astronomy

Van Etten, James

Plant Pathology

DNA Replication & Gene Express	ion of Chlorella Viruses
\$1,233,472	DHHS-NIH-NIGMS
Dunigan, David	Plant Pathology
Kang, Ming	Plant Pathology
Zhang, Yuanzheng	Plant Pathology
Agarkova, Irina	Plant Pathology
Gurnon, James	Plant Pathology

Verma, Shashi

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** Arkebauer, Timothy Agronomy and Horticulture Carbon Sequestatrian in Dryland & Irrigated Agroecosystems \$1,250,000 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 Suyker, Andrew School of Natural Resources Agronomy and Horticulture Ginting, Daniel

Viljoen, Hendrik **Chemical and Biomolecular Engineering**

* A Rational Design of a Platform for de novo Gene Synthesis \$1.369.548 DHHS-NIH-NCRR Chemical and Biomolecular Engineering Subramanian, Anu

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

NSF **Mathematics**

Mathematics

\$2,500,000 Marley, Tom

School of Natural Resources

Wedin, David

Sand Hills Biocomplexity: Integrating **Biogeophysical Processes Across Space and Time** NSF Geosciences

\$1,794,730 Loope, David

Weeks, Donald	Biochemistry nt of Dicamba-Resistant Crops
\$2,500,000	Monsanto Co.
Vhitbeck, Les	Sociology
Great Plains Cultura 1,514,284	l Ways Mental Health Careers Program DHHS-NIH-NIMH
Moore, Helen	Sociology
White, Lynn	Sociology
Infertility: Pat \$2,559,414	hways & Psychosocial Outcomes DHHS-NIH-NICHD
VcQuillan, Julia	Sociology
Wilcke, William	IANR-Research
North Central	Regional Sustainable Agriculture & Education Program – SARE
\$2,707,719	Dept. of Agriculture-CSREES
Vilcox, Brian	Center on Children, Families and the Law
Midwest Cl	nild Care Research Consortium
\$1,200,000 Forquati, Julia	DHHS-Admin for Child & Families Family and Consumer Sciences
	, ,
Wilhite, Donald Ranaeland d	School of Natural Resources and Forage Geospatial Decision
Support Syste	m for Drought Risk Management
\$1,023,038	Dept. of Agriculture-RMA
/ood, Charles	Biological Sciences
Programs in HIV 8 \$2,130,669	& AIDS Assoc Diseases/Malignancies DHHS-NIH-Fogarty Intl Center
	lade C HIV-1 in Infected Children
1,586,250	DHHS-NIH-NICHD
1,223,242	g in Comparative Viral Pathogenesis DHHS-NIH-NIAID
Vaccination against	Intrapartum HIV Clade C Transmission
959,278	Dana-Farber Cancer Institute
amamoto, Catherine	Student Affairs
Upward Bour 51,338,496	id Program-Northeast Nebraska Dept. of Education
Student	Support Services Program
1,889,008	Dept. of Education
empleni, Janos Vitamin-Depu	Nutrition and Health Sciences endent Modifications of Histones
1,000,877	DHHS-NIH-NIDDK
'hang, Luwen	Center for Virology
* Oncogenic Prope 51,145,961	rties of Interferon Regulatory Factor 7 DHHS-NIH-Nat Cancer Institute
	UHHN-INIH-INAT CANCER INSTITUTE

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

Active awards in 2006 * Indicates new in 2006
Admiraal, David Civil Engineering
Low-Cost Energy Dissipation at Culvert Exits \$201,856 Ne Dept. of 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
Alfano, James Plant Pathology Isolation & Characterization of Pseudomonas Type III Effectors that Suppress Programmed Cell Death in Eukaryotes \$375,000 NSF
Alexander, Dennis Electrical Engineering * Ultrafast Laser Interaction Processes
for Libs & Other Sensing Technologies \$600,000 University of Central Florida
Alfano, James Plant Science Initiative/Plant Pathology
* Secretion Signals & Type III Chaperones in Pseudomonas Syringae Type III Secretion System \$430,000 NSF * Suppression of Innate Immunity by ADP Ribosyltransferase Type III Effectors
\$360,106 DHHS-NIH-NIAID
Allen, Craig School of Natural Resources * Monitoring, Mapping & Risk Assessment for Non-Indigenous Invasive Species in Nebraska \$325,081 Nebraska Environmental Trust Merchant, James School of Natural Resources * Cross-Scale Structure & Scale Breaks in Complex Systems \$248,986 James S. McDonnell Foundation
Allen, David Engineering Mechanics
* U.SBrazil Dual-Degree in Infrastructure & Sustainability Engineering Program \$208,211 Dept. of Education-FIPSE Inter-University Program for Human Resources Training in Computational Mechanics \$203,904 Dept. of Education-FIPSE
Anderson, Mark Geosciences
* Atmospheric Conditions Associated with Sea Ice Characteristics over Arctic Ocean during Melt Season \$208,699 NASA

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

19

Atkin, Audrey Wild-T	Biological Sciences
Yeast Nonsens \$403,219 Moriyama, Etsuko	e-Mediated mRNA Decay Pathway NSF Plant Science Initiative
Avramov, Luchezar	Mathematics
Homology & Co \$356,322	homology over Commutative Rings NSF
Avramova, Zoya	Biological Sciences
\$442,500	ic Regulator of Plant Development NSF
Azizinamini, Atorod Simple for Dea	Civil Engineering d-Continuous for Live Load System
with Partie \$242,038 Development of I Simple for	al Pre-Fabricated Deck System Ne Dept. of Roads Design Tools for Steel Bridge Systems, Dead Loads & Continuous for osed Dead Load & Live Loads
\$226,306 Steel Box System	Ne Dept. of Roads Monitoring of N-2 over I-480 Bridge
\$292,244	Ne Dept. of Roads IBRC 2002 Project
\$240,000	Ne Dept. of Roads
Tolerance by Con \$260,603 Mitra, Amit Watkins, John Clemente, Thomas Baltensperger, David Geneti Controlled \$390,000 Eskridge, Kent Dweikat, Ismail	Agronomy and Horticulture heat with Improved Fusarium Head Blight ventional and Transgenic Approaches Dept. of Agriculture-ARS Plant Pathology Plant Pathology Agronomy and Horticulture Panhandle Research and Extension Center c Basis of Agronomic Traits by Chromosome 3A in Wheat Dept. of Agriculture-NRICGP Statistics Agronomy and Horticulture
Nucle	Electrical Engineering ate Wireless Sensor Network for ar Proliferation Detection
\$417,191 Hoffman, Michael	Dept. of Energy Electrical Engineering
Colony-M	Veterinary and Biomedical Sciences is of Mycobacterium Paratuberculosis orphology Attenuated Mutant
\$270,000 Barker, Bradley	Dept. of Agriculture-NRICGP
	Center on Children, Youth, Families and Schools/4-H State Office of 4-H: Workplace Skills for the 21st Century NSF Center on Children, Youth, Families and Schools/Biol Syst Engr

Basolo, Alexandra Biological Science	S
Behavioral Plasticity in Preexisting Receiver Bias \$366,000 NS Effects of Sexual Selection & Prediation on a	F
Genetic Polymorphism for Body Size \$519,721 NS	Γ
Batelaan, Herman Physics and Astronom	y
Matter Optics with Intense Laser Light \$424,997 NS	F
Becker, DonaldBiochemistrSpectroelectrochemistry of the Novel PutA Flavoprotein\$785,540DHHS-NIH-NIGM* MRI: Acquisition of Beckman XL-I Analytical Ultracentrifuge\$284,160NS	S
Belli, RobertGallup Research CenteVerbal Behaviors in Computerized Lifecourse Surveys\$414,430DHHS-NIH-Nat Inst Agin	
Bellows, LaurieGraduate StudieRonald E. McNair Post-baccalaureate Achievement Program\$960,172Dept. of Education	
Belot, John Chemistr GOALI: Chemical Factors Affecting Metal-Organic Chemical Vapor Deposition Precursors	y
\$365,000 NS	F
Benson, AndrewFood Science and TechnologFunctional Consequences of Genome Evolution in Listeria Monocytogenes\$261,515Dept. of Agriculture-NRICG Genome Biology of Francisella Tularensis Populations\$391,459DHHS-NIH-NIAI	iP
Berkowitz, David Chemisti	y
New Approaches to Catalyst Screening & Development \$423,000 NS	
Development of Cystathionine Beta-Synthase Inhibitors \$214,500 American Heart Association	n
Beukelman, David Special Education an Communication Disorder Rehabilitation Engineering Research	d 'S
Center on Communication Enhancement \$379,992 Duke University Medical Center	er
Bevins, Rick Psycholog	y
Acquired Appetitive Properties of Nicotine \$902,065 DHHS-NIH-NID	A
Billesbach, David Biological Systems Engineerin	~

Blum, Paul Ger	Biological Sciences ne Silencing & Catabolite Repression in the
\$413,380	Archaeon Sulfolobus Solfataricus NSF
Bobaru, Flori	
\$203,965	ptivity in Peridynamics for Composite Plates Dept. of Energy-Sandia National Laboratories
Bond, Alan	Biological Sciences
\$540,260 Kamil, Alan	Mechanisms of Social Cognition DHHS-NIH-NIMH Biological Sciences Virtual Ecology: Experimental Tests of Evolution in Productor Pure Surters
\$461,000 Kamil, Alan	Evolution in Predator-Prey Systems NSF Biological Sciences
Brand, Jennifo	er Center for Materials Research Boron Carbide Semiconductor Films
\$347,826 \$450,000 Belashchenko, Dowben, Pete	DOD-Battelle * Novel Rare-Earth Semiconductors for Solid-State Neutron Detectors DOD-Defense Threat Reduction Agency Kirill Physics and Astronomy
Buckendahl, C Const \$367,160	Chad Educational Psychology Ulting Services/Assist Oklahoma Commission for Teacher Preparation Oklahoma Office of Public Affairs
Bulling, Denis \$250,000	Public Policy Center Hospital Preparedness — Bioterrorism Ne Dept. of Health and Human Services
	eal-Time Groundwater-Level Monitoring Network to ought Impact Assessment and Mitigation Programs Dept. of Agriculture-RMA
\$599,732	is Animal Science ocytogenes Controls in Ready to Eat Meat Products Dept. of Agriculture-CSREES Harshavardhan Food Science and Technology
Cady, Daniel Ne	Cooperative Extension braska Technology Transfer Center at UNL
\$377,100	Ne Dept. of Roads Development of Tools for Rating Bridges & Application to State Bridges Ne Dept. of Roads

Cantrell, RandolphCenter for Applied Rural Innovation* Relocation to the Buffalo Commons: Marketing Approach to Understand Residential Decisions among Migrants\$220,387Dept. of Agriculture-NRICGPBurkhart-Kriesel, CherylPanhandle Research and Extension CenterJohnson, BruceAgricultural Economics	
Carlo, GustavoPsychologyParenting & Sociocognitive Correlates of Prosocial Behaviors in Mexican American & European American Children\$339,283NSF	
Carr, TimothyNutrition and Health Sciences* Method for Enhancing the Cholesterol-Lowering Property of Plant Sterol & Stanol Esters\$500,000Beef Products Inc	
Cerutti, HeribertoBiological Sciences/Plant Science InitiativeTranscriptional Gene Silencing in Chlamydomonas & Arabidopsis\$400,000NSF* Histone Modifications & Transcriptional Silencing in Chlamydomonas\$448,235NSF	
Chollet, RaymondBiochemistryMolecular/Biochemical Investigations of PEPC(and its novel ser/thr-Kinase) and SuSy (Nodulin-100), 2 Phosphorylated Metabolic Enzymes in Plants\$749,024NSF	
Claes, DanielPhysics and AstronomyExperimental High Energy Physics\$573,000\$573,000Snow, GregoryPhysics and Astronomy	
Experimental High Energy Physics \$573,000 NSF Snow, Gregory Physics and Astronomy Clemente, Thomas Biotechnology/Plant Science Initiative/Agronomy and Horticulture Agrobacterium-Mediated Genetic Transformation of Wheat & Soybeans \$345,537 Dept. of Agriculture-ARS-BRDC From Proplastid to Chloroplast: Understanding Plastid Differentiation in Maize by Microarray & Proteome Analysis \$389,225 Cornell University Research in Nebraska on Improved	
Experimental High Energy Physics \$573,000 NSF Snow, Gregory Physics and Astronomy Clemente, Thomas Biotechnology/Plant Science Initiative/Agronomy and Horticulture Agrobacterium-Mediated Genetic Transformation of Wheat & Soybeans \$345,537 Dept. of Agriculture-ARS-BRDC From Proplastid to Chloroplast: Understanding Plastid Differentiation in Maize by Microarray & Proteome Analysis \$389,225 Cornell University	

Costello, Don

Computer Science and Engineering

GAANN Fellowships for Computer Science & Engineering Dept. of Education \$500,000

Daly, Edward

Educational Psychology

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

\$800.000 McCurdy, Merilee Sheridan, Susan Kunz, Gina

Dept. of Education Educational Psychology Educational Psychology **Educational Psychology**

DiMagno, Stephen

Chemistry

Hydrogen for Fuel Cells \$966,000 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

Dowben. Peter **Center for Materials Research**

Surface Chemistry of Adsorbates on Crystalline Polymers \$690,000 NSF

Drummond, Wayne

Architecture

Neighborhoods in Transition: Community Outreach Partnerships

\$388,914 Dept. of Housing & Urban Development Agricultural Leadership/Education Parsons, Gerald Carranza, Miguel Sociology Cantarero, Rodrigo Community and Regional Planning Waite, Michelle Chancellor's Office Larrick, Steven Architecture Fritz, Susan Agricultural Leadership/Education

Du. Liangcheng

Chemistry

* Biosynthesis of Mycotoxin Fumonisins: Characterization of Enzymes for Vicinal Diol & Tricarballylic Ester Formation NSF \$284,667

Ducharme, Stephen

Center for Materials and Nanoscience/Physics and Astronomy

* Nanostructure-Designed Dielectric Material for **High-Energy-Density Capacitors** \$586,000 DOD-DEPSCoR * Ferroelectric Polymer Langmuir-Blodgett Films for Nonvolatile Random-Access Memory Applications NSF \$240,000

Dwyer, Matthew

Computer Science and Engineering

Software Model Checking for Embedded Systems \$239,560 Kansas State University

Program Analysis Techniques to Support **Dependable RTSJ Applications**

\$207 510

φ20/,013	
Elbaum, Sebastian	Computer Science and Engineering
Goddard, Stephen	Computer Science and Engineering
Rothermel, Gregg	Computer Science and Engineering
* Finite-State Verification f	or High-Performance Computing
\$300,000	NSF

Dzenis, Yuris

Engineering Mechanics

NISE

Fundamentals of F	abrication of
Nanofiber Assemblies I	oy Electrospinning
\$372,000	NSF
Farritor, Shane	Mechanical Engineering
Novel Continuous Carbo	n Nanofibers for the
Next Generation Lightweight S	tructural Nanocomposites
\$258,543	DOD-Air Force Off of Sci Rsch
* Next Generation Su	per Carbon Fiber
\$317,127	Hexcel Corporation
* Nanoengineere	d Interfaces
\$250,002	NSF
* Modeling-Based Control of	Electrospinning Process
\$275,000	NSF

Eccarius, Malinda

Special Education and Communication Disorders

Mountain Prairie Upgrade Partnership - Early Childhood \$781.642 Dept. of Education Special Education and Communication Disorders Marvin, Chris

Eckhardt, Craig

Chemistry * Experimental Investigation of the Role of Defects in **Detonation Sensitivity of Energetic Materials** \$600.000 DOD-Office of Naval Research * A Study of the Mechanochemistry of Carbamazepine Polymorphs Pfizer Inc/PGRD Groton Labs \$227,200

Elbaum. Sebastian **Computer Science and Engineering**

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

Engen-Wedin, Nancy

Teaching, Learning and Teacher Education

Indigenous Roots Teacher Education Program \$704.730 Dept. of Education McGowan, Thomas Teaching, Learning and Teacher Education

Epstein, Michael Special Education and **Communication and Disorders** Leadership Training in Emotional Disturbance Disorders \$590.854 Dept. of Education Postdoctoral Training in Emotional & Behavioral Disorders Dept. of Education \$471.512 Randomized Clinical Trial of Wraparound Services for Elementary School Students in School Settings \$538,266 Dept. of Education Espy, Kimberly Vice Chancellor for Research and Graduate Studies * Executive Function Development in Preschool Children \$962,343 DHHS-NIH-NIMH Wiebe, Sandra Office of Research **Physics and Astronomy** Fabrikant, Ilya Collision Processes Involving Low-Energy Electrons \$215.000 NSF **Civil Engineering** Faller, Ronald * Development of a New Precast Concrete Bridge Railing System (2006-2008) \$229,820 Ne Dept. of Roads Bielenberg, Robert **Civil Engineering** Reid, John Mechanical Engineering Tadros, Maher **Civil Engineering** Franco, Juan **Vice Chancellor for Student Affairs** NU Directions: Program to Reduce High-Risk Drinking \$468,000 **Robert Wood Johnson Foundation** Major, Linda Student Affairs Geosciences Fritz, Sherilyn Lake Titicaca Drilling Project \$314,167 NSF **School of Biological Sciences** Gardner, Scott Worm-Web: Georeferencing Computerized Data & Linking Databases in the Manter Laboratory of Parasitology \$420,107 NSF Hosier, Aaron Information Services Gaskell, C. Martin Physics and Astronomy Variability of Active Galactic Nuclei \$435,611 NSF Gay, Timothy Physics and Astronomy **Polarized Electron Physics** \$662,002 NSF Gibson, Robert **Biological Sciences** GAANN Fellowship for Ecology, Evolution & Behavior at UNL \$625.000 Dept. of Education

* Land Cover Land Use Change Effects on Surface Water Quality: Integrated MODIS & SeaWiFS Assessment
of Dnieper & Don River Basins\$597,799NASA
Gladyshev, Vadim Biochemistry
Identity of Terminator & Selenocysteine UGA Codons \$789,237 DHHS-NIH-NIGMS
Glover, Todd Center on Children, Youth, Families and Schools *Establish a State-Wide Response-to-Intervention Consortium for Training & Evaluation
\$253,864Ne Dept. of EducationDaly, EdwardCenter on Children, Youth, Families and Schools/Educational Psychology
McCurdy, Merilee Center on Children, Youth, Families and Schools/Educational Psychology
Goddard, Stephen Computer Science and Engineering Energy-Aware CPU & I/O Scheduling for
Embedded, Real-Time Systems \$200,000 NSF
Goedert, James Construction Systems
* Rebuilding New Orleans\$293,660Dept. of Housing and Urban DevelopmentBernstein, StuartConstruction SystemsHolmes, WilliamConstruction SystemsMorcous, GeorgeConstruction SystemsSchwer, AveryConstruction Systems
Goodman, RichardFood Science and Technology* Assessing the Potential Allergenicity of Proteins Introduced by Genetic Engineering\$450,000Environmental Protection AgencyChen, LingYunFood Science and TechnologySchlegel, VickiFood Science and Technologyraylor, StephenFood Science and Technology
Gosselin, DavidSchool of Natural Resources* Earth Science Institute for Elementary Educators\$233,606NASABonnstetter, RonaldTeaching, Learning and Teacher Education
Graef, George Agronomy and Horticulture
Sclerotinia Resistance Enhanced by Accumulation of QTL Transgenic Approaches\$301,142Dept. of Agriculture-ARSClemente, ThomasAgronomy and HorticultureSteadman, JamesPlant Pathology
Greve, Vickie Northeast Research and Extension Center
Communities Together Can\$523,000Dept. of Agriculture-CSREESSwanson, DouglasCooperative Extension

School of Natural Resources

Gitelson Anatoly

26

Hage, David	Chemistry
\$959,749	romatographic Automation of Immunoassays DHHS-NIH-NIGMS
\$779,787	omatographic Studies of Functional Proteomics DHHS-NIH-NIDDK
Harbison, Ge	
\$845,363	Structure & Dynamics of DNA Hairpins DHHS-NIH-NIGMS
	Iwyn Teaching, Learning and Teacher Education ka Assessment Cohorts (NAC05/06) & Nebraska eadership for Learning Cohorts (NLL05/06)
\$200,000	Ne Dept. of Education
	^t Autophagy in Fungal Hyphae: Functional Genomic & Mechanical Strength Studies
\$201,907	University of Maryland-Baltimore
\$505,985 * Compo \$516,548 *	n of Genes & Proteins that Regulate Stress Resistance DOD-DEPSCoR rative Functional Genomics of Drosophila Obesity Cornell University Molecular Evolution of Genes Expressed in
\$283,213 Moriyama, E * C	Quantitative Genomics of Sexual Dimorphism
\$212,434	University of California-Davis
Pr	IANR-Cooperative Ext orth Central Region Sustainable Agriculture ofessional Development Program—FY 2005
\$910,283	Dept. of Agriculture-CSREES
	Searle Scholar: Exploring Neural Basis of Complex Behavior in Amblypygids
\$240,000	Chicago Community Trust/Searle Scholar
Hein, Gary	Panhandle Research and Extension Center Biologically Intensive Areawide IPM of Russian Wheat Aphid & Greenbug
\$516,594	Dept. of Agriculture-ARS
\$600,000	ock Producer Environmental Assistance Project Ne Environmental Trust Development of Alternative Technologies
\$221,881 Gross, Jason	for Small Livestock Producers Ne Dept. of Environmental Quality Biological Systems Engineering

Hergert, Gary

Panhandle Research and Extension Center

* Enhancing Irrigation Management Tools & Developing a Decision Support System for Managing Limited

Irrigation	n Supplies for the High Plains
\$885,093	Dept. of Agriculture-RMA-FCIC
Burgener, Paul	Panhandle Research and Extension Center
Lyon, Drew	Panhandle Research and Extension Center
Martin, Derrel	Biological Systems Engineering
Pavlista, Alexander	Panhandle Research and Extension Center
Supalla, Raymond	Agricultural Economics
Urrea Florez, Carlos	Panhandle Research and Extension Center
Yonts, C. Dean	Panhandle Research and Extension Center
* Demonstrate & Ada	pt Remote Sensing Technology to Produce
Consumptive Water	Use Maps for the Nebraska Panhandle
\$239,951	Dept. of Agriculture-NRCS
Baltensperger, David	Panhandle Research and Extension Center
Berger, Aaron	Panhandle Research and Extension Center
DeBoer, Karen	Panhandle Research and Extension Center
Hla, Aung	Panhandle Research and Extension Center
Lyon, Drew	Panhandle Research and Extension Center
Pavlista, Alexander	Panhandle Research and Extension Center
Yonts, C. Dean	Panhandle Research and Extension Center
Housel Corv	Student Involvement
Heusel, Gary	Student Involvement
	for Service-Learning in Higher Education
\$469,903	Corporation for National Service
Hoagland, Kyle	School of Natural Resources
	Complex Issues in Nebraska:
	Vestern Platte River Valley-Phase II
\$347,200	Environmental Protection Agency
Fritz, Sherilyn	Geosciences
Holmoe Mary Anno	Geosciences
Holmes, Mary Anne	
\$228.774	nunity of Women Geoscience Leaders NSF
0//0.//4	INSE

\$228,774

Holz, John	School of Natural Resources
Classificat	tion of Nebraska Streams and Rivers:
Phase Dat	a Assessment, Collection and Analysis
\$287,853	Nebraska Dept. of Environmental Quality
Hoagland, Kyle	School of Natural Resources

Horn, Christy **Educational Psychology Building Accepting Campus Communities** \$945,171

Dept. of Education

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

Hunt, Robert

University of Nebraska State Museum * Renovation & Computerization of University of Nebraska Vertebrate Paleontology Collection

\$315,839 Voorhies, Michael

NSF University of Nebraska State Museum

29

Hutkins, Robert Food Safety: Life-Long Learning \$400,000 Durso, Lisa Rupnow, John Thippareddi, Harshavardhan Whipple, Georgianna	Food Science and Technology through Teacher Training Dept. of Agriculture-NRICGP Food Science and Technology Food Science and Technology Food Science and Technology Food Science and Technology
Hygnstrom, Scott Development of Spatially Explicit \$330,930	School of Natural Resources Models of Wildlife Diseases Dept. of Agriculture-APHIS
lanno, Natale	Electrical Engineering
* Nano-Materic \$531,500 Turner, Joseph	NSF-EPSCoR Engineering Mechanics
Inan, Mehmet Chemical a Expression of Chimeric Antil \$297,562	and Biomolecular Engineering body in Pichia pastoris Research Corporation
Inderbitzen-Nolan, Heidi Etiological Factors in Adole \$614,387	Psychology escent Social Phobia DHHS-NIH-NIMH
Jaecks, Duane Mass Dependent Effects in Massive Coulomb Inte \$717,500	
Jameson, Mary Liz Universit Monography & Phylogeny of New \$755,300 Ratcliffe, Brett	t y of Nebraska State Museum World Scarabaeoid Beetles NSF Entomology
* SAM^2 Toolkit: Scalable & Management for High	-End Computing
\$602,326 Wang, Jun Com	NSF puter Science and Engineering
Johnson, Ron Common Sense Co	
Endangered Species- \$222,513	Nebraska Environmental Trust
Jones, Clinton Veteri Functional Analys	nary and Biomedical Sciences
\$349,500	Dept. of Agriculture-NRICGP inary and Biomedical Sciences activation Cycle by the atency Related (LR) Gene Dept. of Agriculture-CSREES is Encoded by the Bovine

Jones, Elizabe	th ITS Resource, Resea Activities at Peter	
\$921,414	Activities of Teter	Ne Dept. of Roads
	or Engineering Logist	Industrial and Management Systems Engineering tics and Distribution at UNL
\$256,000		NSF
Jose, H. Doug \$705,000	as Trade Adjustment A	Agricultural Economics ssistance Program Dept. of Agriculture-RMA
Josiah, Scott		NE State Forest Service
\$350,000 * \$334,304	Community Enhan NRCS-Technical Serv	Ne Dept. of Roads
Kelling, Clayto Role of No \$289,116		erinary and Biomedical Sciences in Pestivirus Virion Assembly DHHS-NIH-NIAID
Kennedy, Patr Socially \$350,000 McGarvey, Mo Stanek-Krogst	Constituted Food Co ary	Marketing onsumption of Adolescents Dept. of Agriculture-CSREES Economics Nutrition and Health Sciences
Keown, Jeff \$209,157	Trilateral Curriculu Rural Community In	
Mada \$269,350 Azizinamini, A Ma	cted-Zone Requireme e with Local Aggrego torod terial Selection & De Moisture Damage of	Civil Engineering ents for Superpave Mixes ate Sources in Nebraska Ne Dept. of Roads Civil Engineering esign Consideration for f Asphalt Pavement Ne Dept. of Roads Civil Engineering
Koelsch, Richa * Heartland \$250,470 Wortmann, Ch	d Integrated Water (Biological Systems Engineering Quality Coordination Initiative Iowa State University Agronomy and Horticulture
Kostelnik, Ma		Education and Human Sciences
\$300,000 Eversoll, Dean Aguilar, Deanı		Bernard Osher Foundation Education and Human Sciences Education and Human Sciences

Krull, Dean	Agronomy and Horticulture	Loope, David	Geosciences
* Managing Irrigatio	on Systems Today & Tomorrow		ological Records from
\$501,671	Central Platte NRD		& Eolian Sand Stones
Benham, Brian	Agronomy and Horticulture	\$262,570	NSF
Ferguson, Richard	Agronomy and Horticulture	Louda, Svata	Biological Sciences
Langell, Marjorie	Chemistry		ble Insect Herbivore Guild
	Rock Salt & Spinel 3D Transition		Canada Thistle Dynamics
	tructural & Compositional Methods	\$408,760	Dept. of Agriculture-NRICGP
\$425,000	NSF		ore Guild Interactions &
		Tall Thistle	Population Dynamics
Ledder, Glenn	Mathematics	\$369,999	NSF
	ch for Undergraduates in	Lu Vonsfons	Flootrical Engineering
	cal Ecology (RUTE) NSF	Lu, Yongfeng	Electrical Engineering
\$905,000 Deng, Bo	Mathematics		isted Fabrication of hotonic Bandgap Structures
Gibson, Robert	Biological Sciences	\$350,000	DOD-DEPSCoR
Loladze, Irakli	Mathematics	Wang, Xinwei	Mechanical Engineering
Louda, Svata	Biological Sciences		nic Bandgap Structures in Si &
,.	, and the second s		Laser-Assisted Nanoimprinting
Lee, Kevin	Physics and Astronomy		mbled Nanoparticles
	1odel Rapid-Feedback &	\$210,238	DOD-Air Force Off of Sci Rsch
	native Assess System		Plasmas in Laser-Induced Breakdown
\$359,768	NSF		proved Sensitivity & Accuracy
Schmidt, Edward	Physics and Astronomy	\$249,306	Dept. of Energy
	active Simulation Environments Astronomy Teaching		f Carbon-Nanotube Sensors al Integrated Circuits
\$336,572	NSF	\$240,000	NSF
Schmidt, Edward	Physics and Astronomy		oment of Multifunctional
commat) zanara			Measurement System
Leslie-Pelecky, Diandra	Physics and Astronomy	\$220,000	NSF
Magnetic Properties of Dis	ordered Rare-Earth Nanostructures	Alexander, Dennis	Electrical Engineering
\$420,000	NSF	Ducharme, Stephen	Physics and Astronomy
Shield, Jeff	Mechanical Engineering	Wang, Xinwei	Mechanical Engineering
	tes in Nanostructured Materials	Mackanzia Sally	Plant Science Initiative
\$450,000	Dept. of Energy-EPSCoR	Mackenzie, Sally	ial Recombination in Higher Plants
Li, Jiangyu	Engineering Mechanics	\$494,080	NSF
	nocomposite Film/Langmuir-Blodget	Christensen, Alan	Biological Sciences
\$267,335	NSF		g & Inheritance in Arabidopsis
Ducharme, Stephen	Physics and Astronomy	\$303,000	NSF
			ganellar Interactions
Lindquist, John	Agronomy and Horticulture		MSH1 in Arabidopsis
	usarium lateritium to Weed	\$360,000	Dept. of Energy
	pils & Weed Abundance		e Transgenic Induction of
\$366,186 Drijber, Rhae	Dept. of Agriculture-NRICGP Agronomy and Horticulture	\$404,858	a <mark>le Sterility in Crop Plants</mark> Dept. of Agriculture-BRDC
Yuen, Gary	Plant Pathology		tudents in Plant Breeding using
	i lanci attology		ince Improvement as a Model
Liou, Sy-Hwang	Physics and Astronomy	\$200,000	Dept. of Agriculture-NRICGP
	Size Magnetic Devices	Fromm, Michael	Plant Science Initiative
\$236,000	DOD-DEPSCoR		
Liu, Mingsheng	Architectural Engineering		
* CC at Mutu	al of Omaha - Phase III		
\$210,319	Omaha Public Power District		

Geosciences

Mamo, Mart	ha Agronomy and Horticulture n & Economic Decision Support Tool for Impaired
Wate	rshed Management Plans in Eastern Nebraska
\$335,000	Dept. of Agriculture-CSREES
Helmers, Gle Ginting, Dan	
Wortman, Cł	
Martin, Alex	Agronomy and Horticulture WM Implementation: A Regional Approach
\$766,718	Dept. of Agriculture-CSREES
Martin, Derr	
	Jeling and Field Experimentation to Determine
\$359,800	of Land Terracing-Republican River Basin (CESU) Dept. of Interior-BR
	bod & Agricultural Sciences National Needs
	Graduate Fellowship Grants Program
\$276,000	Dept. of Agriculture-CSREES
McQuillan, Ju	
\$229,420	nfertility: Pathways & Psychosocial Outcomes Pennsylvania State University
Meagher, Mi	chael Chemical and Biomolecular Engineering
Reco	mbinant Type E Botulinum Neurotoxin Vaccine
\$345,756	DynPort Vaccine Company
Swanson, Too * Optin	dd Chemical and Biomolecular Engineering mization of Phytase Production in Pichia Pastoris
\$372,874	Syngenta
Inan, Mehme	et Chemical and Biomolecular Engineering * Proteon Fermentation Protocol Selection
\$351,091	Proteon Therapeutics
Miller, Nancy Colle	Textiles, Clothing and Design aborative Research on Small Business Network
	tion and Outcomes for Change and Innovation NSF
Mitra, Amit	Plant Pathology
	Efficient Gene Silencing by Intrinsic Direct Repeats: Mechanism & Utilization
\$390,000	NSF
Morris, T. Ja	
	Role of a Host Protein (TIP) in the Resistance
\$360,000	se of Arabidopsis to Turnip Crinkle Virus Infection Dept. of Energy
Qu, Feng	Biological Sciences
Moxley, Rodi	ney Veterinary and Biomedical Sciences
	Influence of Enterotoxins on Virulence and
¢270.000	Colonization of Porcine Intestine by E.coli
\$270,000	Dept. of Agriculture-NRICGP Role of A/E Proteins in E.Coli:0157:H7 in
	Intestinal Colonization of Adult Cattle
\$370,000	Dept. of Agriculture-NRICGP

Nickerson, H.	
* Ro \$300,000	estoring the Pine Ridge Forest Ecosystem Ne Environmental Trust
Noureddini, Ha *	Reduction of Phosphorus from Ethanol By-Product used as Livestock Feed Nebraska Corn Board
Oglesby, Rober * Evaluatin	
Orr, John Evolution of / \$408,752	Mathematics Advanced Electronic Educational Support Material Brownstone Research Group
Orti, Guillermo RCN: De \$500,000	Biological Sciences eepFin Will Advance the Phylogeny of "Fishes" NSF
\$320,000 Osorio, Fernan	Veterinary and Biomedical Sciences Analyses of Virulence & Attenuation rminants of PRRSV using Reverse Genetics Dept. of Agriculture-NRICGP do Veterinary and Biomedical Sciences /SV RNA Transcription and Replication DHHS-NIH-NIAID
	Electrical Engineering * Self-Configuration & Localization in Ad Hoc Wireless Sensor Networks
\$548,807 Goddard, Stepl	DOD-DEPSCoR nen Computer Science and Engineering
Peters, Ed \$329,967	School of Natural Resources Nebraska Statewide Stream Inventory Ne Game & Parks Commission
Pilson, Diana Transge \$314,877 Morris, T. Jack	Biological Sciences enic Virus Resistant Squash: Ecological Effect Dept. of Agriculture-CSREES Biological Sciences
Platt, Stephen * In Vivo Ro \$394,550 Farritor, Shane	Mechanical Engineering bootic Camera System for Laparoscopic Surgery DHHS-NIH-NIBIB Mechanical Engineering
Powell, Larkin \$824,969	School of Natural Resources * Productivity and Biology of Ducks Nesting in the Sandhills of Nebraska Ne Game & Parks Commission

Ragsdale, St	tephen Biochemistry Enzymology of Methanogenesis: Mechanism	y
\$420,000	of Methyl-Coenzyme M Reductase Dept. of Energy	.,
	Biochemistry of the Anaerobic	у
\$435,000	Dehalogenation of Chlorinated Aromatics	F
Rajca, Andrz	zej Chemistry	y
	nic Polymers with Magneto-Dielectric Properties DOD-Air Force Off of Sci Rsch	n
Ducharme, S		y
Very Hig \$555,000	h-Spin Polyradicals & Chiral Pi-Conjugated Systems NSF	F
Rajurkar, Ka	amlakar Industrial and Management Systems Engineering	
	Analysis & Gap Monitoring for Improving	-
\$202,500	Micro EDM Performance-Supplement	F
Yu, Zuyuan	Industrial and Management Systems Engineering	g
Ramamurthy		g
Secure Gro \$349,990	pup Communication over Wired & Wireless Networks	F
Variyam, Vin		
Ratcliffe, Br	rett Entomology	y
	A Faunistic Survey of the Dynastinae of Honduras, Nicaragua & El Salvador	
\$342,842	NSF	F
Redepenning	g, lody Center for Materials Research	h
	Chemically Modified Nano-Electrodes for Magnetoelectronics Applications	
\$390,000	NSF	
Binek, Christ Sokolov, And	, , , , , , , , , , , , , , , , , , , ,	
Reichenbach		J
	SEI: Information Modeling for Comparative Visualizations & Analyses	
\$351,428	NSF	F
Reid, John	Mechanical Engineering	a
,	Investigating the Use of Small Diameter Softwood as Guardrail Posts	
\$280,000	Dept. of Agriculture-FS	
Faller, Ronal	d Civil Engineering	9
Reid, Robert		S
* Leadersh \$620,006	ip Training in Attention Deficit Hyperactivity Disorder Dept. of Educatior	n
,,		

Rilett, Laurence	Civil Engineering
Micro-Simulation	State of the Art Traffic 1 Model for Nebraska
\$222,896 Jones, Elizabeth	Ne Dept. of Roads Civil Engineering
\$831,942	on System Deployment Project Ne Dept. of Roads
Jones, Elizabeth	Civil Engineering
Khattak, Aemal	Civil Engineering
Robertson, Brian Development of a N	Mechanical Engineering ovel Inorganic Dielectric
Barrier Layer for Ma	gneto-Resistive Junctions
\$400,000 Doudin, Bernard	NSF
Dowben, Peter	Physics and Astronomy Physics and Astronomy
Rohde, John	Civil Engineering
Midwest States Regiona \$535,000	I Pooled Fund Program-Yr 16 Ne Dept. of Roads
Sicking, Dean	Civil Engineering
Reid, John	Mechanical Engineering
Faller, Ron	Civil Engineering
	Computer Science and Engineering
	urce to Support Controlled
\$874,636	n Analysis and Testing Techniques NSF
Elbaum, Sebastian	Computer Science and Engineering
Dwyer, Matthew	Computer Science and Engineering
* 11R: Dependab \$345,933	le End-User Software Oregon State University
	tices/Wholesome Food
\$249,792	Dept. of Agriculture-CSREES
	Veterinary and Biomedical Sciences
Smith, David R	Veterinary and Biomedical Sciences
* Building Knowledge Di	Computer Science and Engineering scovery & Information Fusion
	ve Systems to Adaptively
\$552,100	Hydrological Resources NSF
Chen, Xun-Hong	School of Natural Resources
Soh, Leen-Kiat	Computer Science and Engineering
Tomkins, Alan Zellmer, Sandra	Public Policy Center College of Law
	C C
	lical and Biomolecular Engineering Jormal Stress Distribution with
	Fexture and Feel by Touching
\$272,156	NSF
Schacht, Walter	Agronomy and Horticulture
Grasslands Ecolog	ical Monitoring System
\$608,880	Dept. of Agriculture-RMA-FCIC

37

Scheffler, Marilyn

Special Education and **Communication Disorders**

	Project PROMOTE	
\$797,184	Dept. of Education	
Sanger, Dixie	Special Education and Communication Disorders	
	Project Support: Speech-Language	
Patho	logists Supporting Literacy Instruction	
\$800,000	Dept. of Education	
Sanger, Dixie	Special Education and Communication Disorders	
	et Re-entry: Preparing Speech-Language	
Pathologists to Serve Students with Traumatic Brain Injury		
\$800,000	Dept. of Education	
Hux, Karen	Special Education and Communication Disorders	

Sellmyer, David

Physics and Astronomy

1	* Fundamental & Magnetic-Hardening Studies of	-
	Advanced Nanocomposite Magnets	
\$270,000	Dept. of En	nergy

Shank, Nancy

\$600.000

Public Policy Center

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

Shapiro, Charles Northeast Research and Extension Center

Improving Organic Farming Systems across Nebraska Aaroecosystems

\$762,949	Dept. of Agriculture-CSREES
Baltensperger, David	Panhandle Research and Extension Center
Brandle, James	School of Natural Resources
Francis, Charles	Agronomy/Horticulture
Knezevic, Stevan	Northeast Research and Extension Center
Wright, Robert	Entomology
Johnson, Ron	School of Natural Resources

Shea. Patrick

School of Natural Resources

* Targeting Watershed Vulnerability & Behaviors Leading to Adoption of Conservation Management Practices

\$570.000 Burbach, Mark Lynne, Gary Martin, Alexander Milner, Maribeth

Dept. of Agriculture-CSREES School of Natural Resources Agricultural Economics Agronomy and Horticulture Agronomy and Horticulture

Sheridan, Susan

Educational Psychology Leadership Training in Interdisciplinary Collaboration Dept. of Education \$800,000

Shield, Jeffrey

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Mechanical Engineering

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

Sicking, Dean

Civil Engineering

Identification of Vehicular Impact Conditions Associated with Serious Ran-Off-Road Crashes \$634.521 Natl Coop Hwy Rsch Prog Khattak, Aemal **Civil Engineering** Jones, Elizabeth **Civil Engineering** Improved Procedures for Safety Performance **Evaluation of Roadside Features** \$833.940 Natl Coop Hwy Rsch Prog Reid, John Mechanical Engineering Rohde, John **Civil Engineering**

Faller, Ronald

Entomology

Biochemistry

Civil Engineering

Siegfried, Blair A Site Specific Field Corn IPM Program that Incorporates Transgenic Technology \$283,913 Pennsylvania State University * Quantifying Risk Factors for Evolution of European Corn Borer Resistance to Cry1F Expressing Corn Hybrids \$346,845 Dept. of Agriculture-CSREES

Simpson. Melanie

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

Computer Science and Engineering

MRI: Acquisition of High Performance Computing & Data Visualization for Scientists & Engineers

\$500.000

Sincovec, Richard

NSF
Computer Science and Engineering

Smith, Andrew

Scarab Biodiversit	y of Southern South America
\$300,000	NSF
Ocampo, Federico	University of Nebraska State Museum

Smith. David R.

Veterinary and Biomedical Sciences

Veterinary and Biomedical Sciences

Physics and Astronomy

University of Nebraska State Museum

Intervention Strategies to Reduce

Escherichia Coli 0157:H7 in Beef Feedvards

\$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

Snow, Gregory

\$

-	* GAANN Fellowships for Physics at UNL
380,016	Dept. of Education

Somerville, Greg

* Environmental Regulation of Staphylococcus epidermidis PIA Synthesis \$367,000 DHHS-NIH-NIGMS

Soukup, Rodney Electrical Engineering **Electronic Devices of Germanium Carbide** \$270,000 NSF Ianno, Natale **Electrical Engineering** Specht, James Agronomy and Horticulture Elevating Protein Content in the North Central USA Soybean-Growing States \$642.199 Iowa State University-NCSRP Graef, George Agronomy and Horticulture * Genetic Mapping & Application of SNP DNA Markers in Soybean \$291,391 Dept. of Agriculture-ARS Spreitzer, Robert Biochemistry Role of the Rubisco Small Subunit \$748,000 Dept. of Energy * Rubisco Phylogenetic Engineering \$202,383 Dept. of Agriculture-NRICGP Srisa-an, Witawas **Computer Science and Engineering** Building Scalable & Adaptive Garbage Collector for Server Systems \$281,000 NSF Elbaum, Sebastian **Computer Science and Engineering Physics and Astronomy** Starace, Anthony **Dynamics of Few-Body Atomic Processes** \$996,337 Dept. of Energy * Strong Field & Ultrafast Atomic and Molecular Processes \$210,000 NSF Steadman, James Plant Pathology Bean/Cowpea Collaborative Research Support Program \$394,481 Michigan State University * Resistance Improvement of Bean thru Multi-Site Screening & Pathogen Characterization \$204,650 Dept. of Agriculture-ARS Veterinary and Biomedical Sciences Steffen, David * Johne's Disease Testing \$208.000 Ne Dept. of Agriculture Stentz, Terry **Construction Management** Human Factors in Railway Operation \$301,250 Dept. of Transportation-FRA Jones, Elizabeth **Civil Engineering Rilett**, Laurence **Civil Engineering** Khattak, Aemal **Civil Engineering** Riley, Michael Industrial and Management Systems Engineering Jones, Erick Industrial and Management Systems Engineering * Analytic Study of Acute Extremity Lacerations in Meat Packing \$293,690 Harvard School of Public Health Stone, Julie Plant Science Initiative/Biochemistry * Role of Transcriptional Regulator in Programmed Cell Death & Plant Development \$240,000 Dept. of Energy

* Test of Adaptive Diver	gence across Altitudinal
	Genomics of Deer Mice
\$492,000	NSF
Stubbendieck, James	Great Plains Studies
Farm Viability, Farmland Pre	servation and Smart Growth
\$308,000 Esseks, J. Dixon	Dept. of Agriculture-NRICGP Great Plains Studies
ESSERS, J. DIXOII	Great Flains Studies
	al and Biomolecular Engineering
Prep Zirconia Aggregates/A \$270,131	dsorbents in Bioseparations
	omputer Science and Engineering er 2 Center
	niversity of California-Los Angeles
Bloom, Kenneth	Physics and Astronomy
Dominguez, Aaron	Physics and Astronomy
	e Shared-Memory Computing & Scientists & Engineers
\$300,000	NSF
Tadros, Maher	Civil Engineering
	Concrete Pavement
\$321,379	Ne Dept. of Roads
Takacs, James	Chemistry
Novel Cyclization Reaction	ons for Organic Synthesis
\$422,500	NSF
+ -=,	
Taylor, Steve	Food Science and Technology
Taylor, Steve * Food Allerg	Food Science and Technology Jen Database
Taylor, Steve * Food Allerg \$346,406	Food Science and Technology gen Database Various Industries
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food	Food Science and Technology Jen Database
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916 Wang, Lijun	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES Biological Systems Engineering
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916 Wang, Lijun Weller, Curtis	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES Biological Systems Engineering Biological Systems Engineering
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916 Wang, Lijun Weller, Curtis Burson, Dennis	Food Science and Technology gen Database Various Industries Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES Biological Systems Engineering
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916 Wang, Lijun Weller, Curtis Burson, Dennis HACCP Training & Research t Process Deviations for	Food Science and Technology gen Database Various Industries d Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES Biological Systems Engineering Biological Systems Engineering Animal Science to Assist Meat Processors with Lethality & Stabilization
Taylor, Steve * Food Allerg \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916 Wang, Lijun Weller, Curtis Burson, Dennis HACCP Training & Research t Process Deviations for \$495,640	Food Science and Technology gen Database Various Industries d Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Consist Meat Processors with Lethality & Stabilization Dept. of Agriculture-CSREES
Taylor, Steve * Food Allerge \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916 Wang, Lijun Weller, Curtis Burson, Dennis HACCP Training & Research t Process Deviations for \$495,640 * Improving Safety of She	Food Science and Technology yen Database Various Industries d Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Consist Meat Processors with Lethality & Stabilization Dept. of Agriculture-CSREES ell Eggs & Egg Products by
Taylor, Steve * Food Allerge \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916 Wang, Lijun Weller, Curtis Burson, Dennis HACCP Training & Research t Process Deviations for \$495,640 * Improving Safety of She Addressing Critical Research	Food Science and Technology gen Database Various Industries d Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Consist Meat Processors with Lethality & Stabilization Dept. of Agriculture-CSREES
Taylor, Steve * Food Allerge \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916 Wang, Lijun Weller, Curtis Burson, Dennis HACCP Training & Research t Process Deviations for \$495,640 * Improving Safety of She Addressing Critical Resea Enteritidis & S	Food Science and Technology yen Database Various Industries d Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering biological Systems Engineering Dept. of Agriculture-CSREES ell Eggs & Egg Products by arch Needs for Salmonella ialmonella spp Dept. of Agriculture-NRICGP
Taylor, Steve * Food Allerge \$346,406 Midwest Advanced Food \$462,110 Allergenicity Eval \$417,610 Thippareddi, Harshavardhan Understanding and Control Transmission through Re \$222,270 HACCP Assistance for Small Development & Validation of \$599,916 Wang, Lijun Weller, Curtis Burson, Dennis HACCP Training & Research t Process Deviations for \$495,640 * Improving Safety of She Addressing Critical Research	Food Science and Technology gen Database Various Industries d Manufacturing Alliance Dept. of Agriculture-CSREES uation of Isinglass Various Industries Food Science and Technology ling Listeria Monocytogenes ady-to-Eat Meat Products Colorado State University & Very Small Processors with Safe Meat Chilling Processes Dept. of Agriculture-CSREES Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Consist Meat Processors with Lethality & Stabilization Dept. of Agriculture-CSREES ell Eggs & Egg Products by arch Needs for Salmonella ialmonella spp

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40

Thomas, Steven	School of Natural Resources	Verma, Shashi	School of Natural Resources
	BR: Linking Genes to Ecosystems		uestration and Global Climate Change
\$307,189	University of California-Riverside	\$941,161 Knops, Johannes	Dept. of Energy-EPSCoR Biological Sciences
Tiller, Dale	School of Engineering Technology	Cassman, Kenneth	Agronomy and Horticulture
	erging Redundant Sensor Network	Cussinun, Kennetin	Agronomy and nor dealtare
	ation for Improved Building Control	Vidaver, Anne	Plant Pathology
\$327,000	Dept. of Energy-Natl Energy Tech		olecular Characterization of
Henze, Gregor	School of Engineering Technology	Clavib	acter iranicus & Related Species
-		\$318,742	Dept. of Agriculture-ARS
Torquati, Julia	Family and Consumer Sciences		
Evaluati	ion of Promising Models and Delivery	Viljoen, Hendrik	Chemical and Biomolecular Engineering
	iches to Child Care Provider Training		sed Thermocycler w/Intelligent Software
\$305,393	Iowa State University	\$350,636	DHHS-NIH-Nat Ctr Rsch Resources
Wilcox, Brian Raikes, Helen	Center on Children, Families and the Law Center on Children, Families and the Law	Gogos, George	Mechanical Engineering
Ruikes, meleli	Center on Children, Furnilles and the Law	Wagner, William	Biological Sciences
Trainin, Guy	Teaching, Learning and Teacher Education		on of Direct Mating Benefits to Females
	* Arts Linc	\$301,283	NSF
\$261,674	Lake Elsinore USD	+	
		Waldren, Vernon	Southeast Research and Extension Center
Tsymbal, Evgeny	Physics and Astronomy		* HUD Omaha Lead Site
	of Electronic Magnetic & Transport	\$300,000	Dept. of Housing and Urban Development
	ies of Nanoscale Magnetic Junctions	Welsted William	F
\$300,000	NSF	Walstad, William	Economics
Jaswal, Sitaram	Physics and Astronomy		hing in Undergraduate Economic Courses NSF
\$200,751	le Modeling of Magnetic Nanocontacts Seagate Technology	\$674,928	INSE
\$200,751	Sedgate recimology	Wang, Jun	Computer Science and Engineering
Uiterwaal, Kees	Physics and Astronomy		CSR-PDOS: Energy-Efficient,
	cused Laser Beam: Molecular Dynamics		rformance Storage Array Systems
\$442,001	NSF	\$260,000	NSF
Umstadter, Donald	Physics and Astronomy	Wang, Xinwei	Mechanical Engineering
	celeration with High Intensity Lasers		-Surface Structural Damages
\$401,277	NSF		Assisted Surface Nanostructuring
	r Produced Coherent X-Ray Sources	\$249,999	NSF
\$270,000	Dept. of Energy	Lu, Yongfeng	Electrical Engineering
		Weeks, Donald	Biochemistry
Van Etten, James	Plant Pathology		ent of Herbicide-Resistant Plants for
	novation in Membrane Protein Production		-Safe Production Energy & Biomass Crops
\$428,684	Univ of California-San Francisco	\$232,000	Consortium for Plant Biotechnology Research
Dunigan, David	Plant Pathology	+	
5 /		Weisz, Victoria	Center on Children, Families and the Law
Variyam, Vinod	Computer Science and Engineering	Nebr	aska State Court Improvement
	in Computational Complexity Theory	\$861,502	Supreme Court of Nebraska
\$200,000	NSF		P ' 1 ' 1 A '
Veen Cterley	Createl Education and	Weldon, Robert	Biological Sciences
Vasa, Stanley	Special Education and		ular Targeting of HIV Gag Proteins
Project NETC.	Communication Disorders Nebraska Educational Transition Specialists	\$393,825	DHHS-NIH-NIAID
\$798,624	Dept. of Educational Transition Specialists		
Scheffler, Marilyn	Special Education and		
	Communication Disorders		

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Weller, Curtis

Biological Systems Engineering

Dept. of Agriculture-NRICGP Nutrition and Health Sciences

Food Science and Technology

Food Science and Technology

Industrial Ag Products Center

Biological Systems Engineering

Purification Process Influences on Structural & Nutritional Function of Grain Sorghum

\$338.000 Carr, Timothy Schlegel, Vicki Cuppett, Susan Hwang, Keum Taek Wang, Lijun

Whitbeck, Les

Sociology

Animal Science

Sociology

Shonga Ska: Sacred Horse Society Drug Prevention Program \$433,944 DHHS-NIH-Nat Inst Drug Abuse

White, Brett

Transcriptional Regulation/Porcine GnRH Receptor Gene Dept. of Agriculture-CSREES \$287,193

White, loseph

Developing an Alcohol Prevention Program with the Dakota \$384.059 DHHS-NIH-NIAAA Hovt. Dan Sociology Whitbeck, Les Sociology Godfrey, Joyzelle Sociology

Wiegand, Roger

Mathematics

GAANN Fellowship Prog	ram: Mathematics at UNL
\$633,360	Dept. of Education
Pitts, David	Mathematics
Walker, Judy	Mathematics
Walker, Mark	Mathematics
Bellows, Laurie	Graduate Studies

Wiener, Richard

Wilhite, Donald

\$227.459

44

Psychology

	REU Site: Psychology and Law	
\$269,280		NSF
	Jury Bias in Criminal Cases: Sexual Assault,	
	Homicide and Generic Prejudice	
\$233,883		NSF

School of Natural Resources D LONG TO T DI

L	Drought Monitoring, Planning & Mitigation
\$495,371	Dept. of Agriculture-CSREES
Mitig	ation & Preparedness Technologies for the US
\$589,996	Dept. of Agriculture-CSREES
* Estin	nating the Impacts of Complex Climatic Events:
Dr	ought in Colorado, Nebraska & New Mexico
\$300,000	Dept. of Commerce-NOAA
	•

Willis, Mary Anthropology and Geography

Anterior Dentition and Restoration Among Nuer and Dinka Refugees from Sudan The Jacob and Valeria Langeloth Foundation

Wilson, Brent

Mechanical Engineering

Development of Improved Product Performance through Optimization & Modeling of **Engineering Materials Processing & Function** \$341.179 Brenco/Amsted Industries

Panhandle Research and Extension Center Wilson Jr., Robert * Assessing the Long Term Viability of Roundup Ready

Technology as a Foundation for Cropping Systems \$880.000 Monsanto Co.

Witkowski, John Northeast Research and Extension Center

Integrated Network for Tribal College Community Watershed Natural Resources Education \$237,105 Iowa State University

Woldt, Wayne **Biological Systems Engineering**

* Advancing Onsite	e Wastewater Treatment in Nebraska
\$259,742	Ne Dept. of Environmental Quality
Skipton, Sharon	Southeast Research and Extension Center

Wood, Charles **Biological Sciences**

* AIDS and Cancer Specimen Bank \$320,442 George Washington University

Woodward, Gordon

Increasing Participation in Computer Science, Engineering, & Mathematics through NSF Scholarships at UNL \$400,000 NSF Ballard John Engineering & Technology

Ballara, John	Engineering & lechnology
Ramamurthy, Byrav	Computer Science and Engineering
Goddard, Steve	Computer Science and Engineering
Lee, Kevin	Arts & Sciences
Nebraska	RELL in Applied Mathematics

Nebraska KEU in Applied Mathematics \$223,987 NSF **Mathematics**

Rebarber, Richard

Wortmann, Charles

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

\$235,839 Erickson, Galen Schulte, Dennis Franti, Tom Jose, H. Douglas

Agricultural Economics Student Affairs

Nebraska Corn Board

Biological Systems Engineering

Biological Systems Engineering

Animal Science

Aaronomy/Horticulture

Mathematics

Yamamoto,	Catherine	Student Affairs
	Upward Bound-Lincoln	
\$938,496		Dept. of Education
	Upward Bound Math/Science Pr	oject
\$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

Yoder, Ronald

Biological Systems Engineering

Nebraska AgrAbility \$800,000 Dept. of Agriculture-CSREES Baquet, Alan

Nutrition and Health Sciences Zempleni, Janos

* Biotin Affects Cytokine Metabolism \$409.586 Dept. of Agriculture-NRICGP Epigenetic Effects of Biotin on Activation of **Endogenous Viral Sequences DHHS-NIH-NIEHS**

\$401,959

Chemistry

Agricultural Economics

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

Zera, Anthony

Biological Sciences

Enzymatic and Molecular Bases of	Trade-Offs in
Lipid Metabolism that Underlie Life H	istory Trade-Off
\$423,682	NSF
Harshman, Lawrence	Biological Sciences
Morph-Dependent Cyclic JH Titer in a V	Ving-Polymorphic
Insect: Adaptive Significance & Unde	erlying Causes
\$321,626	NSF
Harshman, Lawrence	Biological Sciences
Physiological & Molecular Causes	
Variation/Covariation in Endocrine	e Regulation
\$372,000	NSF

Zhang, Luwen

Center for Virology

Interferon Regulatory Factor 7 and NPC \$393,855 DHHS-NIH-NIAID

Zlotnik, Vitaly

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Geosciences Mechanisms Producing Variation in Lake Salinity in

Dune Environments: Nebraska Sand Hills \$219,958 NSF Fritz, Sherilyn Geosciences Swinehart, James School of Natural Resources

Career and K Awards

Active awards in 2006

* Indicates new in 2006

NSF CAREER Grants

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



Adams, Stephanie

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



Becker, Donald

Biochemistry Spectrochemical Studies of Novel PutA Flavoprotein \$314,250



Binek, Christian Physics and Astronomy * Education & Research on Nanoscale Spintronic Systems & Heterostructures \$500.000

NSF

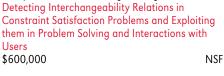
NSF

NSF



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

Choueiry, Berthe



Computer Science and Engineering

Dominguez, Aaron

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

Elbaum, Sebastian

Computer Science and Engineering Leveraging Field Data to Test Pervasive Systems \$412.594 NSF



\$200.000 - \$999.999



Gursoy, Mustafa

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



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Wang, Lilv

School of Engineering Technology Integrating Time-Variant Source Directivity into Architectural Acoustic Auralizations \$401,376 NSF

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.

K Awards

behavioral or clinical sciences leading to research independence.

National Institutes of Health K Awards provide support for

intensive development experiences in one of the biomedical,

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



Angeletti, Peter **Biological Sciences** Maintenance of Human Papilloma Virus Genes \$613,512

DHHS-NIH-NCI



DiLillo, David Psychology Family Functioning of Adults Maltreated as Children \$670.826 DHHS-NIH-NIMH



Kiviniemi. Marc Psychology Affect & Decision Making for Cancer-Related **Behaviors** \$535,692 DHHS-NIH-NCI



Sayood, Khalid **Electrical Engineering** Identification of Biological Materials of Unknown Origin \$764.005 DHHS-NIH-NIBIB



Tvler. 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 2006 * Indicates new in 2006

Cahan, David

History

NSF

A Biography of Hermann von Helmholtz

\$102,868 1/1/05 - 12/31/07



David Cahan, Charles Bessey Professor and professor of history, is writing a fullscale, 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.

American Life in Poetry Project

Kooser, Ted

English

Poetry Foundation

\$125,000 1/1/05 - 12/31/07



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

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

Walt Whitman Archive

Price, Kenneth

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



Enalish

National Endowment for the Humanities

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

The Walt Whitman Hypertext Archive

\$200,000 5/1/03 - 4/30/06 National Endowment for the Humanities

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

Interoperability of Metadata Standards for Digital Thematic Research Collections

\$169,651 11/1/05 - 10/31/07 Price, Kenneth Bolin, Mary Barney, Brett

	English
	Libraries
	Libraries
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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. Metadota integration is

Institute of Museum and Library Services

an important but yet unattained goal for digital thematic research collections, which employ standards for transcriptions, digital images, finding aids and administrative records. These standards have been developed by different communities. The Metadata Encoding and Transmission Standard (METS) shows promise as a means of integrating various standards, but no testing of METS has been done using digital thematic research as a model; thus ad hoc and idiosyncratic solutions have sprung up, with various unreliable results. UNL will create a METS profile to test its reliability and also submit the package to two digital library systems at Brown University and the University of Virginia.

Benjamin A. Botkin Collection-Preservation/Access

\$97,435 7/1/01 - 6/30/06

National Endowment for the Humanities

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 of 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.

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

\$222,177 Dunham, Gary 9/1/03-8/31/05

National Endowment for the Humanities University Press

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 2006 * Indicates new in 2006

	English Citizens: Writing from Rural Nebraska
Youth Involve \$8,100	ed in Place Conscious Education Nebraska Humanities Council
Dunham, Gary	University Press
\$20,000	blace Mission among the Cherokees National Historic Publications and Records
\$6,000	tion of "Beaver Steals Fire" Montana Committee for Humanities
Engen-Wedin, Nancy	Lied Center for Performing Arts * ArtsReach
\$41,500	Nebraskans for the Arts
* Umo " \$11,250	ho ⁿ Cultural Arts Program Kennedy Center for Performing Arts
Handa, Rumiko	Architecture
	⁻ Design: Multidisciplinary, dia Database and Website
\$12,000 Potter, James	Graham Foundation Architecture
Randolph, Ladette	University Press
* Access to Artistic \$25,000	Excellence: International Translations National Endowment for the Arts
Steger, Paul J	ohnny Carson School of Theatre and Film
* Nebraska \$7,210	Repertory Theatre Statewide Nebraska Arts Council
Walter, Katherine	University Libraries
Quilt Index \$20,000	National Leadership Project Michigan State University
Crews, Patricia	Textiles, Clothing and Design ken Bow Microfilming Project (CESU)
\$20,000	Dept. of Interior-NPS
Edwards, Rick	Economics
Weiss, Wendy * Hi	Textiles, Clothing and Design llestad Textiles Gallery
\$5,285	Friends of the Hillestad Textiles Gallery

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PATENTS ISSUED IN 2006

Recognition for faculty who received patents UNL faculty indicated in red

Alfano, James

Biological Sciences Title: DNA Molecules and Polypeptides of Pseudomonas Syringae HRP Pathegenicity Island and Their Uses Description: Novel pharmaceutical targets Date: September 5, 2006 No. 7,102,059 Country: United States

Jorgensen, James

Electrical Engineering Title: Sound Generating Apparatus for Use with Gloves and Similar Articles Description: Cheer gloves Date: May 2, 2006 No. 7,038,575 Country: United States

Klopfenstein, Terry J.

Animal Science Title: Rumen Inert Oil Description: Ruminant feed Date: 1/3/2006 No. PI9609476-1 Country: Brazil

Oleynikov, Dmitry; **Farritor, Shane Michael**; Hadzialic, Adnan; **Platt, Stephen**

Mechanical Engineering Title: Microrobot for Surgical Applications Description: Miniature surgical robot Date: May 9, 2006 No. 7,042,184 Country: United States

Redepenning, Jody

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Chemistry Title: Electrolytic Deposition of Coatings for Prosthetic Metals and Alloys Description: Bone-like coating for prosthetics Date: 3/21/2006 No. 7,014,749 Country: United States

Weeks, Donald

Biochemistry Title: Methods and Materials for Making and Using Transgenic Dicamba-Degrading Organisms Description: Dicamba resistant crops Date: March 2, 2006 No. 558,838 Country: Republic of Korea

Date: March 9, 2006 No. 528,010 Country: New Zealand

Date: April 4, 2006 No. 7,022,896 Country: United States

Date: September 12, 2006 No. 7,105,724 Country: United States

2006 INTELLECTUAL PROPERTY LICENSES

UNL faculty indicated in red

Licensee: Apath Description: Influenza plasmids Inventor: **Donis, Rueben** Department: Veterinary and Biomedical Sciences

Licensee: Arrow Seed Co. Inc. Description: Beefmaker variety of intermediate wheatgrass Inventors: **Baltensperger, David D.**; Nicholson, R.A.; **Reece, Patrick**; Schuman, G.; **Vogel, Kenneth** Department: Agronomy and Horticulture

Licensee: Arrow Seed Co. Inc. Description: Bonanza variety of big bluestem grass Inventors: Anderson, Bruce; Klopfenstein, Terry; Mitchell, Robert; Vogel, Kenneth Department: Agronomy and Horticulture, Animal Science

Licensee: Bauer, Dennis Description: Beefmaker variety of intermediate wheatgrass Inventors: **Baltensperger, David D.; Reece, Patrick; Vogel, Kenneth**; Schuman, G.; Nicholson, R.A. Department: Agronomy and Horticulture

Licensee: Biotechnology Research and Development Corporation Description: Technology related to male sterility in plants Inventors: Abdelnoor, Ricardo Vilela; Mackenzie, Sally Department: NRI Center for Biotechnology

Licensee: Blooms of Bressingham Description: Sweet Joanne penstemon hybrid Inventors: Lindgren, Dale Tennis; Todd, Kim Department: Agronomy and Horticulture

Licensee: Cereplast Inc. Description: Water resistant degradable foam, biodegradable polymers Inventors: Biby, Gerald D.; Chinnaswamy, Rangaswamy; Fang, Qi; Hanna, Milford A. Department: Biological Systems Engineering, Industrial Ag Products Center

Licensee: DTL Controls, LLC Description: Air flow conductors Inventor: Liu, Mingsheng Department: Architecture

Licensee: E-Tech Description: Conductive concrete overlay for bridge deck de-icing Inventors: **Chen, Bing; Nguyen, Lim; Tuan, Christopher** Department: Civil Engineering, Computer and Electronics Engineering Licensee: Gayland Ward Seed Co. Inc. Description: Atlas brm-12 variety of forage sorghum Inventors: **Funnell, Deanna**; Grant, Richard; Oliver, Amanda; **Pedersen, Jeffrey; Toy, John** Department: Agronomy and Horticulture, Plant Pathology

Licensee: GC Image Description: Software for processing data from comprehensive two-dimensional gas chromatography Inventor: **Reichenbach, Stephen** Department: Computer Science

Licensee: Intellectual Ventures Description: Communications, memory and circuitry technologies Inventors: Algrain, Marcello C.; Bandyopadhyay, Supriyo; Ehlers, Doug; Hardt, Stephen L.; Hoffman, Michael; Nguyen, Lim; Sayood, Khalid; Zhu, Quiming Department: Computer and Electronics Engineering, Computer Science, Electrical Engineering

Licensee: Laursen, Daniel Description: Beefmaker variety of intermediate wheatgrass Inventors: **Baltensperger, David D.**; Nicholson, R.A.; **Reece, Patrick**; Schuman, G.; **Vogel, Kenneth** Department: Agronomy and Horticulture

Licensee: Nebraska Surgical Solutions, Inc. Description: Surgical miniature robotic device Inventors: Oleynikov, Dmitry; **Farritor, Shane Michael**; Hadzialic, Adnan; **Platt, Stephen** Department: Mechanical Engineering

Licensee: The Seed Company Description: Varieties of high protein soybeans, high sucrose soybeans, and high yield soybeans Inventor: **Graef, George** Department: Agronomy and Horticulture

Licensee: Star Seed Inc. Description: Bonanza variety of big bluestem grass Inventors: **Anderson, Bruce**; **Klopfenstein, Terry**; **Mitchell, Robert**; **Vogel, Kenneth** Department: Agronomy and Horticulture, Animal Science

Licensee: Star Seed Inc. Description: Goldmine variety of big bluestem Inventors: Anderson, Bruce; Klopfenstein, Terry; Mitchell, Robert; Vogel, Kenneth Department: Agronomy and Horticulture, Animal Science

Licensee: Stock Seed Farm Description: Bonanza variety of big bluestem grass Inventors: Anderson, Bruce; Klopfenstein, Terry; Mitchell, Robert; Vogel, Kenneth

Department: Agronomy and Horticulture, Animal Science

Licensee: Todd Valley Farms Description: NE-KYB-05-001 variety of Kentucky bluegrass Inventors: **Riordan, Terrance P.**; **Shearman, Robert C.**; **Wit Jr., Leonard A.**

Department: Agronomy and Horticulture

CREATIVE WORKS IN FINE AND PERFORMING ARTS

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

Bailey, John R.

School of Music

Performer, invited recital for the National Flute Association national convention, *Flute and Piano Works of Theodor Blumer*, Pittsburgh, Pa., with Laura Silverman, pianist, University of Akron. Conductor, The American Flute Orchestra tour in Russia, Latvia, and Estonia.

Barnes, Paul E.

School of Music

Performer, recording of American Piano Concertos, Albany, N.Y. Performer, recording of Philip Glass Piano Concerto No. 2 (After Lewis and Clark), New York, N.Y.

Author, sheet music, Orphee Suite for Piano, London, U.K.

Brown, Joann Teaching, Learning & Teacher Education

Artist, mixed media image, *The Interconnectness Of All*, Ink People Gallery, Eureka, Calif.

Bybee, Ariel

School of Music

School of Music

Soloist, Thirteenth American Music Festival, Chinese government.

Chang-Barnes, Ann

Performer, piano, world premiere concert, St. Petersburg, Russia, of newly arranged works of Astor Piazzolla for piano and cello quartet, with the Rastrelli Cello Quartet.

Performer, piano, International Fortepiano Forum, Poeke, Belgium.

Clinton, Mark K.

School of Music

Performer, piano, guest soloist with the Prince George's Philharmonic, College Park, Md.

Performer, piano, 2006 Ameropa International Chamber Music Festival, Prague, Czech Republic, with Min Kwon, piano; John Lindsey, violin; Karen Becker, cello; and French mezzo-soprano Anne Donnadieu.

Performer, piano, guest artist at the 2006 Illinois Chamber Music Festival, with Julieta Mihai, violin; John Lindsey, violin; Lisa Nelson, viola; Nina Gordon, cello; Amy Flores, cello.

Eklund, Peter A.

School of Music

Conductor, 200-voice honor choir with performances in Italy, France, Germany, Austria

Conductor, international convention in Kuala Lampur, Malaysia.

Fritz, Dana

Art & Art History

Artist, photography, Garden Views: the Culture of Nature, University Gallery, Pittsburg State University, Pittsburg, Kan. Artist, photography, Back to Nature, Contemporary Artists Center, North Adams, Mass.

Fuelberth, Rhonda J.

School of Music

Performer, peer-reviewed performance, University Women's Chorale appearance, MENC National Convention, Salt Lake City, Utah.

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Hanrahan, Kevin

School of Music

Performer, guest artist voice recital, Pune, India, with Priya Palekar, soprano; Roberta Swedien, piano.

Performer, voice recital, Die Schöne Müllerin, Mumbai, India, with Robert Swedien, piano.

Horvay, Martha

Textiles, Clothing & Design

Artist, collage, Washing Dishes and Gazing West, A.I.R. Gallery, New York, N.Y.

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

Artist, quilts, Night Sky 1, Fuller Craft Museum, Brockton, Mass.; Material Things, The Sawmill Gallery, James Madison University, Harrisonburg, Va., with Frankie Flood, Denise Pelletier, Laura Strand; Smoke Signals, Indianapolis Museum of Art; Material Difference: Soft Sculpture and Wall Works from Midwest Collections, Chicago Cultural Center, Hanging in the Balance and At or Near the Surface, Fifth International Fiber Biennial, Snyderman-Works Galleries, Philadelphia, Pa.; At or Near the Surface, Explorations II: Quilts by the Faculty of the Quilt Surface Design Symposium, Ohio Craft Museum, Columbus, Ohio; Sky/ Wind Variations 2, Studio Art Quilt Associates: The Creative Force, Fall International Quilt Market and International Quilt Festival, Houston, Texas; The Nature of Truth (The Truth of Nature), Tied Together: Textile Art in the 21st Century, Chandler Center for the Arts, Chandler, Ariz.; exhibited guilts using various techniques, Michael James Studio Quilts, La Linguella Cultural Arts Center, Portoferrario, Italy; Quilts from the Collection of Penny Nii, Gualala Arts, Gualala, Calif.; Abstraction No. 6: Afterimage, Embassy of the United States of America, Seoul, South Korea; Recent Work in Digital Textiles, Festival of Quilts, National Exposition Center, Birmingham, U.K.

Solo exhibit, Racine Art Museum, Racine, Wis., included five new works and loaned works from the International Quilt Study Center collection. The exhibition was featured in the June/July 2006 issue of American Craft Magazine. Home Economics, entered into the permanent collection of the Racine Art Museum.

Kendall, Gail M.

Art & Art History

Artist, ceramics, Woodfire Conference Invitational Exhibition, University of Northern Arizona, Flagstaff, Ariz. Artist, ceramics, Art School At Old Church, pottery exhibition, Demarest, N.J.

Shomos, William H.

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School of Music

Artist, stage director for Nevada Opera's Die Zauberflaute by Wolfgang Amadeus Mozart.

Stage director for Nevada Opera's Summer Festival production of Così fan tutte by Wolfgang Amadeus Mozart.

Artist, stage director for La Musica Lirica's production of II Campanello by Gaetano Donizetti, Novafeltria, Italy.

Trout, Barbara L.

Textiles, Clothing & Design

Artist, silk dress, In the Spirit of the Deertailed Dress, Russell Hill Rogers Galley, Southwest School of Art, San Antonio, Texas. Artist, exhibited headpiece in multimedia, Empress Bonnet, Creative Grand Crossings, Grand Rapids, Mich. Artist, multi-component neckpiece, Priestess Collar, Celebration: Spiritual Exhibit, Grand Rapids, Mich.

Weiss, Wendy R.

Textiles, Clothing & Design Artist, set for an outdoor performance, Curlers, Smoky Hill River Festival, Salina, Kan.

Artist, handwoven naturally dyed silk fabric mounted on wood, Invitation, The Space of Change, District of Columbia Art Center, Washington, D.C., with Jay Kreimer.

Artist, textile, sound and movement installation, Ground Shift, Washington D.C., with Jay Kreimer.

White, Darryl A.

School of Music

Artist, panelist adjudicator, National Foundation for Advancement in the Arts. Miami, Fla.

Performer and lecturer, director of the Clifford Brown/Stan Getz All-Stars, Annual Monterey Jazz Festival, Monterey, Calif. Featured artist in a jazz performance, American Jazz Museum, Blue Room, Kansas City, Missouri.

Performer and lecturer, performances at Lincoln Center and the Conference Main Stage, International Association for Jazz Educators Conference, New York, N.Y.

Williams, Sandra M.

Art & Art History

Artist, The Seven Mysteries, solo exhibition of mixed media, Crystal Lake, Ill. and Ashland, Ore.

BOOKS

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

Andrews, Larry

Language Exploration and Awareness 3rd Ed.; Mahwah, N.J., Lawrence Erlbaum, 2006. (Teaching, Learning & Teacher Education)

Archer, J. Clark; Lavin, Stephen J.; Martis, Kenneth C.; Shelley, Fred M.

Historical Atlas of US Presidential Elections, 1788-2004; Washington, D.C., Congressional Quarterly Press, 2006. (Anthropology & Geography)

Avolio, Bruce J.; Luthans, Fred

The High Impact Leader; New York, N.Y., McGraw Hill, 2006. (Management)

Bauer, Grace; Kane, Julie, eds.

Umpteen Ways of Looking at a Possum: Critical and Creative Responses to Everette Maddox; New Orleans, La., Xavier Review Press, 2006. (English)

Bauer, Grace

Beholding Eye; Cincinnati, Ohio, Custom Words, 2006. (English)

Beaver, Gregory L.

PEAR Installer Manifesto; London, U.K., Packt Publishing, 2006. (School of Music)

Berens, Charlyne

Chuck Hagel: Moving Forward; Lincoln, Neb., University of Nebraska Press, 2006. (Journalism & Mass Communications)

Bicknell-Holmes, Tracy; Logan-Peters, Kay

External Review for Promotion and Tenure; Washington, D.C., Association of Research Libraries, 2006. (University Libraries)

Bryant, Miles

Horse Smiling and Other Moments Recollected in Nebraska; Lincoln, Neb., B Street Press, 2006. (Educational Administration)

Burnett, Amy N.

Teaching the Reformation: Ministers and Their Message in Basel, 1529-1629; New York, N.Y., Oxford University Press, 2006. (History)

Burnett, Amy N.; Goodburn, Amy; Savory, Paul; Bernstein, Daniel

Making Teaching and Learning Visible: Course Portfolios and the Peer Review of Teaching; Bolton, Mass., Anker, 2006. (History, English, Industrial and Management Systems Engineering)

Burnett, Stephen G; Bell, Dean Phillip, eds.

Jews, Judaism and the Reformation in Sixteenth Century Germany; Leiden, Netherlands, Brill, 2006. (Classics & Religious Studies, History)

Carr, Thomas M.

Voix des abbesses du Grand Siècle: la prédication au féminin à Port-Royal; Tubingen, Germany, Gunter Narr Verlag, 2006. (Modern Languages & Literatures)

Dalla, Rochelle L.

Exposing the "Pretty Woman" Myth: A Qualitative Investigation of Street-Level Prostituted Women; Lanham, Md., Lexington Publishers, Inc., 2006. (Family & Consumer Sciences)

DeFrain, John D.; Olson, David H.

Marriages and Families: Intimacy, Diversity, and Strengths, 5th Ed.; New York, N.Y., McGraw-Hill, 2006. (Family & Consumer Sciences)

DeFrain, John D.; Dahl, Susan; Campbell, John S.

We Cry Out: Living with Developmental Disabilities; Lincoln, Neb., iUniverse, 2006. (Family & Consumer Sciences)

DeFrain, John D.; Lodl, Kathleen A.; Brand, Gail L.; Fenton, Ann M.; Friesen, Jeanette L.; Hanna, Janet S.

Family Treasures: Creating Strong Families; Lincoln, Neb., University of Nebraska-Lincoln Extension, 2006. (Family & Consumer Sciences)

Digman, Lester A.

Strategic Management: Competing in the Global Information Age, 8th Ed.; Mason, Ohio, Thomson Custom Solutions, 2006. (Management)

Dixon, Wheeler Winston, ed.

American Cinema of the 1940s; New Brunswick, N.J., Rutgers University Press, 2006. (English)

Dixon, Wheeler Winston

Visions of Paradise; New Brunswick, N.J., Rutgers University Press, 2006. (English)

Driskell, Judy A.; Wolinsky, Ira, eds.

Sports Nutrition: Vitamins and Trace Elements, 2nd Ed.; Boca Raton, Fla., CRC Press, 2006. (Nutrition & Health Sciences)

Edwards, Richard, ed.

Nebraska 1875: Its Advantages, Resources, and Drawbacks; Lincoln, Neb., University of Nebraska Press, 2006. (Economics)

Gladyshev, Vadim N.; Hatfield, Dolph L.; Berry, Marla J., eds.

Selenium: Its Molecular Biology and Role in Human Health; New York, N.Y., Springer, 2006. (Biochemistry)

Grady, Marilyn L.; Brock, Barbara

Developing a Teacher Induction Plan; A Guide for School Leaders; Thousand Oaks, Calif., Corwin Press, 2006. (Educational Administration)

Grady, Marilyn L.; Brock, Barbara

From First Year to First Rate, 3rd Ed.; Thousand Oaks, Calif., Corwin Press, 2006. (Educational Administration)

Grady, Marilyn L.

194 High-Impact Letters for Busy Principals: A Guide for Handling Difficult Correspondence, 2nd Ed.; Thousand Oaks, Calif., Corwin Press, 2006. (Educational Administration)

Grange, William

Historical Dictionary of German Theater; Lanham, Md., The Scarecrow Press, 2006. (Johnny Carson School of Theatre and Film)

Gruhl, John; Welch, Susan; Comer, John; Rigdon, Susan M.

American Government, 10th Ed.; Belmont, Calif., Thomson Wadsworth, 2006. (Political Science)

Hamann, Ted; Meltzer, Julie

Multi-Party Mobilization for Adolescent Literacy in a Rural Area: A Case Study of Policy Development and Collaboration; Providence, R.I., Education Alliance at Brown University, 2006. (Teaching, Learning & Teacher Education)

Hamann, Ted; Meltzer, Julie

Meeting the Needs of Adolescent English Language Learners for Literacy Development and Content Area Learning, Part Two: Focus on Classroom Teaching and Learning Strategies; Providence, R.I., Education Alliance at Brown University, 2006. (Teaching, Learning & Teacher Education)

Harnisch, Delwyn L.; Kimpton, P.

Scale Your Way to Musical Assessment: The Ultimate Guide to Creating a Quality Music Program; Downers Grove, Ill., Music Performance Assessment Experts Inc., 2006. (Teaching, Learning & Teacher Education)

Hefle, Susan L.; Koppelman, Stef J., eds.

Detecting Allergens in Foods; Cambridge, U.K., Woodhead Publishing Ltd, 2006. (Food Science & Technology) Dr. Hefle died in August of 2006.

Honey, Maureen

Shadowed Dreams: Women's Poetry of the Harlem Renaissance, 2nd Ed., revised and expanded; New Brunswick, N.J., Rutgers University Press, 2006. (English)

Hope, Debra A.; Heimberg, Richard G.; Turk, Cynthia L.

Therapist Guide for Managing Social Anxiety: A Cognitive-Behavioral Therapy Approach; New York, N.Y., Oxford, 2006. (Psychology)

Housh, Terry J.; Housh, D. J.; deVries, H.A.

Applied Exercise and Sport Physiology, 2nd Ed.; Scottsdale, Ariz., Holcomb Hathaway Publishers, 2006. (Nutrition & Health Sciences)

Hutkins, Robert W.

Microbiology and Technology of Fermented Foods; Ames, Iowa, Blackwell-IFT Press, 2006. (Food Science & Technology)

Isernhagen, Jody C.

Portraits of Excellence Year Five Report, Comprehensive Evaluation of Nebraska School Based Teacher-Led Assessment and Reporting System (STARS); Lincoln, Neb., Nebraska Department of Education, 2006. (Educational Administration)

Jameson, Mary Liz; Ratcliffe, Brett C., eds.

Scarabaeoidea in the 21st Century: a Festschrift Honoring Henry F. Howden; Athens, Ga., Coleopterists Society, 2006. (Museum, Entomology)

Kaul, Robert B.; Sutherland, David M.; Rolfsmeier, Steven R.

The Flora of Nebraska; Lincoln, Neb., School of Natural Resources, UNL, 2006. (Museum)

Kooser, Ted; Cox, Steve

Writing Brave and Free; Lincoln, Neb., University of Nebraska Press, 2006. (English)

Krone, Kathleen J.; Putnam, Linda L., eds.

Organizational Communication; London, U.K., SAGE Publications, 2006. (Communication Studies)

Lee, Sang M.; Olson, David L.

Introduction to Management Science, 3rd Ed.; Cincinnati, Ohio, Thomson Publishers, 2006. (Management)

Lepard, Brian

Section 482 Allocations: Judicial Decisions and IRS Practices; Washington, D.C., Bureau of National Affairs, 2006. (Law)

Luthans, Fred; Youssef, Carolyn M.; Avolio, Bruce J.

Psychological Capital; New York, N.Y., Oxford University Press, 2006. (Management)

Moshman, David

The Daughters of the Plaza de Mayo; New York, N.Y., iUniverse, 2006. (Educational Psychology)

Murphy, Linda L.; Spies, Robert A.; Plake, Barbara S., eds.

Tests in Print VII; Lincoln, Neb., Buros Institute of Mental Measurements, 2006. (Educational Psychology)

Olson, David L.; Shi, Yong

Introduction to Business Data Mining; New York, N.Y., McGraw-Hill/Irwin, 2006. (Management)

Rack, Frank R.; Rothwell, R. Guy; Ribes, Alfonso; Tsintzouras, George; Damaskinos, Savas; Dixon, A.E.; Freifeld, Barry; Kneafsey, T.J.; Chen, Q.; Balcom, Bruce

New Techniques in Sediment Core Analysis; London, U.K., Geological Society Publishing House, 2006. (Geosciences)

Rader, Benjamin G.

American Ways: A History of American Cultures, 2nd Ed.; Belmont, Calif.; Thomson Wadsworth, 2006. (History)

Raikes, Helen H.; Whitmer, Jane M.

Beautiful Beginnings: A Developmental Curriculum for Infants and Toddlers.; Baltimore, Md., Brookes Publishing Company, 2006. (Family & Consumer Sciences)

Ratcliffe, Brett C.; Cave, Ronald D.

The Dynastine Scarabs of Honduras, Nicaragua, and El Salvador (Coleoptera: Scarabaeidae); Lincoln, Neb., University of Nebraska State Museum, 2006. (Museum, Entomology)

Reid, Robert; Lienemann, Torri

Strategy Instruction for Students with Learning Disabilities; New York, N.Y., Guilford, 2006. (Special Education & Communication Disorders)

Ritchie, Joy S.; Ronald, Kate

Teaching Rhetorica: Theory, Pedagogy, Practice; Portsmouth, N.H., Boynton/Heineman, 2006. (English)

Ruser, Kevin; Lubken, Deanna

Nebraska Chapter 7 Consumer Bankruptcy Manual; Lincoln, Neb., Law College Education Services, 2006. (Law)

Sayood, Khalid

Introduction to Data Compression 3rd Ed.; New York, N.Y., Elsevier, 2006. (Electrical Engineering)

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

Outsourcing Management Information Systems; Hershey, Pa., Idea Group Publishing, 2006. (Management)

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, 2006. (History)

Sellmyer, David J.; Skomski, Ralph, eds.

Advanced Magnetic Nanostructures; Berlin, Germany, Springer, 2006. (Physics & Astronomy)

Sellmyer, David J.; Liu, Yi; Shindo, D., eds.

Handbook of Advanced Magnetic Materials; Berlin, Germany, Springer, 2006. (Physics & Astronomy)

Siau, Keng L., ed.

Advanced Topics in Database Research Vol. 5; Hershey, Pa., Idea Group Publishing, 2006. (Management)

Spencer, Nicholas

After Utopia: The Rise of Critical Space in Twentieth Century American Fiction; Lincoln, Neb., University of Nebraska Press, 2006. (English)

Steinweis, Alan E.

Studying the Jew: Scholarly Antisemitism in Nazi Germany; Cambridge, Mass., Harvard University Press, 2006. (History)

Steinweis, Alan E.; Gassert, Philipp, eds.

Coping with the Nazi Past: West German Debates About Nazism and Generational Conflict, 1955-1975; New York, N.Y., Berghahn Books, 2006. (History)

Taylor, Stephen L., ed.

Advances in Food and Nutrition Research, Volume 51; San Diego, Calif., Academic Press, 2006. (Food Science & Technology)

Woody, Robert H.; Lehmann, Andreas C.; Sloboda, John A.

Psychology for Musicians: Understanding and Acquiring the Skills; New York, N.Y., Oxford University Press, 2006. (School of Music)

Zellmer, Sandra B.; Laitos, Jan; Wood, Mary; Cole, Daniel

Natural Resources Law; St. Paul, Minn., Thomson/West, 2006. (Law)

2006 RECOGNITIONS AND HONORS

Faculty who have been elected to or who have received national or international honors

Plant Pathology (Emeritus)

National Academy of Science Membership

Kooser. Ted

Braake, Myron

English 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

Plant Pathology

Van Etten, James National Academy of Science Membership

Family & Consumer Sciences Abbott, Douglas A. Fulbright Scholar, U.S. Fulbright Foundation

Nutrition & Health Sciences Albrecht, Julie President's Volunteer Service Award, President's Council on Service and Civic Participation

Anderson, John

Economics

Contributor to the Economic Report of the President, President's Council of Economic Advisers

Archer, J. Clark Lavin, Stephen J.

Anthropology & Geography Anthropology & Geography

Best Single Volume Reference in Humanities and Social Sciences for 2006 for the Historical Atlas of U.S. Presidential Elections 1788-2004, CQ Press

Banerjee, Ruma

Biochemistry

School of Music

Vice-Chair, Gordon Research Conference, Thiol-based Redox Regulation and Signaling

Barnes. Paul E.

Best Performance Production for the world premier television production of Phillip Glass Piano Concerto No. 2 (After Lewis and Clark), National Educational Telecommunications Association

Behrendt, Stephen C.

Braithwaite, Dawn O.

Enalish

Senior Fellowship, American Council of Learned Societies

Bevins, Rick A.

Psychology

Fellow, American Psychological Association

Communication Studies

Brommel Award for Family Communication Scholarship, National Communication Association

Brvant. Miles

Educational Administration

2006 Outstanding Reviewer Award, Journal of Research in Leadership Education

Carr Jr., Thomas M.

Modern Languages & Literatures

Chevalier, Ordre des Palmes academiques, French government

Cassman. Kenneth G. Aaronomy & Horticulture

2006 Agronomic Research Award, American Society of Agronomy

Coble. Parks M.

History

Andrew Mellon Fellowship for Senior Scholars, Institute for Advanced Study, Princeton

Crawford, Sidnie W. **Classics & Religious Studies**

W.F. Albright Service Award, The American Schools of Oriental Research

Cupp, Andrea S.

Animal Science

2006 New Investigator Award, Society for the Study of Reproduction

Family & Consumer Sciences DeFrain. John D.

Research Scientist, Shanghai Academy of Social Sciences, Peoples Republic of China

Digman. Lester A. Paisitanand. Sineenead Lee. Sang M.

Management Management Management

2006 Best Paper Award, Managing Knowledge Capabilities for Strategy Implementation Effectiveness, 2006 Western Decision Sciences Annual Meeting

Ducey, Mary Ellen	Libraries
Price, Kenneth M.	English
Walter, Katherine L.	Libraries
Barneý, Brett	Libraries
Pytlik Zillig, Brian L.	Libraries
Jewell, Andrew W.	Libraries

C.F.W. Coker Award, Society of American Archivists

Eckhardt, Craig J. **Chemistry, Physics & Astronomy** Fulbright Senior Fellow, U.S. Fulbright Commission

Eversoll. Duane Natural Resource Sciences Fellow, Geological Society of America

Gentry, James Baker, Stacey Rittenberg, Terri

2006 Charles C. Slater Memorial Award for Best Article, Journal of Macromarketing

Gladvshev. Vadim

Chair, Gordon Research Conference, Thiol-based Redox Regulation and Signaling

RECOGNITIONS AND HONORS

Gravbill. Andrew R.

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History

Marketing

Marketing

Marketing

Biochemistry

Vernon Carstensen Award, Agricultural History Society James H. Bradley Fellowship, Montana Historical Society Harveson, Robert M. Plant Pathology Blue Ribbon Award, American Society of Agricultural Engineers

Harvey, F. Edwin Fellow, Geological Society of America

Hayden-Roy, Priscilla A. Modern Languages & Literatures Humboldt Fellowship - Continuation Grant, Alexander von Humboldt Foundation

Hefle, Susan L. Special Achievement, Food Allergy and Anaphylaxis Network

Food Science & Technology

Natural Resource Sciences

Dr. Hefle died in August of 2006.

Natural Resource Sciences Hoagland, Kyle D. President-Elect, National Institutes for Water Resources

Housh, Terry **Nutrition & Health Sciences** Educator of the Year, National Strength and Conditioning Association

Hov. Roger M. **Biological Systems Engineering** President's Leadership Citation, American Society of Agricultural and Biological Engineering

Hudgins, Jerry L.

William M. Portnoy Award, Institute of Electrical and Electronics Engineers Industry Applications Society

Jacobs, Margaret D. History Arrell Morgan Gibson Prize, Western History Association

Joekel, Ronald G.

Educational Administration

Electrical Engineering

International Exemplary Leader, International Chair Academy Phi Delta Kappa International; 20th Century Exemplary Leader, Phi Delta Kappa International

Koelsch, Richard K.

Biological Systems Engineering, **Animal Science**

Presidential Citation, American Society of Agricultural and Biological Engineering Blue Ribbon Award, American Society of Agricultural and Biological Engineering

Kunc. Karen

Art & Art History Printmaker Emeritus Award, The Southern Graphics Council

Levin. Carole

NEH Fellowship at the Folger Shakespeare Library, National Endowment for the Humanities

Lvons. William H.

law

History

Regent, American College of Tax Counsel Managing Editor, The Tax Lawyer

Agricultural Research Division, Entomology Mavo. ZB

Honorary Member, Entomological Society of America

Moeller. Aleidine Teaching, Learning & Teacher Education

Florence Steiner Award for Leadership in Foreign Language Education, American Council for the Teaching of Foreign Languages

Niemever, Shirlev

Textiles. Clothing & Design

Distinguished Service Award, Housing Education and Research Association

Nierman, Glenn E.

School of Music

Elected President of North Central MENC and Member of the MENC National Executive Board, MENC--The National Association for Music Education

Olson, David L.

Management

Best Enterprise Information Systems Educator Award, International Federation of Information Processing TC8 International Conference on Research and Practical Issues of Enterprise Information Systems

Patterson, Dean J. **Electrical Engineering**

Fellow, Institute of Electrical and Electronics Engineers

Prochaska-Cue, M. Kathleen Family & Consumer Sciences

President's Volunteer Service Award, President's Council on Service and Civic Participation

Ragsdale, Stephen W.

Biochemistry

Paper of the Week, Journal of Biological Chemistry Elected Member, American Academy of Microbiology, American Society of Microbiology

Rajurkar, Kamlakar Industrial & Management Systems Engineering

Charles F. Carter Jr. Advancing Manufacturing Award, Association of Manufacturing Technology

Ratcliffe, Brett C.

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Museum, Entomology

Outstanding Paper of the Year Award, Coleopterists Society

Schneiderjans, Marc J.

Management

Fellow, Institute of Decision Sciences

Electrical Engineering

Schubert, Mathias M. Chair, International Conference Series on Low Energy ElectroDynamics in Solids Ludwig-Genzel-Award, International Conference series on Low **Energy Electrodynamics in Solids**

Shepard, Neil T. Special Education & Communication Disorders

Honors of the Association, American Speech-Language-Hearing Association

Siau, Keng L.

Management

Ranked as one of the top e-commerce researchers, Business Research Yearbook, Vol. 13 Outstanding Service Award, International Federation for Information Processing Faculty Award, IBM

Smith. Victoria

History. Ethnic Studies

Book Award for No One Ever Asked Me: The World War II Memories of an Omaha Indian Soldier, Army Historical Foundation

Soukup, Rodney J.

Electrical Engineering

Elected to the Administrative Committee, Institute of Electrical and Electronic Engineers Education Society

Souto, Francisco

Art & Art History

International Award, 6th British International Print Exhibition, Gracefield Arts Centre, United Kingdom Selected Prize, 12th International Biennial Print and Drawing Exhibition, R.O.C. National Taiwan Museum of Fine Arts Honorable Mention, 7eme Mondial de L'Estampe et de la Gravure Originale Triennale de Chamalieres, France Ex aeguo Prize, 5-a Bienala Internationala de Grafica Mica, Cluj, Romania

Steinweis, Alan E. History

Finalist, National Jewish Book Awards, Jewish Book Council

Stump, Jordan M. Modern Languages & Literatures Chevalier de l'Ordre des Arts et des Lettres, the French government

Textiles, Clothing & Design Trout, Barbara Honorable Mention, Handweavers Guild of America

Van Vleck, L. Dale Animal Science Distinguished Achievement in Agriculture Award, International Gamma Sigma Delta

Verma. Shashi B. Natural Resource Sciences Award for Outstanding Achievement in Biometeorology, American Meteorological Society

Vigna, Diane Textiles, Clothing & Design Achievement in Service Award, National Association of Extension 4-H Agents

Wang, Lijun

Biological Systems Engineering

Superior Paper Award, American Society of Agricultural and Biological Engineering

Weller, Curtis L.

Biological Systems Engineering

Superior Paper Award, American Society of Agricultural and Biological Engineering

White, Tyler G.

School of Music Honorable Mention, Rudolf Nissim Prize Competition, ASCAP Foundation

Winkle, Kenneth J. Distinguished Lecturer, 2005-08, Organization of American Historians Distinguished Book Award for <i>Atlas of the Civil War</i> , Society Military History	History for
Woollam, John A. Electrical Engi Fellow, American Vacuum Society Fellow, American Vacuum Society	neering
Center for Digital Research in the Humanities Invited to display information about the <i>Journals of Lewis an</i> <i>Clark Expedition Online</i> and the <i>Walt Whitman Archive for</i> <i>Humanities Advocacy Day</i> , National Humanities Alliance	English nd
Zellmer, Sandra Senior Specialist, Fulbright Foreign Scholar Member, World Conservation Union Commission on Enviror Law	Law nmental
Ziałaji, Mitalu A	

Chair, U.S. Branch, International Society for Labor and Social

Zlotnik, Vitaly A. Fellow, Geological Society of America

Willborn, Steven L.

Security Law

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Geosciences

Law

Glossary of Federal Agency Abbreviations

- USAID United States Agency for International Development
- CNS **Corporation for National Service**

USDA	United S	tates Department of Agriculture
	ARS	Agricultural Research Service
	BRDC	Biotechnology Research and Development
		Corporation
	CSREES	Cooperative State Research, Education
		& Extension Service
	ERS	Extension Research Service
	FAS	Foreign Agriculture Service
	FS	Forestry Service
	NRCS	Natural Resources Conservation Service
	NRICGP	National Research Initiative Competitive
		Grant Program
	RMA	Risk Management Agency
	SARE	Sustainable Agricultural Research

and Education Program DOC Department of Commerce

EDA Economic Development Administration NOAA National Oceanic & Atmospheric Administration

- DOD Department of Defense Army Corps of Engineers Army Research Office DEPSCoR Defense Experimental Program to Stimulate Cooperative Research Naval Research Laboratory Office of Naval Research U.S. Army Medical Research Acquisition Activity
- DEd Department of Education FIPSE Fund for the Improvement of Postsecondary Education GAANN Graduate Assistance in Areas of National Need

DOE Department of Energy EPSCoR Experimental Program to Stimulate Cooperative Research NIGEC National Inst for Global Environmental Change Sandia National Laboratories

DHHS	ACF Adr CDC Cer	of Health and Human Services ninistration for Children and Families iters for Disease Control tional Institutes of Health Fogarty International Center National Cancer Institute National Center for Research Resources National Eye Institute National Heart, Lung and Blood Institute National Institute on Aging National Institute on Allergy & Infectious Diseases National Institute of Child Health and Human Development National Institute on Deafness & Communication Disorders National Institute of Diabetes, Digestive & Kidney Disease National Institute on Drug Abuse National Institute on General Medical Sciences National Institute of Mental Health	
HUD	Department	of Housing and Urban Development	
Dol	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 N	Auseum & 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 End	lowment for the Humanities	
NSF	EPSCoR Exp	ence Foundation erimental Program to nulate Cooperative Research	
NSA	National Sec	urity Agency	

GLOSSARY

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