

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!

Frem 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 6/25/04 - 6/24/09



David Allen, dean of the College of Engineering and professor of engineering mechanics, with funding from the Army Research Laboratory-Weapons and Materials Research Directorate, directs a collaborative effort focused on development of new materials and technologies relevant to blast

mitigation and weapons detection. The program includes 24 UNL faculty from six different departments—civil engineering, structural engineering, chemical and biomolecular engineering, electrical engineering, engineering mechanics and mechanical engineering—working on 15 multidisciplinary projects. The projects have the common objective of providing new materials and technologies for blast mitigation, mine detection and pathogen detection.

#### Banerjee, Ruma

Biochemistry

Redox Biology Center \$10.190.697

DHHS-NIH-NCRR



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

\* Nebraska Center for Energy Sciences

\$5,000,000 Paul, Prem 4/1/06 - 3/31/2011 Nebraska Public Power District Vice Chancellor for Research and Dean of Graduate Studies ssman directs the Nebraska



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**

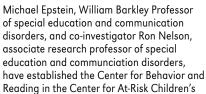
### **Special Education and Communication Disorders**

Dept. of Education

Center for Behavior and Reading

\$4,498,231

10/1/01 - 9/30/07



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

9/1/02 - 8/31/07



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



Stephen Goddard



Donald Wilhite

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 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** 

North Central Risk Management Education Center \$3,600,000 Dept. of Agriculture-CSREES 9/15/04 - 9/14/08



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

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

**Mathematics** 



Jim Lewis, professor of mathematics; Ruth Heaton, associate professor of teaching, learning and teacher education; Tom McGowan, professor of teaching, learning and teacher education; and Barbara Jacobson, curriculum director for Lincoln Public Schools, are co-leaders of a \$5 million

project titled the Math in the Middle Institute Partnership. The goal is to create the next set of leaders in middle school mathematics who will mentor peers and offer challenging courses to their students. During the five years of the project, about 120 teachers will participate in three in-residence summer sessions, four non-resident academic semesters and 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
\$10,627,000 DOD-Army Medical Research
3/1/02 - 2/10/07



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

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

Fast-Track Production of a Heptavalent Botulinum Vaccine \$6,799,173 DynPort Vaccine Company 9/1/03 – 2/28/08

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

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

## **Center for Materials Research**

NSF

Materials Research Science & Engineering Center; Nanomagnetic Structures

\$5,491,000 9/1/02 - 8/31/08

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

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

#### Sheridan, Susan

#### **Educational Psychology**

Parent Engagement and Learning Birth to Five

\$5,087,110 Edwards, Carolyn 9/26/03 – 9/30/08 DHHS-NIH-NICHD Psychology



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

The team will launch and evaluate a comprehensive, community-based early education program for children aged 0-5. The goal is to increase children's readiness for school by teaching parents to build an effective relationship with their children at home and to be active participants in their children's learning when they enter school. The program is designed to enhance children's cognitive, behavioral and socioemotional well-being, which together set the stage for school readiness.

#### Tomkins, Alan

#### **Public Policy Center**

Community-Based & Faith-Based Organization Partners in an Integrated System of Behavioral Health Care in Nebraska \$3,504,226 DHHS-Admin for Children & Families 9/30/02 – 3/31/06



Alan Tomkins, director of the Public Policy Center and professor of psychology and law, is leading a project funded by the U.S. Department of Health and Human Services. The goal is to enhance and expand the capacity of community- and faith-based organizations to provide high-quality services

as part of an integrated system of behavioral health care to rural and urban communities. Among the hoped-for outcomes is to address the problem of insufficient resources by tapping into the extensive network of community- and faith-based organizations who offer behavioral health care services. The project will be a model for other states to emulate in coordinating and integrating these groups into an effective delivery system.

## Velander, William

# **Chemical and Biomolecular Engineering**

cGMP Recombinant FIX and Oral Hemophilia B Therapy
\$9,794,346 DHHS-NIH-NHLBI
Meagher, Michael Chemical and Biomolecular Engineering
Van Cott, Kevin 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 DOD-Army Medical Research
Meagher, Michael
Van Cott, Kevin
Inan, Mehmet
8/1/05 - 10/31/08
DOD-Army Medical Research
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 DHHS-NIH-NIMH Hoyt, Dan Sociology

7/1/02 - 6/30/07

Ojibwe Pathways Through the High School Years

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



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

## Biological Sciences

**DHHS-NIH-NCRR** 

Nebraska Center for Virology

\$10,354,057 9/26/05 - 4/30/10



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

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

Kaposi's Sarcoma & Human Herpesvirus in Africa

\$3,036,741 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

IANR-Intl Programs

International Sorghum/Millet Collaborative Research Support Program (INTSORMIL)

\$36,990,000 7/1/96 - 6/30/06 \$9,000,000 \* 9/30/06 - 9/29/11



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

U.S. Agency for International Development

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

* Indicates new in 2006	
Banerjee, Ruma	Biochemistry
Cystathionine Beta Synthase & Hyperh \$1,177,264	omocysteinemia DHHS-NIH-NHLBI
Mechanism of Methylmalonyl-CoAMutas \$1,023,449	e: A Radical Enzyme DHHS-NIH-NIDDK
Regulation of Homocysteine-dependent I	Redox Homeostasis
\$1,531,581	DHHS-NIH-NIDDK
Demodel Leading	
Barycki, Joseph  * Structural Insights into Redox H	<b>Biochemistry</b> omeostasis
* Structural Insights into Redox H \$1,093,775	•

#### Caldwell, Robert School of Natural Resources

Thematic Soil Mapping for Site-Specific Management

\$1.025.000 Dept. of Agriculture-IFAFS Dobermann, Achim Agronomy and Horticulture Adamchuk, Viacheslav **Biological Systems Engineering** Ferguson, Richard Agronomy and Horticulture

#### Cerutti, Heriberto **Plant Science Initiative**

RNA-Mediated Silencing: Mechanisms and Biological Roles in Chlamydomonas

\$1,042,852 DHHS-NIH-NIGMS

#### School of Engineering Technology Chen, Bing

SPIRIT: Silicon Prairie Initiative on Robotics in IT \$1,170,488 NSF

#### 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

#### University of Nebraska State Museum Diamond, Judy

**Explore Evolution** 

\$2,851,409 NSF

#### Doll, Elizabeth **Educational Psychology**

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

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

Dzenis, Yuris NIRT: Manu	Engineering Mechanics  Ifacturing of Novel Continuous	Goddard, Stephen Climate &	Computer Science and Engineering Soil Risk Information System
	stalline Ceramic Nanofibers	\$1,212,056	Dept. of Agriculture-RMA
\$1,095,200	NSF	Wilhite, Donald	School of Natural Resources
Zeng, Xiao Cheng	Chemistry	Hubbard, Kenneth	School of Natural Resources
Feng, Ruqiang	Engineering Mechanics	Trabbara, Reimietti	ochool of Mataral Moodal oco
Turner, Joseph	Engineering Mechanics	Green, Jordan	Special Education and
Larsen, Gustavo	Chemical and Biomolecular Engineering	a. 55, jo. aa	Communication Disorders
zaroon, Gaotaro	enemies and biometers and inginioning	Farly Sp	eech Motor Development
Eccarius, Malinda	Special Education and	\$1,779,288	DHHS-NIH-NIDCD
20041120)	Communication Disorders	<i>ψ 1,7 7 3)200</i>	511101111111505
Mountain	-Prairie Upgrade Partnership	Hoagland, Kyle	School of Natural Resources
\$1,155,054	Dept. of Education	DNR Grou	nd Water Management and
Espy, Kimberly	Associate Vice Chancellor for Research and Graduate Studies	\$1,500,000	on Act Service Agreement Dept. of Natural Resources
	Exposure: Perinatal and Genetic Risks	Hubbard, Kenneth	School of Natural Resources
\$1,242,130 Wiebe, Sandra	DHHS-NIH-NIDA Office of Research	\$2,065,032	NOAA Regional Climate Centers  Dept. of Commerce-NOAA
Faller, Ronald	Civil Engineering	Jones, Vicky	Northeast Research & Extension Center
•	Field Installation of Steel Tube &		ka Paraprofessional Ladder Project
	rgy Reduction (SAFER) Barrier	\$1,976,095	Dept. of Education
\$1,045,913	Indianapolis Racing League	. , ,	Teaching, Learning and Teacher Education
Holloway, Jim	Civil Engineering	,	3, 3
Reid, John	Mechanical Engineering	Josiah, Scott	NE State Forest Service
Rohde, John	Civil Engineering		rative Forestry Program
Sicking, Dean	Civil Engineering	\$1,342,785	Dept. of Agriculture-FS
Farrell, Michael	University Television	Kamil, Alan	Biological Sciences
	Y: Engaging Antarctica		s, Bearings and Way-Finding
\$1,168,014	NSF	\$1,338,934	DHHS-NIH-NIMH
Diamond, Judy	University of Nebraska State Museum		of Visual Search and Attention
F	Machania I Pania anina	\$1,029,062	DHHS-NIH-NIMH
Farritor, Shane Track Stability	Mechanical Engineering Assessment & Data Transmission	Bond, Alan	Biological Sciences
\$1,681,506	Dept. of Transportation-FRA	Koszewski, Wanda	Nutrition and Health Sciences
Turner, Joseph	Engineering Mechanics	Build	ing Nebraska Families
Nelson, Carl	Mechanical Engineering	\$2,226,983	Ne Dept. of Health & Human Serv
Jones, Elizabeth	Civil Engineering	Birnstihl, Elizabeth	IANR-Cooperative Ext
Khattak, Aemal	Civil Engineering	Schnepf, Marilynn	Nutrition and Health Sciences
Sharif, Hamid	School of Engineering Technology	Nutri	tion Education Program
Rilett, Laurence	Civil Engineering	\$1,280,914 Birnstihl, Elizabeth	Ne Dept. of Health & Human Serv IANR Cooperative Extension
Gladyshev, Vadim	Biochemistry	Schnepf, Marilynn	Nutritional and Health Sciences
\$1,181,148	ammalian Thioredoxin Reductases DHHS-NIH-NIGMS	Leslie-Pelecky, Diandra	Physics and Astronomy
	as a Target for Cancer Prevention		FILCRUM-Building Partnerships
\$1,356,161	DHHS-NIH-NCI	\$1,572,817	NSF
	xide Reduction, Selenium and Aging	Dussault, Patrick	Chemistry
\$1,256,826	DHHS-NIH-NIA	Kirby, Roger	Physics and Astronomy
	unctions of Selenoprotein Genes	Track 2 GK	-12: Project Fulcrum: Phase II
\$1,138,800	DHHS-NIH-NIGMS	\$1,987,732	NSF
, , , , , , , , , , , , , , , , , , , ,	==	Kirby, Roger	Physics and Astronomy

 Lou, Marjorie **Veterinary and Biomedical Sciences** Snow, Greg Physics and Astronomy Protein-Thiol Mixed Disulfide in Cataractogenesis The Cosmic Ray Observatory Project \$1,721,697 DHHS-NIH-Natl Eye Institute \$1,374,005 NSF Claes, Daniel Physics and Astronomy Lu, Yongfeng **Electrical Engineering** Multi-Laser-Beam Open-Atmosphere Surface **Umstadter. Donald** Physics and Astronomy Coating Techniques Based on Precursor Excitation, \* Research & Development of a High-Power-Laser-Driven Photodissociation and Controlled Cooling **Electron Accelerator Suitable for Applications** \$2,999,970 DOD-Office of Naval Research-MURI \$1,250,029 DOD-DARPA Wang, Xinwei Mechanical Engineering Banerjee, Sudeep Physics and Astronomy Meagher, Michael **Chemical and Biomolecular Engineering** Van Etten, James **Plant Pathology** Process Research and Development of Antibodies as DNA Replication & Gene Expression of Chlorella Viruses Countermeasures for C. Botulinum Neurotoxin \$1,233,472 **DHHS-NIH-NIGMS** \$2,877,000 DOD-Army Space and Missile Defense Command Dunigan, David Plant Pathology Therapeutic Agents & Vaccines against Biological Warfare Kang, Ming Plant Pathology \$2,905,899 Zhang, Yuanzhena DOD-Army Medical Research Plant Pathology Plant Pathology Schlegel, Vicki Food Science and Technology Agarkova, Irina Zhang, Wenhui Chemical and Biomolecular Engineering Gurnon, James Plant Pathology Wu, Joey Chemical and Biomolecular Engineering \* Purification of proPRT-201 and Production of Reference Standard Verma. Shashi School of Natural Resources \$1,126,678 **Proteon Therapeutics** Great Plains Regional Center for Global Environmental Change \$2,214,769 Dept. of Energy/NIGEC Nelson, J. Ron **Special Education and** Carbon Sequestration in Agriculture **Communication Disorders** \$1,139,462 Kansas State University Portales a Aprender Leer (PAL) Knops, Johannes **Biological Sciences** \$2,687,442 Dept. of Education Arkebauer, Timothy Agronomy and Horticulture Carbon Sequestatrian in Dryland & Irrigated Agroecosystems Parkhurst, Lawrence Chemistry \$1,250,000 Dept. of Energy Assembly Mechanisms of TBP-Nucleated Complexes Cassman, Kenneth Agronomy and Horticulture DHHS-NIH-NIGMS Knops, Johannes **Biological Sciences** \$1,115,504 Hubbard, Kenneth School of Natural Resources **Electrical Engineering** Perez, Lance Arkebauer, Timothy Agronomy and Horticulture \* Strengthening Transitions into Engineering Program Dobermann, Achim Agronomy and Horticulture \$1,648,354 NSF Yang, Haishun Agronomy and Horticulture Ballard, John Engineering Walters, Daniel Agronomy and Horticulture Suyker, Andrew School of Natural Resources Ragsdale, Stephen **Biochemistry** Ginting, Daniel Agronomy and Horticulture Enzymology of Reductive Acetyl-CoA Pathway DHHS-NIH-NIGMS Viljoen, Hendrik **Chemical and Biomolecular Engineering** \$1,235,700 \* A Rational Design of a Platform for de novo Gene Synthesis Robertson Jr., Vaughn **Student Affairs** \$1.369.548 DHHS-NIH-NCRR \* UNL Educational Talent Search Chemical and Biomolecular Engineering Subramanian, Anu \$2,042,795 Dept. of Education **Mathematics** Walker, Judy Center on Children, Youth, Sheridan, Susan EMSW21-MCTP: Nebraska Mentoring **Families and Schools** through Critical Transition Points Evaluation of Efficacy of CBC for Addressing Disruptive \$2,500,000 NSF Behaviors of Children-at-Risk for Academic Failure Marley, Tom Mathematics \$1,368,067 Dept. of Education Wedin, David Center on Children, Youth, Families and Schools School of Natural Resources Glover, Todd Sand Hills Biocomplexity: Integrating Simpson. Melanie Biochemistry Biogeophysical Processes Across Space and Time Role of Hyaluronan Matrix in Prostate Cancer Progression \$1,794,730 NSF \$1.074.629 DHHS-NIH-Nat Cancer Institute Loope, David Geosciences

17

**Biochemistry** Weeks, Donald Awards of \$200,000 - \$999,999 Development of Dicamba-Resistant Crops \$2,500,000 Monsanto Co. \* Indicates new in 2006 Whitbeck, Les Sociology Admiraal, David **Civil Engineering** Great Plains Cultural Ways Mental Health Careers Program Low-Cost Energy Dissipation at Culvert Exits \$1.514.284 DHHS-NIH-NIMH \$201,856 Ne Dept. of Roads Moore, Helen Sociology Albrecht, Julie **Nutrition and Health Sciences** Sociology White. Lynn **Entrepreneurial Center Development for** Infertility: Pathways & Psychosocial Outcomes Food & Textile Small Scale Business in Tajikistan \$2,559,414 DHHS-NIH-NICHD \$256,000 Dept. of State-BECA McQuillan, Julia Sociology Family and Consumer Sciences Prochaska-Cue, Kathy Wilcke, William IANR-Research Alfano, James **Plant Pathology** North Central Regional Sustainable Agriculture Isolation & Characterization of Pseudomonas Type III Effectors Research & Education Program - SARE that Suppress Programmed Cell Death in Eukaryotes \$2,707,719 Dept. of Agriculture-CSREES \$375,000 NSF Wilcox, Brian Center on Children, Families and the Law Alexander, Dennis **Electrical Engineering** Midwest Child Care Research Consortium \* Ultrafast Laser Interaction Processes \$1,200,000 **DHHS-Admin for Child & Families** for Libs & Other Sensing Technologies Torquati, Julia Family and Consumer Sciences \$600.000 University of Central Florida Wilhite, Donald School of Natural Resources Alfano, lames Plant Science Initiative/Plant Pathology Rangeland and Forage Geospatial Decision \* Secretion Signals & Type III Chaperones in Support System for Drought Risk Management Pseudomonas Syringae Type III Secretion System Dept. of Agriculture-RMA \$1,023,038 \$430.000 NSF \* Suppression of Innate Immunity by **Wood, Charles Biological Sciences** ADP Ribosyltransferase Type III Effectors Programs in HIV & AIDS Assoc Diseases/Malignancies \$360,106 DHHS-NIH-NIAID DHHS-NIH-Fogarty Intl Center \$2,130,669 Evolution of Clade C HIV-1 in Infected Children Allen, Craig School of Natural Resources \$1,586,250 DHHS-NIH-NICHD \* Monitoring, Mapping & Risk Assessment for Research Training in Comparative Viral Pathogenesis Non-Indigenous Invasive Species in Nebraska **DHHS-NIH-NIAID** \$325,081 Nebraska Environmental Trust Vaccination against Intrapartum HIV Clade C Transmission Merchant, James School of Natural Resources \$959,278 Dana-Farber Cancer Institute \* Cross-Scale Structure & Scale Breaks in Complex Systems \$248,986 James S. McDonnell Foundation Yamamoto, Catherine **Student Affairs** . Upward Bound Program-Northeast Nebraska **Engineering Mechanics** Allen. David Dept. of Education \$1,338,496 \* U.S.-Brazil Dual-Degree in Infrastructure & Student Support Services Program Sustainability Engineering Program Dept. of Education \$1,889,008 \$208,211 Dept. of Education-FIPSE Inter-University Program for Human Resources Training in **Nutrition and Health Sciences** Zempleni, Janos **Computational Mechanics** Vitamin-Dependent Modifications of Histones \$203,904 Dept. of Education-FIPSE \$1,000,877 DHHS-NIH-NIDDK Geosciences Anderson, Mark Zhang, Luwen Center for Virology \* Atmospheric Conditions Associated with Sea Ice \* Oncogenic Properties of Interferon Regulatory Factor 7 Characteristics over Arctic Ocean during Melt Season \$1,145,961 DHHS-NIH-Nat Cancer Institute \$208.699 NASA **Biochemistry** Asard, Han

\$1 MILLION - \$2,999,999 \$200,000 - \$999,999

18

\$386.084

Physiological Functions & Biochemical Properties of Plant Cytochromes b561

NSF

Atkin, Audrey	Biological Sciences	Basolo, Alexandra	Biological Sciences
	e PPR1 mRNA Decay by		y in Preexisting Receiver Bias
	Mediated mRNA Decay Pathway	\$366,000	NSI
\$403,219	NSF		Selection & Prediation on a
Moriyama, Etsuko	Plant Science Initiative		norphism for Body Size
Avramov Luchozar	Mathematics	\$519,721	NS
Avramov, Luchezar		Batelaan, Herman	Physics and Astronomy
\$356,322	mology over Commutative Rings NSF		with Intense Laser Light
\$330,322	INJI	\$424,997	NSI
Avramova, Zoya	Biological Sciences	Ψ+2+,337	1431
	Regulator of Plant Development	Becker, Donald	Biochemistry
\$442,500	NSF		y of the Novel PutA Flavoprotein
+ · · =/- · ·		\$785,540	DHHS-NIH-NIGM:
Azizinamini, Atorod	Civil Engineering		man XL-I Analytical Ultracentrifuge
	Continuous for Live Load System	\$284,160	NSI
with Partial F	re-Fabricated Deck System		
\$242,038	Ne Dept. of Roads	Belli, Robert	Gallup Research Cente
	ign Tools for Steel Bridge Systems,		omputerized Lifecourse Surveys
	ead Loads & Continuous for	\$414,430	DHHS-NIH-Nat Inst Aging
	ed Dead Load & Live Loads	Delleve Leurie	Oraduata Otudia
\$226,306	Ne Dept. of Roads	Bellows, Laurie	Graduate Studies
	onitoring of N-2 over I-480 Bridge		ccalaureate Achievement Program
\$292,244	Ne Dept. of Roads RC 2002 Project	\$960,172	Dept. of Education
\$240,000	Ne Dept. of Roads	Belot, John	Chemistry
\$240,000	Ne Dept. of Rodds		ctors Affecting Metal-Organic
Baenziger, P. Stephen	Agronomy and Horticulture		r Deposition Precursors
	at with Improved Fusarium Head Blight	\$365,000	NSI
	tional and Transgenic Approaches	<b>4000)000</b>	
\$260,603	Dept. of Agriculture-ARS	Benson, Andrew	Food Science and Technology
Mitra, Amit	Plant Pathology		nsequences of Genome
Watkins, John	Plant Pathology		steria Monocytogenes
Clemente, Thomas	Agronomy and Horticulture	\$261,515	Dept. of Agriculture-NRICGI
	anhandle Research and Extension Center		ıncisella Tularensis Populations
	asis of Agronomic Traits	\$391,459	DHHS-NIH-NIAID
	Chromosome 3A in Wheat	Destruite Desid	01
\$390,000	Dept. of Agriculture-NRICGP	Berkowitz, David	Chemistry
Eskridge, Kent	Statistics		talyst Screening & Development
Dweikat, Ismail	Agronomy and Horticulture	\$423,000	NSI
Balkir, Sina	Electrical Engineering		hionine Beta-Synthase Inhibitors
	Wireless Sensor Network for	\$214,500	American Heart Association
	Proliferation Detection	Beukelman, David	Special Education and
\$417,191	Dept. of Energy	Journally June	Communication Disorders
Hoffman, Michael	Electrical Engineering	Rehabilitation	Engineering Research
, , , , , , , , , , , , , , , , , , , ,	3 3		nunication Enhancement
Barletta, Raul	Veterinary and Biomedical Sciences	\$379,992	Duke University Medical Cente
Molecular Analysis o	f Mycobacterium Paratuberculosis		,
Colony-Morp	hology Attenuated Mutant	Bevins, Rick	Psychology
\$270,000	Dept. of Agriculture-NRICGP		ive Properties of Nicotine
		\$902,065	DHHS-NIH-NID <i>i</i>
Barker, Bradley	Center on Children, Youth, Families	Dillocheck Bouid	Dialogical Customs Fusing suits
+ D   0 000/010: :	and Schools/4-H State Office	Billesbach, David	Biological Systems Engineering
	H: Workplace Skills for the 21st Century		esting of a Rapidly Deployable
\$864,139	NSF		Flux Management System
Adamchuk, Viacheslav	Center on Children, Youth, Families and Schools/Biol Syst Enar	\$443,594	Dept. of Energy-Berkeley Nat Lak
	una schools/ biol syst enar		

\$200,000 - \$999,999 \$200,000 - \$999,999

Blum, Paul Gene Silencing & (	Biological Sciences Catabolite Repression in the	Cantrell, Randolph * Relocation to the Buf	Center for Applied Rural Innovation falo Commons: Marketing Approach to
	ulfolobus Solfataricus		dential Decisions among Migrants
\$413,380	NSF	\$220,387	Dept. of Agriculture-NRICGP
Dalaana Plania	Fundamenta Mankanta	Burkhart-Kriesel, Cheryl	Panhandle Research
Bobaru, Florin	Engineering Mechanics	Johnson Bruss	and Extension Center
	ynamics for Composite Plates Energy-Sandia National Laboratories	Johnson, Bruce	Agricultural Economics
\$203,303 Dept. 01	Energy Sundia National Eaboratories	Carlo, Gustavo	Psychology
Bond, Alan	Biological Sciences	Parenting & Sociocogi	nitive Correlates of Prosocial Behaviors
	ns of Social Cognition		can & European American Children
\$540,260	DHHS-NIH-NIMH	\$339,283	NSF
Kamil, Alan	Biological Sciences y: Experimental Tests of	Carr, Timothy	<b>Nutrition and Health Sciences</b>
	Predator-Prey Systems		hancing the Cholesterol-Lowering
\$461,000	NSF		Flant Sterol & Stanol Esters
Kamil, Alan	Biological Sciences	\$500,000	Beef Products Inc
Brand, Jennifer	Center for Materials Research	Cerutti, Heriberto Bio	ological Sciences/Plant Science Initiative
	le Semiconductor Films		encing in Chlamydomonas & Arabidopsis
\$347,826	DOD-Battelle	\$400,000	NSF
	arth Semiconductors for		odifications & Transcriptional
	Neutron Detectors		ing in Chlamydomonas
\$450,000 E Belashchenko, Kirill	OOD-Defense Threat Reduction Agency Physics and Astronomy	\$448,235	NSF
Dowben, Peter	Physics and Astronomy	Chollet, Raymond	Biochemistry
,			chemical Investigations of PEPC
Buckendahl, Chad	Educational Psychology		thr-Kinase) and SuSy (Nodulin-100),
	'Assist Oklahoma Commission		ted Metabolic Enzymes in Plants
\$367,160	cher Preparation Oklahoma Office of Public Affairs	\$749,024	NSF
ψοση,1σο	Chanonia Cinico di Fabilio Arrano	Claes, Daniel	Physics and Astronomy
Bulling, Denise	Public Policy Center	Experim	ental High Energy Physics
	aredness — Bioterrorism	\$573,000	NSF
\$250,000 N	e Dept. of Health and Human Services	Snow, Gregory	Physics and Astronomy
Burbach, Mark	School of Natural Resources	Clemente, Thomas	Biotechnology/Plant Science
	ndwater-Level Monitoring Network to		Initiative/Agronomy and Horticulture
	ssessment and Mitigation Programs		terium-Mediated Genetic
\$403,293	Dept. of Agriculture-RMA		ation of Wheat & Soybeans
Ramamurthy, Byrav	Computer Science and Engineering	\$345,537	Dept. of Agriculture-ARS-BRDC Chloroplast: Understanding Plastid
Burson, Dennis	Animal Science		ize by Microarray & Proteome Analysis
	ntrols in Ready to Eat Meat Products	\$389,225	Cornell University
\$599,732	Dept. of Agriculture-CSREES		in Nebraska on Improved
Thippareddi, Harshavardhan	Food Science and Technology	\$491,000	an Oil for Biodiesel Fuel
Cady, Daniel	Cooperative Extension		Dept. of Energy  Il Analysis of Soybean Genes
- •	ogy Transfer Center at UNL		Transposon Mutagenesis
\$377,100	Ne Dept. of Roads	\$328,000	United Soybean Board/Smith/Bucklin
	of Tools for Rating Bridges	Specht, James	Agronomy and Horticulture
& Applicat \$414,421	tion to State Bridges Ne Dept. of Roads	Comfort, Steven	School of Natural Resources
Azizinamini, Atorod	Civil Engineering		strations of Innovative Remediation
,	- · · <del>- · · · · · · · · · · · · · · · ·</del>		r Contaminated Soil and Water
		\$994,100	<b>Environmental Protection Agency</b>

\$200,000 - \$999,999 \$200,000 - \$999,999

Costello, Don	Computer Science and Engineering	Dwyer, Matthew	Computer Science and Engineering
\$500,000	os for Computer Science & Engineering Dept. of Education	\$239,560	Checking for Embedded Systems Kansas State University
φοσομοσο	Bopt. of Education		nalysis Techniques to Support
Daly, Edward	Educational Psychology		dable RTSJ Applications
School Psycho	ology Leadership Specialization in	\$207,519	NSF
	rvention Research & Systems Change	Elbaum, Sebastian	Computer Science and Engineering
\$800,000	Dept. of Education	Goddard, Stephen	Computer Science and Engineering
McCurdy, Merilee	Educational Psychology	Rothermel, Gregg	Computer Science and Engineering
Sheridan, Susan	Educational Psychology		tion for High-Performance Computing
Kunz, Gina	Educational Psychology	\$300,000	NSF
DiMagno, Stephen	Chemistry	Dzenis, Yuris	<b>Engineering Mechanics</b>
· ·	ydrogen for Fuel Cells		nentals of Fabrication of
\$966,000	DOD-Office of Naval Research		Assemblies by Electrospinning
Takacs, James	Chemistry	\$372,000	NSF
Berkowitz, David	Chemistry	Farritor, Shane	Mechanical Engineering
	d Alkane Functionalization Catalysts		uous Carbon Nanofibers for the
\$599,748	DOD-Office of Naval Research		htweight Structural Nanocomposites
Redepenning, Jody	Chemistry	\$258,543	DOD-Air Force Off of Sci Rsch
Dowben, Peter	Center for Materials Research		neration Super Carbon Fiber
	of Adsorbates on Crystalline Polymers	\$317,127 * Nan	Hexcel Corporation oengineered Interfaces
\$690,000	NSF	\$250,002	NSF
¥050,000	1431	. ,	Control of Electrospinning Process
Drummond, Wayne	Architecture	\$275,000	NSF
	nsition: Community Outreach Partnerships	<del>+</del>	
\$388,914	Dept. of Housing & Urban Development	Eccarius, Malinda	Special Education and
Parsons, Gerald	Agricultural Leadership/Education	,	Communication Disorders
Carranza, Miguel	Sociology	Mountain Prairie U	pgrade Partnership - Early Childhood
Cantarero, Rodrigo	Community and Regional Planning	\$781,642	Dept. of Education
Waite, Michelle	Chancellor's Office	Marvin, Chris Special	Education and Communication Disorders
Larrick, Steven	Architecture		
Fritz, Susan	Agricultural Leadership/Education	Eckhardt, Craig	Chemistry
<b>-</b>			vestigation of the Role of Defects in
Du, Liangcheng	Chemistry	the second secon	ensitivity of Energetic Materials
	cotoxin Fumonisins: Characterization of	\$600,000	DOD-Office of Naval Research
	al Diol & Tricarballylic Ester Formation		ochemistry of Carbamazepine Polymorphs
\$284,667	NSF	\$227,200	Pfizer Inc/PGRD Groton Labs
Ducharme, Stephen	Center for Materials and	Elbaum, Sebastian	Computer Science and Engineering
	Nanoscience/Physics and Astronomy		tive Research: A New Generation of
* Nanostructur	re-Designed Dielectric Material for	Scalable, Cost-Effe	ctive Regression Testing Techniques
High-E	Energy-Density Capacitors	\$251,018	NSF
\$586,000	DOD-DEPSCoR	ITR: Depe	endable End-User Software
	olymer Langmuir-Blodgett Films for	\$211,294	NSF
	ndom-Access Memory Applications	Engon Wadin Nans.	Tassbins las
\$240,000	NSF	Engen-Wedin, Nancy	Teaching, Learning and Teacher Education
		Indiagnous Po	ots Teacher Education Program
		\$704,730	Dept. of Education
			Teaching, Learning and Teacher Education
		Wiccowall, Illollias	Todashing, Loarning and Teacher Education

\$200,000 - \$999,999 \$200,000 - \$999,999

24

Epstein, Michael	Special Education and
\$590,854 Postdoctoral Training in \$471,512 Randomized Clinical T	Communication and Disorders Emotional Disturbance Disorders Dept. of Education Emotional & Behavioral Disorders Dept. of Education rial of Wraparound Services for Students in School Settings Dept. of Education
Espy, Kimberly	Vice Chancellor for Research and Graduate Studies
* Executive Function De \$962,343 Wiebe, Sandra	evelopment in Preschool Children DHHS-NIH-NIMH Office of Research
Fabrikant, Ilya Collision Processes I \$215,000	Physics and Astronomy nvolving Low-Energy Electrons NSF
Faller, Ronald	Civil Engineering
	of a New Precast Concrete g System (2006-2008) Ne Dept. of Roads Civil Engineering Mechanical Engineering Civil Engineering
Franco, Juan NU Directions: Progra \$468,000 Major, Linda	Vice Chancellor for Student Affairs m to Reduce High-Risk Drinking Robert Wood Johnson Foundation Student Affairs
Fritz, Sherilyn	Geosciences
\$314,167	aca Drilling Project NSF
Gardner, Scott  Worm-Web: Georeferend Databases in the Ma	School of Biological Sciences sing Computerized Data & Linking nter Laboratory of Parasitology
\$420,107 Hosier, Aaron	NSF Information Services
Gaskell, C. Martin	Physics and Astronomy
Variability of \$435,611	Active Galactic Nuclei NSF
Gay, Timothy	Physics and Astronomy
\$662,002	d Electron Physics NSF

**GAANN** Fellowship for Ecology, Evolution & Behavior at UNL

Gibson, Robert

\$625,000

26

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**Biological Sciences** 

Dept. of Education

Gitelson, Anatoly

School of Natural Resources

\* Land Cover Land Use Change Effects on Surface Water Quality: Integrated MODIS & SeaWiFS Assessment of Dnieper & Don River Basins

\$597,799 NASA

Gladyshev, Vadim

**Biochemistry** 

NSF

27

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

\$253,864 Ne Dept. of Education Daly, Edward Center 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

Goedert, James **Construction Systems** 

\* Rebuilding New Orleans

\$293,660 Dept. of Housing and Urban Development Bernstein, Stuart Construction Systems Holmes, William Construction Systems Morcous, George Construction Systems Schwer, Avery Construction Systems

Goodman, Richard Food Science and Technology

\* Assessing the Potential Allergenicity of Proteins Introduced by Genetic Engineering

\$450,000 **Environmental Protection Agency** Chen, LingYun Food Science and Technology Schlegel, Vicki Food Science and Technology Taylor, Stephen Food Science and Technology

Gosselin, David School of Natural Resources

Earth Science Institute for Elementary Educators

\$233,606 NASA Bonnstetter, Ronald Teaching, Learning and Teacher Education

**Agronomy and Horticulture** Graef, George

> Sclerotinia Resistance Enhanced by Accumulation of QTL Transgenic Approaches

\$301,142 Dept. of Agriculture-ARS Clemente, Thomas Agronomy and Horticulture Plant Pathology Steadman, James

Greve, Vickie Northeast Research and Extension Center

Communities Together Can

\$523,000 Dept. of Agriculture-CSREES Swanson, Douglas Cooperative Extension

\$200.000 - \$999.999 \$200.000 - \$999.999

Hage, David	Chemistry	Hergert, Gary	Panhandle Research and Extension Center
Chromatograph \$959,749	ic Automation of Immunoassays DHHS-NIH-NIGMS		gation Management Tools & Developing upport System for Managing Limited
	ic Studies of Functional Proteomics		on Supplies for the High Plains
\$779,787	DHHS-NIH-NIDDK	\$885,093	Dept. of Agriculture-RMA-FCIC
		Burgener, Paul	Panhandle Research and Extension Center
Harbison, Gerard	Chemistry	Lyon, Drew	Panhandle Research and Extension Center
	Dynamics of DNA Hairpins DHHS-NIH-NIGMS	Martin, Derrel	Biological Systems Engineering
\$845,363	DUU2-MU-MGM3	Pavlista, Alexander Supalla, Raymond	Panhandle Research and Extension Center Agricultural Economics
Harnisch, Delwyn To	eaching, Learning and Teacher Education	Urrea Florez, Carlos	Panhandle Research and Extension Center
	nt Cohorts (NAC05/06) & Nebraska	Yonts, C. Dean	Panhandle Research and Extension Center
	Learning Cohorts (NLL05/06)		apt Remote Sensing Technology to Produce
\$200,000	Ne Dept. of Education		er Use Maps for the Nebraska Panhandle
Harris, Steven	Plant Science Initiative/Plant Pathology	\$239,951 Baltensperger, David	Dept. of Agriculture-NRCS Panhandle Research and Extension Center
	in Fungal Hyphae: Functional	Berger, Aaron	Panhandle Research and Extension Center
	Mechanical Strength Studies	DeBoer, Karen	Panhandle Research and Extension Center
\$201,907	University of Maryland-Baltimore	Hla, Aung	Panhandle Research and Extension Center
		Lyon, Drew	Panhandle Research and Extension Center
Harshman, Lawrence	Biological Sciences	Pavlista, Alexander	Panhandle Research and Extension Center
	Proteins that Regulate Stress Resistance	Yonts, C. Dean	Panhandle Research and Extension Center
\$505,985	DOD-DEPSCoR lonal Genomics of Drosophila Obesity	Heusel, Gary	Student Involvement
\$516,548	Cornell University		m for Service-Learning in Higher Education
	volution of Genes Expressed in	\$469,903	Corporation for National Service
	ster Sperm Storage Structures		·
\$283,213	NSF	Hoagland, Kyle	School of Natural Resources
Moriyama, Etsuko	Plant Science Initiative		g Complex Issues in Nebraska:
\$212,434	Genomics of Sexual Dimorphism University of California-Davis	\$347,200	Western Platte River Valley-Phase II Environmental Protection Agency
Ψ2 12, <del>13 1</del>	Oniversity of Camornia Davis	Fritz, Sherilyn	Geosciences
Hay, DeLynn	IANR-Cooperative Ext	,,	
	Region Sustainable Agriculture	Holmes, Mary Anne	Geosciences
	evelopment Program—FY 2005		nmunity of Women Geoscience Leaders
\$910,283	Dept. of Agriculture-CSREES	\$228,774	NSF
Hebets, Eileen	Biological Sciences	Holz, John	School of Natural Resources
	ar: Exploring Neural Basis of		on of Nebraska Streams and Rivers:
	Behavior in Amblypygids	Phase I Data	Assessment, Collection and Analysis
\$240,000	Chicago Community Trust/Searle Scholar	\$287,853	Nebraska Dept. of Environmental Quality
Hein, Gary Pa	nhandle Research and Extension Center	Hoagland, Kyle	School of Natural Resources
	Initialitie Research and Extension Center  Intensive Areawide IPM of	Horn, Christy	Educational Psychology
	Wheat Aphid & Greenbug		Accepting Campus Communities
\$516,594	Dept. of Agriculture-ARS	\$945,171	Dept. of Education
U Ob	Bistories Contant Forders and	U 0: (0t)	Only and and Madernal Decomposition
Henry, Christopher	Biological Systems Engineering	Hu, Qi (Steve)	School of Natural Resources
\$600,000	r Environmental Assistance Project Ne Environmental Trust		ral Communities in Great Plains of US with opment of Climate Prediction & Information
	nt of Alternative Technologies	\$436,424	Dept. of Commerce-NOAA
	all Livestock Producers	+ · · · · · · · · · · · · · · · · · · ·	- sp
\$221,881	Ne Dept. of Environmental Quality	Hunt, Robert	University of Nebraska State Museum
Gross, Jason	Biological Systems Engineering		omputerization of University of Nebraska
		Vertel \$315,839	orate Paleontology Collection NSF
		Voorhies, Michael	University of Nebraska State Museum
		. SS. Moo, Michael	Ss.s.ty S. 1.337 dawn state Museum

\$200,000 - \$999,999 \$200,000 - \$999,999

Hutkins, Robert Food Safety: Life-Long Learni	Food Science and Technology	Jones, Elizabeth ITS Resource, R	Civil Engineering
\$400,000 Durso, Lisa	Dept. of Agriculture-NRICGP Food Science and Technology		Peter Kiewit Institute Ne Dept. of Roads
Rupnow, John Thippareddi, Harshavardhan Whipple, Georgianna	Food Science and Technology Food Science and Technology Food Science and Technology	Jones, Erick	Industrial and Management Systems Engineering
Hygnstrom, Scott  Development of Spatially Explic	School of Natural Resources cit Models of Wildlife Diseases	Center for Engineering L \$256,000	ogistics and Distribution at UNL NSF
\$330,930	Dept. of Agriculture-APHIS	Jose, H. Douglas  Trade Adjustme	Agricultural Economics ent Assistance Program
lanno, Natale	Electrical Engineering	\$705,000	Dept. of Agriculture-RMA
* Nano-Mate \$531,500 Turner, Joseph	NSF-EPSCoR Engineering Mechanics		NE State Forest Service
Expression of Chimeric A		\$350,000 * NRCS-Technica \$334,304	Ne Dept. of Roads  I Service Provider Project  Dept. of Agriculture-NRCS
\$297,562 Inderbitzen-Nolan, Heidi Etiological Factors in Ad			Veterinary and Biomedical Sciences teins in Pestivirus Virion Assembly DHHS-NIH-NIAID
\$614,387	DHHS-NIH-NIMH	Kennedy, Patricia	Marketing
Jaecks, Duane  Mass Dependent Effects  Massive Coulomb In \$717,500			od Consumption of Adolescents  Dept. of Agriculture-CSREES  Economics  Nutrition and Health Sciences
Jameson, Mary Liz Univel Monography & Phylogeny of N	rsity of Nebraska State Museum	Keown, Jeff	Animal Science
\$755,300 Ratcliffe, Brett	NSF Entomology		ty Information Delivery  Dept. of Education-FIPSE
* SAM^2 Toolkit: Scalabl Management for Hi \$602,326			Civil Engineering irements for Superpave Mixes gregate Sources in Nebraska Ne Dept. of Roads Civil Engineering
Johnson, Ron	School of Natural Resources	Material Selection	& Design Consideration for ge of Asphalt Pavement
Common Sense Endangered Specie \$222,513	Conservation of	\$225,527 Azizinamini, Atorod	Ne Dept. of Roads Civil Engineering
	erinary and Biomedical Sciences	Koelsch, Richard	Biological Systems Engineering
Jones, Clinton Veto	llysis of biCPO	\$250,470	ater Quality Coordination Initiative Iowa State University
\$349,500 Zhang, Yange Ve	Dept. of Agriculture-NRICGP sterinary and Biomedical Sciences	Wortmann, Charles	Agronomy and Horticulture
Regulation of the Latency-	Reactivation Cycle by the	Kostelnik, Marjorie	<b>Education and Human Sciences</b>
Bovine Herpesvirus 1 (BHV-1 \$319,600	) Latency Related (LR) Gene Dept. of Agriculture-CSREES	Osher Lifeloi \$300,000	ng Learning Institute  Bernard Osher Foundation
* Functional Analysis of Prot Herpesvirus 1 Late \$374,475	eins Encoded by the Bovine	Eversoll, Deanna Aguilar, Deanna	Education and Human Sciences Education and Human Sciences
ψ <b>ુ, Τ,Τ</b> Ι Ο	Dopt. or Agriculture-Contlo		

\$200,000 - \$999,999 \$200,000 - \$999,999

Geosciences Krull. Dean Agronomy and Horticulture Loope, David Managing Irrigation Systems Today & Tomorrow Paleometeorological Records from \$501,671 Central Platte NRD Sand Dunes & Eolian Sand Stones Benham, Brian Aaronomy and Horticulture \$262.570 NSF Ferguson, Richard Agronomy and Horticulture Louda, Svata **Biological Sciences** Langell, Marjorie Chemistry Single vs. Multiple Insect Herbivore Guild Surface Chemistry of Rock Salt & Spinel 3D Transition Interactions in Canada Thistle Dynamics Metal Oxides Tailored by Structural & Compositional Methods \$408,760 Dept. of Agriculture-NRICGP \$425,000 Insect Herbivore Guild Interactions & Tall Thistle Population Dynamics **Mathematics** Ledder, Glenn \$369,999 NSF \* UBM: Research for Undergraduates in Theoretical Ecology (RUTE) Lu, Yongfeng **Electrical Engineering** \$905,000 NSF Laser-Assisted Fabrication of Deng, Bo Mathematics Large-Scale 3-D Photonic Bandgap Structures \$350,000 Gibson, Robert **Biological Sciences** DOD-DEPSCoR Loladze, Irakli Mathematics Wang, Xinwei Mechanical Engineering Louda, Svata **Biological Sciences** Fabrication of Photonic Bandgap Structures in Si & Ge Substrates Using Laser-Assisted Nanoimprinting Lee, Kevin Physics and Astronomy of Self-Assembled Nanoparticles ClassAction: Model Rapid-Feedback & \$210.238 DOD-Air Force Off of Sci Rsch Magnetic Confinement of Plasmas in Laser-Induced Breakdown Dynam Formative Assess System \$359.768 NSF Spectroscopy for Improved Sensitivity & Accuracy Schmidt, Edward Physics and Astronomy \$249,306 Dept. of Energy **Development of Interactive Simulation Environments** \* Self-Integration of Carbon-Nanotube Sensors for Inquiry Astronomy Teaching in Functional Integrated Circuits NSF NSF \$336,572 \$240,000 Schmidt, Edward Physics and Astronomy \* MRI: Development of Multifunctional Nanoscale Measurement System Leslie-Pelecky, Diandra **Physics and Astronomy** \$220.000 NSF Magnetic Properties of Disordered Rare-Earth Nanostructures Alexander, Dennis **Electrical Engineering** \$420,000 Ducharme, Stephen Physics and Astronomy Shield, Jeff Mechanical Engineering Wang, Xinwei Mechanical Engineering \* Magnetic Cluster States in Nanostructured Materials Dept. of Energy-EPSCoR **Plant Science Initiative** \$450,000 Mackenzie, Sally Machinery of Mitochondrial Recombination in Higher Plants **Engineering Mechanics** Li. liangvu \$494.080 \* Ferroelectric Polymer Nanocomposite Film/Langmuir-Blodget Christensen, Alan **Biological Sciences** \$267.335 Mitochondrial Sorting & Inheritance in Arabidopsis Ducharme, Stephen NSF Physics and Astronomy \$303,000 **Nuclear-Organellar Interactions Agronomy and Horticulture** Lindquist, John Involving AtMSH1 in Arabidopsis \* Contribution of Fusarium lateritium to Weed \$360,000 Dept. of Energy Suppressive Soils & Weed Abundance Strategy for the Transgenic Induction of \$366.186 Dept. of Agriculture-NRICGP Cytoplasmic Male Sterility in Crop Plants Drijber, Rhae \$404,858 Agronomy and Horticulture Dept. of Agriculture-BRDC Plant Pathology Yuen, Gary \* Training Graduate Students in Plant Breeding using Crop Drought Tolerance Improvement as a Model Liou, Sy-Hwang Physics and Astronomy \$200,000 Dept. of Agriculture-NRICGP Plant Science Initiative Nanometer-Size Magnetic Devices Fromm, Michael \$236,000 DOD-DEPSCoR

\$200.000 - \$999.999 \$200.000 - \$999.999

33

Architectural Engineering

Omaha Public Power District

\* CC at Mutual of Omaha - Phase III

Liu. Minashena

\$210,319

Mamo, Martha Agronomy and Horticulture Nickerson, H. Doak **NE State Forest Service** Pollution & Economic Decision Support Tool for Impaired Restoring the Pine Ridge Forest Ecosystem Watershed Management Plans in Eastern Nebraska \$300,000 Ne Environmental Trust \$335,000 Dept. of Agriculture-CSREES Noureddini, Hossein Agricultural Economics Chemical and Biomolecular Engineering Helmers, Glenn Ginting, Daniel Agronomy and Horticulture \* Reduction of Phosphorus from Ethanol Wortman, Charles Agronomy and Horticulture By-Product used as Livestock Feed \$210.781 Nebraska Corn Board Martin, Alex Agronomy and Horticulture Geosciences IWM Implementation: A Regional Approach Oglesby, Robert \$766,718 Dept. of Agriculture-CSREES \* Evaluating the Role of Global Snow Cover on Seasonal to Interannual Predictability of Temperature & Precipitation Martin, Derrel **Biological Systems Engineering** \$598,216 NASA Modeling and Field Experimentation to Determine Effects of Land Terracing-Republican River Basin (CESU) Orr, John **Mathematics** \$359,800 Dept. of Interior-BR **Evolution of Advanced Electronic Educational Support Material** Food & Agricultural Sciences National Needs \$408,752 Brownstone Research Group Graduate Fellowship Grants Program **Biological Sciences** \$276,000 Dept. of Agriculture-CSREES Orti. Guillermo RCN: DeepFin Will Advance the Phylogeny of "Fishes" McQuillan, Julia Sociology \$500,000 NSF \* Infertility: Pathways & Psychosocial Outcomes Pennsylvania State University Pattnaik, Asit **Veterinary and Biomedical Sciences** \$229,420 Analyses of Virulence & Attenuation Meagher, Michael Chemical and Biomolecular Engineering Determinants of PRRSV using Reverse Genetics Recombinant Type E Botulinum Neurotoxin Vaccine \$320,000 Dept. of Agriculture-NRICGP \$345,756 DynPort Vaccine Company Osorio, Fernando Veterinary and Biomedical Sciences Swanson, Todd Chemical and Biomolecular Engineering VSV RNA Transcription and Replication \* Optimization of Phytase Production in Pichia Pastoris \$996,128 DHHS-NIH-NIAID \$372,874 **Electrical Engineering** Chemical and Biomolecular Engineering Perez, Lance Inan, Mehmet \* Proteon Fermentation Protocol Selection \* Self-Configuration & Localization in \$351,091 Ad Hoc Wireless Sensor Networks **Proteon Therapeutics** \$548.807 DOD-DEPSCoR Miller, Nancy **Textiles, Clothing and Design** Goddard, Stephen Computer Science and Engineering Collaborative Research on Small Business Network Creation and Outcomes for Change and Innovation Peters, Ed School of Natural Resources \$230,011 NSF Nebraska Statewide Stream Inventory \$329,967 Ne Game & Parks Commission Mitra, Amit **Plant Pathology** Pilson, Diana **Biological Sciences** Efficient Gene Silencing by Intrinsic Direct Repeats: Mechanism & Utilization Transgenic Virus Resistant Squash: Ecological Effect NSF \$390,000 \$314.877 Dept. of Agriculture-CSREES Morris, T. Jack **Biological Sciences Biological Sciences** Morris, T. Jack The Role of a Host Protein (TIP) in the Resistance Platt, Stephen **Mechanical Engineering** Response of Arabidopsis to Turnip Crinkle Virus Infection \* In Vivo Robotic Camera System for Laparoscopic Surgery \$360,000 Dept. of Energy \$394,550 DHHS-NIH-NIBIB **Biological Sciences** Qu, Feng Farritor, Shane Mechanical Engineering **School of Natural Resources** Moxley, Rodney **Veterinary and Biomedical Sciences** Powell, Larkin Influence of Enterotoxins on Virulence and \* Productivity and Biology of Ducks Colonization of Porcine Intestine by E.coli Nesting in the Sandhills of Nebraska \$270,000 Dept. of Agriculture-NRICGP \$824.969 Ne Game & Parks Commission Role of A/E Proteins in E.Coli:0157:H7 in Intestinal Colonization of Adult Cattle

> \$200.000 - \$999.999 \$200.000 - \$999.999

35

Dept. of Agriculture-NRICGP

\$370,000

**Biochemistry Civil Engineering** Ragsdale, Stephen Rilett, Laurence Enzymology of Methanogenesis: Mechanism Development of State of the Art Traffic of Methyl-Coenzyme M Reductase Micro-Simulation Model for Nebraska \$420,000 Dept. of Energy \$222.896 Ne Dept. of Roads Biochemistry of the Anaerobic Jones, Elizabeth Civil Engineering **Dehalogenation of Chlorinated Aromatics** \* Intelligent Transportation System Deployment Project NSF \$831,942 \$435,000 Ne Dept. of Roads Jones, Elizabeth Civil Engineering Rajca, Andrzej Chemistry Khattak, Aemal Civil Engineering Organic Polymers with Magneto-Dielectric Properties \$308,608 DOD-Air Force Off of Sci Rsch Robertson, Brian **Mechanical Engineering** Ducharme, Stephen Physics & Astronomy Development of a Novel Inorganic Dielectric Very High-Spin Polyradicals & Chiral Pi-Conjugated Systems Barrier Layer for Magneto-Resistive Junctions \$555,000 \$400,000 NSF Doudin, Bernard Physics and Astronomy Rajurkar, Kamlakar **Industrial and Management** Dowben, Peter Physics and Astronomy **Systems Engineering** Rohde, John **Civil Engineering** Analysis & Gap Monitoring for Improving Micro EDM Performance-Supplement Midwest States Regional Pooled Fund Program-Yr 16 \$202.500 NSF \$535,000 Ne Dept. of Roads Yu, Zuyuan Industrial and Management Systems Engineering Sicking, Dean Civil Engineering Reid, John Mechanical Engineering Ramamurthy, Byray Computer Science and Engineering Faller, Ron Civil Engineering Secure Group Communication over Wired & Wireless Networks Rothermel, Gregg Computer Science and Engineering \$349,990 Variyam, Vinod CRI: Community Resource to Support Controlled Computer Science and Engineering Experimentation with Program Analysis and Testing Techniques Ratcliffe, Brett **Entomology** NSF \$874,636 A Faunistic Survey of the Dynastinae of Elbaum, Sebastian Computer Science and Engineering Honduras, Nicaragua & El Salvador Dwyer, Matthew Computer Science and Engineering \$342,842 NSF \* ITR: Dependable End-User Software \$345,933 Oregon State University **Center for Materials Research** Redepenning, Jody **Veterinary and Biomedical Sciences** Chemically Modified Nano-Electrodes Rupp, Gary for Magnetoelectronics Applications \* Biosecurity Practices/Wholesome Food \$390,000 NSF \$249,792 Dept. of Agriculture-CSREES Binek, Christian Physics and Astronomy Griffin, Dee Veterinary and Biomedical Sciences Sokolov, Andrei Physics and Astronomy Smith, David R Veterinary and Biomedical Sciences Reichenbach, Stephen Computer Science and Engineering Samal, Ashok Computer Science and Engineering SEI: Information Modeling for \* Building Knowledge Discovery & Information Fusion Comparative Visualizations & Analyses Tools for Collaborative Systems to Adaptively \$351,428 NSF Manage Uncertain Hydrological Resources \$552,100 NSF **Mechanical Engineering** Reid, John Chen, Xun-Hong School of Natural Resources Investigating the Use of Small Diameter Soh, Leen-Kiat Computer Science and Engineering Tomkins, Alan Public Policy Center Softwood as Guardrail Posts \$280,000 Zellmer, Sandra Dept. of Agriculture-FS College of Law Faller, Ronald Civil Engineering Saraf, Ravi **Chemical and Biomolecular Engineering** Reid. Robert **Special Education and Communication Disorders** Nanodevice for Imaging Normal Stress Distribution with \* Leadership Training in Attention Deficit Hyperactivity Disorder Application in Sensing Texture and Feel by Touching \$620,006 Dept. of Education \$272,156 NSF Schacht, Walter Agronomy and Horticulture Grasslands Ecological Monitoring System \$608,880 Dept. of Agriculture-RMA-FCIC

> \$200,000 - \$999,999 \$200.000 - \$999.999

36

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

**Project PROMOTE** 

\$797.184 Dept. of Education Special Education and Communication Disorders Sanger, Dixie Project Support: Speech-Language

Pathologists Supporting Literacy Instruction

\$800,000 Dept. of Education Sanger, Dixie Special Education and Communication Disorders

Project 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

**Physics and Astronomy** Sellmyer, David

> \* Fundamental & Magnetic-Hardening Studies of Advanced Nanocomposite Magnets

\$270,000 Dept. of Energy

Shank, Nancy **Public Policy Center** 

Bridging the Gap: Information &

Referral Database Interoperability

Dept. of Commerce-NTIA \$600,000

Northeast Research and Extension Center Shapiro, Charles

> Improving Organic Farming Systems across Nebraska Agroecosystems

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

Johnson, Ron School of Natural Resources

Shea. Patrick School of Natural Resources

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

\$570.000 Dept. of Agriculture-CSREES School of Natural Resources Burbach, Mark Lynne, Gary **Agricultural Economics** Martin, Alexander Agronomy and Horticulture Milner, Maribeth Agronomy and Horticulture

Sheridan, Susan **Educational Psychology** 

Leadership Training in Interdisciplinary Collaboration

Dept. of Education \$800,000

Shield, Jeffrey **Mechanical Engineering** 

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

NSF \$340,000

38

Sicking, Dean Civil Engineering

> Identification of Vehicular Impact Conditions Associated with Serious Ran-Off-Road Crashes

\$634.521 Natl Coop Hwy Rsch Proa Khattak, Aemal Civil Engineering Jones, Elizabeth Civil Engineering

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

\$833,940 Natl Coop Hwy Rsch Prog Reid, John Mechanical Engineering Rohde, John Civil Engineering Faller, Ronald Civil Engineering

Siegfried, Blair Entomology

> 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

Dept. of Agriculture-CSREES \$346.845

Simpson. Melanie Biochemistry

Role of Hyaluronan in Prostate Cancer Progression

\$326,250 DOD-Army Medical Research

Sincovec, Richard Computer Science and Engineering

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

\$500,000 NSF Jiang, Hong Computer Science and Engineering Ramamurthy, Byrav Computer Science and Engineering Seth, Sharad Computer Science and Engineering Swanson, David Computer Science and Engineering

Smith, Andrew University of Nebraska State Museum

Scarab Biodiversity of Southern South America

\$300,000 NSF Ocampo, Federico University of Nebraska State Museum

Smith, David R. **Veterinary and Biomedical Sciences** 

> Intervention Strategies to Reduce Escherichia Coli 0157:H7 in Beef Feedyards

\$500,000 Dept. of Agriculture-NRICGP Erickson, Galen **Animal Science** Veterinary and Biomedical Sciences Hinkley, Susanne Klopfenstein, Terry **Animal Science** Moxley, Rodney Veterinary and Biomedical Sciences

Physics and Astronomy Snow, Gregory

\* GAANN Fellowships for Physics at UNL

\$380.016 Dept. of Education

**Veterinary and Biomedical Sciences** Somerville, Greg

> \* Environmental Regulation of Staphylococcus epidermidis PIA Synthesis

\$367,000 **DHHS-NIH-NIGMS** 

\$200,000 - \$999,999 \$200.000 - \$999.999

Soukup, Rodney	Electrical Engineering	Storz, Jay  * Test of Adaptive Dive	Biological Sciences ergence across Altitudinal
\$270,000	NSF		n Genomics of Deer Mice
lanno, Natale	Electrical Engineering	\$492,000	NSF
Specht, James Elevating Protein (	Agronomy and Horticulture Content in the North Central	<b>Stubbendieck, James</b> Farm Viability, Farmland Pr	<b>Great Plains Studies</b> reservation and Smart Growth
USA Soyb \$642,199 Graef, George	ean-Growing States Iowa State University-NCSRP Agronomy and Horticulture	\$308,000 Esseks, J. Dixon	Dept. of Agriculture-NRICGP Great Plains Studies
	ation of SNP DNA Markers in Soybean Dept. of Agriculture-ARS	Prep Zirconia Aggregates/	ical and Biomolecular Engineering /Adsorbents in Bioseparations
Spreitzer, Robert	Biochemistry	\$270,131	NSF
Role of the	Rubisco Small Subunit	Swanson, David (	Computer Science and Engineering
\$748,000	Dept. of Energy		Tier 2 Center
	ylogenetic Engineering		University of California-Los Angeles
\$202,383	Dept. of Agriculture-NRICGP	Bloom, Kenneth	Physics and Astronomy
O	Ot O-i and Fii	Dominguez, Aaron	Physics and Astronomy
Srisa-an, Witawas	Computer Science and Engineering		ole Shared-Memory Computing &
	e Garbage Collector for Server Systems		r Scientists & Engineers
\$281,000 Elbaum, Sebastian	NSF	\$300,000	NSF
Elbaum, Sebastian	Computer Science and Engineering	Tadros, Maher	Civil Engineering
Starace, Anthony	Physics and Astronomy		in Concrete Pavement
	ew-Body Atomic Processes	\$321,379	Ne Dept. of Roads
\$996,337	Dept. of Energy	402.1,07.5	. to Dopti of House
. ,	st Atomic and Molecular Processes	Takacs, James	Chemistry
\$210,000	NSF		tions for Organic Synthesis
		\$422,500	NSF
Steadman, James	Plant Pathology		
	rative Research Support Program	Taylor, Steve	Food Science and Technology
\$394,481	Michigan State University		rgen Database
	vement of Bean thru Multi-Site	\$346,406	Various Industries
	athogen Characterization		od Manufacturing Alliance
\$204,650	Dept. of Agriculture-ARS	\$462,110	Dept. of Agriculture-CSREES
Staffan Navid	Veterinary and Biomedical Sciences		aluation of Isinglass
Steffen, David	's Disease Testing	\$417,610	Various Industries
\$208,000	Ne Dept. of Agriculture	Thippareddi, Harshavardhan	<b>Food Science and Technology</b>
Ctontz Torry	Construction Management		olling Listeria Monocytogenes
Stentz, Terry	Construction Management		leady-to-Eat Meat Products
\$301,250	ors in Railway Operation Dept. of Transportation-FRA	\$222,270	Colorado State University II & Very Small Processors with
Jones, Elizabeth	Civil Engineering	Development & Validation	of Safe Meat Chilling Processes
Rilett, Laurence	Civil Engineering	\$599,916	Dept. of Agriculture-CSREES
Khattak, Aemal	Civil Engineering	Wang, Lijun	Biological Systems Engineering
	and Management Systems Engineering	Weller, Curtis	Biological Systems Engineering
	and Management Systems Engineering	Burson, Dennis	Animal Science
	xtremity Lacerations in Meat Packing	· · · · · · · · · · · · · · · · · · ·	to Assist Meat Processors with
\$293,690	Harvard School of Public Health		r Lethality & Stabilization
		\$495,640	Dept. of Agriculture-CSREES
	Plant Science Initiative/Biochemistry		nell Eggs & Egg Products by
	scriptional Regulator in		earch Needs for Salmonella
	Death & Plant Development		Salmonella spp
\$240,000	Dept. of Energy	\$599,951	Dept. of Agriculture-NRICGP
		Froning, Glenn	Food Science and Technology
		Subbiah, Jeyamkondan	Biological Systems Engineering

\$200,000 - \$999,999 \$200,000 - \$999,999

Thomas, Steven School of Natural Resources Verma, Shashi School of Natural Resources Carbon Sequestration and Global Climate Change \* FIBR: Linking Genes to Ecosystems \$307,189 University of California-Riverside \$941,161 Dept. of Energy-EPSCoR Knops, Johannes **Biological Sciences** Tiller, Dale School of Engineering Technology Agronomy and Horticulture Cassman, Kenneth Converging Redundant Sensor Network Vidaver, Anne Plant Pathology Information for Improved Building Control \$327,000 Dept. of Energy-Natl Energy Tech Molecular Characterization of Henze, Gregor School of Engineering Technology Clavibacter iranicus & Related Species \$318,742 Dept. of Agriculture-ARS Torquati, Julia **Family and Consumer Sciences** Viljoen, Hendrik **Evaluation of Promising Models and Delivery Chemical and Biomolecular Engineering** Vortex-Tube Based Thermocycler w/Intelligent Software Approaches to Child Care Provider Training \$305,393 Iowa State University \$350.636 DHHS-NIH-Nat Ctr Rsch Resources Wilcox, Brian Center on Children, Families and the Law Gogos, George Mechanical Engineering Raikes, Helen Center on Children, Families and the Law Wagner, William **Biological Sciences** Teaching, Learning and Teacher Education Trainin, Guy Communication of Direct Mating Benefits to Females \* Arts Linc NSF \$301,283 Lake Elsinore USD \$261,674 Waldren, Vernon Southeast Research and Extension Center Physics and Astronomy Tsymbal, Evgeny \* HUD Omaha Lead Site Theory of Electronic Magnetic & Transport \$300,000 Dept. of Housing and Urban Development Properties of Nanoscale Magnetic Junctions **Economics** Walstad, William \$300,000 NSF Interactive Teaching in Undergraduate Economic Courses Jaswal, Sitaram Physics and Astronomy \* Multiscale Modeling of Magnetic Nanocontacts \$674,928 NSF \$200,751 Seagate Technology Wang, Jun **Computer Science and Engineering** Uiterwaal, Kees **Physics and Astronomy** CSR-PDOS: Energy-Efficient, Inside a Focused Laser Beam: Molecular Dynamics High-Performance Storage Array Systems NSF \$442,001 NSF \$260,000 Umstadter, Donald Physics and Astronomy **Mechanical Engineering** Wang, Xinwei Ion Acceleration with High Intensity Lasers **Sub-Surface Structural Damages** \$401,277 NSF in Laser-Assisted Surface Nanostructuring \* Laser Produced Coherent X-Ray Sources \$249,999 NSF **Electrical Engineering** \$270,000 Dept. of Energy Lu, Yongfeng Weeks, Donald **Biochemistry** Van Etten, James **Plant Pathology** Development of Herbicide-Resistant Plants for Center for Innovation in Membrane Protein Production Environmentally-Safe Production Energy & Biomass Crops Consortium for Plant Biotechnology Research \$428.684 Univ of California-San Francisco \$232,000 Dunigan, David Plant Pathology Center on Children, Families and the Law Weisz, Victoria Variyam, Vinod **Computer Science and Engineering** Nebraska State Court Improvement Studies in Computational Complexity Theory \$861,502 Supreme Court of Nebraska \$200,000 NSF

Weldon, Robert

\$393,825

\$200,000 - \$999,999 \$200.000 - \$999.999

**Special Education and** 

Dept. of Education

Special Education and Communication Disorders

**Communication Disorders** 

Project NETS: Nebraska Educational Transition Specialists

Vasa, Stanley

Scheffler, Marilyn

\$798.624

42

Intracellular Targeting of HIV Gag Proteins

**Biological Sciences** 

DHHS-NIH-NIAID

	Biological Systems Engineering Juences on Structural &		Mechanical Engineering of Improved Product Performance
	n of Grain Sorghum		Optimization & Modeling of
\$338,000 Carr, Timothy	Dept. of Agriculture-NRICGP Nutrition and Health Sciences	Engineering   \$341,179	Materials Processing & Function Brenco/Amsted Industries
Schlegel, Vicki Cuppett, Susan Hwang, Keum Taek Wang, Lijun	Food Science and Technology Food Science and Technology Industrial Ag Products Center Biological Systems Engineering	* Assessing the Lo Technology as a	Panhandle Research and Extension Center ong Term Viability of Roundup Ready I Foundation for Cropping Systems
Whitbeck, Les	Sociology	\$880,000	Monsanto Co.
	ciety Drug Prevention Program  DHHS-NIH-Nat Inst Drug Abuse		Northeast Research and Extension Center work for Tribal College Community
WIL:4- B44	Animal Origina		Natural Resources Education
White, Brett	Animal Science	\$237,105	Iowa State University
\$287,193	Porcine GnRH Receptor Gene Dept. of Agriculture-CSREES	Woldt, Wayne  * Advancing Onsite	Biological Systems Engineering e Wastewater Treatment in Nebraska
White, Joseph	Sociology	\$259,742	Ne Dept. of Environmental Quality
	ntion Program with the Dakota DHHS-NIH-NIAAA	Skipton, Sharon	Southeast Research and Extension Center
Hoyt, Dan	Sociology	Wood, Charles	Biological Sciences
Whitbeck, Les	Sociology		and Cancer Specimen Bank
Godfrey, Joyzelle	Sociology	\$320,442	George Washington University
Wiegand, Roger	Mathematics	Woodward, Gordon	Mathematics
	ram: Mathematics at UNL		ion in Computer Science, Engineering, &
\$633,360	Dept. of Education		through NSF Scholarships at UNL
Pitts, David	Mathematics	\$400,000	NSF
Walker, Judy Walker, Mark	Mathematics Mathematics	Ballard, John	Engineering & Technology
Bellows, Laurie	Graduate Studies	Ramamurthy, Byrav Goddard, Steve	Computer Science and Engineering Computer Science and Engineering
Wiener Dichard	Devehology	Lee, Kevin	Arts & Sciences
Wiener, Richard	Psychology nology and Law	\$223,987	REU in Applied Mathematics NSF
\$269,280	NSF	Rebarber, Richard	Mathematics
Jury Bias in Criminal	Cases: Sexual Assault,	·	
	Generic Prejudice	Wortmann, Charles	Agronomy/Horticulture
\$233,883	NSF	Integrated Appro	pach to Reduced Risk of Phosphorus ace Waters in Crop-Livestock Based
Wilhite, Donald	School of Natural Resources		Ecosystems of the Midwest
Drought Monitoring,	Planning & Mitigation	\$235,839	Nebraska Corn Board
\$495,371	Dept. of Agriculture-CSREES	Erickson, Galen	Animal Science
	ss Technologies for the US	Schulte, Dennis	Biological Systems Engineering
\$589,996	Dept. of Agriculture-CSREES  of Complex Climatic Events:	Franti, Tom	Biological Systems Engineering Agricultural Economics
	lebraska & New Mexico	Jose, H. Douglas	Agricultural Economics
\$300,000	Dept. of Commerce-NOAA	Yamamoto, Catherine	Student Affairs oward Bound-Lincoln
Willis, Mary	Anthropology and Geography	\$938,496	Dept. of Education
	Restoration Among Nuer		Bound Math/Science Project
	gees from Sudan	\$891,664	Dept. of Education
	and Valeria Langeloth Foundation		·
			Textiles, Clothing and Design Sulfur Dyed Fabrics to Oxidative
		Bleaching & Acidic 7	Tendering: Improvement & Application

\$200,000 - \$999,999 \$200,000 - \$999,999

44

\$300,618

Procter & Gamble

# Yoder, Ronald Biological Systems Engineering

Nebraska AgrAbility

\$800,000 Dept. of Agriculture-CSREES Baquet, Alan Agricultural Economics

# Zempleni, Janos Nutrition and Health Sciences

\* Biotin Affects Cytokine Metabolism

\$409,586 Dept. of Agriculture-NRICGP

\* Epigenetic Effects of Biotin on Activation of Endogenous Viral Sequences

\$401,959 DHHS-NIH-NIEHS

## Zeng, Xiao Cheng Chemistry

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 History Trade-Off

\$423,682 NSF

Harshman, Lawrence Biological Sciences
Morph-Dependent Cyclic JH Titer in a Wing-Polymorphic

Insect: Adaptive Significance & Underlying Causes \$321,626 NSF

Harshman, Lawrence Biological Sciences

Physiological & Molecular Causes of Genetic Variation/Covariation in Endocrine Regulation

\$372,000 NSF

### Zhang, Luwen Center for Virology

Interferon Regulatory Factor 7 and NPC

\$393,855 DHHS-NIH-NIAID

#### Zlotnik, Vitaly 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

46

# 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
\$623,918
NSF



## Becker, Donald

Spectrochemical Studies of Novel PutA Flavoprotein \$314,250



#### Binek, Christian

Physics and Astronomy

\* Éducation & Research on Nanoscale Spintronic Systems & Heterostructures \$500.000 NSF



#### Bloom, Kenneth

Physics and Astronomy

\* Top-Quark Physics, Computing & Software at Large Hadron Collider \$550,000 NSF



#### Choueiry, Berthe

Computer Science and Engineering
Detecting Interchangeability Relations in
Constraint Satisfaction Problems and Exploiting
them in Problem Solving and Interactions with
Users

\$600,000 NSF



#### Dominguez, Aaron

Physics and Astronomy

\* Superior Silicon Tracking & Discovery as CMS & DO \$550,000 NSF



## Elbaum, Sebastian

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

\$200,000 - \$999,999 CAREER AND K AWARDS

NSF



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



48

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

#### K Awards

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



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



Tyler, Kimberly
Sociology
Neglect and Abuse Histories Among Homeless
Young Adults
\$659,525
DHHS-NIH-NIMH

CAREER AND K AWARDS CAREER AND K AWARDS

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

Active awards in 2006
\* Indicates new in 2006

## Cahan, David

#### History

#### A Biography of Hermann von Helmholtz

\$102,868

NSF



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.

Kooser, Ted

**English** 

#### American Life in Poetry Project

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



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

English

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



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

Libraries

English

Libraries

Libraries

Interoperability of Metadata Standards for Digital Thematic Research Collections

\$169,651 Institute of Museum and Library Services 11/1/05 – 10/31/07

Price, Kenneth Bolin, Mary Barney, Brett



Katherine Walter, chair of special collections and preservation and professor of libraries, is principal investigator on a team hoping to develop guidelines that will serve as a model for the integration of standards used by scholarly digital projects and could influence future development. Metadata integration is

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

Benjamin A. Botkin Collection-Preservation/Access

\$97,435 National Endowment for the Humanities

7/1/01 - 6/30/06

Walter is also using a National Endowment for the Humanities grant to preserve a vast collection of materials from the Benjamin A. Botkin Collection of Applied American Folklore and microfilming it to improve its accessibility to scholars and the public. Botkin was national folklore editor of the Federal Writers Project and

chief of the Library of Congress Archive of American Folk Song. The collection adds to the understanding of this discipline in development and it consists 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 National Endowment for the Humanities
Dunham, Gary
9/1/03-8/31/05
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

Brooke, Robert English

Voices from Young Citizens: Writing from Rural Nebraska Youth Involved in Place Conscious Education

\$8,100 Nebraska Humanities Council

Dunham, Gary University Press

Moravian Springplace Mission among the Cherokees

\$20,000 National Historic Publications and Records

Publication of "Beaver Steals Fire"

\$6,000 Montana Committee for Humanities

Engen-Wedin, Nancy Lied Center for Performing Arts

\* ArtsReach

\$41,500 Nebraskans for the Arts

\* Umonhon Cultural Arts Program

\$11,250 Kennedy Center for Performing Arts

Handa, Rumiko Architecture

Spirit of Design: Multidisciplinary,

Multimedia Database and Website

\$12,000 Graham Foundation
Potter, James Architecture

Randolph, Ladette University Press

\* Access to Artistic Excellence: International Translations \$25,000 National Endowment for the Arts

Steger, Paul Johnny Carson School of Theatre and Film

\* Nebraska Repertory Theatre Statewide

\$7,210 Nebraska Arts Council

Walter, Katherine University Libraries

Quilt Index National Leadership Project

\$20,000 Michigan State University
Crews, Patricia Textiles, Clothing and Design

Homestead — Broken Bow Microfilming Project (CESU)

\$20,000 Dept. of Interior-NPS Edwards, Rick Economics

Weiss, Wendy Textiles, Clothing and Design

\* Hillestad Textiles Gallery

\$5,285 Friends of the Hillestad Textiles Gallery

# 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

Chemistry

Title: Electrolytic Deposition of Coatings for Prosthetic Metals and

Alloys

54

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

PATENTS ISSUED PATENTS ISSUED

# 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

Soloist, Thirteenth American Music Festival, Chinese government.

#### Chang-Barnes, Ann School of Music

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.

## 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. 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 *Il 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, III. and Ashland, Ore.

## **ROOKS**

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)

#### **Brvant. 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

64

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)

BOOKS BOOKS

#### 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. Beniamin G.

66

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)

#### Savood, 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)

BOOKS BOOKS

## 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.

68

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

## Braake, Myron Plant Pathology (Emeritus)

National Academy of Science Membership

# Kooser, Ted 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

# Van Etten, James Plant Pathology

National Academy of Science Membership

# Abbott, Douglas A. Family & Consumer Sciences

Fulbright Scholar, U.S. Fulbright Foundation

## Albrecht, Julie Nutrition & Health Sciences

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

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

#### Barnes. Paul E. School of Music

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. English

Senior Fellowship, American Council of Learned Societies

#### Bevins, Rick A. Psychology

Fellow, American Psychological Association

#### Braithwaite, Dawn O. Communication Studies

Brommel Award for Family Communication Scholarship, National Communication Association

#### Bryant, 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. Agronomy & 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

## DeFrain, John D. Family & Consumer Sciences

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

# Digman, Lester A. Management Paisitanand, Sineenead Management Lee, Sang M. Management

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

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

70

Gentry, James Marketing Baker, Stacey Marketing Rittenberg, Terri Marketing

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

#### Gladyshev. Vadim Biochemistry

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

#### Gravbill. Andrew R. History

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 Natural Resource Sciences

Fellow, Geological Society of America

## Hayden-Roy, Priscilla A. Modern Languages & Literatures

Humboldt Fellowship - Continuation Grant, Alexander von Humboldt Foundation

### Hefle, Susan L. Food Science & Technology

Special Achievement, Food Allergy and Anaphylaxis Network Dr. Hefle died in August of 2006.

## Hoagland, Kyle D. Natural Resource Sciences

President-Elect, National Institutes for Water Resources

## Housh, Terry Nutrition & Health Sciences

Educator of the Year, National Strength and Conditioning Association

#### Hoy, Roger M. Biological Systems Engineering

President's Leadership Citation, American Society of Agricultural and Biological Engineering

#### Hudgins, Jerry L. Electrical Engineering

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

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 History

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71

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

# Lyons, William H.

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

## Mayo, ZB Agricultural Research Division, Entomology

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

## Niemeyer, Shirley 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. Museum, Entomology

Outstanding Paper of the Year Award, Coleopterists Society

#### Schneiderjans, Marc J. Management

Fellow, Institute of Decision Sciences

72

#### Schubert, Mathias M. Electrical Engineering

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 aequo 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

### Trout, Barbara Textiles, Clothing & Design

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

RECOGNITIONS AND HONORS RECOGNITIONS AND HONORS

#### Willborn, Steven L.

Law

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

## Winkle, Kenneth J.

History

Distinguished Lecturer, 2005-08, Organization of American Historians

Distinguished Book Award for Atlas of the Civil War, Society for Military History

# Woollam, John A.

**Electrical Engineering** 

Fellow, American Vacuum Society

#### Center for Digital Research in the Humanities English

Invited to display information about the Journals of Lewis and Clark Expedition Online and the Walt Whitman Archive for Humanities Advocacy Day, National Humanities Alliance

## Zellmer, Sandra

Law

Senior Specialist, Fulbright Foreign Scholar Member, World Conservation Union Commission on Environmental Law

# Zlotnik, Vitaly A.

Geosciences

Fellow, Geological Society of America

# **Glossary of Federal Agency Abbreviations**

USAID United States Agency for International Development

CNS Corporation for National Service

USDA United States Department of Agriculture

ARS Agricultural Research Service

BRDC Biotechnology Research and Development

Corporation

CSREES Cooperative State Research, Education

& Extension Service

ERS Extension Research Service FAS Foreign Agriculture Service

FS Forestry Service

NRCS Natural Resources 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 Department of Health and Human Services

ACF Administration for Children and Families

CDC Centers for Disease Control NIH National Institutes of Health

Fogarty International Center

NCI National Cancer Institute

NCRR National Center for Research Resources

National Eye Institute

NHLBI National Heart, Lung and Blood Institute

National Institute on Aging

NIAID National Institute on Allergy &

Infectious Diseases

National Institute of Child Health and NICHD

**Human Development** 

NIDCD National Institute on Deafness & Communication Disorders

NIDDK National Institute of Diabetes,

Digestive & Kidney Disease NIDA National Institute on Drug Abuse

National Institute on General **NIGMS** 

Medical Sciences

HMIN National Institute of Mental Health

HUD Department of Housing and Urban Development

Dol Department of Interior

> Bureau of Reclamation BR **FWS** Fish & Wildlife Service GS **Geological Survey**

NPS National Park Service

DoT Department of Transportation Federal Highway Administration

**EPA Environmental Protection Agency** 

**IMLS** Institute of Museum & Library Services

NASA National Aeronautics and Space Administration

> Ames Research Center Goddard Space Flight Center Jet Propulsion Laboratory John Stennis Space Center Lewis Research Center Wallops Flight Facility

NCHRP National Cooperative Highway Research Program

NEA National Endowment for the Arts

NEH National Endowment for the Humanities

NSF National Science Foundation

**EPSCoR** Experimental Program to

Stimulate Cooperative Research

NSA National Security Agency

# Published March 2007 by the UNL Office of Research and Graduate Studies

Graphic Designer: Amy Hensley Cover Graphic: SYM-labs/Alan Jackson/Jackson Studios Contributing Editors: Elizabeth Banset, Mardi Bonner, Norm Braaten, Kim Hachiya, Karen Underwood

**Printed by UNL Printing Services** 

Every effort has been made to verify the accuracy and completeness of submissions. Faculty, department chairs and heads and the deans were invited to submit entries online regarding published books, national and international recognitions, and creative works in fine and performing arts. Information on major sponsored program awards was gathered by the Office of Sponsored Programs. Reports on patents and intellectual property licenses were produced by the Office of Technology Development.

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