

RESEARCH 2008

Kansas State University



OPERATION:
★ ★ ★
MILITARY KIDS



MILITARY
FAMILIES IN
OUR OWN
BACKYARD.

A Report of Research and Sponsored Programs
for Fiscal Year 2008

About the cover:

"Deployment isn't a big thing. It's a million little things. Families go through a lot."

—The clear-eyed sentiments of a Maine National Guard sergeant resound in Kansas and around the world.

Her observation reminds us that sometimes we can overlook the obvious—that it's the children who are especially vulnerable when Mom or Dad is deployed. Military kids have unique needs for support and services, needs that may go unnoticed by teachers and classmates, especially if the family resides in the civilian community not on base.

On behalf of the children of service personnel, the National 4-H Headquarters at the U.S. Department of Agriculture has established partnerships with Army Child, Youth and School Services, Air Force Family Member Programs, Navy Child and Youth Programs, and National Guard and Reserve.

These 4-H Military Partnerships rely on land-grant university faculty and staff to serve as project directors, liaisons, and specialists. As a result of this framework, there's a growing array of expanded military youth programming available in local communities and on military installations around the world.

Kansas State University is a leader in this youth programming effort. KSU faculty from the School of Family Studies and Human Services coordinate the partnerships with all branches of the military. In FY 2008, KSU was awarded almost \$10 million to support such crucial program development.

Here are highlights of **"Operation: Military Kids,"** the Army's collaborative effort with America's communities to support children and youth of National Guard, Reserve and active duty families.

- ★ "Operation: Military Kids," which delivers a wide range of recreational, social and educational programs for military youth living in civilian communities, will become available in all 50 states and the District of Columbia by 2009.
- ★ As part of OMK, more than 47,000 children have received "Hero Packs" since 2004—special backpacks identify them as "military kids" and recognize their sacrifices while a parent is deployed. Hero Packs are filled with items from OMK partner agencies.
- ★ Some 40 Mobile Technology Labs travel the states now. Each lab is equipped with information technology specifically for use by children of military families. Laptops, printers, scanners, laminators, DVD burners, digital cameras and video cameras as well as a variety of software packages are available to help kids stay connected to family.

The 4-H military partnerships also offer:

- 4-H programs on military installations and in communities
- 4-H 101 training for military staff
- Speak Out for Military Kids, a program to help military kids talk about their lives and the impact of deployment and share their experiences with others in their community
- Club grants to support 4-H clubs for military youth and integrate those youth into county 4-H programs
- Day camps, residential camps, workshops, Military Family Days
- Ready, Set, Go! Training to enlist community support for these children.

Websites: www.4-hmilitarypartnerships.org
www.operationmilitarykids.org

Contact Marlene Glasscock, Project Director, research assistant professor, Kansas State University School of Family Studies and Human Services, 785-532-1484, glass@ksu.edu



Vice President for Research

108 Anderson Hall

Manhattan, KS 66506-0113

785-532-5110

Fax: 785-532-6507

November 2008

Dear Colleagues:

Congratulations! In the past fiscal year, faculty researchers received 926 extramural awards totaling \$118 million. Your efforts clearly exceeded expectations in today's aggressive funding environment.

With the inclusion of \$67.3 million of state and federally appropriated funds and \$33.6 million in support from the KSU Foundation, the university's overall research funding base expands to a very impressive \$219 million.

The \$20 million-plus colleges in competitive funding in FY08 are: Arts and Sciences with 169 awards totaling \$25.5 million; Human Ecology with 41 awards totaling \$23.2 million; and Agriculture with 345 awards totaling \$21 million.

Campus-wide there are 16 "million dollar" awards ranging from \$1 million to almost \$10 million. These seven-figure grants are funded by: the Department of Agriculture (4), Department of Defense (4), Department of Education (1), Department of Energy (1), Department of Health and Human Services (2), the Kansas Bioscience Authority (2), the National Academic Advising Association (1) and the National Science Foundation (1). Innumerable "million dollar" K-State investigators contributed to securing these awards; their academic homes are many and varied.

To document the extensive collaboration across campus, we continue listing awards to each member of a research team and indicating the dollar share of the award that is assigned to a department or college. We hope you find this method helpful and equitable.

So, again, congratulations to all K-State faculty, staff and students who have contributed to another remarkably successful funding year. Your accomplishments are truly impressive and noteworthy. And, thank you to all the non-K-State collaborators as well.

Sincerely,

A handwritten signature in black ink that reads 'Ron Trewyn'.

R.W. Trewyn

Vice President for Research

President, KSU Research Foundation

KANSAS STATE UNIVERSITY **RESEARCH/SCHOLARLY ACTIVITY FUNDING BASE**

Fiscal Year 2008

The research funding base at Kansas State University consists of funds appropriated from federal and state sources, gifts from alumni and friends, and awards of extramural funds from federal and state agencies, foundations, and various private and industrial organizations, mainly through the competitive grants process.

I.	<u>SPONSORED</u>	<u>\$117,957,312</u>
II.	<u>APPROPRIATED</u>	
	Main Campus State Appropriation	\$3,210,950
	Experiment Station Programs and Extension Services	
	Federal Appropriation	\$8,738,332
	State Appropriation	\$54,807,626
	Veterinary Medical Center State Appropriation	\$549,889
	<u>SUBTOTAL</u>	<u>\$67,306,797</u>
III.	<u>DONATED*</u>	<u>\$33,601,187</u>
RESEARCH/SCHOLARLY ACTIVITY BASE GRAND TOTAL		<u>\$218,865,296</u>

*KSU Foundation funds transferred to KSU in support of research/ scholarly activity
(excludes transfers to Athletics).

SECTION 1: AWARDS

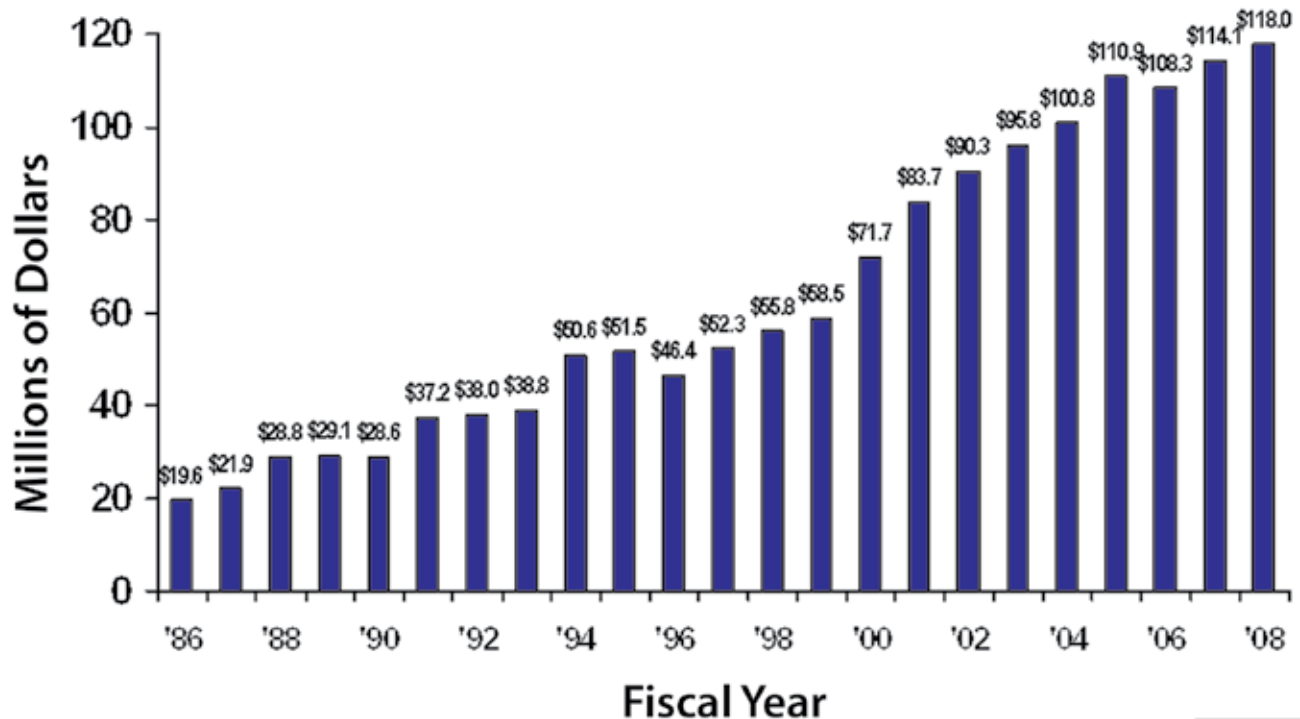
**KANSAS STATE
UNIVERSITY**

SPONSORED RESEARCH FUNDING

Fiscal Years 1986–2008



Kansas State University Competitive Research Awards



K-State

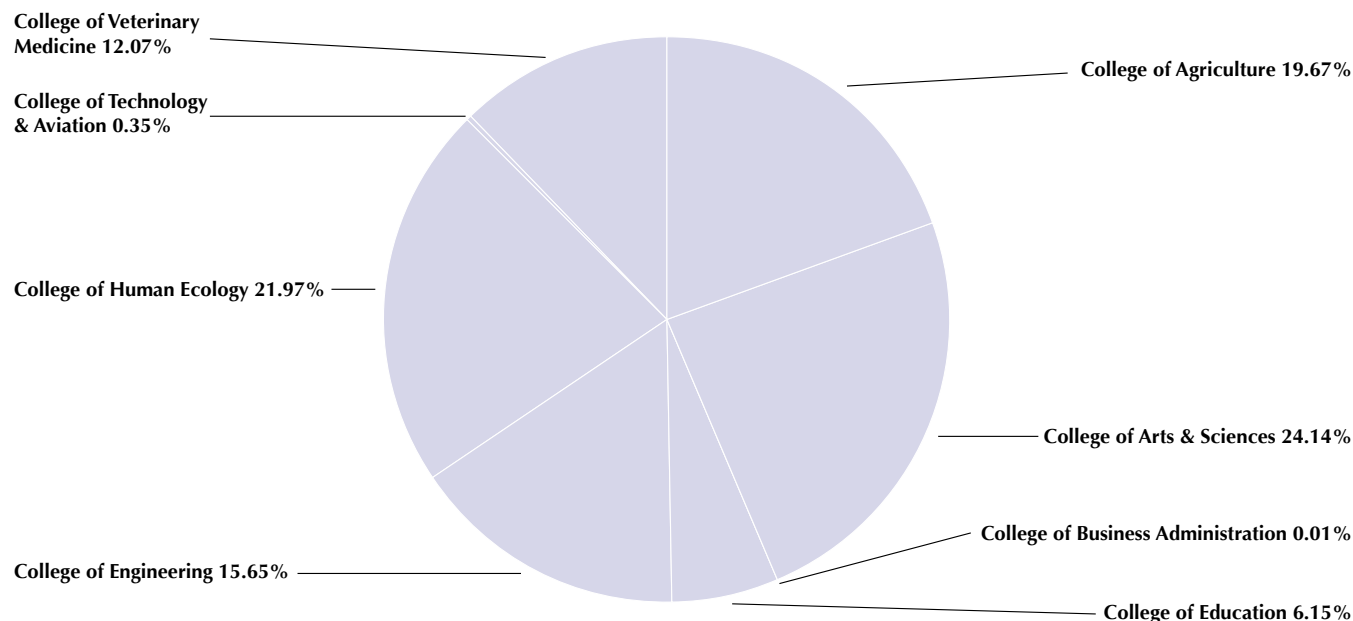
DISTRIBUTION OF NEW AWARDS AMONG COLLEGES AND OFFICES OF THE UNIVERSITY

Fiscal Year 2008

College/Office	Number of Awards	Dollar Value
College of Agriculture	345	20,775,900
College of Arts and Sciences	169	25,501,249
College of Business Administration	1	6,750
College of Education	39	6,494,966
College of Engineering	186	16,536,928
College of Human Ecology	41	23,209,322
College of Technology and Aviation	5	374,095
College of Veterinary Medicine	89	12,748,007
Office of the President	6	2,035,176
Office of the Provost	12	902,728
Vice President for Administration and Finance	1	1,782
Vice President for Institutional Advancement	23	3,112,428
Vice Provost for Information Technology Services	2	51,916
Vice President for Research	7	6,206,066
UNIVERSITY TOTALS	926	\$117,957,312

AWARDS BY COLLEGE

Fiscal Year 2008



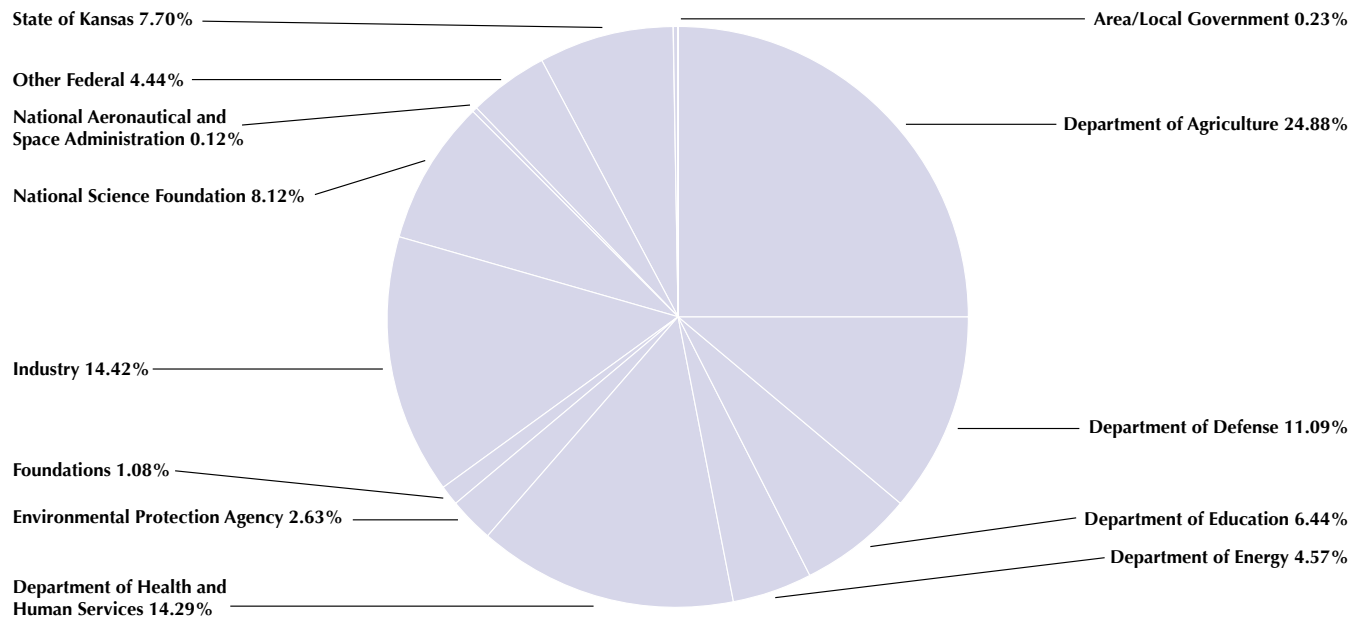
KANSAS STATE UNIVERSITY SOURCES OF AWARDS

Fiscal Year 2008

College/Office	Number of Awards	Dollar Value
Area/Local Government	8	\$265,688
Department of Agriculture	140	\$29,348,006
Department of Defense	45	\$13,078,359
Department of Education	33	\$7,597,093
Department of Energy	30	\$5,390,207
Department of Health and Human Services	84	\$16,850,668
Environmental Protection Agency	40	\$3,098,581
Foundations	37	\$1,278,008
Industry	301	\$17,007,015
National Science Foundation	72	\$9,582,524
National Aeronautics and Space Administration	6	\$145,952
Other Federal	67	\$5,235,908
State of Kansas	63	\$9,079,304
TOTAL	926	\$117,957,312

SOURCES OF AWARDS

Fiscal Year 2008



EXTRAMURAL AWARDS

Fiscal Year 2008 (July 1, 2007–June 30, 2008)

ABOUT THE AWARDS LISTING: Funding for multi-PI projects is allocated to each PI/Department/College based on the percent reporting allocation agreed upon by the project participants and detailed on the executed KSU Sponsored Projects Transmittal Sheet submitted at the time the award was processed.

This method of reporting results in multiple entries for numerous projects; however, only those funds allocated via the “reporting credit percentage” will appear for each PI/Co-PI in their respective department lists. The sum total of all budget entries allocated to each PI/Co-PI and the respective departments for a particular project will amount to the total funds received from the extramural sponsor for the overall project.

For those projects that have multiple PI’s/Co-PI’s, but that show no multiple reporting credit allocations on the Sponsored Projects Transmittal Sheet, the total funding is allocated to the lead-PI and his/her respective department; each Co-PI’s participation on the project is then indicated with a notation in that Co-PI’s department. Of the Co-PI’s name, the project title and sponsor.

We believe this method better reflects the collaborative nature of multi-PI projects and details the actual allocation of funds among project participants and the respective departments and colleges. — Preawards Services

COLLEGE OF AGRICULTURE AND K-STATE RESEARCH AND EXTENSION

AGRICULTURAL ECONOMICS

Amanor-Boadu, Vincent R., Alavi, Sajid (Grain Science and Industry), **Lamsal, Buddhi P.** (Grain Science and Industry), and **Madl, Ronald L.** (Grain Science and Industry), Kansas Soybean Commission, \$5,360, “Bioenergy from Soybean Hulls-Efficiency and Economics of Different Pretreatment Processes.”

Amanor-Boadu, Vincent R., Madl, Ronald L. (Grain Science and Industry), **O’Brien, Daniel M.** (Northwest Area Office), and **Woolverton, Michael W.**, Kansas Soybean Commission, “Soybean Export Trade Enhancement Program.”

Amanor-Boadu, Vincent R., Chambers, Delores H. (Human Nutrition), and **Schmidt, Karen A.** (Animal Sciences and Industry), US Department of Agriculture, \$156,000, “Food Industry Management Enhancement Program.”

Barkley, Andrew P., Dhuyvetter, Kevin C., and Olson, Brian L. (Northwest Area Office), Kansas Crop Improvement Association, \$2,000, “Who Plants Certified Wheat Seed in Kansas, and Why Do They Plant It? The Determinants of Certified Wheat Seed Purchases in Kansas.”

Barnaby Jr, Glenn A., US Department of Agriculture, \$99,876, “Combining AGR-Lite with Other Tools to Manage Farm Level Risk in Kansas and Colorado.”

Bergtold, Jason S., US Department of Agriculture, \$34,200, “Conservation Systems Research for Improving Producer Profitability.”

Boland, Michael A., US Department of Agriculture, \$386,350, “Agricultural Marketing Center.”

Boland, Michael A., and Schurle, Bryan W., US Department of Agriculture, \$133,716, “International Agribusiness Education Task Force.”

Boland, Michael A., US Department of Agriculture, \$75,000, “Restructuring Cooperatives.”

Dhuyvetter, Kevin C., Gordon, Walter B. (Agronomy), **Heer, William F.** (Agronomy), and **Roozeboom, Kraig L.** (Agronomy), Kansas Corn Commission, “Extension and Applied Research Programs for Kansas Corn Production.”

Dhuyvetter, Kevin C., Barkley, Andrew P., and Olson, Brian L. (Northwest Area Office), Kansas Crop Improvement Association, “Who Plants Certified Wheat Seed in Kansas, and Why Do They Plant It? The Determinants of Certified Wheat Seed Purchases in Kansas.”

Dhuyvetter, Kevin C., Blasi, Dale A. (Animal Sciences and Industry), **Schroeder, Ted C., and Stroade, Jeri L.**, US Department of Agriculture, “Benefit Cost Analysis of the National Animal Identification Systems.”

Dhuyvetter, Kevin C., Llewellyn, Richard V., and Mintert, James R., US Department of Agriculture, “Cattle Risk Management in Iowa for Today’s Producers.”

Dhuyvetter, Kevin C., Blasi, Dale A. (Animal Sciences and Industry), and **Schroeder, Ted C.**, US Department of Agriculture, \$14,050, “Impact of Environmental Interferences and Performance Variation on RFID Transponder and Transceiver Reliability and Economic Assessment of RFID Technology Implementation in Animal Production Environments.”

Golden, Billy B., Alam, Mahbub U. (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$83,438, “New Water Management Technologies to Sustain Rural Economics - KSU.”

Herbel, Kevin L., Hund, Duane M., and Jones, Rodney D., US Department of Agriculture, “Transition Planning Assistance for Kansas.”

Hund, Duane M., Herbel, Kevin L., and Jones, Rodney D., US Department of Agriculture, “Transition Planning Assistance for Kansas.”

Jones, Rodney D., Herbel, Kevin L., and Hund, Duane M., US Department of Agriculture, \$50,000, “Transition Planning Assistance for Kansas.”

Kastens, Terry, Aiken, Robert M. (Northwest Research Extension Center), **Kluitenberg, Gerard J.** (Agronomy), **Maddux, Larry D.** (Agronomy), **Mengel, David B.** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.** (Agronomy), Kansas Corn Commission, “Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss.”

Leatherman, John C., and Mankin, Kyle R. (Biological and Agricultural Engineering), US Environmental Protection Agency, \$24,651 (includes \$2,613 from Cooperator Support), “KS WRAPS - Upper Verdigris / Toronto Lake WRAPS Planning.”

Leatherman, John C., and Mankin, Kyle R. (Biological and Agricultural Engineering), US Environmental Protection Agency, \$98,791 (includes \$16,625 from Cooperator Support), “KS WRAPS Cottonwood Development, Assessment & Planning / Neosho Headwaters Assessment and Planning.”

Leatherman, John C., Barnes, Philip L. (Biological and Agricultural Engineering), **Devlin, Daniel L.** (Agronomy), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Mankin, Kyle R.** (Agronomy), and **Pierzynski, Gary M.** (Agronomy), US Environmental Protection Agency, \$123,406 (includes \$15,000 from Cooperator Support), “KS WRAPS KSU SFY 08 Technical Assistance Services.”

Li, Xianghong, and **Peterson, Hikaru H.**, US Department of Agriculture, \$330,000, "The Impacts of Imports and Consolidation on the U.S. Organic Food Systems."

Llewellyn, Richard V., **Dhuyvetter, Kevin C.**, and **Mintert, James R.**, US Department of Agriculture, "Cattle Risk Management in Iowa for Today's Producers."

Llewellyn, Richard V., **Andresen, Daniel A.** (Computing and Information Sciences), **Mintert, James R.**, **Schroeder, Ted C.**, and **Stroade, Jeri L.**, US Department of Agriculture, "Developing an Accessible and Comprehensive Cattle Risk Management Information Library."

Mintert, James R., and **Schurle, Bryan W.**, Kansas Soybean Commission, "Grain Marketing Research and Education in Support of Kansas Soybean Producers."

Mintert, James R., **Dhuyvetter, Kevin C.**, and **Llewellyn, Richard V.**, US Department of Agriculture, \$97,307, "Cattle Risk Management in Iowa for Today's Producers."

Mintert, James R., **Andresen, Daniel A.** (Computing and Information Sciences), **Llewellyn, Richard V.**, **Schroeder, Ted C.**, and **Stroade, Jeri L.**, US Department of Agriculture, "Developing an Accessible and Comprehensive Cattle Risk Management Information Library."

Peterson, Hikaru H., US Department of Agriculture, \$10,428, "Market Risk Analysis for Organic Grain Farmers in the Great Plains."

Peterson, Hikaru H., and **Li, Xianghong**, US Department of Agriculture, "The Impacts of Imports and Consolidation on the U.S. Organic Food Systems."

Schroeder, Ted C., National Cattlemen's Beef Association, \$49,760, "Economic Value of a Beef Tenderness-Based Fed Cattle Valuation Systems."

Schroeder, Ted C., **Blasi, Dale A.** (Animal Sciences and Industry), **Dhuyvetter, Kevin C.**, and **Stroade, Jeri L.**, US Department of Agriculture, \$499,462, "Benefit Cost Analysis of the National Animal Identification Systems."

Schroeder, Ted C., **Andresen, Daniel A.** (Computing and Information Sciences), **Llewellyn, Richard V.**, **Mintert, James R.**, and **Stroade, Jeri L.**, US Department of Agriculture, \$82,610, "Developing an Accessible and Comprehensive Cattle Risk Management Information Library."

Schroeder, Ted C., US Department of Agriculture, \$116,126, "Developing the Cattle Feeding Return Risk Analyzer to Evaluate the Risk Management Mechanisms and Livestock Insurance."

Schroeder, Ted C., US Department of Agriculture, \$35,000, "Efficient Management Strategies for a Contagious Animal Disease Outbreak: Probability Distributions of Economic Impacts from Foot-and-Mouth Disease."

Schroeder, Ted C., **Blasi, Dale A.** (Animal Sciences and Industry), and **Dhuyvetter, Kevin C.**, US Department of Agriculture, "Impact of Environmental Interferences and Performance Variation on RFID Transponder and Transceiver Reliability and Economic Assessment of RFID Technology Implementation in Animal Production Environments."

Schurle, Bryan W., and **Mintert, James R.**, Kansas Soybean Commission, \$5,000, "Grain Marketing Research and Education in Support of Kansas Soybean Producers."

Schurle, Bryan W., and **Boland, Michael A.**, US Department of Agriculture, "International Agribusiness Education Task Force."

Stroade, Jeri L., **Blasi, Dale A.** (Animal Sciences and Industry), **Dhuyvetter, Kevin C.**, and **Schroeder, Ted C.**, US Department of Agriculture, "Benefit Cost Analysis of the National Animal Identification Systems."

Stroade, Jeri L., **Andresen, Daniel A.** (Computing and Information Sciences), **Llewellyn, Richard V.**, **Mintert, James R.**, and **Schroeder, Ted C.**, US Department of Agriculture, "Developing an Accessible and Comprehensive Cattle Risk Management Information Library."

Williams, Jeffery R., **Nelson, Richard G.** (Kansas Industrial Extension Services), **Rice, Charles W.** (Agronomy), and **Staggenborg, Scott A.** (Northeast Area Office), US Department of Energy, "National Carbon Sequestration Database and Geographic Information Systems."

Woolverton, Michael W., **Amanor-Boadu, Vincent R.**, **Madl, Ronald L.** (Grain Science and Industry), and **O'Brien, Daniel M.** (Northwest Area Office), Kansas Soybean Commission, \$11,225, "Soybean Export Trade Enhancement Program."

Woolverton, Michael W., **Madl, Ronald L.** (Grain Science and Industry), **Staggenborg, Scott A.** (Agronomy), and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Transportation, \$5,250, "Develop Comprehensive Understanding and Utilization of Sorghum Stover and Brown Midrib Forage Sorghum for Ethanol Production."

AGRICULTURAL EXPERIMENT STATION

Chumley, Forrest G., and **Stamm, Michael J.** (Agronomy), US Department of Agriculture, \$144,000, "Development and Management of Canola in the Great Plains Region."

Ricketts, Mitchell S., **Gwartz, Jeffrey A.** (Grain Science and Industry), **McKinney, Leland** (Grain Science and Industry), **St John, Rodney A.** (Horticulture, Forestry and Recreation Resources), and **Stevens, Alan B.** (Horticulture, Forestry and Recreation Resources), US Department of Labor, \$116,755, "Powered Industrial Vehicle Training for Hard-to-Reach Small Businesses."

AGRICULTURAL RESEARCH CENTER-HAYS

Brethour, John R., Multisponsor, \$1,000, "Beef Research."

Kofoed, Kenneth D., **Aiken, Robert M.** (Northwest Research Extension Center), and **Prasad, P. V. Vara** (Agronomy), Kansas Grain Sorghum Commission, \$45,000, "Breeding Sorghum with Higher Yield and Improved Drought and Cold Tolerance."

Kofoed, Kenneth D., Multisponsor, \$2,833, "Sorghum Research."

Kobold, Kenneth D., US Department of Agriculture, \$9,561, "Evaluating Photoperiod Sensitive Sorghum Germplasm for Pre- and Post- Flowering Drought Tolerance."

Martin, Terry J., **Fritz, Allan K.** (Agronomy), and **Prasad, P. V. Vara** (Agronomy), Kansas Crop Improvement Association, \$2,200, "Pre-Harvest Sprouting Resistance in Hard White Wheat."

Martin, Terry J., **Bockus, William W.** (Plant Pathology), and **Seifers, Dallas L.**, Kansas Crop Improvement Association, \$6,860, "Use of Virus Induced Stress to Create Genome Mutations that Restore or Create Resistance to Different Fungal Diseases in the Popular Wheat Varieties Jagger, 2137, Karl 92, and Ike."

Martin, Terry J., and **Fritz, Allan K.** (Agronomy), Kansas Wheat Commission, "Improvement of Hard Red Winter Wheat for Kansas."

Martin, Terry J., **Harvey, Tom L.** (Entomology), and **Seifers, Dallas L.**, Kansas Wheat Commission, \$79,135, "Kansas Dual Purpose Pest Resistant White Wheats."

Martin, Terry J., and **Seifers, Dallas L.**, Kansas Wheat Commission, "Replacement of Growth Chambers."

Martin, Terry J., and **Thompson, Carlyle A.**, Multisponsor, "Crop Culture."

Seifers, Dallas L., Bockus, William W. (Plant Pathology), and **Martin, Terry J.**, Kansas Crop Improvement Association, "Use of Virus Induced Stress to Create Genome Mutations that Restore or Create Resistance to Different Fungal Diseases in the Popular Wheat Varieties Jagger, 2137, Karl 92, and Ike."

Seifers, Dallas L., Harvey, Tom L. (Entomology), and **Martin, Terry J.**, Kansas Wheat Commission, "Kansas Dual Purpose Pest Resistant White Wheats."

Seifers, Dallas L., and **Martin, Terry J.**, Kansas Wheat Commission, \$25,000, "Replacement of Growth Chambers."

Stahlman, Phillip W., Multisponsor, \$144,825, "Weed Research."

Stahlman, Phillip W., Olson, Brian L. (Northwest Area Office), **Peterson, Dallas E.** (Agronomy), and **Thompson, Curtis R.** (Agronomy), National Sunflower Association, \$1,500, "Sunflower Response to KIH-485."

Stahlman, Phillip W., National Sunflower Association, \$12,500, "Use of an Experimental Compound to Replace Parquat as a Harvest Aid in Sunflower."

Thompson, Carlyle A., and **Martin, Terry J.**, Multisponsor, \$12,903, "Crop Culture."

AGRONOMY

Al-Khatib, Kassim, and **Pierzynski, Gary M.**, Kansas Grain Sorghum Commission, "Breeding Grain Sorghum for Improved Dryland Production."

Al-Khatib, Kassim, Kansas Grain Sorghum Commission, \$184,000, "Quizalofop (Assure II) Herbicide Registration in Grain Sorghum."

Al-Khatib, Kassim, Monsanto Company, \$6,000, "Dicamba Tolerant Soybeans - Weed Control."

Al-Khatib, Kassim, Pioneer Hi-Bred International, Inc., \$10,000, "Field Trial Agreements."

Al-Khatib, Kassim, Syngenta Corporation, \$14,850, "Fomesafen/Glyphosate Premix: Evaluate Formulated Premix Variants for Weed Control and Crop Tolerance in Soybeans."

Claassen, Mark M., Lingenfelter, Jane E., Regehr, David L., and **Roozeboom, Kraig L.**, Kansas Grain Sorghum Commission, "Extension and Applied Research Programs for Kansas Grain Sorghum Production."

Devlin, Daniel L., and **Barden, Charles J.** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$87,136, "Heartland Integrated Water Quality Coordination Initiative."

Devlin, Daniel L., and **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), US Environmental Protection Agency, \$33,526 (includes \$6,526 from Project Cooperators), "Kansas Watershed Restoration and Protection Strategy—Kanopolis Watershed Restoration and Protection Strategy Implementation Part 2."

Devlin, Daniel L., Barnes, Philip L. (Biological and Agricultural Engineering), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Leatherman, John C.** (Agricultural Economics), **Mankin, Kyle R.**, and **Pierzynski, Gary M.**, US Environmental Protection Agency, \$246,811 (includes \$30,000 from Cooperator Support), "KS WRAPS KSU SFY 08 Technical Assistance Services."

Devlin, Daniel L., US Environmental Protection Agency, \$51,345 (includes \$6,345 from Cooperator Support), "Lower Smoky Hill from Kanopolis Dam to Solomon Watershed Restoration and Protection Strategy Development."

Eberle, William M., and **Presley, DeAnn R.**, Kansas Department of Health and Environment, \$15,002, "Compost Site Development and Operation and Compost Operator Educational and Technical Assistance."

Fick, Walter H., Multisponsor, \$9,250, "Range and Pasture Brush and Weed Control."

Fick, Walter H., Goodin, Douglas G. (Geography), **Ham, Jay M., Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Harrington Jr, John A.** (Geography), and **Murphy, James P.** (Agriculture and Natural Resources), US Department of Agriculture, "Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains."

Fritz, Allan K., Kansas Crop Improvement Association, \$9,600, "Enhanced Disease/Insect Resistance in Kansas-Adapted Wheat Cultivars."

Fritz, Allan K., Martin, Terry J. (Agricultural Research Center-Hays), and **Prasad, P. V. Vara**, Kansas Crop Improvement Association, "Pre-Harvest Sprouting Resistance in Hard White Wheat."

Fritz, Allan K., and **Fellers, John P.** (Plant Pathology), Kansas Wheat Commission, \$12,000, "Developing Multiple Pest Resistant Wheat Germplasm."

Fritz, Allan K., and **Martin, Terry J.** (Agricultural Research Center-Hays), Kansas Wheat Commission, \$117,000, "Improvement of Hard Red Winter Wheat for Kansas."

Fritz, Allan K., Kansas Wheat Commission, \$108,000, "Improvement of Hard White Winter Wheat for Kansas."

Fritz, Allan K., Fellers, John P. (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Wheat Commission, "Wheat Improvement through Genetic Engineering."

Fritz, Allan K., US Department of Agriculture, \$27,805, "Breeding for Resistance to Karnal Bunt in Kansas."

Fritz, Allan K., US Department of Agriculture, \$89,325, "Wheat Applied Genomics."

Gordon, Walter B., Dhuyvetter, Kevin C. (Agricultural Economics), **Heer, William F.**, and **Roozeboom, Kraig L.**, Kansas Corn Commission, "Extension and Applied Research Programs for Kansas Corn Production."

Gordon, Walter B., and **Duncan, Stewart R.** (Northeast Area Office), Kansas Grain Sorghum Commission, \$6,500, "Management Systems for Grain Sorghum Production Under Dryland and Limited Irrigated Conditions."

Gordon, Walter B., Maddux, Larry D., Marsh, Brian H., and **Pierzynski, Gary M.**, Multisponsor, \$71,565, "Soil Fertility and Soil Management Investigations."

Ham, Jay M., Fick, Walter H., Goodin, Douglas G. (Geography), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Harrington Jr, John A.** (Geography), and **Murphy, James P.** (Agriculture and Natural Resources), US Department of Agriculture, \$178,927, "Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains."

Heer, William F., Dhuyvetter, Kevin C. (Agricultural Economics), **Gordon, Walter B.**, and **Roozeboom, Kraig L.**, Kansas Corn Commission, "Extension and Applied Research Programs for Kansas Corn Production."

Janssen, Keith A., Kansas Grain Sorghum Commission, \$6,300, "Evaluation of Strip-Tillage for Grain Sorghum in Kansas."

Janssen, Keith A., and **Thompson, Curtis R.**, Multisponsor, "Field Herbicidal Evaluations."

- Kirkham, Mary B., and Williams, Kimberly A.** (Horticulture, Forestry and Recreation Resources), Fred C. Gloeckner Foundation, Inc., \$5,000, "Causes and Management of the Physiological Disorder Edema on Greenhouse Crops."
- Kluitenberg, Gerard J., Aiken, Robert M.** (Northwest Research Extension Center), **Kastens, Terry** (Agricultural Economics), **Maddux, Larry D., Mengel, David B., Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.**, Kansas Corn Commission, "Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss."
- Kluitenberg, Gerard J.**, Kansas Geological Survey, \$6,250, "A Field Assessment of a Method for Estimation of Ground-Water Consumption by Phreatophytes."
- Kulakow, Peter A., and Erickson, Larry E.** (Center for Hazardous Substance Research), US Department of Energy, \$9,000, "Design and Implementation of Remediation Technologies at Former USDA Grain Bin Sites."
- Lingenfelter, Jane E., Claassen, Mark M., Regehr, David L., and Roozeboom, Kraig L.**, Kansas Grain Sorghum Commission, "Extension and Applied Research Programs for Kansas Grain Sorghum Production."
- Maddux, Larry D., Aiken, Robert M.** (Northwest Research Extension Center), **Kastens, Terry** (Agricultural Economics), **Kluitenberg, Gerard J., Mengel, David B., Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.**, Kansas Corn Commission, "Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss."
- Maddux, Larry D., Gordon, Walter B., Marsh, Brian H., and Pierzynski, Gary M.**, Multisponsor, "Soil Fertility and Soil Management Investigations."
- Mankin, Kyle R., Barnes, Philip L.** (Biological and Agricultural Engineering), **Devlin, Daniel L., Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Leatherman, John C.** (Agricultural Economics), and **Pierzynski, Gary M.**, US Environmental Protection Agency, "KS WRAPS KSU SFY 08 Technical Assistance Services."
- Marsh, Brian H., Gordon, Walter B., Maddux, Larry D., and Pierzynski, Gary M.**, Multisponsor, "Soil Fertility and Soil Management Investigations."
- Mengel, David B., Aiken, Robert M.** (Northwest Research Extension Center), **Kastens, Terry** (Agricultural Economics), **Kluitenberg, Gerard J., Maddux, Larry D., Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.**, Kansas Corn Commission, \$31,120, "Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss."
- Mengel, David B.**, Kansas Grain Sorghum Commission, \$18,000, "Enhancing Sorghum Yield and Profitability through Efficient Nitrogen Management: Phase II."
- Mengel, David B.**, Kansas Soybean Commission, \$7,500, "Correction of Potassium Difficiency in No-till and Strip-till Soybean Production."
- Mengel, David B., Prasad, P. V. Vara, and Staggenborg, Scott A.**, US Agency for International Development, "Integrated Soil, Water and Crop Management Strategies for Improving Productivity in Sorghum and Millet Based Cropping Systems."
- Mengel, David B., and Staggenborg, Scott A.**, Ventria Bioscience, "Development of Rice Production Recommendations in Kansas."
- Peterson, Dallas E., Olson, Brian L.** (Northwest Area Office), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.**, National Sunflower Association, \$3,000, "Sunflower Response to KIH-485."
- Pierzynski, Gary M., and Stamm, Michael J.**, Kansas Crop Improvement Association, \$5,000, "Improving Shatter Resistance of Winter Canola."
- Pierzynski, Gary M.**, Kansas Department of Health and Environment, \$120,361, "Soil Treatment Field Trials - Cherokee County Superfund Site."
- Pierzynski, Gary M., and Al-Khatib, Kassim.** Kansas Grain Sorghum Commission, "Breeding Grain Sorghum for Improved Dryland Production."
- Pierzynski, Gary M., Gordon, Walter B., Maddux, Larry D., and Marsh, Brian H.**, Multisponsor, "Soil Fertility and Soil Management Investigations."
- Pierzynski, Gary M.**, US Department of Agriculture, \$82,185, "Development of Abiotic Stress Resistant Wheat Germplasm."
- Pierzynski, Gary M.**, US Department of Agriculture, \$105,000, "Wind Erosion Prediction Systems (WEPS) User Documentation, Tutorials and Training Materials."
- Pierzynski, Gary M., Barnes, Philip L.** (Biological and Agricultural Engineering), **Devlin, Daniel L., Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Leatherman, John C.** (Agricultural Economics), and **Mankin, Kyle R.**, US Environmental Protection Agency, "KS WRAPS KSU SFY 08 Technical Assistance Services."
- Prasad, P. V. Vara, Fritz, Allan K., and Martin, Terry J.** (Agricultural Research Center-Hays), Kansas Crop Improvement Association, \$8,800, "Pre-Harvest Sprouting Resistance in Hard White Wheat."
- Prasad, P. V. Vara, Aiken, Robert M.** (Northwest Research Extension Center), and **Kofoid, Kenneth D.** (Agricultural Research Center-Hays), Kansas Grain Sorghum Commission, "Breeding Sorghum with Higher Yield and Improved Drought and Cold Tolerance."
- Prasad, P. V. Vara, Price, Randy R.** (Biological and Agricultural Engineering), and **Staggenborg, Scott A.**, Kansas Grain Sorghum Commission, "Developing a Real-time Crop Sensing Systems to Enhance Stress Tolerance Screening."
- Prasad, P. V. Vara, Roozeboom, Kraig L., Vadlani, Praveen V.** (Grain Science and Industry), and **Yu, Jianming.** Kansas Grain Sorghum Commission, \$23,100, "Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production."
- Prasad, P. V. Vara, Little, Christopher R.** (Plant Pathology), **Presley, DeAnn R., and Roozeboom, Kraig L.**, Kansas Soybean Commission, \$6,952, "Influence of Soils, Nutrition, and Water Relations Upon Charcoal Rot Disease Processes in Kansas."
- Prasad, P. V. Vara, and Reese, John C.** (Entomology), North Central Soybean Research Program, \$4,297, "Soybean Responses to Soybean Aphids."
- Prasad, P. V. Vara, Mengel, David B., and Staggenborg, Scott A.**, US Agency for International Development, \$82,500, "Integrated Soil, Water and Crop Management Strategies for Improving Productivity in Sorghum and Millet Based Cropping Systems."
- Presley, DeAnn R., and Eberle, William M.**, Kansas Department of Health and Environment, "Compost Site Development and Operation and Compost Operator Educational and Technical Assistance."
- Presley, DeAnn R., Little, Christopher R.** (Plant Pathology), **Prasad, P. V. Vara, and Roozeboom, Kraig L.**, Kansas Soybean Commission, "Influence of Soils, Nutrition, and Water Relations Upon Charcoal Rot Disease Processes in Kansas."
- Ransom, Michel D.**, US Department of Agriculture, \$10,000, "Soil Laboratory Analysis to Support Soil Properties for Use in Determining How Soils Interpret for Various Uses."

Regehr, David L., Claassen, Mark M., Lingenfelter, Jane E., and Roozeboom, Kraig L., Kansas Grain Sorghum Commission, "Extension and Applied Research Programs for Kansas Grain Sorghum Production."

Rice, Charles W., Holman, Johnathon D. (Southwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Staggenborg, Scott A.**, ICM, Inc., "Biofuel Production from Annual and Perennial Crops in Kansas."

Rice, Charles W., Staggenborg, Scott A., and Wang, Donghai (Biological and Agricultural Engineering), Kansas Grain Sorghum Commission, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

Rice, Charles W., Kansas Technology Enterprise Corporation, \$55,050, "Environmental Protection Agency Proposal."

Rice, Charles W., US Department of Agriculture, \$100,000, "Support Tools for Voluntary Greenhouse Gas Reporting."

Rice, Charles W., US Department of Energy, \$2,000, "Carbon Determination of Soil Samples."

Rice, Charles W., Nelson, Richard G. (Kansas Industrial Extension Services), **Staggenborg, Scott A.** (Northeast Area Office), and **Williams, Jeffery R.** (Agricultural Economics), US Department of Energy, "National Carbon Sequestration Database and Geographic Information Systems."

Roe, Judith L., Das, Sanjoy (Electrical and Computer Engineering), **Hsu, William H.** (Computing and Information Sciences), **Knapp, Mary C.** (Dean of Agriculture and Director of AES), and **Welch, Stephen M.**, National Science Foundation, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

Roozeboom, Kraig L., Dhuyvetter, Kevin C. (Agricultural Economics), **Gordon, Walter B.**, and **Heer, William F.**, Kansas Corn Commission, \$8,988, "Extension and Applied Research Programs for Kansas Corn Production."

Roozeboom, Kraig L., Claassen, Mark M., Lingenfelter, Jane E., and Regehr, David L., Kansas Grain Sorghum Commission, \$5,400, "Extension and Applied Research Programs for Kansas Grain Sorghum Production."

Roozeboom, Kraig L., Prasad, P. V. Vara, Vadlani, Praveen V. (Grain Science and Industry), and **Yu, Jianming**, Kansas Grain Sorghum Commission, "Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production."

Roozeboom, Kraig L., Kansas Soybean Commission, \$5,000, "Extension and Applied Research Programs for Kansas Soybean Production."

Roozeboom, Kraig L., Little, Christopher R. (Plant Pathology), **Prasad, P. V. Vara,** and **Presley, DeAnn R.**, Kansas Soybean Commission, "Influence of Soils, Nutrition, and Water Relations Upon Charcoal Rot Disease Processes in Kansas."

Roozeboom, Kraig L., Multisponsor, \$352,478, "Crop Performance."

Schaffer, Vernon A., Multisponsor, \$8,140, "Foundation Seed Maintenance."

Schapaugh Jr, William T., Buschman, Larry L. (Southwest Research Extension Center), **Sloderbeck, Phillip E.** (Southwest Area Office), **Smith, C. Michael** (Entomology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$3,500, "Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer."

Schapaugh Jr, William T., Todd, Timothy C. (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, "Enhancement of Soybean through Genetic Engineering."

Schapaugh Jr, William T., Reese, John C. (Entomology), **Sloderbeck, Phillip E.** (Southwest Area Office), **Smith, C. Michael** (Entomology), and **Whitworth, Robert "Jeff" J.** (Entomology), Kansas Soybean Commission, \$6,000, "Integrated Pest Management of the Soybean Aphid in Kansas."

Schapaugh Jr, William T., Long Jr, James H. (Southeast Agricultural Research Center), **Todd, Timothy C.** (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$146,250, "Soybean Variety and Germplasm Improvement."

Shroyer, James P., Kansas Wheat Commission, \$3,000, "Wheat Production in Kansas: Extension and Applied Research."

Staggenborg, Scott A., and Duncan, Stewart R. (Northeast Area Office), Cotton Foundation, \$4,000, "Yield Risk Assessment and Support for the Inclusion of Cotton as a Limited Water Use Alternative to Corn Over the Ogallala Aquifer."

Staggenborg, Scott A., Holman, Johnathon D. (Southwest Research Extension Center), **Rice, Charles W.**, and **Schlegel, Alan J.** (Southwest Research Extension Center), ICM, Inc., \$40,880, "Biofuel Production from Annual and Perennial Crops in Kansas."

Staggenborg, Scott A., Prasad, P. V. Vara, and **Price, Randy R.** (Biological and Agricultural Engineering), Kansas Grain Sorghum Commission, "Developing a Real-time Crop Sensing System to Enhance Stress Tolerance Screening."

Staggenborg, Scott A., Rice, Charles W., and Wang, Donghai (Biological and Agricultural Engineering), Kansas Grain Sorghum Commission, \$11,512, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

Staggenborg, Scott A., and Rogers, Danny H. (Biological and Agricultural Engineering), Kansas Grain Sorghum Commission, \$3,240, "Improving Crop Management Decisions with Soil Moisture Monitoring."

Staggenborg, Scott A., Kansas Grain Sorghum Commission, \$6,000, "Improving Understanding of the Mechanisms of Grain Sorghum Drought Tolerance."

Staggenborg, Scott A., Kansas Water Office, \$100,000, "Automated Weather Station."

Staggenborg, Scott A., Mengel, David B., and Prasad, P. V. Vara. US Agency for International Development, "Integrated Soil, Water and Crop Management Strategies for Improving Productivity in Sorghum and Millet Based Cropping Systems."

Staggenborg, Scott A., Alam, Mahbub U. (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.**, US Department of Agriculture, \$111,250, "New Water Management Technologies to Sustain Rural Economics - KSU."

Staggenborg, Scott A., US Department of Energy, \$25,000, "Regional Bioimass Feedstock Partnership."

Staggenborg, Scott A., Madl, Ronald L. (Grain Science and Industry), **Wang, Donghai** (Biological and Agricultural Engineering), and **Woolverton, Michael W.** (Agricultural Economics), US Department of Transportation, \$13,125, "Develop Comprehensive Understanding and Utilization of Sorghum Stover and Brown Midrib Forage Sorghum for Ethanol Production."

Staggenborg, Scott A., and **Wang, Donghai** (Biological and Agricultural Engineering), US Department of Transportation, \$12,409, "Evaluation of Sweet Sorghum Hybrids as a Bioenergy Feedstock for the South Central U.S. - Germplasm Development and Agronomic Practices."

Staggenborg, Scott A., and **Mengel, David B.**, Ventry Bioscience, \$23,360, "Development of Rice Production Recommendations in Kansas."

Stamm, Michael J., and **Pierzynski, Gary M.**, Kansas Crop Improvement Association, "Improving Shatter Resistance of Winter Canola."

Stamm, Michael J., and **Chumley, Forrest G.** (Agricultural Experiment Station), US Department of Agriculture, "Development and Management of Canola in the Great Plains Region."

Stamm, Michael J., US Department of Transportation, \$47,760, "Biodiesel Feedstock Development for the Southern Great Plains."

Stone, Loyd R., **Aiken, Robert M.** (Northwest Research Extension Center), **Kastens, Terry** (Agricultural Economics), **Kluitenberg, Gerard J.**, **Maddux, Larry D.**, **Mengel, David B.**, and **Schlegel, Alan J.** (Southwest Research Extension Center), Kansas Corn Commission, "Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss."

Stone, Loyd R., **Alam, Mahbub U.** (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Staggenborg, Scott A.**, US Department of Agriculture, "New Water Management Technologies to Sustain Rural Economics - KSU."

Thompson, Curtis R., and **Janssen, Keith A.**, Multisponsor, \$293,186, "Field Herbicidal Evaluations."

Thompson, Curtis R., **Olson, Brian L.** (Northwest Area Office), **Peterson, Dallas E.**, and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), National Sunflower Association, "Sunflower Response to KIH-485."

Tuinstra, Mitchell R., US Agency for International Development, \$31,125, "Developing Sorghum with Improved Grain Quality, Agronomic Performance, and Resistance to Biotic and Abiotic Stresses."

Welch, Stephen M., **Das, Sanjoy** (Electrical and Computer Engineering), **Hsu, William H.** (Computing and Information Sciences), **Knapp, Mary C.** (Dean of Agriculture and Director of AES), and **Roe, Judith L.**, National Science Foundation, \$170,918, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

Yu, Jianming, **Prasad, P. V. Vara**, **Roozeboom, Kraig L.**, and **Vadlani, Praveen V.** (Grain Science and Industry), Kansas Grain Sorghum Commission, "Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production."

Yu, Jianming, **Akhunov, Eduard D.** (Plant Pathology), **Brown, Susan J.** (Biology), **Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A.** (Plant Pathology), **Gill, Bikram S.** (Plant Pathology), **Herman, Michael A.** (Biology), **Johnson, Loretta C.** (Biology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C.** (Plant Pathology), **White, Frank F.** (Plant Pathology), and **Zurek, Ludek** (Entomology), Kansas State University, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

ANIMAL SCIENCES AND INDUSTRY

Aramouni, Fadi M., Kansas Department of Commerce, \$10,000, "Equipment Grant."

Aramouni, Fadi M., and **Herald, Thomas J.**, Kansas Department of Commerce, \$70,000, "Food and Feed Value Added Program Project."

Bergstrom, Jonathan R., **DeRouchey, Joel M.**, **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, **Nelssen, Jim L.**, and **Tokach, Michael D.**, Igene Biotechnology, Inc., "The Effects of Aquasta Astaxanthin on Growth Performance and Carcass Composition of Finishing Pigs Fed for 28 Days Pre-Slaughter."

Bergstrom, Jonathan R., **DeRouchey, Joel M.**, **Dritz, Steven S.**, **Goodband, Robert D.**, **Nelssen, Jim L.**, and **Tokach, Michael D.**, Igene Biotechnology, Inc., "The Effects of Feeding Aquasta r Astaxanthin and Payleanr for 27-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 1). & The Effects of Feeding Aquastar Astaxanthin for 43-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 2). Protocol #4192."

Blasi, Dale A., and **Moser, Daniel W.**, Kansas Bioscience Authority, \$25,000, "Value-Added Animal Identification for the US Beef Industry."

Blasi, Dale A., **Dhuyvetter, Kevin C.** (Agricultural Economics), **Schroeder, Ted C.** (Agricultural Economics), and **Stroade, Jeri L.** (Agricultural Economics), US Department of Agriculture, "Benefit Cost Analysis of the National Animal Identification Systems."

Blasi, Dale A., **Dhuyvetter, Kevin C.** (Agricultural Economics), and **Schroeder, Ted C.** (Agricultural Economics), US Department of Agriculture, \$86,307, "Impact of Environmental Interferences and Performance Variation on RFID Transponder and Transceiver Reliability and Economic Assessment of RFID Technology Implementation in Animal Production Environments."

Boyle, Elizabeth, Kansas Department of Commerce, \$16,880, "Value Added Meats Program for Kansas Companies and Entrepreneurs."

Bradford, Barry J., and **Titgemeyer, Evan C.**, American Feed Industry Association, \$15,863, "Assessing the Ability of Molasses to Prevent Milk Fat Depression from Distillers Grains and Solubles."

Bradford, Barry J., and **Titgemeyer, Evan C.**, Lonza, Inc., "Pharmacological Doses of Nicotinic Acid for Cattle."

Bradford, Barry J., Quality Liquid Feeds, Inc., \$27,200, "Effects of NutriCotnT on Diet Digestibility, Feed Intake, Production, and Milk Fatty Acid Profile of High-Producing Dairy Cattle."

Brouk, Micheal J., **Alam, Mahbub U.** (Biological and Agricultural Engineering), **Golden, Billy B.** (Agricultural Economics), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$55,625, "New Water Management Technologies to Sustain Rural Economics - KSU."

Davis, Duane L., **Eborn, Douglas R.**, and **Grieger, David M.**, US Department of Agriculture, \$125,000, "Cloning and Characterization of the 5' and 3' Ends of the Porcine Nanog Gene."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Hill's Pet Nutrition, Inc., "Effect of Cartilage Building Blocks Methionine, Tryptophan, Manganese, Copper, Zinc, Silicon, Lipoic Acid, Proline/ Glycine, and Amino Acid Level, on Osteochondrosis in Pigs."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Igene Biotechnology, Inc., "Evaluation of Astaxanthin as a Nutraceutical Growth Promoter in Starter Diets for Weanling Pigs."

DeRouchey, Joel M., Bergstrom, Jonathan R., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Igene Biotechnology, Inc., "The Effects of Aquasta Astaxanthin on Growth Performance and Carcass Composition of Finishing Pigs Fed for 28 Days Pre-Slaughter."

DeRouchey, Joel M., Bergstrom, Jonathan R., Dritz, Steven S., Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Igene Biotechnology, Inc., "The Effects of Feeding Aquasta r Astaxanthin and Payleanr for 27-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 1). & The Effects of Feeding Aquastar Astaxanthin for 43-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 2). Protocol #4192."

DeRouchey, Joel M., Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Kansas Soybean Commission, "Effects of Corn, Grain Sorghum and Soybean Oil and Meal on Pork Quality."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelson, James C., and Tokach, Michael D.**, Lifeline Foods, LLC, \$12,000, "Evaluation of High Protein DDGS for Swine."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Lucta USA Inc., \$20,000, "Influence of Luctaromr Advance in Creep Feed and on Nursery Diet Complexity."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Houser, Terry A., Hunt, Melvin C., Nelssen, Jim L., and Tokach, Michael D.**, National Pork Board, "Influence of Dietary DDGS and Glycerol on Pork Loin and Bacon Quality."

DeRouchey, Joel M., Behnke, Keith C. (Grain Science and Industry), **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., McKinney, Leland** (Grain Science and Industry), **Nelssen, Jim L., and Tokach, Michael D.**, National Pork Board, \$7,920, "Utilizing Glycerol in Swine Diets: I. Feed Manufacturing Considerations and II. Nutritional Strategies to Reduce Dietary Costs."

DeRouchey, Joel M., Dritz, Steven S., Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Nutra-Flo Protein and Biotech Products, \$10,000, "Evaluation of Pepsoygen and DPS in Diets for Nursery Pigs II."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Nutra-Flo Protein and Biotech Products, \$10,000, "Evaluation of PepSoyoGen and DPS in Diets for Nursery Pigs."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Purco, \$14,000, "PURCO Project."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, Rembrandt Enterprises, "Spray-dried High Protein Egg Product as a Replacement for Spray-dried Animal Plasm and Fish Meal in Nursery Pig Diets."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, VeraSun Energy Corporation, \$31,000, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Finishing Swine."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D.**, VeraSun Energy Corporation, \$12,953, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Swine."

Dritz, Steven S., Bergstrom, Jonathan R., DeRouchey, Joel M., Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Igene Biotechnology, Inc., "The Effects of Feeding Aquasta r Astaxanthin and Payleanr for 27-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 1). & The Effects of Feeding Aquastar Astaxanthin for 43-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 2). Protocol #4192."

Dritz, Steven S., DeRouchey, Joel M., Goodband, Robert D., Nelssen, Jim L., and Tokach, Michael D., Nutra-Flo Protein and Biotech Products, "Evaluation of Pepsoygen and DPS in Diets for Nursery Pigs II."

Drouillard, James S., Buhler AG, \$797,000, "Alternative Method for Manufacturing Thermally Processed Feed Blocks for Livestock."

Drouillard, James S., Dakota Gold Research Association, \$52,500, "Dried Distillers Grains with Solubles In-Kind Contribution."

Drouillard, James S., and Hollis, Larry C., Dakota Gold Research Association, "Influence of Dietary Sulfur Levels with Dried Distillers Grains in Beef Feedlot Diets."

Drouillard, James S., Fort Dodge Animal Health, \$82,403, "Effects of SYNOVEX Plus LA Implants on Performance of Feedlot Heifers in Kansas."

Drouillard, James S., Fort Dodge Animal Health, \$81,827, "The Effects of SYNOVEX Plus LA Implants on Performance of Feedlot Steers in Kansas."

Drouillard, James S., John I. Haas, Inc., \$58,931, "Beta Acid Extracts of Hops: Effects on Ruminant Metabolism and Apparent Total Tract Digestibility in Steers fed High Concentrate Diets."

Drouillard, James S., Kansas Soybean Commission, \$50,000, "Processing Strategies to Increase Value of Soybean Co-Products for Cattle Feeding."

Drouillard, James S., National Cattlemen's Beef Association, \$20,000, "Characterizing Quality and Composition of Beef Derived from Cattle Fed Finishing Diets with or without Distiller's Grains."

Drouillard, James S., National Cattlemen's Beef Association, \$52,610, "Mucins as Growth Factors that Stimulate Colonization of the Bovine Gastrointestinal Tract by E. coli O157:H7."

Drouillard, James S., Nagaraja, Tiruvor G. (Diagnostic Medicine/Pathobiology), and **Renter, David G.** (Diagnostic Medicine/Pathobiology), National Cattlemen's Beef Association, \$36,750, "Strategies to Address Adverse Effects of Distiller's Grains on Prevalence of E. coli O157:H7 in Feedlot Cattle."

Drouillard, James S., and Olson, K C., New Generation Feeds, "Effect on Mineral Supplement Delivery Systems on Mineral Intake, Frequency of Use, and Performance by Beef Cows."

Eborn, Douglas R., Davis, Duane L., and Grieger, David M., US Department of Agriculture, "Cloning and Characterization of the 5' and 3' Ends of the Porcine Nanog Gene."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Tokach, Michael D.**, Hill's Pet Nutrition, Inc., "Effect of Cartilage Building Blocks Methionine, Tryptophan, Manganese, Copper, Zinc, Silicon, Lipoic Acid, Proline/Glycine, and Amino Acid Level, on Osteochondrosis in Pigs."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Tokach, Michael D.**, Igene Biotechnology, Inc., "Evaluation of Astaxanthin as a Neutra-ceutical Growth Promoter in Starter Diets for Weanling Pigs."

Goodband, Robert D., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Tokach, Michael D.**, Igene Biotechnology, Inc., "The Effects of Aquasta Astaxanthin on Growth Performance and Carcass Composition of Finishing Pigs Fed for 28 Days Pre-Slaughter."

Goodband, Robert D., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S., Nelssen, Jim L., and Tokach, Michael D., Igene Biotechnology, Inc., "The Effects of Feeding Aquasta r Astaxanthin and Payleanr for 27-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 1). & The Effects of Feeding Aquastar Astaxanthin for 43-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 2). Protocol #4192."

Goodband, Robert D., DeRouchey, Joel M., Nelssen, Jim L., and **Tokach, Michael D.**, Kansas Soybean Commission, \$24,576, "Effects of Corn, Grain Sorghum and Soybean Oil and Meal on Pork Quality."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelson, James C.**, and **Tokach, Michael D.**, Lifeline Foods, LLC, "Evaluation of High Protein DDGS for Swine."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Tokach, Michael D.**, Lucta USA Inc., "Influence of Luctaromr Advance in Creep Feed and on Nursery Diet Complexity."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Houser, Terry A.**, **Hunt, Melvin C.**, **Nelssen, Jim L.**, and **Tokach, Michael D.**, National Pork Board, "Influence of Dietary DDGS and Glycerol on Pork Loin and Bacon Quality."

Goodband, Robert D., Behnke, Keith C. (Grain Science and Industry), **DeRouchey, Joel M.**, **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **McKinney, Leland** (Grain Science and Industry), **Nelssen, Jim L.**, and **Tokach, Michael D.**, National Pork Board, "Utilizing Glycerol in Swine Diets: I. Feed Manufacturing Considerations and II. Nutritional Strategies to Reduce Dietary Costs."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S., Nelssen, Jim L., and **Tokach, Michael D.**, Nutra-Flo Protein and Biotech Products, "Evaluation of Pepsoygen and DPS in Diets for Nursery Pigs II."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Tokach, Michael D.**, Nutra-Flo Protein and Biotech Products, "Evaluation of PepSoyoGen and DPS in Diets for Nursery Pigs."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Tokach, Michael D.**, Purco, "PURCO Project."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Tokach, Michael D.**, Rembrandt Enterprises, \$30,000, "Spray-dried High Protein Egg Product as a Replacement for Spray-dried Animal Plasm and Fish Meal in Nursery Pig Diets."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Tokach, Michael D.**, VeraSun Energy Corporation, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Finishing Swine."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Nelssen, Jim L.**, and **Tokach, Michael D.**, VeraSun Energy Corporation, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Swine."

Grieger, David M., Davis, Duane L., and **Eborn, Douglas R.**, US Department of Agriculture, "Cloning and Characterization of the 5' and 3' Ends of the Porcine Nanog Gene."

Hancock, Joe D., US Agency for International Development, \$84,580, "Enhancing the Utilization and Marketability of Sorghum and Pearl Millet through Improvements in Grain Quality, Processing Procedures, and Technology Transfer to the Poultry Industry."

Herald, Thomas J., and **Aramouni, Fadi M.**, Kansas Department of Commerce, "Food and Feed Value Added Program Project."

Hollis, Larry C., and **Drouillard, James S.**, Dakota Gold Research Association, \$42,000, "Influence of Dietary Sulfur Levels with Dried Distillers Grains in Beef Feedlot Diets."

Houser, Terry A., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, **Hunt, Melvin C.**, **Nelssen, Jim L.**, and **Tokach, Michael D.**, National Pork Board, \$35,445, "Influence of Dietary DDGS and Glycerol on Pork Loin and Bacon Quality."

Hunt, Melvin C., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, **Houser, Terry A.**, **Nelssen, Jim L.**, and **Tokach, Michael D.**, National Pork Board, "Influence of Dietary DDGS and Glycerol on Pork Loin and Bacon Quality."

Lee, Charles D., Kansas Department of Wildlife and Parks, \$37,271, "Extension Education Position Support."

Lee, Charles D., Nature Conservancy, \$5,000, "Evaluation of Prairie Dog Management Programs on the Nature Conservancy's Smoky Valley Ranch."

Lee, Charles D., US Department of Agriculture, \$1,000, "North Central Regional Aquaculture Center Extension Project."

Lee, Charles D., US Department of the Interior, \$86,000, "Management of Habitat for Reintroduction of Black-Footed Ferrets."

Minton, J. Ernest, Land O'Lakes, Inc., \$25,000, "Endocrine Analyses for Land O'Lakes Purina Equine Studies."

Minton, J. Ernest, and **Erickson, Howard H.** (Anatomy and Physiology), United Feeds, "Omega-3 Fatty Acids for Exercise-Induced Pulmonary Hemorrhage."

Moser, Daniel W., and **Blasi, Dale A.**, Kansas Bioscience Authority, "Value-Added Animal Identification for the US Beef Industry."

Nelson, James C., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Lifeline Foods, LLC, "Evaluation of High Protein DDGS for Swine."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Hill's Pet Nutrition, Inc., \$91,000, "Effect of Cartilage Building Blocks Methionine, Tryptophan, Manganese, Copper, Zinc, Silicon, Lipoic Acid, Proline/Glycine, and Amino Acid Level, on Osteochondrosis in Pigs."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Igene Biotechnology, Inc., \$11,201, "Evaluation of Astaxanthin as a Neutraceutical Growth Promoter in Starter Diets for Weanling Pigs."

Nelssen, Jim L., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Igene Biotechnology, Inc., \$19,000, "The Effects of Aquasta Astaxanthin on Growth Performance and Carcass Composition of Finishing Pigs Fed for 28 Days Pre-Slaughter."

Nelssen, Jim L., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S., Goodband, Robert D., and Tokach, Michael D., Igene Biotechnology, Inc., \$85,645, "The Effects of Feeding Aquasta r Astaxanthin and Payleanr for 27-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 1). & The Effects of Feeding Aquastar Astaxanthin for 43-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 2). Protocol #4192."

Nelssen, Jim L., DeRouchey, Joel M., Goodband, Robert D., and Tokach, Michael D., Kansas Soybean Commission, "Effects of Corn, Grain Sorghum and Soybean Oil and Meal on Pork Quality."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Lucta USA Inc., "Influence of Luctaromr Advance in Creep Feed and on Nursery Diet Complexity."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, **Houser, Terry A.**, **Hunt, Melvin C.**, and **Tokach, Michael D.**, National Pork Board, "Influence of Dietary DDGS and Glycerol on Pork Loin and Bacon Quality."

Nelssen, Jim L., Behnke, Keith C. (Grain Science and Industry), **DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., McKinney, Leland** (Grain Science and Industry), and **Tokach, Michael D.**, National Pork Board, "Utilizing Glycerol in Swine Diets: I. Feed Manufacturing Considerations and II. Nutritional Strategies to Reduce Dietary Costs."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S., Goodband, Robert D., and Tokach, Michael D., Nutra-Flo Protein and Biotech Products, "Evaluation of Pepsogen and DPS in Diets for Nursery Pigs II."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Nutra-Flo Protein and Biotech Products, "Evaluation of PepSoyoGen and DPS in Diets for Nursery Pigs."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Purco, "PURCO Project."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Rembrandt Enterprises, "Spray-dried High Protein Egg Product as a Replacement for Spray-dried Animal Plasm and Fish Meal in Nursery Pig Diets."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, VeraSun Energy Corporation, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Finishing Swine."

Nelssen, Jim L., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, VeraSun Energy Corporation, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Swine."

Nichols, David A., Canadian Department of Foreign Affairs and Int'l Trade, \$9,509, "2007-08 Canadian Studies Program Enhancement Grant."

Nutsch, Abbey L., Getty, Kelly J. K. (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Retzlaff, Deanna D.** (Dean of Continuing Education), US Department of Homeland Security, \$133,508, "Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense."

Odde, Kenneth G., Kansas Beef Council, \$100,000, "Support of Regents Distinguished Professorship in Animal Sciences."

Olson, K C. and **Drouillard, James S.**, New Generation Feeds, \$35,000, "Effect on Mineral Supplement Delivery Systems on Mineral Intake, Frequency of Use, and Performance by Beef Cows."

Phebus, Randall K., Hill's Pet Nutrition, Inc., \$50,000, "Joint Testing Project."

Phebus, Randall K., Hill's Pet Nutrition, Inc., \$50,000, "Testing Project."

Schmidt, Karen A., Amanor-Boadu, Vincent R. (Agricultural Economics), and **Chambers, Delores H.** (Human Nutrition), US Department of Agriculture, "Food Industry Management Enhancement Program."

Stevenson, Jeffrey S., Schering-Plough Animal Health Corporation, \$55,566, "Regression of Corpora Lutea in Response to Estrumate or Lutalyse."

Stevenson, Jeffrey S., Select Sires, \$4,704, "Pregnancy Losses in Dairy Cattle."

Stevenson, Jeffrey S., Select Sires, \$10,000, "Reducing Embryo Losses in Cattle."

Titgemeyer, Evan C., and **Bradford, Barry J.**, American Feed Industry Association, "Assessing the Ability of Molasses to Prevent Milk Fat Depression from Distillers Grains and Solubles."

Titgemeyer, Evan C., and **Bradford, Barry J.**, Lonza, Inc., \$47,820, "Pharmacological Doses of Nicotinic Acid for Cattle."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Hill's Pet Nutrition, Inc., "Effect of Cartilage Building Blocks Methionine, Tryptophan, Manganese, Copper, Zinc, Silicon, Lipoic Acid, Proline/ Glycine, and Amino Acid Level, on Osteochondrosis in Pigs."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Igene Biotechnology, Inc., "Evaluation of Astaxanthin as a Neutraceutical Growth Promoter in Starter Diets for Weanling Pigs."

Tokach, Michael D., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Igene Biotechnology, Inc., "The Effects of Aquasta Astaxanthin on Growth Performance and Carcass Composition of Finishing Pigs Fed for 28 Days Pre-Slaughter."

Tokach, Michael D., Bergstrom, Jonathan R., DeRouchey, Joel M., Dritz, Steven S., Goodband, Robert D., and Nelssen, Jim L., Igene Biotechnology, Inc., "The Effects of Feeding Aquastar Astaxanthin and Paylean for 27-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 1). & The Effects of Feeding Aquastar Astaxanthin for 43-d Pre-Harvest on the Growth Performance, Carcass Composition, and Pork Quality Characteristics of Finishing Pigs (Exp. 2). Protocol #4192."

Tokach, Michael D., DeRouchey, Joel M., Goodband, Robert D., and Nelssen, Jim L., Kansas Soybean Commission, "Effects of Corn, Grain Sorghum and Soybean Oil and Meal on Pork Quality."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelson, James C.**, Lifeline Foods, LLC, "Evaluation of High Protein DDGS for Swine."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Lucta USA Inc., "Influence of Luctaromr Advance in Creep Feed and on Nursery Diet Complexity."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, **Houser, Terry A.**, **Hunt, Melvin C.**, and **Nelssen, Jim L.**, National Pork Board, "Influence of Dietary DDGS and Glycerol on Pork Loin and Bacon Quality."

Tokach, Michael D., Behnke, Keith C. (Grain Science and Industry), **DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., McKinney, Leland** (Grain Science and Industry), and **Nelssen, Jim L.**, National Pork Board, "Utilizing Glycerol in Swine Diets: I. Feed Manufacturing Considerations and II. Nutritional Strategies to Reduce Dietary Costs."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S., Goodband, Robert D., and Nelssen, Jim L., Nutra-Flo Protein and Biotech Products, "Evaluation of Pepsogen and DPS in Diets for Nursery Pigs II."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Nutra-Flo Protein and Biotech Products, "Evaluation of PepSoyoGen and DPS in Diets for Nursery Pigs."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Purco, "PURCO Project."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, Rembrandt Enterprises, "Spray-dried High Protein Egg Product as a Replacement for Spray-dried Animal Plasm and Fish Meal in Nursery Pig Diets."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, VeraSun Energy Corporation, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Finishing Swine."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Nelssen, Jim L.**, VeraSun Energy Corporation, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Swine."

COMMUNICATIONS

Ashlock, Marcus A., and **Boone, Kristina M.**, Kansas Crop Improvement Association, \$7,900, "Seed Selection and Purchasing Decision Resistance and Perceived Risk."

Boone, Kristina M., and **Ashlock, Marcus A.**, Kansas Crop Improvement Association, "Seed Selection and Purchasing Decision Resistance and Perceived Risk."

Terry, Roger V., University of Nebraska, \$32,413, "Provide Leadership for the Communication and Technology Unit."

DEAN OF AGRICULTURE AND DIRECTOR OF AES

Knapp, Mary C., **Das, Sanjoy** (Electrical and Computer Engineering), **Hsu, William H.** (Computing and Information Sciences), **Roe, Judith L.** (Agronomy), and **Welch, Stephen M.** (Agronomy), National Science Foundation, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

Wilson, Ron J., Kansas Agriculture and Rural Leadership, Inc., \$19,546, "Secretarial Support - Huck Boyd National Institute for Rural Development."

ENTOMOLOGY

Beeman, Richard W., **Kanost, Michael R.** (Biochemistry), and **Kramer, Karl J.** (Biochemistry), National Science Foundation, \$163,501, "Collaborative Research: Sclerotization Mechanisms that Control Physical Properties of Insect Cuticle."

Beeman, Richard W., **Arakane, Yasuyuki** (Biochemistry), **Kanost, Michael R.** (Biochemistry), **Kramer, Karl J.** (Biochemistry), and **Muthukrishnan, Subbarat** (Biochemistry), National Science Foundation, \$65,475, "Integrated Functional Genomics Investigation of Chitin Metabolism and its Role in Insect Growth and Development."

Broce, Alberto B., and **Zurek, Ludek**, Multisponsor, \$15,400, "Methods for Control of Livestock Insects."

Chumley, Forrest G., and **Phillips, Thomas W.**, US Department of Agriculture, \$1,146, "USDA/ARS Research Support Agreement."

Cloyd, Raymond A., Fred C. Gloeckner Foundation, Inc., \$10,000, "Efficacy and Characteristics of Plant-Derived Essential Oils Used to Control Greenhouse Arthropod Pests."

Cloyd, Raymond A., **Reese, John C.**, **Whitworth, Robert "Jeff" J.**, and **Wilde, Gerald E.**, Multisponsor, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

Cloyd, Raymond A., Ohio Floriculture Association, \$9,600, "Ohio Floriculture Association Fellowship."

Cloyd, Raymond A., Rutgers University, \$5,000, "IR-4 North Central Region Field Trials - 2007."

Dobesh, Sharon, and **Nechols, James R.**, BASF Corporation, \$2,000, "Efficacy of Termidor (Fipronil 0.06%) for Subterranean Termite Control in Kansas When Applied as an Exterior Perimeter/Localized Interior Treatment."

Dobesh, Sharon, US Department of Agriculture, \$337,216, "Integrated Pest Management (Formula Funds)."

Dobesh, Sharon, US Department of Agriculture, \$24,385, "Pesticide Safety Education Program."

Harvey, Tom L., **Martin, Terry J.** (Agricultural Research Center-Hays), and **Seifers, Dallas L.** (Agricultural Research Center-Hays), Kansas Wheat Commission, \$13,965, "Kansas Dual Purpose Pest Resistant White Wheats."

Marcus, Daniel C., US Department of Health and Human Services, \$60,322, "Epithelial Function in Health and Disease."

Marshall, Jeremy L., National Science Foundation, \$359,317, "Collaborative Research: The Genetics of Postmating, Prezygotic Isolation."

McCornack, Brian P., Monsanto Company, \$7,300, "Soybean Aphid Biotype Summer Study."

Michaud, John P., National Sunflower Association, \$11,005, "Mitigation of Yield Losses to *Dectes texanus* in Rainfed Sunflowers."

Minton, J. Ernest, US Department of Agriculture, \$1,650, "USDA/ARS Research Support Agreement #58-5430-8-806."

Minton, J. Ernest, US Department of Agriculture, \$12,387, "USDA/ARS Research Support Agreement #58-5430-8-807."

Nechols, James R., and **Dobesh, Sharon**, BASF Corporation, "Efficacy of Termidor (Fipronil 0.06%) for Subterranean Termite Control in Kansas When Applied as an Exterior Perimeter/Localized Interior Treatment."

Phillips, Thomas W., US Department of Agriculture, \$222,290, "Evaluation of Potential Alternatives to Methyl Bromide Fumigation in Dry Cured Ham and Aged Cheese Production."

Phillips, Thomas W., US Department of Agriculture, \$86,586, "Facilitate Multiple Pest Resistant Wheat Germplasm Research."

Phillips, Thomas W., US Department of Agriculture, \$30,000, "Molecular Mechanisms of Wheat Resistance to the Hessian Fly."

Phillips, Thomas W., US Department of Agriculture, \$118,260, "Pest Management Strategies for Stored Products: Raw Grain and Value-Added Foods."

Phillips, Thomas W., and **Chumley, Forrest G.**, US Department of Agriculture, "USDA/ARS Research Support Agreement."

Reese, John C., **Schapaugh Jr, William T.** (Agronomy), **Sloderbeck, Phillip E.** (Southwest Area Office), **Smith, C. Michael**, and **Whitworth, Robert "Jeff" J.**, Kansas Soybean Commission, \$24,000, "Integrated Pest Management of the Soybean Aphid in Kansas."

Reese, John C., **Cloyd, Raymond A.**, **Whitworth, Robert "Jeff" J.**, and **Wilde, Gerald E.**, Multisponsor, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

Reese, John C., and **Prasad, P. V. Vara** (Agronomy), North Central Soybean Research Program, \$81,639, "Soybean Responses to Soybean Aphids."

Smith, C. Michael, **Buschman, Larry L.** (Southwest Research Extension Center), **Schapaugh Jr, William T.** (Agronomy), **Sloderbeck, Phillip E.** (Southwest Area Office), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, "Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer."

Smith, C. Michael, **Reese, John C.**, **Schapaugh Jr, William T.** (Agronomy), **Sloderbeck, Phillip E.** (Southwest Area Office), and **Whitworth, Robert "Jeff" J.**, Kansas Soybean Commission, "Integrated Pest Management of the Soybean Aphid in Kansas."

Smith, C. Michael, **Fellers, John P.** (Plant Pathology), and **Whitfield, Anna E.** (Plant Pathology), Kansas Wheat Commission, \$16,920, "Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm."

Whitworth, Robert "Jeff" J., **Reese, John C.**, **Schapaugh Jr, William T.** (Agronomy), **Sloderbeck, Phillip E.** (Southwest Area Office), and **Smith, C. Michael**, Kansas Soybean Commission, "Integrated Pest Management of the Soybean Aphid in Kansas."

Whitworth, Robert "Jeff" J., **Cloyd, Raymond A.**, **Reese, John C.**, and **Wilde, Gerald E.**, Multisponsor, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

Whitworth, Robert "Jeff" J., and **Jardine, Douglas J.** (Plant Pathology), US Department of Agriculture, \$2,049, "Continued Development of the Integrated Pest Management Pest Information Platform for Education and Extension Risk Management Tools, Kansas Component 2007."

Whitworth, Robert "Jeff" J., **Jardine, Douglas J.** (Plant Pathology), and **Stack, James P.** (Plant Pathology), US Department of Agriculture, \$3,176, "Continued Development of the IPM PIPE Risk Management Tool Kansas Component IPM PIPE 2008."

Whitworth, Robert "Jeff" J., and **Sloderbeck, Phillip E.** (Southwest Research Extension Center), US Department of Agriculture, \$17,252, "Implementation and Economic Evaluation of the 'Glance 'n Go' Greenbug+Parasitism Sampling and Management Plan on Winter Wheat in Kansas, Oklahoma, and Texas."

Wilde, Gerald E., **Cloyd, Raymond A.**, **Reese, John C.**, and **Whitworth, Robert "Jeff" J.**, Multisponsor, \$103,575, "Chemical Control of Insect Pests of Corn and Other Field Crops, Small Grain and Forage."

Zurek, Ludek, Akhunov, Eduard D. (Plant Pathology), **Brown, Susan J.** (Biology), **Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A.** (Plant Pathology), **Gill, Bikram S.** (Plant Pathology), **Herman, Michael A.** (Biology), **Johnson, Loretta C.** (Biology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C.** (Plant Pathology), **White, Frank F.** (Plant Pathology), and **Yu, Jianming** (Agronomy), Kansas State University, \$170,000, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Zurek, Ludek, and **Broce, Alberto B.**, Multisponsor, "Methods for Control of Livestock Insects."

Zurek, Ludek, US Department of Health and Human Services, \$100,000, "West Nile Surveillance in the State of Kansas."

FOOD SCIENCE INSTITUTE

Getty, Kelly J. K., **Kastner, Curtis L.**, **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), **Nutsch, Abbey L.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.** (Dean of Continuing Education), US Department of Homeland Security, "Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense."

Kastner, Curtis L., **Getty, Kelly J. K.**, **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), **Nutsch, Abbey L.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.** (Dean of Continuing Education), US Department of Homeland Security, \$13,351, "Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense."

GRAIN SCIENCE AND INDUSTRY

Alavi, Sajid, **Dogan, Hulya**, and **Shi, Yong Cheng**, Frito Lay, Inc., \$32,000, "Effect of Fruit/Vegetable Powders on Physio-Chemical Properties of Starch Based Matrices."

Alavi, Sajid, **Amanor-Boadu, Vincent R.** (Agricultural Economics), **Lamsal, Buddhi P.**, and **Madl, Ronald L.**, Kansas Soybean Commission, \$30,371, "Bioenergy from Soybean Hulls-Efficiency and Economics of Different Pretreatment Processes."

Alavi, Sajid, **Faubion, Jon M.**, **Lamsal, Buddhi P.**, and **Madl, Ronald L.**, Kansas Soybean Commission, \$34,215, "Investigation of Soybean Hull as a Value-Added Feedstock for Bioenergy and Biomaterials."

Alavi, Sajid, PepsiCo International, \$37,880, "Memorandum of Agreement."

Alavi, Sajid, US Department of Agriculture, \$44,946, "Norman E. Borlaug International Agricultural Science and Technology Fellows Program."

Alavi, Sajid, US Department of Agriculture, \$50,000, "Novel Whey Protein and Fruit-Based Expanded Snacks Using Extrusion Processing."

Behnke, Keith C., DeRouchey, Joel M. (Animal Sciences and Industry), **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.** (Animal Sciences and Industry), **McKinney, Leland, Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, "Utilizing Glycerol in Swine Diets: I. Feed Manufacturing Considerations and II. Nutritional Strategies to Reduce Dietary Costs."

Bhadriraju, Subramanyam, Multisponsor, \$50,000, "Grain Science."

Bhadriraju, Subramanyam, and **Maier, Dirk E.**, US Department of Agriculture, "Scale-up of a Nitrogen-based Stored Product Pest Treatment Systems for Container Shipment of Speciality Grains and their Products."

Dogan, Hulya, Alavi, Sajid, and **Shi, Yong Cheng**, Frito Lay, Inc., "Effect of Fruit/Vegetable Powders on Physio-Chemical Properties of Starch Based Matrices."

Faubion, Jon M., Alavi, Sajid, Lamsal, Buddhi P., and **Madl, Ronald L.**, Kansas Soybean Commission, "Investigation of Soybean Hull as a Value-Added Feedstock for Bioenergy and Biomaterials."

Fowler, Mark, McKinney, Leland, and **Miller, Rebecca**, Plains Grains Incorporated, "Great Plains Hard Red Winter Wheat Quality Survey."

Fowler, Mark, and **McKinney, Leland**, US Department of Agriculture, "Memorandum of Agreement."

Gwartz, Jeffrey A., US Department of Agriculture, \$31,784, "Impact of Single Kernal and Bulk Sample Properties on Milling Yield and Economics."

Gwartz, Jeffrey A., McKinney, Leland, Ricketts, Mitchell S. (Agricultural Experiment Station), **St John, Rodney A.** (Horticulture, Forestry and Recreation Resources), and **Stevens, Alan B.** (Horticulture, Forestry and Recreation Resources), US Department of Labor, "Powered Industrial Vehicle Training for Hard-to-Reach Small Businesses."

Howard, John E., Maier, Dirk E., and **McFall, Kendall L.**, Colorado Wheat Administrative Committee, \$10,000, "International Grain Project Wheat Advisory Board."

Howard, John E., Kansas Corn Commission, \$50,000, "Market Development Grant - International Grains Program."

Howard, John E., Kansas Soybean Commission, \$100,000, "Market Development Grant - International Grains Program."

Howard, John E., Maier, Dirk E., and **McFall, Kendall L.**, Kansas Wheat Commission, \$100,000, "Market Development Grant - International Grains Program Support Project."

Howard, John E., Maier, Dirk E., and **McFall, Kendall L.**, Nebraska Wheat Board, \$15,000, "International Grains Program Wheat Advisory Board."

Howard, John E., Maier, Dirk E., and **McFall, Kendall L.**, Oklahoma Wheat Commission, \$15,000, "International Grains Program Wheat Advisory Board."

Howard, John E., Oklahoma Wheat Commission, \$15,000, "International Grains Program Wheat Advisory Board."

Lamsal, Buddhi P., Alavi, Sajid, Amanor-Boadu, Vincent R. (Agricultural Economics), and **Madl, Ronald L.**, Kansas Soybean Commission, "Bioenergy from Soybean Hulls-Efficiency and Economics of Different Pretreatment Processes."

Lamsal, Buddhi P., Alavi, Sajid, Faubion, Jon M., and **Madl, Ronald L.**, Kansas Soybean Commission, "Investigation of Soybean Hull as a Value-Added Feedstock for Bioenergy and Biomaterials."

Madl, Ronald L., Alavi, Sajid, Amanor-Boadu, Vincent R. (Agricultural Economics), and **Lamsal, Buddhi P.**, Kansas Soybean Commission, "Bioenergy from Soybean Hulls-Efficiency and Economics of Different Pretreatment Processes."

Madl, Ronald L., Alavi, Sajid, Faubion, Jon M., and **Lamsal, Buddhi P.**, Kansas Soybean Commission, "Investigation of Soybean Hull as a Value-Added Feedstock for Bioenergy and Biomaterials."

Madl, Ronald L., Amanor-Boadu, Vincent R. (Agricultural Economics), **O'Brien, Daniel M.** (Northwest Area Office), and **Woolverton, Michael W.** (Agricultural Economics), Kansas Soybean Commission, "Soybean Export Trade Enhancement Program."

Madl, Ronald L., and **Vadlani, Praveen V.**, NutraCea, "Rice Bran as a Nutrient Source to Enhance Ethanol Fermentation Efficiency, Feasibility Studies."

Madl, Ronald L., Staggenborg, Scott A. (Agronomy), **Wang, Donghai** (Biological and Agricultural Engineering), and **Woolverton, Michael W.** (Agricultural Economics), US Department of Transportation, \$13,125, "Develop Comprehensive Understanding and Utilization of Sorghum Stover and Brown Midrib Forage Sorghum for Ethanol Production."

Maier, Dirk E., Howard, John E., and **McFall, Kendall L.**, Kansas Wheat Commission, "Market Development Grant - International Grains Program Support Project."

Maier, Dirk E., and **Bhadriraju, Subramanyam**, US Department of Agriculture, \$25,000, "Scale-up of a Nitrogen-based Stored Product Pest Treatment Systems for Container Shipment of Speciality Grains and their Products."

McFall, Kendall L., Howard, John E., and **Maier, Dirk E.**, Kansas Wheat Commission, "Market Development Grant - International Grains Program Support Project."

McKinney, Leland, Lifeline Foods, LLC, \$8,535, "Memorandum of Agreement."

McKinney, Leland, Behnke, Keith C., DeRouchey, Joel M. (Animal Sciences and Industry), **Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, \$23,760, "Utilizing Glycerol in Swine Diets: I. Feed Manufacturing Considerations and II. Nutritional Strategies to Reduce Dietary Costs."

McKinney, Leland, Fowler, Mark, and **Miller, Rebecca**, Plains Grains Incorporated, \$303,586 (includes \$109,000 from KSU Foundation), "Great Plains Hard Red Winter Wheat Quality Survey."

McKinney, Leland, Plains Grains Incorporated, \$49,503, "Memorandum of Agreement."

McKinney, Leland, and **Fowler, Mark**, US Department of Agriculture, \$42,000, "Memorandum of Agreement."

McKinney, Leland, Gwartz, Jeffrey A., Ricketts, Mitchell S. (Agricultural Experiment Station), **St John, Rodney A.** (Horticulture, Forestry and Recreation Resources), and **Stevens, Alan B.** (Horticulture, Forestry and Recreation Resources), US Department of Labor, \$38,918, "Powered Industrial Vehicle Training for Hard-to-Reach Small Businesses."

Miller, Rebecca, Fowler, Mark, and **McKinney, Leland**, Plains Grains Incorporated, "Great Plains Hard Red Winter Wheat Quality Survey."

Shi, Yong Cheng, Alavi, Sajid, and Dogan, Hulya, Frito Lay, Inc., "Effect of Fruit/Vegetable Powders on Physio-Chemical Properties of Starch Based Matrices."

Shi, Yong Cheng, and Wang, Donghai (Biological and Agricultural Engineering), Kansas Corn Commission, \$15,317, "Developing High Solids Enzyme Conversion of Corn Starches and Corn Flours to Reduce the Cost in Ethanol Production."

Shi, Yong Cheng, US Department of Agriculture, \$83,000, "Development of Rapid and Objective Methods for Hard Winter Wheat Quality Testing."

Sun, X. Susan, and Wang, Donghai (Biological and Agricultural Engineering), Kansas Soybean Commission, \$58,944, "Soy Latex Like Adhesives for Glass and Ceramic Consumer Products Labeling."

Sun, X. Susan, PolyOne Corporation, \$15,000, "Bio-Composites Dervied from Renewable Materials."

Sun, X. Susan, and Wang, Donghai (Biological and Agricultural Engineering), US Department of Defense, \$35,000, "Biodegradable Lightweight Fiberboard for Packaging Applications."

Vadlani, Praveen V., Prasad, P. V. Vara (Agronomy), **Roozeboom, Kraig L.** (Agronomy), and **Yu, Jianming** (Agronomy), Kansas Grain Sorghum Commission, \$9,900, "Screening Sorghum Germplasm for Abiotic Stress Tolerance and Biofuel Production."

Vadlani, Praveen V., MeadWestvaco Corporation -North Carolina, \$55,000, "Innovative Bioprocessing of Lignocellulosic Biomass for High Value Products."

Vadlani, Praveen V., and Madl, Ronald L., NutraCea, \$15,780, "Rice Bran as a Nutrient Source to Enhance Ethanol Fermentation Efficiency, Feasibility Studies."

HORTICULTURE, FORESTRY AND RECREATION RESOURCES

Barden, Charles J., and Devlin, Daniel L. (Agronomy), US Department of Agriculture, \$21,784, "Heartland Integrated Water Quality Coordination Initiative."

Bremer, Dale J., International Turf Producers Foundation, \$5,000, "Comparative Irrigation Requirements of 30 Cultivars of Kentucky Bluegrass Under a Large Rainout Facility in the Transition Zone."

Bremer, Dale J., Fry, Jack D., Griffin, Jason, and Keeley, Steven J., Multisponsor, "Turfgrass Investigations."

Bremer, Dale J., Fry, Jack D., Kennelly, Megan (Plant Pathology), and **St John, Rodney A.**, US Golf Association, "Cultural Practices, Environment, and Pathogen Biology: Studies for Improved Management of Large Patch (*Rhizoctonia solani* AG-2-2) Zoysiagrass."

Carey, Edward E., Pakistan Higher Education Commission, \$3,500, "Visiting Scholar Bench Fee."

Carey, Edward E., US Department of Agriculture, \$17,600, "Extension Demonstration in Support of Scaling up Mechanization for Kansas Vegetable Production."

Carey, Edward E., Dzewaltowski, David A. (Community Health Institute), and **Shoemaker, Candice A.**, US Department of Agriculture, "Integrating Schools, Community, and Family to Effect Sedentary Behavior, Fruit and Vegetable Consumption, and Physical Acitivity."

Carey, Edward E., and Griffin, Jason, US Department of Agriculture, \$20,000, "Research and Extension in Support of Kansas Sweetpotato Industry."

Carey, Edward E., US Department of Agriculture, \$19,900, "Sustainable Agriculture Entrepreneurship Certificate Program Partnership between Johnson County Community College and Kansas State University."

Fagerness, Matthew J., Fry, Jack D., and Keeley, Steven J., National Turfgrass Federation, "Turfgrass Testing."

Fry, Jack D., Bremer, Dale J., Griffin, Jason, and Keeley, Steven J., Multisponsor, \$88,500, "Turfgrass Investigations."

Fry, Jack D., Fagerness, Matthew J., and Keeley, Steven J., National Turfgrass Federation, \$5,000, "Turfgrass Testing."

Fry, Jack D., Bremer, Dale J., Kennelly, Megan (Plant Pathology), and **St John, Rodney A.**, US Golf Association, \$23,403, "Cultural Practices, Environment, and Pathogen Biology: Studies for Improved Management of Large Patch (*Rhizoctonia solani* AG-2-2) Zoysiagrass."

Geyer, Wayne A., US Department of Agriculture, \$2,400, "Cimarron National Grassland Research Studies."

Griffin, Jason, Bremer, Dale J., Fry, Jack D., and Keeley, Steven J., Multisponsor, "Turfgrass Investigations."

Griffin, Jason, Schmidt, J. Frank, Family Charitable Foundation, \$3,000, "Evaluation of Ornamental Species for the Great Plains."

Griffin, Jason, and Carey, Edward E., US Department of Agriculture, "Research and Extension in Support of Kansas Sweetpotato Industry."

Janke, Rhonda R., US Department of Agriculture, \$19,993, "Student Farm Teaches Sustainable Farming and Business Skills."

Janke, Rhonda R., US Department of Agriculture, \$16,000, "Winnebago Ethnobotany and Botanical Propagation Project."

Keeley, Steven J., Bremer, Dale J., Fry, Jack D., and Griffin, Jason, Multisponsor, "Turfgrass Investigations."

Keeley, Steven J., Fagerness, Matthew J., and Fry, Jack D., National Turfgrass Federation, "Turfgrass Testing."

Mattson, Richard H., Harvest Greenhouse and Garden Center, \$3,640, "Graduate Research (Fellowship)."

Park, Sunghun, National Horticultural Research Institute, Republic of Korea, \$120,000, "Biotechnology for improving nutritional quality of horticultural crops: Identification and functional characterization of genes regulating biosynthesis and accumulation of micronutrients in vegetable crops."

Reid, William R., Kansas Nut Growers Association, \$1,000, "Pecan Cultivar Evaluation."

Reid, William R., University of Missouri, \$8,672, "Missouri Pecan Growers."

Shoemaker, Candice A., Carey, Edward E., and Dzewaltowski, David A. (Community Health Institute), US Department of Agriculture, \$623,116, "Integrating Schools, Community, and Family to Effect Sedentary Behavior, Fruit and Vegetable Consumption, and Physical Acitivity."

St John, Rodney A., Gwartz, Jeffrey A. (Grain Science and Industry), **McKinney, Leland** (Grain Science and Industry), **Ricketts, Mitchell S.** (Agricultural Experiment Station), and **Stevens, Alan B.**, US Department of Labor, "Powered Industrial Vehicle Training for Hard-to-Reach Small Businesses."

St John, Rodney A., Bremer, Dale J., Fry, Jack D., and Kennelly, Megan (Plant Pathology), US Golf Association, "Cultural Practices, Environment, and Pathogen Biology: Studies for Improved Management of Large Patch (*Rhizoctonia solani* AG-2-2) Zoysiagrass."

Stevens, Alan B., Gwartz, Jeffrey A. (Grain Science and Industry), **McKinney, Leland** (Grain Science and Industry), **Ricketts, Mitchell S.** (Agricultural Experiment Station), and **St John, Rodney A.**, US Department of Labor, \$38,918, "Powered Industrial Vehicle Training for Hard-to-Reach Small Businesses."

Williams, Kimberly A., and Kirkham, Mary B. (Agronomy), Fred C. Gloeckner Foundation, Inc. \$5,000, "Causes and Management of the Physiological Disorder Edema on Greenhouse Crops."

KANSAS CENTER FOR AGRICULTURAL RESOURCES & THE ENVIRONMENT / KANSAS WATER RESOURCE RESEARCH INSTITUTE

Davis, Sherry J., and Kahl, Daniel W., US Environmental Protection Agency, "Melvern Trail Curriculum Development (CWN)."

Devlin, Daniel L., US Environmental Protection Agency, \$5,705 (includes \$705 from Cooperator Support), "Lower Smoky Hill from Kanopolis Dam to Solomon Watershed Restoration and Protection Strategy Development."

Hargrove, William L., City of Horton, KS, \$7,000, "Mission Lake Renovation Support."

Hargrove, William L., and Boggs, Donald L. (Office of Academic Programs), French American Cultural Exchange (FACE) Council, \$11,938 (includes \$2,438 from Student Contributions), "Natural Resources and Environmental Management for Sustainability: An International Joint Program."

Hargrove, William L., Kansas Water Office, \$150,000, "Kansas Water Resources Institute Project Grant Funding, Kansas Water Office Contract Number 08-0128."

Hargrove, William L., Fick, Walter H. (Agronomy), **Goodin, Douglas G.** (Geography), **Ham, Jay M.** (Agronomy), **Harrington Jr, John A.** (Geography), and **Murphy, James P.** (Agriculture and Natural Resources), US Department of Agriculture, \$89,464, "Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains."

Hargrove, William L., Alam, Mahbub U. (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, "New Water Management Technologies to Sustain Rural Economics - KSU."

Hargrove, William L., Mankin, Kyle R. (Biological and Agricultural Engineering), and **Nejadhashemi, Amirpouyan** (Biological and Agricultural Engineering), US Department of the Interior, \$92,335, "Kansas Water Resources Research Institute."

Hargrove, William L., US Environmental Protection Agency, \$120,160 (includes \$30,160 from Sedgwick Co. Extension Council), "EARTH Program."

Hargrove, William L., and Devlin, Daniel L. (Agronomy), US Environmental Protection Agency, \$167,629 (includes \$32,629 from Project Cooperators), "Kansas Watershed Restoration and Protection Strategy -- Kanopolis Watershed Restoration and Protection Strategy Implementation Part 2."

Hargrove, William L., Barnes, Philip L. (Biological and Agricultural Engineering), **Devlin, Daniel L.** (Agronomy), **Leatherman, John C.** (Agricultural Economics), **Mankin, Kyle R.** (Agronomy), and **Pierzynski, Gary M.** (Agronomy), US Environmental Protection Agency, \$205,676 (includes \$25,000 from Cooperator Support), "KS WRAPS KSU SFY 08 Technical Assistance Services."

Hargrove, William L., and Kahl, Daniel W. (Agriculture and Natural Resources), US Environmental Protection Agency, \$119,000 (includes \$7,000 from Various Communities), "PRIDE Initiated Community Water Quality Action Plans Part Two."

Hargrove, William L., US Environmental Protection Agency, \$188,800 (includes \$38,800 from Mini-Grants & Personnel), "Water Quality Improvement through Service Learning - Part 3."

Kahl, Daniel W., and Davis, Sherry J., US Environmental Protection Agency, \$9,397 (includes \$4,320 from Melvern Area Educators), "Melvern Trail Curriculum Development (CWN)."

Mankin, Kyle R., US Environmental Protection Agency, \$8,181 (includes \$781 from Cooperator Support), "Big Hill Creek/Big Hill Lake Watershed Assessment."

NORTHWEST RESEARCH EXTENSION CENTER

Aiken, Robert M., Kastens, Terry (Agricultural Economics), **Kluitenberg, Gerard J.** (Agronomy), **Maddux, Larry D.** (Agronomy), **Mengel, David B.** (Agronomy), **Schlegel, Alan J.** (Southwest Research Extension Center), and **Stone, Loyd R.** (Agronomy), Kansas Corn Commission, "Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss."

Aiken, Robert M., Kofoed, Kenneth D. (Agricultural Research Center-Hays), and **Prasad, P. V. Vara** (Agronomy), Kansas Grain Sorghum Commission, "Breeding Sorghum with Higher Yield and Improved Drought and Cold Tolerance."

Aiken, Robert M., and Olson, Brian L. (Northwest Area Office), Kansas Wheat Commission, \$7,800, "Intensive Wheat Production in Northwest Kansas."

Aiken, Robert M., Multisponsor, \$9,250, "Sunflower Investigations."

Coyne, Patrick J., Multisponsor, \$45,240, "Sunflower Performance Testing Program."

Lamm, Freddie R., and O'Brien, Daniel M. (Northwest Area Office), Kansas Corn Commission, \$20,000, "Optimizing Corn Production Under Deficit Sprinkler Irrigation."

Lamm, Freddie R., Alam, Mahbub U. (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$55,625, "New Water Management Technologies to Sustain Rural Economics - KSU."

OFFICE OF ACADEMIC PROGRAMS

Boggs, Donald L., and Hargrove, William L. (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), French American Cultural Exchange (FACE) Council, \$11,938 (includes \$2,438 from Student Contributions), "Natural Resources and Environmental Management for Sustainability: An International Joint Program."

PLANT PATHOLOGY

Akhunov, Eduard D., Brown, Susan J. (Biology), **Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A., Gill, Bikram S., Herman, Michael A.** (Biology), **Johnson, Loretta C.** (Biology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C., White, Frank F., Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, \$170,000, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Akhunov, Eduard D., Kansas Wheat Commission, \$30,000, "Utilization of Massively Parallel 454 Sequencing Technology for Sequencing the BAC Contig of the Wheat Chromosome 3A Spanning the Agronomic and Quality Gene Loci."

Akhunov, Eduard D., US Department of Agriculture, \$25,000, "Breeding and Development of DNA Markers for Fusarium Head Blight Resistance in Wheat."

Bockus, William W., Martin, Terry J. (Agricultural Research Center-Hays), and **Seifers, Dallas L.** (Agricultural Research Center-Hays), Kansas Crop Improvement Association, \$2,940, "Use of Virus Induced Stress to Create Genome Mutations that Restore or Create Resistance to Different Fungal Diseases in the Popular Wheat Varieties Jagger, 2137, Karl 92, and Ike."

Bockus, William W., Kansas Wheat Commission, \$35,000, "Disease Phenotyping: Determining the Reaction of Wheat Lines to Important Diseases."

Bockus, William W., Multisponsor, \$8,000, "Seed Treatment."

Bockus, William W., US Department of Agriculture, \$26,157, "Development of Scab Resistant Wheat Cultivars for Kansas."

Bockus, William W., US Department of Agriculture, \$52,000, "Mapping and Deployment of QTL for Wheat Resistance to Fusarium Head Blight (FHB)."

Bockus, William W., US Department of Agriculture, \$55,520, "Marker-Assisted Characterization and Selection of Wheat Cultivars for Scab Resistance."

DeWolf, Erick D., Multisponsor, \$14,200, "Winter Wheat Seed Treatment Tests."

DeWolf, Erick D., US Department of Agriculture, \$31,009, "Prediction Models and Improved Pre-Harvest Estimates of Deoxynivalenol."

DeWolf, Erick D., US Department of Agriculture, \$59,836, "Preparing for Wheat Stem Rust Races TTKSK (Ug99) and TTKST: Enhancement of the National Surveillance Network and Development of Management Recommendations."

Fellers, John P., and Fritz, Allan K. (Agronomy), Kansas Wheat Commission, "Developing Multiple Pest Resistant Wheat Germplasm."

Fellers, John P., Smith, C. Michael (Entomology), and **Whitfield, Anna E.**, Kansas Wheat Commission, "Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm."

Fellers, John P., Fritz, Allan K. (Agronomy), and **Trick, Harold N.**, Kansas Wheat Commission, "Wheat Improvement through Genetic Engineering."

Friebe, Bernd, Kansas Crop Improvement Association, \$6,400, "Transfer of New Sources of Barley Yellow Dwarf Resistance from Haynaldia villosa to Adapted Kansas Winter Wheats."

Garrett, Karen A., Akhunov, Eduard D., Brown, Susan J. (Biology), **Caragea, Doina** (Computing and Information Sciences), **Gill, Bikram S., Herman, Michael A.** (Biology), **Johnson, Loretta C.** (Biology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C., White, Frank F., Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Garrett, Karen A., US Agency for International Development, \$144,534, "Adapting to Change in the Andean Highlands: Practices and Strategies to Address Climate and Market Risks in Vulnerable Agro-Ecosystems."

Garrett, Karen A., US Agency for International Development, \$52,000, "Drivers of Varietal Change Assessing Impact of Late Blight Resistant Cultivars."

Garrett, Karen A., US Agency for International Development, \$4,536, "Ecologically-Based Participatory IPM for Southeast Asia."

Garrett, Karen A., US Department of Agriculture, \$7,317, "Karnal Bunt Pest Risk Assessment Research."

Gill, Bikram S., Akhunov, Eduard D., Brown, Susan J. (Biology), **Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A., Herman, Michael A.** (Biology), **Johnson, Loretta C.** (Biology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C., White, Frank F., Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Gill, Bikram S., Kansas Wheat Commission, \$100,000, "Wheat Genetics Resource Center and Its Contribution to the Kansas Wheat Industry."

Gill, Bikram S., US Department of Agriculture, \$29,992, "Alien Chromosome Engineering and the Deployment of a Novel Source of Fusarium Head Blight Resistance in Wheat."

Gill, Bikram S., and Li, Wanlong, US Department of Agriculture, \$400,000, "Genetic Dissection of the Lignocellulosic Pathway of Wheat to Improve Biomass Quality of Grasses as a Feedstock for Biofuels."

Jardine, Douglas J., Multisponsor, \$3,000, "Soybean Foliar Fungicide and Seed Treatment Tests."

Jardine, Douglas J., North Central Soybean Research Program, \$31,875, "Sentinel Plots to Monitor the Spread of Soybean Rust in the US Soybean Production Regions."

Jardine, Douglas J., and Whitworth, Robert "Jeff" J. (Entomology), US Department of Agriculture, \$18,439, "Continued Development of the Integrated Pest Management Pest Information Platform for Education and Extension Risk Management Tools, Kansas Component 2007."

Jardine, Douglas J., Stack, James P., and Whitworth, Robert "Jeff" J. (Entomology), US Department of Agriculture, \$28,581, "Continued Development of the IPM PIPE Risk Management Tool Kansas Component IPM PIPE 2008."

Jardine, Douglas J., US Department of Agriculture, \$10,000, "Managing Frogeye Leaf Spot, Charcoal Rot and Foliar Diseases in the North Central Region."

Kennelly, Megan, Multisponsor, \$30,067, "Evaluation and Testing of Fungicides and Nematicides on Horticultural Crops."

Kennelly, Megan, Bremer, Dale J. (Horticulture, Forestry and Recreation Resources), **Fry, Jack D.** (Horticulture, Forestry and Recreation Resources), and **St John, Rodney A.** (Horticulture, Forestry and Recreation Resources), US Golf Association, \$23,403, "Cultural Practices, Environment, and Pathogen Biology: Studies for Improved Management of Large Patch (Rhizoctonia solani AG-2-2) Zoysiagrass."

Leslie, John F., Kansas State University Foundation, \$25,986, "Non-Conventional Plant Improvement Technology."

Leslie, John F., and Singh, Sukhwinder, Kansas Wheat Commission, "Application of DNA Markers for Developing KB-Resistant Wheat for Kansas."

Leslie, John F., Multisponsor, \$400, "Fusarium Research."

Leslie, John F., US Agency for International Development, \$87,500, "Grain Molds, Mycotoxins and Stalk Rots of Sorghum and Millet."

Leslie, John F., US Department of Agriculture, \$33,907, "Genetic Diversity and Genetic Mapping of *Gibberella zeae*."

Leslie, John F., US Department of Agriculture, \$142,573, "Molecular Genetics of Virulence and Resistance to Wheat Diseases."

Li, Wanlong, and **Gill, Bikram S.**, US Department of Agriculture, "Genetic Dissection of the Lignocellulosic Pathway of Wheat to Improve Biomass Quality of Grasses as a Feedstock for Biofuels."

Little, Christopher R., **Prasad, P. V. Vara** (Agronomy), **Presley, DeAnn R.** (Agronomy), and **Roozeboom, Kraig L.** (Agronomy), Kansas Soybean Commission, \$27,807, "Influence of Soils, Nutrition, and Water Relations Upon Charcoal Rot Disease Processes in Kansas."

Minton, J. Ernest, US Department of Agriculture, \$32,546, "USDA/ARS Research Support Agreement #58-5430-8-808."

Nelson, James C., **Akhunov, Eduard D.**, **Brown, Susan J.** (Biology), **Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A.**, **Gill, Bikram S.**, **Herman, Michael A.** (Biology), **Johnson, Loretta C.** (Biology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **White, Frank F.**, **Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Nelson, James C., US Department of Agriculture, \$22,774, "Coordinated Research, Education, and Extension Project for the Application of Genomic Discoveries to Improve Rice in the United States."

Singh, Sukhwinder, and **Leslie, John F.**, Kansas Wheat Commission, \$11,500, "Application of DNA Markers for Developing KB-Resistant Wheat for Kansas."

Stack, James P., European Commission, \$1,388, "Crop and Food Biosecurity, and Provision of the Means to Anticipate and Tackle Crop Bioterrorism."

Stack, James P., **Jardine, Douglas J.**, and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, "Continued Development of the IPM PIPE Risk Management Tool Kansas Component IPM PIPE 2008."

Stack, James P., US Department of Agriculture, \$139,700, "Continued Development of the IPM PIPE Risk Management Tool RMA 2007."

Stack, James P., US Department of Agriculture, \$870,000, "Great Plains Diagnostic Network."

Stack, James P., US Department of Agriculture, \$10,000, "Plant Diagnostic Laboratories for Plant Disease and Pest Diagnosis and Surveillance (National Network of Diagnostic Centers)."

Todd, Timothy C., **Schapaugh Jr, William T.** (Agronomy), and **Trick, Harold N.**, Kansas Soybean Commission, "Enhancement of Soybean through Genetic Engineering."

Todd, Timothy C., **Long Jr, James H.** (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), and **Trick, Harold N.**, Kansas Soybean Commission, \$56,250, "Soybean Variety and Germplasm Improvement."

Todd, Timothy C., Multisponsor, \$50,000, "Nematode and Soybean Research."

Todd, Timothy C., **Blair, John M.** (Biology), **Herman, Michael A.** (Biology), and **Jones, Kenneth L.** (Biology), National Science Foundation, "Ecological Genomics of Soil Nematode Community Responses: Model and Non-Model Approaches."

Trick, Harold N., **Buschman, Larry L.** (Southwest Research Extension Center), **Schapaugh Jr, William T.** (Agronomy), **Sloderbeck, Phillip E.** (Southwest Area Office), and **Smith, C. Michael** (Entomology), Kansas Soybean Commission, \$3,500, "Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer."

Trick, Harold N., **Schapaugh Jr, William T.** (Agronomy), and **Todd, Timothy C.**, Kansas Soybean Commission, \$107,072, "Enhancement of Soybean through Genetic Engineering."

Trick, Harold N., **Long Jr, James H.** (Southeast Agricultural Research Center), **Schapaugh Jr, William T.** (Agronomy), and **Todd, Timothy C.**, Kansas Soybean Commission, "Soybean Variety and Germplasm Improvement."

Trick, Harold N., **Fellers, John P.**, and **Fritz, Allan K.** (Agronomy), Kansas Wheat Commission, \$52,325, "Wheat Improvement through Genetic Engineering."

Trick, Harold N., Unified to Support Metabolic Disorders, Inc., \$5,000, "Phenylalanine-Free Protein Production in Soybean."

Trick, Harold N., United Soybean Board, \$41,200, "Center for Soybean Tissue Culture and Genetic Engineering: Engineering Soybean for Effective Resistance to Soybean Cyst Nematode."

Valent, Barbara S., National Science Foundation, \$12,115, "Community Annotation Database for *Magnaporthe grisea* and its Interactions with Rice."

Valent, Barbara S., US Department of Agriculture, \$15,000, "Genetic Mechanism Underpinning Race Variation in *Magnaporthe grisea*."

White, Frank F., **Akhunov, Eduard D.**, **Brown, Susan J.** (Biology), **Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A.**, **Gill, Bikram S.**, **Herman, Michael A.** (Biology), **Johnson, Loretta C.** (Biology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C.**, **Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

White, Frank F., and **Yang, Bing**, National Science Foundation, "Molecular Basis of Disease: The Role of the Type III Effector PthXo6 During Bacterial Colonization of Rice."

Whitfield, Anna E., **Fellers, John P.**, and **Smith, C. Michael** (Entomology), Kansas Wheat Commission, \$16,920, "Identification of Wheat Curl Mite and Virus-Resistant Wheat Germplasm."

Whitfield, Anna E., US Department of Agriculture, \$399,500, "Molecular Determinants of Tomato Spotted Wilt Virus Glycoprotein G_n Involved in Virus Acquisition by Thrips and Transmission to Plant Hosts."

Yang, Bing, and **White, Frank F.**, National Science Foundation, \$150,000, "Molecular Basis of Disease: The Role of the Type III Effector PthXo6 During Bacterial Colonization of Rice."

SOUTHEAST AGRICULTURAL RESEARCH CENTER

Kelley, Kenneth W., and **Sweeney, Daniel W.**, Kansas Corn Commission, "Optimizing Seed Planting Rates and Fertilizer Placement to Improve Strip-Till and No-Till Corn Production."

Kelley, Kenneth W., Multisponsor, \$4,000, "Weed Control in Farm Crops."

Long Jr, James H., **Schapaugh Jr, William T.** (Agronomy), **Todd, Timothy C.** (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$22,500, "Soybean Variety and Germplasm Improvement."

Long Jr, James H., National Sunflower Association, \$4,500, "Production Practices for Late-Planted Sunflower in Eastern Kansas."

Moyer, Joseph L., and **Sweeney, Daniel W.**, Multisponsor, "Soil Fertility and Management Investigations in Southeastern Kansas."

Sweeney, Daniel W., and **Kelley, Kenneth W.**, Kansas Corn Commission, \$8,000, "Optimizing Seed Planting Rates and Fertilizer Placement to Improve Strip-Till and No-Till Corn Production."

Sweeney, Daniel W., and **Moyer, Joseph L.**, Multisponsor, \$2,000, "Soil Fertility and Management Investigations in Southeastern Kansas."

SOUTHWEST RESEARCH EXTENSION CENTER

Buschman, Larry L., **Schapaugh Jr, William T.** (Agronomy), **Sloderbeck, Phillip E.** (Southwest Area Office), **Smith, C. Michael** (Entomology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$28,000, "Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer."

Currie, Randall S., Multisponsor, \$32,400, "Weed Control Research in Southwest Kansas."

Currie, Randall S., Pioneer Hi-Bred International, Inc., \$6,000, "Field Trial Agreement."

Holman, Johnathon D., **Rice, Charles W.** (Agronomy), **Schlegel, Alan J.**, and **Staggenborg, Scott A.** (Agronomy), ICM, Inc., "Biofuel Production from Annual and Perennial Crops in Kansas."

Holman, Johnathon D., and **Schlegel, Alan J.**, Multisponsor, "Soil Fertility and Soil Management Research for Western Kansas."

Schlegel, Alan J., **Holman, Johnathon D.**, **Rice, Charles W.** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), ICM, Inc., "Biofuel Production from Annual and Perennial Crops in Kansas."

Schlegel, Alan J., **Aiken, Robert M.** (Northwest Research Extension Center), **Kastens, Terry** (Agricultural Economics), **Kluitenberg, Gerard J.** (Agronomy), **Maddux, Larry D.** (Agronomy), **Mengel, David B.** (Agronomy), and **Stone, Loyd R.** (Agronomy), Kansas Corn Commission, "Managing Nitrogen in Irrigated Corn to Optimize Nitrogen Use and Minimize Nitrogen Loss."

Schlegel, Alan J., Kansas Department of Wildlife and Parks, \$18,000, "Impact of Wheat Stubble Height on Subsequent Crops and Wildlife Habitat in Western Kansas."

Schlegel, Alan J., and **Holman, Johnathon D.**, Multisponsor, \$25,200, "Soil Fertility and Soil Management Research for Western Kansas."

Schlegel, Alan J., **Alam, Mahbub U.** (Biological and Agricultural Engineering), **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Lamm, Freddie R.** (Northwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$139,063, "New Water Management Technologies to Sustain Rural Economics - KSU."

Sloderbeck, Phillip E., and **Whitworth, Robert "Jeff" J.** (Entomology), US Department of Agriculture, "Implementation and Economic Evaluation of the 'Glance 'n Go' Greenbug+ Parasitism Sampling and Management Plan on Winter Wheat in Kansas, Oklahoma, and Texas."

KANSAS COOPERATIVE EXTENSION SERVICE

AGRICULTURE AND NATURAL RESOURCES

Beckman, Jana J., and **Murphy, James P.**, US Department of Agriculture, "Kansas SARE Professional Development Program."

Kahl, Daniel W., and **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), US Environmental Protection Agency, \$15,000, "Healthy Ecosystems, Healthy Communities: PRIDE Initiated Community Water Quality Action Plans."

Kahl, Daniel W., and **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), US Environmental Protection Agency, "PRIDE Initiated Community Water Quality Action Plans Part Two."

Murphy, James P., **Fick, Walter H.** (Agronomy), **Goodin, Douglas G.** (Geography), **Ham, Jay M.** (Agronomy), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), and **Harrington Jr, John A.** (Geography), US Department of Agriculture, \$89,464, "Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains."

Murphy, James P., US Department of Agriculture, \$431,039, "Kansas Agricultural Mediation Service."

Murphy, James P., and **Beckman, Jana J.**, US Department of Agriculture, \$50,000, "Kansas SARE Professional Development Program."

Murphy, James P., US Department of Agriculture, "Memorandum of Understanding between Kansas Agricultural Mediation Service (KAMS) and Kansas Farm Service Agency (FSA)."

Murphy, James P., US Department of Agriculture, \$60, "Memorandum of Understanding between Kansas Agricultural Mediation Services and Kansas Natural Resources Conservation Service."

Murphy, James P., US Department of Agriculture, \$55,145, "NCR-SARE Regional Professional Development Program."

Murphy, James P., US Department of Agriculture, \$93,061, "Renewable Resources Extension Act Program."

DIRECTOR OF COOPERATIVE EXTENSION

Lindquist, Jack W., Kansas Agriculture and Rural Leadership, Inc., \$101,174, "Kansas Agriculture and Rural Leadership, Inc.."

Murphy, James P., US Department of Agriculture, \$400, "Memorandum of Understanding between Kansas Agricultural Mediation Service (KAMS) and Kansas Farm Service Agency (FSA)."

EXTENSION FAMILY AND CONSUMER SCIENCES

Peters, Paula, **Fitzgerald, Karen D.** (Human Nutrition), and **Hudson, Karen S.** (Human Nutrition), US Department of Agriculture, \$3,343,958 (includes \$974,716 from Kansas Counties), "Kansas Food Stamp Nutrition Education Plan."

4-H YOUTH DEVELOPMENT

Fink, Carol J., and **Johannes, Elaine M.** (School of Family Studies and Human Services), US Department of Agriculture, \$135,300, "New Communities Project - Kansas Teen Leadership for Physically Active Lifestyles."

HUMAN NUTRITION

Fitzgerald, Karen D., Hudson, Karen S., and Peters, Paula (Extension Family and Consumer Sciences), US Department of Agriculture, "Kansas Food Stamp Nutrition Education Plan."

Hudson, Karen S., Fitzgerald, Karen D., and Peters, Paula (Extension Family and Consumer Sciences), US Department of Agriculture, "Kansas Food Stamp Nutrition Education Plan."

KANSAS FOREST SERVICE

Aslin, Raymond G., US Department of Agriculture, \$3,984, "Conservation Reserve Program 2007."

Aslin, Raymond G., US Department of Agriculture, \$140,875 (includes \$15,875 from In-Kind Funds), "Consolidated Payment Grant 2007."

Aslin, Raymond G., US Department of Agriculture, \$68,332, "Forest Inventory Analysis - Kansas Forest Inventory."

Aslin, Raymond G., US Department of Agriculture, \$64,452, "Inventory of the Forest Resources of Kansas."

Aslin, Raymond G., US Department of Agriculture, \$2,500 (includes \$500 from Cooperator Support), "Marketing Wood Products Grant."

Aslin, Raymond G., US Department of Agriculture, \$20,000, "Natural Resources Conservation Service Technical Service Provider."

Aslin, Raymond G., US Environmental Protection Agency, \$85,360, "KS WRAPS - Forestry to Protect Water Quality Technical Assistance."

Aslin, Raymond G., US Environmental Protection Agency, \$12,000, "Marais des Cygnes Basin WRAPS Implementation: Riparian Forestry - Part 3."

Aslin, Raymond G., US Environmental Protection Agency, \$58,025, "Marais des Cygnes Basin WRAPS Implementation: Riparian Forestry - Part 4."

KANSAS CENTER FOR AGRICULTURAL RESOURCES & THE ENVIRONMENT / KANSAS WATER RESOURCE RESEARCH INSTITUTE

Hargrove, William L., and Kahl, Daniel W. (Agriculture and Natural Resources), US Environmental Protection Agency, \$5,000, "Healthy Ecosystems, Healthy Communities: PRIDE Initiated Community Water Quality Action Plans."

Hargrove, William L., US Environmental Protection Agency, \$5,146 (includes \$5,146 from Volunteer Support), "KS WRAPS: Kanopolis Reservoir, Big Creek and Middle Smokey Hill River Watersheds."

Mankin, Kyle R., US Environmental Protection Agency, \$8,100 (includes \$500 from Kansas Geological Survey), "KS WRAPS - Upper Arkansas River Basin Watershed Assessment."

NORTHEAST AREA OFFICE

Duncan, Stewart R., and Staggenborg, Scott A. (Agronomy), Cotton Foundation, \$1,000, "Yield Risk Assessment and Support for the Inclusion of Cotton as a Limited Water Use Alternative to Corn Over the Ogallala Aquifer."

Duncan, Stewart R., and Gordon, Walter B. (Agronomy), Kansas Grain Sorghum Commission, "Management Systems for Grain Sorghum Production Under Dryland and Limited Irrigated Conditions."

Duncan, Stewart R., US Department of Agriculture, \$4,500, "Extension Cotton Community of Practice."

Staggenborg, Scott A., Nelson, Richard G. (Kansas Industrial Extension Services), **Rice, Charles W.** (Agronomy), and **Williams, Jeffery R.** (Agricultural Economics), US Department of Energy, "National Carbon Sequestration Database and Geographic Information Systems."

NORTHWEST AREA OFFICE

O'Brien, Daniel M., and Lamm, Freddie R. (Northwest Research Extension Center), Kansas Corn Commission, "Optimizing Corn Production Under Deficit Sprinkler Irrigation."

O'Brien, Daniel M., Amanor-Boadu, Vincent R. (Agricultural Economics), **Madl, Ronald L.** (Grain Science and Industry), and **Woolverton, Michael W.** (Agricultural Economics), Kansas Soybean Commission, "Soybean Export Trade Enhancement Program."

Olson, Brian L., Barkley, Andrew P. (Agricultural Economics), and **Dhuyvetter, Kevin C.** (Agricultural Economics), Kansas Crop Improvement Association, "Who Plants Certified Wheat Seed in Kansas, and Why Do They Plant It? The Determinants of Certified Wheat Seed Purchases in Kansas."

Olson, Brian L., and Aiken, Robert M. (Northwest Research Extension Center), Kansas Wheat Commission, \$5,200, "Intensive Wheat Production in Northwest Kansas."

Olson, Brian L., Peterson, Dallas E. (Agronomy), **Stahlman, Phillip W.** (Agricultural Research Center-Hays), and **Thompson, Curtis R.** (Agronomy), National Sunflower Association, \$1,500, "Sunflower Response to KIH-485."

NUTRITION PROGRAM

Fitzgerald, Karen D., and Peters, Paula, United Methodist Health Ministry Fund, \$43,035, "Moove to Lowfat Dairy."

Hudson, Karen S., and Peters, Paula, United Methodist Health Ministry Fund, \$18,000, "Healthy Hispanic Families."

Peters, Paula, and Hudson, Karen S., United Methodist Health Ministry Fund, "Healthy Hispanic Families."

Peters, Paula, and Fitzgerald, Karen D., United Methodist Health Ministry Fund, "Moove to Lowfat Dairy."

SOUTHWEST AREA OFFICE

Alam, Mahbub U., and Rogers, Danny H. (Biological and Agricultural Engineering), Kansas Water Office, "K-State Mobile Irrigation Lab."

Bolton, Debra, Bopp, Melissa (Community Health Institute), **Fallon, Elizabeth A.** (Community Health Institute), and **Kaczynski, Andrew** (Community Health Institute), Sunflower Foundation, "Addressing Hispanic Health in Southwest Kansas: A Community Resource Assessment."

Sloderbeck, Phillip E., Buschman, Larry L. (Southwest Research Extension Center), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, "Development of Soybean Host Plant Resistance and Other Management Options for the Soybean Stem Borer."

Sloderbeck, Phillip E., Reese, John C. (Entomology), **Schapaugh Jr, William T.** (Agronomy), **Smith, C. Michael** (Entomology), and **Whitworth, Robert "Jeff" J.** (Entomology), Kansas Soybean Commission, "Integrated Pest Management of the Soybean Aphid in Kansas."

COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN

LANDSCAPE ARCHITECTURE/REGIONAL AND COMMUNITY PLANNING

Keane, Timothy D., Hutchinson, J. M. Shawn (Geography), and **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), City of Mission, KS, "Stormwater Best Management Practice Evaluation and Design."

COLLEGE OF ARTS AND SCIENCES

BIOCHEMISTRY

Arakane, Yasuyuki, Beeman, Richard W. (Entomology), **Kanost, Michael R., Kramer, Karl J., and Muthukrishnan, Subbarat,** National Science Foundation, "Integrated Functional Genomics Investigation of Chitin Metabolism and its Role in Insect Growth and Development."

Gorman, Maureen J., Hua, Duy H. (Chemistry), and **Kanost, Michael R.,** US Department of Health and Human Services, "Function of Laccases in *Anopheles gambiae*."

Kanost, Michael R., Beeman, Richard W. (Entomology), and **Kramer, Karl J.,** National Science Foundation, \$490,503, "Collaborative Research: Sclerotization Mechanisms that Control Physical Properties of Insect Cuticle."

Kanost, Michael R., Arakane, Yasuyuki, Beeman, Richard W. (Entomology), **Kramer, Karl J., and Muthukrishnan, Subbarat,** National Science Foundation, "Integrated Functional Genomics Investigation of Chitin Metabolism and its Role in Insect Growth and Development."

Kanost, Michael R., Gorman, Maureen J., and Hua, Duy H. (Chemistry), US Department of Health and Human Services, \$340,178, "Function of Laccases in *Anopheles gambiae*."

Kanost, Michael R., US Department of Health and Human Services, \$302,950, "Proteinase Systems in Insect Hemolymph."

Kramer, Karl J., Beeman, Richard W. (Entomology), and **Kanost, Michael R.,** National Science Foundation, "Collaborative Research: Sclerotization Mechanisms that Control Physical Properties of Insect Cuticle."

Kramer, Karl J., Arakane, Yasuyuki, Beeman, Richard W. (Entomology), **Kanost, Michael R., and Muthukrishnan, Subbarat,** National Science Foundation, "Integrated Functional Genomics Investigation of Chitin Metabolism and its Role in Insect Growth and Development."

Marcus, Daniel C., US Department of Health and Human Services, \$116,336, "Epithelial Function in Health and Disease."

Muthukrishnan, Subbarat, Arakane, Yasuyuki, Beeman, Richard W. (Entomology), **Kanost, Michael R., and Kramer, Karl J.,** National Science Foundation, \$196,425, "Integrated Functional Genomics Investigation of Chitin Metabolism and its Role in Insect Growth and Development."

Reeck, Gerald R., Welte, Ruth (Biology), and **Zufferey, Rachel,** US Department of Health and Human Services, "Phosphatidylcholine Biosynthesis and Anti-Cancer Agent Miltefosin (mentor)."

Takemoto, Dolores J., and Hua, Duy H. (Chemistry), Kansas City Area Life Sciences Institute, \$30,000, "Control of Gap Junctions as a Neuro-Protective Therapy."

Takemoto, Dolores J., and Wei, Qize, US Department of Health and Human Services, "MyoGEF in Cancer Cell Migration and Mouse Embryogenesis (Mentor)."

Takemoto, Dolores J., US Department of Health and Human Services, \$45,500, "Protein Kinase C in the Lens."

Tomich, John M., and Beard, Warren L. (Clinical Sciences), Pegasus Laboratories Inc., \$7,500, "Wound Healing Project."

Tomich, John M., Chen, Jianhan, and Schultz, Bruce D. (Anatomy and Physiology), US Department of Health and Human Services, \$217,760, "Model Synthetic Channel Assemblies."

Wei, Qize, US Department of Health and Human Services, \$10,000, "K-INBRE Faculty Scholar Award."

Wei, Qize, US Department of Health and Human Services, \$289,566, "MyoGEF in Cancer Cell Migration and Mouse Embryogenesis."

Wei, Qize, and Takemoto, Dolores J., US Department of Health and Human Services, \$23,499, "MyoGEF in Cancer Cell Migration and Mouse Embryogenesis (Mentor)."

Zolkiewski, Michal, Dystonia Medical Research Foundation, \$50,000, "Research Services Agreement."

Zufferey, Rachel, American Heart Association, Inc., \$65,000, "Ether Phospholipid Biosynthesis and Virulence in the Human Parasite *Leishmania*."

Zufferey, Rachel, Reeck, Gerald R., and Welte, Ruth (Biology), US Department of Health and Human Services, \$13,074, "Phosphatidylcholine Biosynthesis and Anti-Cancer Agent Miltefosin (mentor)."

Zufferey, Rachel, and Welte, Ruth (Biology), US Department of Health and Human Services, \$149,431, "Phosphatidylcholine Biosynthesis and Anticancer Agent Miltefosine."

BIOLOGY

Asano, Katsura, and Singh, Chingakham R., US Department of Health and Human Services, "Role of RNA-Binding Initiation Factors in Protein Synthesis."

Asano, Katsura, US Department of Health and Human Services, \$277,400, "Studies on Start Codon Selection by Eukaryotic Ribosomes."

Beeser, Alexander E., US Department of Health and Human Services, \$289,566, "Identification of in vivo Pak 1 Protein Kinase Inhibitors."

Beeser, Alexander E., and Denell, Robin E., US Department of Health and Human Services, \$29,776, "Identification of in Vivo Pak 1 Protein Kinase Inhibitors (Mentor)."

Blair, John M., Herman, Michael A., Jones, Kenneth L., and Todd, Timothy C. (Plant Pathology), National Science Foundation, "Ecological Genomics of Soil Nematode Community Responses: Model and Non-Model Approaches."

Blair, John M., Dodds, Walter K., Hartnett, David C., Joern, Anthony, and Nippert, Jesse B., National Science Foundation, \$820,000, "Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change."

Blair, John M., Dodds, Walter K., Harrington Jr, John A. (Geography), and **Steward, David R.** (Civil Engineering), National Science Foundation, "Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains."

Blair, John M., US Department of Agriculture, \$148,108, "Grassland Structure and Function in Response to Warming and More Extreme Precipitation Patterns."

Blair, John M., US Department of Energy, \$83,121, "Interactive Effects of Altered Rainfall Timing and Elevated Temperature on Soil Communities and Processes."

Blecha, Kevin A., Conard, Jonathan M., and Gipson, Philip S., US Department of the Interior, "Chronic Wasting Disease - Whitetail Deer - Kansas."

Brown, Susan J., Akhunov, Eduard D. (Plant Pathology), **Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A.** (Plant Pathology), **Gill, Bikram S.** (Plant Pathology), **Herman, Michael A., Johnson, Loretta C., Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C.** (Plant Pathology), **White, Frank F.** (Plant Pathology), **Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, \$170,000, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Brown, Susan J., US Department of Health and Human Services, \$33,800, "Bioinformatics Core R&D, Lipidomics Bioinformatics: Lipidome DB, Statistical Applications and Data Processing."

Brown, Susan J., US Department of Health and Human Services, \$316,549, "KSU Bioinformatics Core."

Chapes, Stephen K., National Aeronautics and Space Administration, \$18,000, "Differentiation of Bone Marrow Macrophages in Space."

Chapes, Stephen K., and Ganta, Roman Reddy R. (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$26,951, "Cellular Immunity Against *Ehrlichia chaffeensis*."

Chapes, Stephen K., US Department of Health and Human Services, \$227,298, "KSU Undergraduate Support Core."

Chapes, Stephen K., US Department of Health and Human Services, \$19,500, "Summer Scholars: Bean, Wimberly, McCall, Wilkins, Gallagher, Martinez."

Chapes, Stephen K., US Department of Health and Human Services, \$23,400, "Summer Scholars: Buseman, Blaesi, Durst, Suozzo, Atkinson, Bowie, Asmamaw, Okonoboh."

Chapes, Stephen K., US Department of Health and Human Services, \$39,000, "Three Star Trainees: Cain, Madgwick, Roberts."

Clem, Rollie J., and Michel, Kristin, US Department of Health and Human Services, \$35,000, "Core Facility Support - Walk-In Environmental Chamber."

Conard, Jonathan M., Blecha, Kevin A., and Gipson, Philip S., US Department of the Interior, "Chronic Wasting Disease - Whitetail Deer - Kansas."

Conrad, Gary W., US Department of Health and Human Services, \$347,338, "Fibroblast Differentiation During Eye Development."

Cully, Jr., Jack F., and Wisely, Samantha, US Department of the Interior, "Biogeography and Molecular Epidemiology of the PRNP Gene in Kansas."

Cully, Jr., Jack F., US Department of the Interior, \$230,000, "Status and Management of Black-tailed Prairie Dogs on Small Cultural Parks of the Western Great Plains."

Denell, Robin E., National Science Foundation, \$140,000, "Evolution of Genetic Mechanisms Controlling Developmental Fate."

Denell, Robin E., and Beeser, Alexander E., US Department of Health and Human Services, "Identification of in Vivo Pak 1 Protein Kinase Inhibitors (Mentor)."

Dodds, Walter K., Blair, John M., Hartnett, David C., Joern, Anthony, and Nippert, Jesse B., National Science Foundation, "Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change."

Dodds, Walter K., Blair, John M., Harrington Jr, John A. (Geography), and **Steward, David R.** (Civil Engineering), National Science Foundation, \$1,159,412, "Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains."

Ferguson, Carolyn J., and Mayfield, Mark H., National Science Foundation, \$139,458, "Computerization of the Kansas State University Herbarium: Digitizing a Critical Biodiversity Collection for the Great Plains."

Fleming, Sherry D., American Heart Association, Heartland Affiliate, \$71,499, "Toll-Like Receptors Alter Ischemia/Reperfusion-Induced Vascular Permeability."

Fleming, Sherry D., US Department of Health and Human Services, \$10,000, "K-INBRE Faculty Scholar Award."

Fleming, Sherry D., US Department of Health and Human Services, \$322,259, "Natural Antibodies and Tissue Injury."

Gido, Keith B., US Department of the Interior, \$168,000, "Trophic Studies on the Gila River."

Gido, Keith B., US Department of the Interior, \$46,193, "Viability of Fragmented Streams in Kansas."

Gipson, Philip S., Blecha, Kevin A., and Conard, Jonathan M., US Department of the Interior, \$39,000, "Chronic Wasting Disease - Whitetail Deer - Kansas."

Hancock, Lynn E., American Heart Association, Midwest Affiliate, \$71,500, "Role of Proteases in Pathogenesis of *Enterococcus faecalis* endocarditis."

Hartnett, David C., and Joern, Anthony, Kansas State University, "Enhancing Excellence in Grassland Ecology: An Institute for Grassland Studies at KSU."

Hartnett, David C., Blair, John M., Dodds, Walter K., Joern, Anthony, and Nippert, Jesse B., National Science Foundation, "Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change."

Hartnett, David C., US Department of Agriculture, \$467,672 (includes \$68,288 from Oklahoma State University), "Bud Bank Demography: A New Approach to Assessment of Rangeland Health and Response to Environmental Change."

Herman, Michael A., Akhunov, Eduard D. (Plant Pathology), **Brown, Susan J., Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A.** (Plant Pathology), **Gill, Bikram S.** (Plant Pathology), **Johnson, Loretta C., Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C.** (Plant Pathology), **White, Frank F.** (Plant Pathology), **Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Herman, Michael A., Blair, John M., Jones, Kenneth L., and Todd, Timothy C. (Plant Pathology), National Science Foundation, \$622,598, "Ecological Genomics of Soil Nematode Community Responses: Model and Non-Model Approaches."

Hirt, Helmut, Hosni, Mohammad H. (Mechanical and Nuclear Engineering), **Jones, Byron W.** (Institute for Environmental Research), and **Smith, Andrew T.** (Salina Aviation), Kansas State University, \$192,000, "Aircraft Cabin Environmental Security Proposal."

Joern, Anthony, and Hartnett, David C., Kansas State University, \$515,000, "Enhancing Excellence in Grassland Ecology: An Institute for Grassland Studies at KSU."

Joern, Anthony, Blair, John M., Dodds, Walter K., Hartnett, David C., and Nippert, Jesse B., National Science Foundation, "Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change."

Johnson, Loretta C., Akhunov, Eduard D. (Plant Pathology), **Brown, Susan J., Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A.** (Plant Pathology), **Gill, Bikram S.** (Plant Pathology), **Herman, Michael A., Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C.** (Plant Pathology), **White, Frank F.** (Plant Pathology), **Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Jones, Kenneth L., Blair, John M., Herman, Michael A., and Todd, Timothy C. (Plant Pathology), National Science Foundation, "Ecological Genomics of Soil Nematode Community Responses: Model and Non-Model Approaches."

Jumpponen, Ari M., National Science Foundation, \$11,057, "Dissertation Research: Molecular and Metabolic Dissection of the Symbiosis Between a Native Prairie Grass and It's Fungal Root Endophyte (Keerthi Mandyam)."

Marchin, George L., Safe Water, \$45,000, "Safe Water Project Based on Silver Resin."

Marcus, Daniel C., US Department of Health and Human Services, \$547,209, "Epithelial Function in Health and Disease."

Mayfield, Mark H., and Ferguson, Carolyn J., National Science Foundation, "Computerization of the Kansas State University Herbarium: Digitizing a Critical Biodiversity Collection for the Great Plains."

Michel, Kristin, and Clem, Rollie J., US Department of Health and Human Services, "Core Facility Support - Walk-In Environmental Chamber."

Michel, Kristin, US Department of Health and Human Services, \$44,364, "Transcriptional Profiles of Anopheles gambiae hemocytes."

Nippert, Jesse B., Blair, John M., Dodds, Walter K., Hartnett, David C., and Joern, Anthony, National Science Foundation, "Konza Prairie LTER V: Long-Term Research on Grassland Dynamics and Global Change."

Passarelli, A. Lorena, US Department of Agriculture, \$280,000, "Involvement of viral fibroblast growth factor in baculovirus pathogenesis."

Passarelli, A. Lorena, US Department of Health and Human Services, \$401,500, "Role of Viral Fibroblast Growth Factor in Pathogenesis."

Paukert, Craig, Kansas Department of Wildlife and Parks, \$69,444, "Distribution and Population of River Otters in Eastern Kansas."

Paukert, Craig, Kansas Department of Wildlife and Parks, \$30,000, "Effects of Zebra Mussels on Invertebrate and Fish Abundance, and Growth of Age-0 Largemouth Bass: Five Years After Invasion."

Paukert, Craig, Kansas Department of Wildlife and Parks, \$40,000, "Establishment and Operation of the Kansas Cooperative Fish and Wildlife Research Unit."

Paukert, Craig, Rocky Mountain Elk Foundation, \$4,473, "Long Term Sustainability Study of Elk in Kansas."

Paukert, Craig, US Department of the Interior, \$21,847, "Assessing Wildlife Responses to Vehicle Impacts."

Paukert, Craig, US Department of the Interior, \$27,071, "Evaluation of Sampling Protocols Used to Determine the Status and Trends of Rare and Endangered Missouri River Species."

Paukert, Craig, US Department of the Interior, \$100,000, "Recruitment of Fishes in the Kansas River."

Rintoul, David A., Downey, Ronald G. (Psychology), **Glymour, Bruce D.** (Philosophy), **Lara, Amy** (Philosophy), and **Weaver, Oliver L.** (Physics), National Science Foundation, "Research Communications Ethics Project."

Sandercock, Brett K., and Wisely, Samantha, Multisponsor, \$109,000, "Effects of Wind Power Development on Greater Prairie Chickens."

Sandercock, Brett K., National Science Foundation, "REU Site: Ecology and Evolutionary Biology of a Temperate Grassland."

Sandercock, Brett K., and Wisely, Samantha, US Department of Energy, \$30,870, "Effects of Wind Power Development on Greater Prairie Chickens."

Singh, Chingakham R., and Asano, Katsura, US Department of Health and Human Services, \$45,500, "Role of RNA-Binding Initiation Factors in Protein Synthesis."

Spooner, Brian S., Kansas State University Foundation, \$25,000, "Biology Research Career Development Core."

Spooner, Brian S., Kansas State University Foundation, \$269,994, "Cancer Center Core."

Spooner, Brian S., US Department of Health and Human Services, \$26,000, "Recruitment Package - Kristin Michel."

Takemoto, Larry J., US Department of Health and Human Services, \$45,500, "Lens Membrane in Relation to Human Cataractogenesis - (K-INBRE Bridging Proposal)."

Thorpe, Christopher J., US Department of Health and Human Services, \$253,630, "Tail Morphogenesis in Zebra fish."

Ungerer, Mark, National Science Foundation, \$609,999, "Hybrid Speciation, Transposable Elements, and Genome Evolution in Wild Sunflowers."

Upton, Steve J., and Woods, Keith M., US Department of Health and Human Services, \$93,849, "Growth and Purification of Cryptosporidium Development Stages."

Von Ohlen, Tonia L., US Department of Health and Human Services, \$45,500, "Identification of Transcriptional Targets of Intermediate Neuroblasts Defective (Ind)."

Welti, Ruth, Reeck, Gerald R. (Biochemistry), and **Zufferey, Rachel** (Biochemistry), US Department of Health and Human Services, "Phosphatidylcholine Biosynthesis and Anti-Cancer Agent Miltefosine (mentor)."

Welti, Ruth, National Science Foundation, \$94,293, "Metabolomic Profiling of Lipids and Their Compositional Dynamics in Plant Stress Responses."

Welti, Ruth, National Science Foundation, \$27,166, "Role of Arabidopsis SFD1 in Systemic Acquired Resistance."

Welti, Ruth, US Department of Health and Human Services, \$11,150, "Novel Proapoptotic BH3-Only Proteins in Cancer Apoptosis."

Welti, Ruth, and Zufferey, Rachel (Biochemistry), US Department of Health and Human Services, \$18,469, "Phosphatidylcholine Biosynthesis and Anticancer Agent Miltefosine."

Wisely, Samantha, and Sandercock, Brett K., Multisponsor, "Effects of Wind Power Development on Greater Prairie Chickens."

Wisely, Samantha, and Sandercock, Brett K., US Department of Energy, "Effects of Wind Power Development on Greater Prairie Chickens."

Wisely, Samantha, and Cully, Jr., Jack F., US Department of the Interior, \$40,406, "Biogeography and Molecular Epidemiology of the PRNP Gene in Kansas."

Wisely, Samantha, USDA & W. K. Kellogg Foundation, \$359,846 (includes \$50,000 from FPL Energy, \$50,000 from Horizon Energy, \$60,000 from Kansas Department of Wildlife & Parks, and \$50,000 from PPM Energy), "Effects of Wind Power on Greater Prairie Chickens."

Woods, Keith M., and **Upton, Steve J.**, US Department of Health and Human Services, "Growth and Purification of Cryptosporidium Development Stages."

CHEMISTRY

Aakeroy, Christer B., US Department of Health and Human Services, \$73,000, "Molecular Co-Crystals: New Solid Forms for Anti-Cancer Drugs."

Bossmann, Stefan, American Chemical Society, \$90,000, "Bioinspired Hybrid Systems for the Photoelectrocatalytic Generation of Solar Hydrogen and Fuels."

Bossmann, Stefan, Chikan, Viktor, and **Smith, Paul E.**, US Department of Health and Human Services, \$121,180, "Targeting Cancer with Protein-Nanoparticle Complexes."

Chikan, Viktor, Bossmann, Stefan, and **Smith, Paul E.**, US Department of Health and Human Services, "Targeting Cancer with Protein-Nanoparticle Complexes."

Culbertson, Christopher T., US Department of Health and Human Services, \$90,000, "High Throughput Measurement of Cellular Signaling."

Erickson, Larry E., Eckels, Steven J. (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$61,500, "Urban Operations Laboratory."

Higgins, Daniel A., and **Li, Jun**, Canadian Government, "Biochip Testing."

Higgins, Daniel A., National Science Foundation, \$85,000, "Collaborative Research: New Routes for the Preparation and Characterization of Functionally-Graded and Mesoporous Silica Thin Films."

Hollingsworth, Mark D., National Science Foundation, \$170,000, "Synthesis and Mechanistic Studies of New Series of Ferroelastic and Ferroelectric Crystals."

Hua, Duy H., and **Wangemann, A. Philine** (Anatomy and Physiology), American Heart Association, Heartland Affiliate, \$35,750, "Synthesis and Bioevaluation of Myricic Acid A and its Analogs."

Hua, Duy H., and **Takemoto, Dolores J.** (Biochemistry), Kansas City Area Life Sciences Institute, \$20,000, "Control of Gap Junctions as a Neuro-Protective Therapy."

Hua, Duy H., National Science Foundation, \$120,000, "Nanotubes: Synthesis and Applications."

Hua, Duy H., and **Nguyen, Thu A.** (Diagnostic Medicine/ Pathobiology), US Department of Health and Human Services, \$11,700, "Anticancer Effect of Substituted Quinolines via Gap Junction Intercellular Communication."

Hua, Duy H., Gorman, Maureen J. (Biochemistry), and **Kanost, Michael R.** (Biochemistry), US Department of Health and Human Services, \$50,831, "Function of Laccases in Anopheles gambiae."

Hua, Duy H., US Department of Health and Human Services, \$261,009, "Inhibition of Alzheimer's Beta-Amyloid Fibril Formation."

Hua, Duy H., Tamura, Masaaki (Anatomy and Physiology), and **Troyer, Deryl L.** (Anatomy and Physiology), US Department of Health and Human Services, \$97,226, "Stem Cells as Vehicles for Therapeutic Nanoparticle Delivery to Breast Cancer."

Jankowiak, Ryszard J., National Science Foundation, \$18,250, "Use of Dynamic Electric Field Gradients for the Crystallization of Proteins."

Jankowiak, Ryszard J., US Department of Defense, \$6,000, "Exploratory Luminescence Studies of the Silicon Nitride Materials Using Various Laser Excitation Sources."

Jankowiak, Ryszard J., US Department of Energy, \$15,000, "Hole-Burned Spectra."

Jankowiak, Ryszard J., US Department of Health and Human Services, \$42,340, "Detection of Biomarkers of Estrogen-Initiated Cancers."

Klabunde, Kenneth J., National Science Foundation, \$10,560, "Carbon Nanoreactor for Solid-State Synthesis of Novel Nanoscale Materials Based on Nanocrystalline Oxides."

Klabunde, Kenneth J., US Department of Defense, \$75,000, "Oxidation Catalysts in the Dark and the Light."

Li, Jun, and **Higgins, Daniel A.**, Canadian Government, \$120,000, "Biochip Testing."

Smith, Paul E., US Department of Health and Human Services, \$219,000, "Accurate Simulations of Peptide Aggregation."

Smith, Paul E., Bossmann, Stefan, and **Chikan, Viktor**, US Department of Health and Human Services, "Targeting Cancer with Protein-Nanoparticle Complexes."

COMMUNITY HEALTH INSTITUTE

Bopp, Melissa, Bolton, Debra (Southwest Area Office), **Fallon, Elizabeth A.**, and **Kaczynski, Andrew**, Sunflower Foundation, \$30,658, "Addressing Hispanic Health in Southwest Kansas: A Community Resource Assessment."

Dzewaltowski, David A., Sunflower Foundation, \$38,751, "Girl Scouts Family Connection for Health Promotion - Ric Rosenkranz."

Dzewaltowski, David A., Carey, Edward E. (Horticulture, Forestry and Recreation Resources), and **Shoemaker, Candice A.** (Horticulture, Forestry and Recreation Resources), US Department of Agriculture, \$415,410, "Integrating Schools, Community, and Family to Effect Sedentary Behavior, Fruit and Vegetable Consumption, and Physical Activity."

Dzewaltowski, David A., US Department of Agriculture, \$14,611, "Nutrition Environments in Low Income Schools."

Dzewaltowski, David A., US Department of Health and Human Services, \$21,298, "Individual and Environmental Mechanisms of Physical Activity Change."

Dzewaltowski, David A., US Department of Health and Human Services, \$24,775, "Kansas Department of Health and Environment Tobacco Use Prevention Survey."

Fallon, Elizabeth A., Bolton, Debra (Southwest Area Office), **Bopp, Melissa**, and **Kaczynski, Andrew**, Sunflower Foundation, "Addressing Hispanic Health in Southwest Kansas: A Community Resource Assessment."

Kaczynski, Andrew, Bolton, Debra (Southwest Area Office), **Bopp, Melissa**, and **Fallon, Elizabeth A.**, Sunflower Foundation, "Addressing Hispanic Health in Southwest Kansas: A Community Resource Assessment."

DEAN OF ARTS AND SCIENCES

Allen, David S., and **Bennett, Andrew G.** (Mathematics), US Department of Education, \$42,000, "Infinite Mathematics Project."

Montelone, Beth A., Douglas, Kimberly D. (Dean of Engineering), **Dyer, Ruth A.** (Office of the Provost), **Freeman, Lisa C.** (Anatomy and Physiology), and **Spears, Jacqueline D.** (Secondary Education), National Aeronautics and Space Administration, \$4,200, "Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics."

Montelone, Beth A., Dyer, Ruth A. (Office of the Provost), King, Terry S. (Dean of Engineering), **Unger, Elizabeth A.** (Vice Provost for Academic Services and Technology), and White, Stephen E., National Science Foundation, "ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University."

Montelone, Beth A., and Spears, Jacqueline D. (Secondary Education), National Science Foundation, "Systematic Approach to Infusing Science Research into K-12 Classrooms."

Montelone, Beth A., and Freeman, Lisa C. (Anatomy and Physiology), US Department of Agriculture, "Pathways to Public Health."

Shroyer, Margaret G., Bennett, Andrew G. (Mathematics), and **Yahnke, Sally J.** (Secondary Education), US Department of Education, \$930,105 (includes \$19,416 from Dodge City Community College, \$20,266 from Garden City Community College, \$19,386 from Seward Community College, \$14,809 from USD 214 - Ulysses, \$26,842 from USD 383 - Manhattan, \$14,580 from USD 443 - Dodge City, \$15,060 from USD 457 - Garden City, and \$10,507 from USD 475 - Geary County), "Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships."

Staples, Kimberly A., US Department of Education, "Connections that Create Science Conceptual Change: A Professional Development Project for Middle Level Science Teachers."

White, Stephen E., Dyer, Ruth A. (Office of the Provost), **King, Terry S.** (Dean of Engineering), **Montelone, Beth A.,** and **Unger, Elizabeth A.** (Vice Provost for Academic Services and Technology), National Science Foundation, "ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University."

ECONOMICS

Babcock, Michael W., Kansas Department of Transportation, \$35,000, "Impact of Kansas Ethanol Production on Kansas Transportation."

Li, Dong, Kansas Health Institute, \$15,961, "Health Issues for Children in Kansas - Bhavneet Walia."

ENGLISH

Wood, Naomi J., Kansas Arts Commission, \$3,300 (includes \$150 from Claflin Books and Copies, and \$500 from Manhattan Public Library), "Molly Bang and the Art of Picture Books."

GEOGRAPHY

Goodin, Douglas G., National Science Foundation, \$11,598, "Doctoral Dissertation Research: Detecting Anthropogenic Forest Disturbances and Understory Density for the Study of Hantavirus in Paraguay (Graduate Student - David Koch)."

Goodin, Douglas G., Fick, Walter H. (Agronomy), Ham, Jay M. (Agronomy), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Harrington Jr, John A.,** and **Murphy, James P.** (Agriculture and Natural Resources), US Department of Agriculture, \$238,570, "Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains."

Goodin, Douglas G., US Department of the Interior, \$1,000, "Field Remote Sensing Observations for Landscape Phenology Modeling."

Harrington Jr, John A., Blair, John M. (Biology), **Dodds, Walter K.** (Biology), and **Steward, David R.** (Civil Engineering), National Science Foundation, "Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains."

Harrington Jr, John A., Fick, Walter H. (Agronomy), **Goodin, Douglas G., Ham, Jay M.** (Agronomy), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), and **Murphy, James P.** (Agriculture and Natural Resources), US Department of Agriculture, "Develop a Fire and Smoke Management Program to Minimize Impact of Prescribed Rangeland Burning in the Central Plains."

Harrington Jr, John A., Hutchinson, J. M. Shawn, and **Marston, Richard A.,** US Department of Defense, \$45,415, "Antilles Geographic Information Systems (GIS) Project."

Hutchinson, J. M. Shawn, Hutchinson, Stacy L. (Biological and Agricultural Engineering), and **Keane, Timothy D.** (Landscape Architecture/Regional and Community Planning), City of Mission, KS, "Stormwater Best Management Practice Evaluation and Design."

Hutchinson, J. M. Shawn, Harrington Jr, John A., and **Marston, Richard A.,** US Department of Defense, "Antilles Geographic Information Systems (GIS) Project."

Hutchinson, J. M. Shawn, and Hutchinson, Stacy L. (Biological and Agricultural Engineering), US Department of Defense, "Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability."

Hutchinson, J. M. Shawn, and Hutchinson, Stacy L. (Biological and Agricultural Engineering), US Department of the Interior, "Range and Training Lands Assessment on Fort Riley."

Marston, Richard A., Harrington Jr, John A., and Hutchinson, J. M. Shawn, US Department of Defense, "Antilles Geographic Information Systems (GIS) Project."

GEOLOGY

Oviatt, Charles G., US Department of the Interior, \$6,250, "Analysis of Sediment Samples from March Deposits Fringing Great Salt Lake."

Totten, Iris M., Kauffman Foundation, \$38,000, "GeoWorlds: The Integration of Collaborative Virtual Learning Environments, Problem-Based Education in the Geosciences and Facilitator Development."

HISTORY

Parillo, Mark P., Kansas State University Foundation, \$15,000, "Institute for Military History and 20th Century Studies."

Zschoche, Sue, Kenneth and Jean Davis, \$30,000, "Kenneth Davis Professorship."

JAMES R. MACDONALD LABORATORY

Ben-Itzhak, Itzhak, US Department of Energy, "Structure and Dynamics of Atoms, Ions, Molecules, and Surfaces."

KINESIOLOGY

Barstow, Thomas J., Kobe Design University, \$8,000, "Collaborative Research Agreement between Kansas State University and Kobe Design University."

Bopp, Melissa, Bolton, Debra (Southwest Area Office), **Fallon, Elizabeth A.** (Community Health Institute), and **Kaczynski, Andrew** (Community Health Institute), Sunflower Foundation, \$62,244, "Addressing Hispanic Health in Southwest Kansas: A Community Resource Assessment."

Dzewaltowski, David A., Sunflower Foundation, \$38,751, "Girl Scouts Family Connection for Health Promotion - Ric Rosenkranz."

Dzewaltowski, David A., US Department of Health and Human Services, \$24,775, "Kansas Department of Health and Environment Tobacco Use Prevention Survey."

Musch, Timothy I., and **Poole, David C.** (Anatomy and Physiology), Cytokinetics, Inc., \$44,586, "Cytokinetics Project."

Poole, David C., and **Musch, Timothy I.**, Cytokinetics, Inc., "Cytokinetics Project."

MATHEMATICS

Bennett, Andrew G., **Shroyer, Margaret G.** (Elementary Education), and **Yahnke, Sally J.** (Secondary Education), US Department of Education, "Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships."

Bennett, Andrew G., and **Allen, David S.** (Elementary Education), US Department of Education, "Infinite Mathematics Project."

Castano-Bernard, Ricardo, and **Soibelman, Yan S.**, National Science Foundation, \$33,000, "NSF/CBMS Regional Conference in the Mathematical Sciences: Tropical Geometry and Mirror Symmetry, December 13-17, 2008."

Crane, Louis, Foundational Questions Institute, \$3,000, "Mini-Grant."

Crane, Louis, Foundational Questions Institute, \$52,813, "New Approach to Quantum Gravity, with Possible Applications to the Origin and Future of Life."

Fang, Xiang, National Science Foundation, \$106,631, "Commutative Algebraic Methods in Multivariable Operator Theory and Applications."

Lin, Zongzhu, US Department of Defense, \$29,696, "Problems in Representation Theory Related to Nilpotent Orbits."

Soibelman, Yan S., and **Castano-Bernard, Ricardo**, National Science Foundation, "NSF/CBMS Regional Conference in the Mathematical Sciences: Tropical Geometry and Mirror Symmetry, December 13-17, 2008."

MUSIC

Yu, Julie, Master Teacher, Inc., \$16,326, "Summer Choral Institute."

PHILOSOPHY

Glymour, Bruce D., **Downey, Ronald G.** (Psychology), **Lara, Amy**, **Rintoul, David A.** (Biology), and **Weaver, Oliver L.** (Physics), National Science Foundation, \$34,000, "Research Communications Ethics Project."

Lara, Amy, **Downey, Ronald G.** (Psychology), **Glymour, Bruce D.**, **Rintoul, David A.** (Biology), and **Weaver, Oliver L.** (Physics), National Science Foundation, "Research Communications Ethics Project."

PHYSICS

Ben-Itzhak, Itzhak, US Department of Energy, \$2,500,000, "Structure and Dynamics of Atoms, Ions, Molecules, and Surfaces."

Bolton, Timothy A., National Science Foundation, \$76,000, "PIRE: Collaborative Research with the Paul Scherrer Institute and Eidgenossische Technische Hochschule on Advanced Pixel Silicon Detectors for the CMS Detector."

Bolton, Timothy A., **Sidwell, Ronald A.**, **Stanton, Noel R.**, and **Von Toerne, Eckhard**, National Science Foundation, \$12,000, "Quarknet."

Bolton, Timothy A., National Science Foundation, \$8,500, "USCMS Teacher Fellowship Program."

Bolton, Timothy A., US Department of Energy, \$7,073, "Compact Muon Solenoid - Sensors."

Bolton, Timothy A., **Horton-Smith, Glenn A.**, **Maravin, Yuri**, **Ratra, Bharat**, and **Stanton, Noel R.**, US Department of Energy, \$630,000, "Heavy Quark and Neutrino Physics."

Chang, Zenghu, **Cocke, Charles L.**, and **Lei, Shuting** (Industrial and Manufacturing Systems Engineering), US Department of Defense, \$1,250,000, "Attosecond Optical Technology Based on Recollision and Gating."

Cocke, Charles L., **Chang, Zenghu**, and **Lei, Shuting** (Industrial and Manufacturing Systems Engineering), US Department of Defense, "Attosecond Optical Technology Based on Recollision and Gating."

Corwin, Kristan L., National Science Foundation, \$17,000, "Fiber-Based Optical Frequency Standards Characterized with Optical Frequency Combs."

Corwin, Kristan L., **Rebello, Nobel S.**, and **Washburn, Brian R.**, National Science Foundation, "Integrating Experimentation and Instrumentation in Upper-Division Physics."

Corwin, Kristan L., and **Weaver, Oliver L.**, National Science Foundation, "REU Site: Laser-Matter Interactions on Atomic and Nanoscales."

Corwin, Kristan L., and **Washburn, Brian R.**, US Department of Defense, \$169,692, "Gas-Filled Hollow Optical Fiber-based Frequency References for Portable Frequency Combs in the Near Infrared."

Erickson, Larry E., **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$30,750, "Urban Operations Laboratory."

Esry, Brett D., National Science Foundation, \$100,000, "Exploiting Algorithm and Hardware Improvements to Solve the Ultracold Few-Body Problem."

Esry, Brett D., National Science Foundation, \$70,000, "Theoretical Investigations of Ultracold Few-Body Collisions."

Esry, Brett D., US Department of Defense, \$34,172, "Theoretical Investigation of Ultracold Few-Body Collisions."

Horton-Smith, Glenn A., **Bolton, Timothy A.**, **Maravin, Yuri**, **Ratra, Bharat**, and **Stanton, Noel R.**, US Department of Energy, "Heavy Quark and Neutrino Physics."

Jiang, Hongxing, and **Lin, Jingyu**, US Department of Defense, \$240,375, "High A1-Content AlGaIn Alloys for Deep UV Laser Applications."

Jiang, Hongxing, and **Lin, Jingyu**, US Department of Defense, \$100,000, "III-Nitrides for Hydrogen Fuel Cell and Thermopower Technologies."

Jiang, Hongxing, and **Lin, Jingyu**, US Department of Energy, \$169,560, "Optical and Electrical Properties of III-V Nitride Wide Bandgap Semiconductors."

Law, Bruce M., National Science Foundation, \$144,500, "Materials World Network: Electric Field Induced Microfluidic Manipulation."

Lin, Chii-Dong, National Science Foundation, \$50,001, "Quantum Physics of He Near the Double Ionization Threshold—Quantum Chaos and Wannier Threshold Law."

Lin, Chii-Dong, US Department of Energy, \$145,000, "Time-Resolved Imaging of Molecules by High-Order Harmonics and Ultra Short Rescattering Electrons."

Lin, Jingyu, and **Jiang, Hongxing**, US Department of Defense, "High A1-Content AlGaIn Alloys for Deep UV Laser Applications."

Lin, Jingyu, and **Jiang, Hongxing**, US Department of Defense, "III-Nitrides for Hydrogen Fuel Cell and Thermopower Technologies."

Lin, Jingyu, and **Jiang, Hongxing**, US Department of Energy, "Optical and Electrical Properties of III-V Nitride Wide Bandgap Semiconductors."

Litvinyuk, Igor V., US Department of Energy, \$153,000, "Developing Laser-Induced Re-Collision Electron Self-Diffraction for Ultra-Fast Imaging of Transient Molecular Structure."

Maravin, Yurii, **Bolton, Timothy A.**, **Horton-Smith, Glenn A.**, **Ratra, Bharat**, and **Stanton, Noel R.**, US Department of Energy, "Heavy Quark and Neutrino Physics."

Rahman, Talat S., **Hsu, William H.** (Computing and Information Sciences), and **Wallentine, Virgil E.** (Computing and Information Sciences), National Science Foundation, \$154,232, "Parallel Data Mining for Nanoscale Kinetic Monte Carlo Simulation Models."

Ratra, Bharat, **Bolton, Timothy A.**, **Horton-Smith, Glenn A.**, **Maravin, Yurii**, and **Stanton, Noel R.**, US Department of Energy, "Heavy Quark and Neutrino Physics."

Rebello, Nobel S., **Corwin, Kristan L.**, and **Washburn, Brian R.**, National Science Foundation, \$149,663, "Integrating Experimentation and Instrumentation in Upper-Division Physics."

Sidwell, Ronald A., **Bolton, Timothy A.**, **Stanton, Noel R.**, and **Von Toerne, Eckhard**, National Science Foundation, "Quarknet."

Sorensen, Christopher M., Cabot Corporation, \$18,745, "Aerosol Synthesis of Low Density High Surface Area Silica Materials: Silica Aerosol Gels."

Sorensen, Christopher M., Cabot Corporation, \$22,000, "Light Scattering Studies of Fumed Silica Morphology Changes in Suspension During Shear."

Stanton, Noel R., **Bolton, Timothy A.**, **Sidwell, Ronald A.**, and **Von Toerne, Eckhard**, National Science Foundation, "Quarknet."

Stanton, Noel R., **Bolton, Timothy A.**, **Horton-Smith, Glenn A.**, **Maravin, Yurii**, and **Ratra, Bharat**, US Department of Energy, "Heavy Quark and Neutrino Physics."

Thumm, Uwe, National Science Foundation, \$65,000, "Quantum Dynamics in Particle Interactions with Atomically Flat and Nano-Structured Surfaces."

Von Toerne, Eckhard, **Bolton, Timothy A.**, **Sidwell, Ronald A.**, and **Stanton, Noel R.**, National Science Foundation, "Quarknet."

Washburn, Brian R., **Corwin, Kristan L.**, and **Rebello, Nobel S.**, National Science Foundation, "Integrating Experimentation and Instrumentation in Upper-Division Physics."

Washburn, Brian R., and **Corwin, Kristan L.**, US Department of Defense, "Gas-Filled Hollow Optical Fiber-based Frequency References for Portable Frequency Combs in the Near Infrared."

Weaver, Oliver L., **Downey, Ronald G.** (Psychology), **Glymour, Bruce D.** (Philosophy), **Lara, Amy** (Philosophy), and **Rintoul, David A.** (Biology), National Science Foundation, \$33,000, "Research Communications Ethics Project."

Weaver, Oliver L., and **Corwin, Kristan L.**, National Science Foundation, \$100,885, "REU Site: Laser-Matter Interactions on Atomic and Nanoscales."

Zollman, Dean A., National Science Foundation, \$70,020, "Undergraduate Science Course Reform Serving Pre-Service Teachers: Evaluation of a Faculty Professional Development Model."

POLITICAL SCIENCE

Kisangani, Emizet N., US Department of Education, \$85,320, "Undergraduate African Studies Minor."

PSYCHOLOGY

Downey, Ronald G., **Glymour, Bruce D.** (Philosophy), **Lara, Amy** (Philosophy), **Rintoul, David A.** (Biology), and **Weaver, Oliver L.** (Physics), National Science Foundation, \$33,000, "Research Communications Ethics Project."

Frieman, Jerome, and **Monaco, Gregory E.**, Great Plains Network Consortium, \$180,648, "Funding for Director of Research - Great Plains Network."

Monaco, Gregory E., and **Frieman, Jerome**, Great Plains Network Consortium, "Funding for Director of Research - Great Plains Network."

Palmatier, Matthew I., US Department of Health and Human Services, \$214,751, "Nicotine Self-Administration: Tobacco Pharmacotherapies."

SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS

Gould, Thomas H., and **Goetsch, Lori** (Library), North Central Regional Planning Commission, "K-State Editorship of the Online Journal of Rural Research and Policy."

Powers, Angela, and **Puntney, Linda S.**, Journalism Education Association, \$656,180, "Establishment of the Journalism Education Association National Headquarters at Kansas State University."

Puntney, Linda S., and **Powers, Angela**, Journalism Education Association, "Establishment of the Journalism Education Association National Headquarters at Kansas State University."

SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK

Britton, Dana M., Sociologists for Women in Society, \$93,713, "Gender and Society Editorship."

Goe, W. Richard, **Kulcsar, Laszlo**, **Middendorf, Gerad D.**, and **Selfa, Theresa L.**, US Department of Energy, "Biofuels Revolution: Understanding the Social, Cultural and Economic Impacts of Biofuels Development on Rural Communities."

Kulcsar, Laszlo, **Goe, W. Richard**, **Middendorf, Gerad D.**, and **Selfa, Theresa L.**, US Department of Energy, "Biofuels Revolution: Understanding the Social, Cultural and Economic Impacts of Biofuels Development on Rural Communities."

Logan, Brad R., US Department of the Interior, \$42,790, "National Register of Historic Places Evaluation of Selected Sites at Lovewell Reservoir, Jewell County, Kansas."

Middendorf, Gerad D., **Goe, W. Richard**, **Kulcsar, Laszlo**, and **Selfa, Theresa L.**, US Department of Energy, "Biofuels Revolution: Understanding the Social, Cultural and Economic Impacts of Biofuels Development on Rural Communities."

Roper, Donna C., US Department of the Interior, \$29,972, "Continued Fieldwork and Analysis on Upper Republican Sites Harry Strunk Lake, Frontier County, Nebraska."

Selfa, Theresa L., Goe, W. Richard, Kulcsar, Laszlo, and Middendorf, Gerad D., US Department of Energy, \$227,945, "Biofuels Revolution: Understanding the Social, Cultural and Economic Impacts of Biofuels Development on Rural Communities."

STATISTICS

Gadbury, Gary L., US Department of Health and Human Services, \$31,438, "Novel Statistical Methods for High Dimensional Biology."

COLLEGE OF BUSINESS ADMINISTRATION

ACCOUNTING

Vruwink, David R., and **Katz, Jeffrey P.** (Management), Multisponsor, "MBA Practicum."

MANAGEMENT

Katz, Jeffrey P., and **Vruwink, David R.** (Accounting), Multisponsor, \$6,750, "MBA Practicum."

COLLEGE OF EDUCATION

DEAN OF EDUCATION

Allen, David S., and **Bennett, Andrew G.** (Mathematics), US Department of Education, \$58,000, "Infinite Mathematics Project."

Flaherty, Roberta D., National Academic Advising Association, \$1,165,566, "National Academic Advising Association Executive Office."

Goodson, F. Todd, International Reading Association, Inc., \$6,000, "Editorship of Journal of Adolescent and Adult Literacy."

Goodson, F. Todd, US Department of Education, \$43,000, "Flint Hills Writing Project."

Havlicek, Barbara J., Kansas Foundation for Agriculture in the Classroom, \$124,748, "Kansas Foundation for Agriculture in the Classroom."

Havlicek, Barbara J., Multisponsor, \$9,817, "Council for Public School Improvement."

Havlicek, Barbara J., Multisponsor, \$27,183, "Educational Computer Assistance."

Havlicek, Barbara J., Schools for Quality Education, Inc., \$7,000, "Schools for Quality Education."

Herrera, Socorro G., US Department of Education, \$188,587 (includes \$40,334 from USD 253 - Emporia), "Project CARE."

Herrera, Socorro G., US Department of Education, \$461,840, "Project Destiny."

Herrera, Socorro G., US Department of Education, \$270,192, "Project MERIT."

Herrera, Socorro G., US Department of Education, \$258,672, "Project PEER."

Herrera, Socorro G., US Department of Education, \$278,673, "Project Pulse."

Herrera, Socorro G., USD 497, Lawrence, \$19,233, "Hillcrest Elementary - Reading First Project."

Holen, Michael C., IDEA Center, Inc., \$230,000, "MOA: IDEA Center, Inc/College of Education, Office of the Dean."

Kaff, Marilyn S., and **Frey, Timothy** (Special Education), US Department of Education, \$22,500, "Continuous Improvement Grant for Special Education."

Middendorf, B. Jan, and **Thurston, Linda P.**, Kansas Board of Regents, \$425,000, "Kan-ed Evaluation - Phase V."

Middendorf, B. Jan, and **Shuman, Cindy**, Kansas Board of Regents, \$35,000, "Kansas Board of Regents (KBOR) Research."

Middendorf, B. Jan, and **Thurston, Linda P.**, Master Teacher, Inc., "Master Teacher Survey Project."

Murry, Kevin G., US Department of Education, \$295,262, "Project Advocate."

Murry, Kevin G., US Department of Education, \$299,379, "Project TEACH."

Shroyer, Margaret G., **Bennett, Andrew G.** (Mathematics), and **Yahnke, Sally J.** (Secondary Education), US Department of Education, \$1,395,157 (includes \$29,123 from Dodge City Community College, \$30,400 from Garden City Community College, \$29,078 from Seward Community College, \$22,214 from USD 214 - Ulysses, \$40,264 from USD 383 - Manhattan, \$21,870 from USD 443 - Dodge City, \$22,590 from USD 457 - Garden City, and \$15,760 from USD 475 - Geary County), "Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships."

Shuman, Cindy, and **Middendorf, B. Jan**, Kansas Board of Regents, "Kansas Board of Regents (KBOR) Research."

Shuman, Cindy, National Science Foundation, \$15,120, "Evaluation of Scale Up (University of Illinois at Chicago's NSF DR K-12)."

Shuman, Cindy, and **Thurston, Linda P.**, US Department of Education, "Evaluation of !LISTO!."

Spears, Jacqueline D., and **Montelone, Beth A.** (Dean of Arts and Sciences), National Science Foundation, \$47,328, "Systematic Approach to Infusing Science Research into K-12 Classrooms."

Staples, Kimberly A., US Department of Education, \$177,865, "Connections that Create Science Conceptual Change: A Professional Development Project for Middle Level Science Teachers."

Teagarden, James M., US Department of Education, \$3,500, "Family and Parent Involvement - Curriculum Enhancement Initiative."

Thurston, Linda P., and **Middendorf, B. Jan**, Kansas Board of Regents, "Kan-ed Evaluation - Phase V."

Thurston, Linda P., and **Middendorf, B. Jan**, Master Teacher, Inc., \$22,192, "Master Teacher Survey Project."

Thurston, Linda P., National Science Foundation, \$32,224, "Evaluation of Epsilon Corps."

Thurston, Linda P., and **Shuman, Cindy**, US Department of Education, \$22,000, "Evaluation of !LISTO!."

Vontz, Thomas, Center for Civic Education, \$66,687 (includes \$14,495 from Center Administration), "2007 Kansas State University Institute for Social Studies Teachers: Teaching and Learning the United States Constitution."

Vontz, Thomas, US Department of Education, \$22,913, "Civics Mosaic : Exploring Political Ideas that have Shaped the World."

Vontz, Thomas, US Department of Education, \$18,970, "Kansas - We the People: The Citizen and the Constitution."

Vontz, Thomas, US Department of Education, \$59,243, "Kansas State University (KSU)/Kazakhstan Civic Education."

Zacharakis, Jeffrey T., Kansas Board of Regents, \$273,289, "Adult Basic Education Leadership Academy."

Zacharakis, Jeffrey T., Kansas Board of Regents, \$11,900, "Focus Groups of Adult Learners from KS Adult Learning Centers."

Zacharakis, Jeffrey T., and Procter, David E. (Center for Engagement and Community Development), North Central Regional Planning Commission, "Intellectual Knowledge and Technology Development."

EDUCATIONAL LEADERSHIP

Scott, Susan M., and Tolar, Mary H., Corporation for National and Community Service, "Campus-Community Youth Service Corps."

Tolar, Mary H., and Scott, Susan M., Corporation for National and Community Service, \$3,000, "Campus-Community Youth Service Corps."

Tolar, Mary H., Corporation for National and Community Service, \$18,823, "Campus-Community Youth Service Corps."

Zacharakis, Jeffrey T., Kansas Board of Regents, "Adult Basic Education Leadership Academy."

Zacharakis, Jeffrey T., Kansas Board of Regents, "Focus Groups of Adult Learners from KS Adult Learning Centers."

ELEMENTARY EDUCATION

Allen, David S., and Bennett, Andrew G. (Mathematics), US Department of Education, "Infinite Mathematics Project."

Shroyer, Margaret G., Bennett, Andrew G. (Mathematics), and **Yahnke, Sally J.** (Secondary Education), US Department of Education, "Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships."

Staples, Kimberly A., US Department of Education, "Connections that Create Science Conceptual Change: A Professional Development Project for Middle Level Science Teachers."

Vontz, Thomas, Center for Civic Education, "2007 Kansas State University Institute for Social Studies Teachers: Teaching and Learning the United States Constitution."

Vontz, Thomas, NPS-Brown Foundation, \$5,000, "We the People Institute Match."

Vontz, Thomas, US Department of Education, "Civics Mosaic : Exploring Political Ideas that have Shaped the World."

Vontz, Thomas, US Department of Education, "Kansas - We the People: The Citizen and the Constitution."

Vontz, Thomas, US Department of Education, "Kansas State University (KSU)/Kazakhstan Civic Education."

SECONDARY EDUCATION

Goodson, F. Todd, International Reading Association, Inc., "Editorship of Journal of Adolescent and Adult Literacy."

Goodson, F. Todd, US Department of Education, "Flint Hills Writing Project."

Kane, Mary R., Kansas State Department of Education, \$70,604, "FFA-YF/YFW Organizations."

Spears, Jacqueline D., Douglas, Kimberly D. (Dean of Engineering), **Dyer, Ruth A.** (Office of the Provost), **Freeman, Lisa C.** (Anatomy and Physiology), and **Montelone, Beth A.** (Dean of Arts and Sciences), National Aeronautics and Space Administration, "Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics."

Spears, Jacqueline D., and Montelone, Beth A. (Dean of Arts and Sciences), National Science Foundation, "Systematic Approach to Infusing Science Research into K-12 Classrooms."

Yahnke, Sally J., Bennett, Andrew G. (Mathematics), and **Shroyer, Margaret G.** (Elementary Education), US Department of Education, "Equity and Access: Enhancing Teacher Quality through Multi-Institutional Partnerships."

SPECIAL EDUCATION, COUNSELING, AND STUDENT AFFAIRS

Frey, Timothy, and Kaff, Marilyn S., US Department of Education, "Continuous Improvement Grant for Special Education."

Kaff, Marilyn S., and Frey, Timothy, US Department of Education, "Continuous Improvement Grant for Special Education."

Teagarden, James M., US Department of Education, \$3,500, "Incorporating Parent Involvement into Teacher Preservice Program."

COLLEGE OF ENGINEERING

ADVANCED MANUFACTURING INSTITUTE

Case, Scott A., and Kramer, Bradley A., Multisponsor, "Advanced Manufacturing - Multi-sponsor."

Case, Scott A., and Tucker, Jeffrey W., Multisponsor, "Advanced Manufacturing Institute - Manufacturing Learning Center."

Kramer, Bradley A., and Tucker, Jeffrey W., Kansas Department of Commerce, \$45,000, "Develop and Implement Early-Stage Technology Development Assistance Center."

Kramer, Bradley A., and Tucker, Jeffrey W., Kansas Environmental Management Associates, LLC, "Phase IV & V: Farm Scale Phosphorus Recovery Master Agreement Construction, Start-up and Monitoring (P08-0102)."

Kramer, Bradley A., and Tucker, Jeffrey W., Kansas Technology Enterprise Corporation, \$50,000, "EDA "Early-Stage Technology Development Assistance Center: Phase II"."

Kramer, Bradley A., and Tucker, Jeffrey W., Kansas Technology Enterprise Corporation, \$645,000, "Kansas Technology Enterprise Corporation Center of Excellence Grant Agreement."

Kramer, Bradley A., and Case, Scott A., Multisponsor, \$8,100, "Advanced Manufacturing - Multi-sponsor."

Kramer, Bradley A., and Tucker, Jeffrey W., US Department of Commerce, \$170,000, "Early-Stage Technology Development Assistance Center: Bridging the Gap between New Technologies and Commercialization."

Kramer, Bradley A., and Tucker, Jeffrey W., US Environmental Protection Agency, \$50,000, "Phosphorus Removal Research Project Agreement."

Tucker, Jeffrey W., Bob Fisher, \$5,000, "Conduct Initial Marketing Tasks for Bob Fisher's Basketball Shooting Video."

Tucker, Jeffrey W., Carefree Gardner, Inc., \$4,100, "Development of Strategic Marketing Plan for the Watering Weedless Wonder."

Tucker, Jeffrey W., Kansas Center for Entrepreneurship, Inc., \$5,000, "Kansas Center for Entrepreneurship, Inc. Award Agreement - Funds for Bob Fisher's Basketball Shooting Video Project P08-0029."

Tucker, Jeffrey W., Kansas Center for Entrepreneurship, Inc., \$7,540 (includes \$2,900 from Xtreme Enterprises LLC), "StartUp Kansas Agreement."

Tucker, Jeffrey W., and Kramer, Bradley A., Kansas Department of Commerce, "Develop and Implement Early-Stage Technology Development Assistance Center."

Tucker, Jeffrey W., Kansas Department of Transportation, \$135,000, "Final Development and Marketing of Driver Notification Sign and Pavement Steel Finder Equipment."

Tucker, Jeffrey W., and Kramer, Bradley A., Kansas Environmental Management Associates, LLC, \$120,948, "Phase IV & V: Farm Scale Phosphorus Recovery Master Agreement Construction, Start-up and Monitoring (P08-0102)."

Tucker, Jeffrey W., and **Kramer, Bradley A.**, Kansas Technology Enterprise Corporation, "EDA "Early-Stage Technology Development Assistance Center: Phase II"."

Tucker, Jeffrey W., and **Kramer, Bradley A.**, Kansas Technology Enterprise Corporation, "Kansas Technology Enterprise Corporation Center of Excellence Grant Agreement."

Tucker, Jeffrey W., and **Case, Scott A.**, Multisponsor, \$485,617, "Advanced Manufacturing Institute - Manufacturing Learning Center."

Tucker, Jeffrey W., North Central Regional Planning Commission, \$50,000, "Regional Industry Cluster Analysis and Innovation Networking PO8-0098."

Tucker, Jeffrey W., and **Kramer, Bradley A.**, US Department of Commerce, "Early-Stage Technology Development Assistance Center: Bridging the Gap between New Technologies and Commercialization."

Tucker, Jeffrey W., US Department of Defense, \$13,550, "Seat Belt Convincer Build."

Tucker, Jeffrey W., and **Kramer, Bradley A.**, US Environmental Protection Agency, "Phosphorus Removal Research Project Agreement."

BIOLOGICAL AND AGRICULTURAL ENGINEERING

Alam, Mahbub U., **Brouk, Micheal J.** (Animal Sciences and Industry), **Golden, Billy B.** (Agricultural Economics), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Lamm, Freddie R.** (Northwest Research Extension Center), **Schlegel, Alan J.** (Southwest Research Extension Center), **Staggenborg, Scott A.** (Agronomy), and **Stone, Loyd R.** (Agronomy), US Department of Agriculture, \$111,250, "New Water Management Technologies to Sustain Rural Economics - KSU."

Barnes, Philip L., **Devlin, Daniel L.** (Agronomy), **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), **Leatherman, John C.** (Agricultural Economics), **Mankin, Kyle R.** (Agronomy), and **Pierzynski, Gary M.** (Agronomy), US Environmental Protection Agency, \$246,811 (includes \$30,000 from Cooperator Support), "KS WRAPS KSU SFY 08 Technical Assistance Services."

Erickson, Larry E., **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$61,500, "Urban Operations Laboratory."

Hargrove, William L., and **Devlin, Daniel L.** (Agronomy), US Environmental Protection Agency, \$22,351 (includes \$4,351 from Project Cooperators), "Kansas Watershed Restoration and Protection Strategy—Kanopolis Watershed Restoration and Protection Strategy Implementation Part 2."

Hutchinson, Stacy L., **Hutchinson, J. M. Shawn** (Geography), and **Keane, Timothy D.** (Landscape Architecture/Regional and Community Planning), City of Mission, KS, \$50,000, "Stormwater Best Management Practice Evaluation and Design."

Hutchinson, Stacy L., **Steichen, James M.** (National Institute for Land Management and Training), and **Zhang, Naiqian**, US Department of Defense, \$24,000, "Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality."

Hutchinson, Stacy L., and **Hutchinson, J. M. Shawn** (Geography), US Department of Defense, \$243,517, "Validating the Kinematic Wave Approach for Rapid Soil Erosion Assessment and Improved BMP Site Selection to Enhance Training Land Sustainability."

Hutchinson, Stacy L., and **Hutchinson, J. M. Shawn** (Geography), US Department of the Interior, \$212,264, "Range and Training Lands Assessment on Fort Riley."

Koelliker, James K., US Department of the Interior, \$87,426, "Modeling and Field Experimentation to Determine the Effects of Land Terracing and Non-Federal Reservoirs on Water Supplies in the Republican River Basin above Hardy, Nebraska."

Maghirang, Ronaldo G., US Department of Agriculture, \$34,965, "Improved Handling of Grain in Commercial Elevators."

Maghirang, Ronaldo G., US Department of Agriculture, \$26,300, "Improved Sensing Systems for Grain Quality Measurement and Storage."

Mankin, Kyle R., **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), and **Nejadhashemi, Amirpouyan**, US Department of the Interior, "Kansas Water Resources Research Institute."

Mankin, Kyle R., US Environmental Protection Agency, \$73,628 (includes \$7,028 from Cooperator Support), "Big Hill Creek/Big Hill Lake Watershed Assessment."

Mankin, Kyle R., US Environmental Protection Agency, \$72,900 (includes \$4,500 from Kansas Geological Survey), "KS WRAPS - Upper Arkansas River Basin Watershed Assessment."

Mankin, Kyle R., and **Leatherman, John C.** (Agricultural Economics), US Environmental Protection Agency, \$24,651 (includes \$2,613 from Cooperator Support), "KS WRAPS - Upper Verdigris / Toronto Lake WRAPS Planning."

Mankin, Kyle R., and **Leatherman, John C.** (Agricultural Economics), US Environmental Protection Agency, \$98,791 (includes \$16,625 from Cooperator Support), "KS WRAPS Cottonwood Development, Assessment & Planning / Neosho Headwaters Assessment and Planning."

Nejadhashemi, Amirpouyan, **Hargrove, William L.** (Kansas Center for Agriculture Resources and the Environment/Kansas Water Resources Research Institute), and **Mankin, Kyle R.**, US Department of the Interior, "Kansas Water Resources Research Institute."

Powell, G. Morgan, and **Willingham, Judith M.**, Kansas Water Office, "Kansas Environmental Leadership Program's Applied Leadership Projects."

Powell, G. Morgan, US Environmental Protection Agency, \$100,000, "Kansas Environmental Leadership Program."

Powell, G. Morgan, US Environmental Protection Agency, \$21,250, "Kansas Environmental Leadership Program (KELP) 05-06 Class."

Price, Randy R., American Sugar Cane League, \$12,500, "Development of New Technology to Estimate Sugarcane Yields and Improve Planting Systems."

Price, Randy R., **Prasad, P. V. Vara** (Agronomy), and **Staggenborg, Scott A.** (Agronomy), Kansas Grain Sorghum Commission, \$5,000, "Developing a Real-time Crop Sensing Systems to Enhance Stress Tolerance Screening."

Price, Randy R., Meredith Corporation, \$6,600, "Measurement of the In-Field Accuracies of Different Guidance Systems."

Rogers, Danny H., and **Staggenborg, Scott A.** (Agronomy), Kansas Grain Sorghum Commission, \$360, "Improving Crop Management Decisions with Soil Moisture Monitoring."

Rogers, Danny H., and **Alam, Mahbub U.** (Southwest Area Office), Kansas Water Office, \$75,000, "K-State Mobile Irrigation Lab."

Slocombe, John W., US Department of Agriculture, \$179,860, "Kansas AgrAbility Project."

Wang, Donghai, and **Shi, Yong Cheng** (Grain Science and Industry), Kansas Corn Commission, \$15,317, "Developing High Solids Enzyme Conversion of Corn Starches and Corn Flours to Reduce the Cost in Ethanol Production."

Wang, Donghai, Rice, Charles W. (Agronomy), and **Staggenborg, Scott A.** (Agronomy), Kansas Grain Sorghum Commission, \$17,268, "Development and Utilization of Sorghum as Feedstock for Biofuel Production."

Wang, Donghai, and **Sun, X. Susan** (Grain Science and Industry), Kansas Soybean Commission, \$39,296, "Soy Latex Like Adhesives for Glass and Ceramic Consumer Products Labeling."

Wang, Donghai, National Science Foundation, \$60,386, "Processing Genetically Engineered Biomass to Obtain Optimal Enzymatic Digestion of Cell Wall Polysaccharides in Cellulosic Biofuel Production."

Wang, Donghai, US Department of Agriculture, \$14,625, "Developing Technology and Procedures to Measure Characteristics of Grain and Plants."

Wang, Donghai, US Department of Agriculture, \$32,000, "Fermentation Quality of Sorghum."

Wang, Donghai, and **Sun, X. Susan** (Grain Science and Industry), US Department of Defense, "Biodegradable Lightweight Fiberboard for Packaging Applications."

Wang, Donghai, US Department of Transportation, \$47,200, "Designer Sorghums: Development of High Yielding Sorghum Cultivars with Modified Endosperm Matrices for Optimized Low Energy Input Ethanol Production and High Nutrition Feed."

Wang, Donghai, Madl, Ronald L. (Grain Science and Industry), **Staggenborg, Scott A.** (Agronomy), and **Woolverton, Michael W.** (Agricultural Economics), US Department of Transportation, \$21,000, "Develop Comprehensive Understanding and Utilization of Sorghum Stover and Brown Midrib Forage Sorghum for Ethanol Production."

Wang, Donghai, and **Staggenborg, Scott A.** (Agronomy), US Department of Transportation, \$12,409, "Evaluation of Sweet Sorghum Hybrids as a Bioenergy Feedstock for the South Central U.S. - Germplasm Development and Agronomic Practices."

Willingham, Judith M., and **Powell, G. Morgan**, Kansas Water Office, \$6,500, "Kansas Environmental Leadership Program's Applied Leadership Projects."

Yuan, Wenqiao, and **Pei, Zhijian** (Industrial and Manufacturing Systems Engineering), National Science Foundation, \$49,280, "SGER: Exploratory Research on Solid Carriers for Manufacturing Algae Biofuels in the Ocean."

Yuan, Wenqiao, and **Zhang, Naiqian**, US Department of Transportation, "Multifunctional Frequency-Response Permittivity Sensor for Biodiesel Concentration Measurement and Impurity Detection."

Zhang, Naiqian, US Department of Agriculture, \$28,116, "A Laser System for High-Resolution Soil Surface and Standing Residue Analysis."

Zhang, Naiqian, Hutchinson, Stacy L., and **Steichen, James M.** (National Institute for Land Management and Training), US Department of Defense, "Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality."

Zhang, Naiqian, and **Yuan, Wenqiao**, US Department of Transportation, \$52,280, "Multifunctional Frequency-Response Permittivity Sensor for Biodiesel Concentration Measurement and Impurity Detection."

CENTER FOR HAZARDOUS SUBSTANCE RESEARCH

Brandon, Brenda L., and **Erickson, Larry E.**, Kansas Technology Enterprise Corporation, "Education and Diversity Grant: Recruiting Native Americans into the Environmental Sciences."

Erickson, Larry E., and **Brandon, Brenda L.**, Kansas Technology Enterprise Corporation, \$8,607, "Education and Diversity Grant: Recruiting Native Americans into the Environmental Sciences."

Erickson, Larry E., Pickrell, John A. (Diagnostic Medicine/ Pathobiology), and **Van Der Merwe, Deon** (Diagnostic Medicine/Pathobiology), US Department of Defense, \$25,000, "Environmental, Health and Safety Related Studies of Nanomaterials."

Erickson, Larry E., Eckels, Steven J. (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research/ Office of Research and Sponsored Programs), and **Leven, Blase A.**, US Department of Defense, \$922,500, "Urban Operations Laboratory."

Erickson, Larry E., and **Kulakow, Peter A.** (Agronomy), US Department of Energy, \$1,000, "Design and Implementation of Remediation Technologies at Former USDA Grain Bin Sites."

Erickson, Larry E., US Environmental Protection Agency, \$5,000, "Water: Mother Earth's Gift."

Leven, Blase A., Eckels, Steven J. (Institute for Environmental Research), **Erickson, Larry E.**, and **Guikema, James A.** (Vice President for Research/Office of Research and Sponsored Programs), US Department of Defense, "Urban Operations Laboratory."

Steichen, James M., Hutchinson, Stacy L. (Biological and Agricultural Engineering), and **Zhang, Naiqian** (Biological and Agricultural Engineering), US Department of Defense, \$3,000, "Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality."

CHEMICAL ENGINEERING

Edgar, James H., National Science Foundation, \$134,565, "Boron-Rich Semiconductors for Neutron Detectors."

Edgar, James H., National Science Foundation, \$6,400, "Collaborative Research: Analysis of Defects and Their Causes in Bulk Aluminum Nitride Crystals."

Edgar, James H., National Science Foundation, \$96,400, "Materials World Network: Collaborative Research: An Investigation into the Properties of B12As2, B4C and Their Heterostructures."

Erickson, Larry E., Kansas Department of Health and Environment, \$13,533, "Environmental Water Quality Project (Sathish Santharam)."

Erickson, Larry E., Eckels, Steven J. (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$338,250, "Urban Operations Laboratory."

Pfromm, Peter H., US Department of Energy, \$120,803, "Bipolar Electrodialysis for Enzymatic Carbon Dioxide Removal from Flue Gas."

Pfromm, Peter H., US Department of Transportation, \$52,491, "Saline Extractive Distillation for Ethanol Separation."

Rezac, Mary E., National Science Foundation, \$10,000, "Center for Biofuels Research and Development."

Rezac, Mary E., US Department of Energy, \$30,000, "Membrane Reactor Evaluation of Transesterification Reactions."

Rezac, Mary E., US Department of Energy, \$93,020, "Novel Platform for Enhanced Membrane Reactors for Homogenous Catalysis."

Rezac, Mary E., US Department of Transportation, \$52,500, "Breaking the Cost Barrier for Bio-Ethanol: Reactive Adsorption of Fermentation Broth."

Walton, Krista S., US Department of Defense, \$99,257, "Air Purification: Nanostructured Media for Individual Protection."

Walton, Krista S., US Department of Defense, \$50,000, "Multifunctional Nanostructures for Adsorption of Toxic Materials."

Walton, Krista S., US Department of Defense, \$149,850, "Thermogravimetric Analyzer and Mass Spectrometer for the Characterization of Novel Materials."

CIVIL ENGINEERING

Coon, Brian A., US Department of Transportation, \$952,875 (includes \$264,575 from KDOT), "The Sustainability and Safety of Rural Transportation Systems and Infrastructure."

Dissanayake, Sunanda, and **Russell, Eugene R.**, Kansas Department of Transportation, "High-Risk Rural Roads Guide to Assist Local Road Officials Increase Safety on High Risk Rural Roads."

Dissanayake, Sunanda, US Department of Transportation, \$48,104, "Identification of Work Zone Crash Characteristics."

Esmaily, Asadollah, and **Melhem, Hani G.**, Abilene & Smoky Valley Railroad Association, "Structural Check of the Abilene and Smoky Valley Railroad Bridge for a Steam Locomotive."

Esmaily, Asadollah, and **Rasheed, Hayder A.**, Kansas Department of Transportation, "Software for the American Association of State Highway and Transportation Officials Load and Resistance Factor Design Combined Shear and Torsion Computations using Modified Compression Field Theory and 3D-Truss Analogy."

Hossain, Mustaque A., Kansas Department of Transportation, \$20,000, "Administration of KDOT/KTRAN Program."

Hossain, Mustaque A., Kansas Department of Transportation, \$82,002, "Assessment of General Aviation Airport Pavement Condition in Kansas."

Hossain, Mustaque A., US Department of Transportation, \$164,503, "Midwest States Accelerated Pavement Testing Pooled Funds Program (Verification of Mechanistic - Empirical Design Models for Flexible Pavements through Apt Testing."

Melhem, Hani G., and **Esmaily, Asadollah**, Abilene & Smoky Valley Railroad Association, \$8,000, "Structural Check of the Abilene and Smoky Valley Railroad Bridge for a Steam Locomotive."

Rasheed, Hayder A., and **Esmaily, Asadollah**, Kansas Department of Transportation, \$39,000, "Software for the American Association of State Highway and Transportation Officials Load and Resistance Factor Design Combined Shear and Torsion Computations using Modified Compression Field Theory and 3D-Truss Analogy."

Russell, Eugene R., and **Dissanayake, Sunanda**, Kansas Department of Transportation, \$60,000, "High-Risk Rural Roads Guide to Assist Local Road Officials Increase Safety on High Risk Rural Roads."

Russell, Eugene R., Kansas Department of Transportation, \$10,000, "National Roundabout Conference Sponsorship."

Russell, Eugene R., and **Rys, Malgorzata J.** (Industrial and Manufacturing Systems Engineering), Kansas Department of Transportation, \$17,700, "Promoting Center Line Rumble Strips to Increase Rural, Two-Lane Highway Safety."

Starrett, Steven K., National Science Foundation, \$15,833, "University of Kansas Initiative on Ethics Education in Science and Engineering (KUI-EESE)."

Steward, David R., **Blair, John M.** (Biology), **Dodds, Walter K.** (Biology), and **Harrington Jr, John A.** (Geography), National Science Foundation, "Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains."

Stokes, Robert W., US Department of Transportation, \$101,039, "Traffic Assistance Services for Kansas (TASK)."

COMPUTING AND INFORMATION SCIENCES

Amtoft, Torben, **Banerjee, Anindya**, and **Hatcliff, John M.**, US Department of Defense, "Integrated Specification and Verification Environment for Component-Based Architectures of Large-Scale Distributed Systems."

Andresen, Daniel A., **Hatcliff, John M.**, **Robby**, and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, "Development of an Open Test-Bed for Application of Formal Methods to Plug-and-Play Medical Devices."

Andresen, Daniel A., **Erickson, Howard H.** (Anatomy and Physiology), **Poole, David C.** (Anatomy and Physiology), **Spire, Mark F.** (Diagnostic Medicine/Pathobiology), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$72,600, "Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market."

Andresen, Daniel A., **Llewellyn, Richard V.** (Agricultural Economics), **Mintert, James R.** (Agricultural Economics), **Schroeder, Ted C.** (Agricultural Economics), and **Stroade, Jeri L.** (Agricultural Economics), US Department of Agriculture, \$14,578, "Developing an Accessible and Comprehensive Cattle Risk Management Information Library."

Banerjee, Anindya, and **Schmidt, David A.**, National Science Foundation, "Language-Based Software Security."

Banerjee, Anindya, **Amtoft, Torben**, and **Hatcliff, John M.**, US Department of Defense, "Integrated Specification and Verification Environment for Component-Based Architectures of Large-Scale Distributed Systems."

Caragea, Doina, **Akhunov, Eduard D.** (Plant Pathology), **Brown, Susan J.** (Biology), **Garrett, Karen A.** (Plant Pathology), **Gill, Bikram S.** (Plant Pathology), **Herman, Michael A.** (Biology), **Johnson, Loretta C.** (Biology), **Narayanan, Sanjeevkumar** (Diagnostic Medicine/Pathobiology), **Nelson, James C.** (Plant Pathology), **White, Frank F.** (Plant Pathology), **Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, \$170,000, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Caragea, Doina, National Science Foundation, \$145,504, "Collaborative Research: Learning Classifiers from Autonomous, Semantically Heterogeneous, Distributed Data."

DeLoach, Scott A., and **Robby**, US Department of Defense, \$170,263, "Organization-Based Model-Driven Development of High-Assurance Multiagent Systems."

Erickson, Larry E., **Eckels, Steven J.** (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$215,250, "Urban Operations Laboratory."

Hatcliff, John M., National Science Foundation, \$64,872, "Collaborative Research: A Community Resource to Support Controlled Experimentation with Program Analysis and Software Testing Techniques."

Hatcliff, John M., Andresen, Daniel A., Robby, and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$55,000, "Development of an Open Test-Bed for Application of Formal Methods to Plug-and-Play Medical Devices."

Hatcliff, John M., Amtoft, Torben, and **Banerjee, Anindya**, US Department of Defense, \$149,814, "Integrated Specification and Verification Environment for Component-Based Architectures of Large-Scale Distributed Systems."

Hsu, William H., Aldentity Matrix Medical, Inc., \$20,000, "Web Interface for Intelligent Human-Computer Interactive Systems."

Hsu, William H., Das, Sanjoy (Electrical and Computer Engineering), **Knapp, Mary C.** (Dean of Agriculture and Director of AES), **Roe, Judith L.** (Agronomy), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$10,054, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

Hsu, William H., Rahman, Talat S. (Physics), and **Wallentine, Virgil E.**, National Science Foundation, \$154,232, "Parallel Data Mining for Nanoscale Kinetic Monte Carlo Simulation Models."

Neilsen, Mitchell L., Sandia National Laboratories, \$30,000, "Turbo Solder Interconnect Predictor Tool."

Neilsen, Mitchell L., US Department of Agriculture, \$20,000, "Development of Software Tools for Predicting Embankment Erosion of Earthen Dams."

Neilsen, Mitchell L., US Department of Agriculture, \$25,000, "Integration of Spillway Erosion Technology and WinTR-20 with WinDAM."

Ou, Xinming (Simon), National Science Foundation, \$146,000, "Model-Based, Automatic Network Security Management."

Robby, National Science Foundation, \$220,000, "Collaborative Research: A Java Modeling Language Community Infrastructure—Revitalizing Tools and Documentation to Aid Formal Methods of Research."

Robby, Andresen, Daniel A., Hatcliff, John M., and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, "Development of an Open Test-Bed for Application of Formal Methods to Plug-and-Play Medical Devices."

Robby, National Science Foundation, \$159,988, "Formal, Integrated Analysis Framework for Contract-Based Reasoning of Strong Properties of Open Systems."

Robby, and **DeLoach, Scott A.**, US Department of Defense, "Organization-Based Model-Driven Development of High-Assurance Multiagent Systems."

Schmidt, David A., and **Banerjee, Anindya**, National Science Foundation, \$27,000, "Language-Based Software Security."

Wallentine, Virgil E., Hsu, William H., and **Rahman, Talat S.** (Physics), National Science Foundation, "Parallel Data Mining for Nanoscale Kinetic Monte Carlo Simulation Models."

DEAN OF ENGINEERING

Douglas, Kimberly D., Dyer, Ruth A. (Office of the Provost), **Freeman, Lisa C.** (Anatomy and Physiology), **Montelone, Beth A.** (Dean of Arts and Sciences), and **Spears, Jacqueline D.** (Secondary Education), National Aeronautics and Space Administration, "Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics."

King, Terry S., Multisponsor, \$3,315, "Pre-Enrollment Mathematics and Sciences Tutoring of Minority Engineering Recruits."

King, Terry S., Dyer, Ruth A. (Office of the Provost), **Montelone, Beth A.** (Dean of Arts and Sciences), **Unger, Elizabeth A.** (Vice Provost for Academic Services and Technology), and **White, Stephen E.** (Dean of Arts and Sciences), National Science Foundation, "ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University."

Larson, Nancy J., Multisponsor, \$8,109, "KINEX Multi-Sponsor."

Staples, Kimberly A., US Department of Education, "Connections that Create Science Conceptual Change: A Professional Development Project for Middle Level Science Teachers."

ELECTRICAL AND COMPUTER ENGINEERING

Carpenter, Kenneth H., US Department of Energy, \$85,664, "Integrated Firing-Systems /Initiation-Train Modeling Enhancement."

Das, Sanjoy, Hsu, William H. (Computing and Information Sciences), **Knapp, Mary C.** (Dean of Agriculture and Director of AES), **Roe, Judith L.** (Agronomy), and **Welch, Stephen M.** (Agronomy), National Science Foundation, \$20,108, "Molecular Evolutionary Ecology of Developmental Signaling Pathways in Complex Environments."

Day, Dwight D., and **Devore, John J.**, US Department of Energy, \$15,000, "Hardware and Software Evaluation, Development, and Testing Supporting a New Generation Computer for Airborne and Space Applications."

Day, Dwight D., and **Gruenbacher, Don M.**, US Department of Energy, "Quality Dependent Traffic."

Devore, John J., Lewis, Christopher L., and **Natarajan, Balasubramaniam**, US Department of Energy, "Communication and Controls Development."

Devore, John J., and **Day, Dwight D.**, US Department of Energy, "Hardware and Software Evaluation, Development, and Testing Supporting a New Generation Computer for Airborne and Space Applications."

Erickson, Larry E., Eckels, Steven J. (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research/Office of Research and Sponsored Programs), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$123,000, "Urban Operations Laboratory."

Gruenbacher, Don M., and **Day, Dwight D.**, US Department of Energy, \$100,000, "Quality Dependent Traffic."

Kuhn, William B., National Aeronautics and Space Administration, \$10,000, "Proximity Microtransceiver for Interoperable Mars Communications."

Kuhn, William B., National Aeronautics and Space Administration, \$10,000, "Wide-Band Integrated Si-Based Single Chip TR Module for UHF Radar."

Kuhn, William B., Peregrine Semiconductor Corporation, \$60,000, "Micro-Power Radio Transceivers in Peregrine Semiconductor's SOS Process."

Kuhn, William B., US Department of Defense, \$50,000, "RFIC Technology Development for Radiation-Hardened Interceptor Communications."

Kuhn, William B., US Department of Energy, \$80,674, "Research in Fractional-N Synthesizer Design and LTCC Inductor Performance."

Kuhn, William B., US Department of Energy, \$97,775, "RFIC Development in Peregrine SOS Phase I."

Lewis, Christopher L., and **Schinstock, Dale E.** (Mechanical and Nuclear Engineering), National Aeronautics and Space Administration, \$51,876, "Topographic Models with Multispectral Image Registration from Orbiter Data."

Lewis, Christopher L., and **Schinstock, Dale E.** (Mechanical and Nuclear Engineering), US Department of Defense, \$10,000, "Passive Target Tracking Using Immediate Terrain Mapping to Disambiguate Target States."

Lewis, Christopher L., **Devore, John J.**, and **Natarajan, Balasubramaniam**, US Department of Energy, \$74,993, "Communication and Controls Development."

Miller, Ruth D., US Department of Energy, \$38,379, "Wind for Schools Wind Application Center: Kansas."

Natarajan, Balasubramaniam, **Devore, John J.**, and **Lewis, Christopher L.**, US Department of Energy, "Communication and Controls Development."

Soldan, David L., US Department of Agriculture, \$8,000, "Development of Computer Models for Stored Product Insect Population Dynamics in Flour Mills."

Warren, Steven, Andresen, Daniel A. (Computing and Information Sciences), **Hatcliff, John M.** (Computing and Information Sciences), and **Robby**, (Computing and Information Sciences), National Science Foundation, "Development of an Open Test-Bed for Application of Formal Methods to Plug-and-Play Medical Devices."

Warren, Steven, Andresen, Daniel A. (Computing and Information Sciences), **Erickson, Howard H.** (Anatomy and Physiology), **Poole, David C.** (Anatomy and Physiology), and **Spire, Mark F.** (Diagnostic Medicine/Pathobiology), National Science Foundation, \$72,600, "Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market."

ENGINEERING EXPERIMENT STATION

Jones, Byron W., Kansas Technology Enterprise Corporation, \$2,000, "ADMRC Administration."

Jones, Byron W., MITRE Corporation, \$10,000, "Aircraft Filter Assessment."

INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING

Harnett, R. Michael, US Department of Defense, \$50,398, "Part-Time M.S. Program in Industrial Engineering - Fall 2007."

Harnett, R. Michael, US Department of Defense, \$55,476, "Part-Time M.S. Program in Industrial Engineering - Spring 2008."

Lei, Shuting, US Department of Defense, \$22,062, "5-Axis Laser Assisted Machining of Silicon Carbide Ceramic Matrix Composites."

Lei, Shuting, **Chang, Zenghu** (Physics), and **Cocke, Charles L.** (Physics), US Department of Defense, "Attosecond Optical Technology Based on Recollision and Gating."

Pei, Zhijian, Boeing Company, \$10,000, "Ultrasonic Drilling Testing."

Pei, Zhijian, Crystal Technology, Inc., \$37,500, "Development of Advance Fabrication Process of Lithium Niobate - Patrick Zhang (Internship)."

Pei, Zhijian, Crystal Technology, Inc., \$50,000, "Development of Advance Fabrication Process of Lithium Niobate - Xiaohong Zhang (Internship)."

Pei, Zhijian, National Science Foundation, \$16,000, "Fundamental Research on Silicon Wafer Fine Grinding to Foster a Quantum Leap in Manufacturing of Silicon Wafers."

Pei, Zhijian, National Science Foundation, \$6,000, "Innovative Laser-Based Techniques for Characterization of Subsurface Cracks in Semiconductor Wafers."

Pei, Zhijian, and **Yuan, Wenqiao** (Biological and Agricultural Engineering), National Science Foundation, \$49,280, "SGER: Exploratory Research on Solid Carriers for Manufacturing Algae Biofuels in the Ocean."

Pei, Zhijian, National Science Foundation, \$23,758, "Workshop/Collaborative Research: 2008 NSF CAREER Proposal Writing Workshop: March 27 and 28, 2008, Northwestern University; Evanston, Illinois."

Pei, Zhijian, Saint-Gobain Ceramics & Plastics, Inc., \$69,931, "Abrasive Product Development and Finishing Process Development for Ceramics/Crystals."

Rys, Malgorzata J., and **Russell, Eugene R.** (Civil Engineering), Kansas Department of Transportation, \$41,300, "Promoting Center Line Rumble Strips to Increase Rural, Two-Lane Highway Safety."

INSTITUTE FOR ENVIRONMENTAL RESEARCH

Eckels, Steven J., Multisponsor, \$252,577, "Institute for Environmental Research Support."

Eckels, Steven J., and **Babin, Bruce R.** (Mechanical and Nuclear Engineering), Trane U.S. Inc., \$6,037, "Determination of Enhanced Boiling Tube Performance Characteristics."

Eckels, Steven J., **Erickson, Larry E.** (Center for Hazardous Substance Research), **Guikema, James A.** (Vice President for Research and Dean of Graduate School), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$645,750, "Urban Operations Laboratory."

Eckels, Steven J., **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), and **Jones, Byron W.**, US Department of Transportation, "Air Contamination Measurement Methods (Task #5)."

Eckels, Steven J., and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), Whirlpool Corporation, \$17,520, "Development of a Laboratory Test Procedure for Dryer Ventilation Requirements."

Jones, Byron W., and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), Boeing Company, \$237,000, "Sponsor Research Agreement - KSU Project Agreement No. 4."

Jones, Byron W., **Hirt, Helmut** (Biology), **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), and **Smith, Andrew T.** (Salina Aviation), Kansas State University, \$64,000, "Aircraft Cabin Environmental Security Proposal."

Jones, Byron W., **Eckels, Steven J.**, and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), US Department of Transportation, \$75,000, "Air Contamination Measurement Methods (Task #5)."

Jones, Byron W., US Department of Transportation, \$40,000, "In-Flight Project, Task 4."

McCullough, Elizabeth A., Taiwan Textile Research Institute, \$18,358, "Heat Transfer Evaluation of Materials and Clothing Ensembles."

McCullough, Elizabeth A., US Department of Defense, \$28,000, "Thermal Properties of Military Textile Products-Delivery Order #0001."

KANSAS INDUSTRIAL EXTENSION SERVICES

Carter, David A., **Johnson, Barbara L.**, and **Larson, Nancy J.**, US Environmental Protection Agency, "Kansas Pollution Prevention Program."

Johnson, Barbara L., **Carter, David A.**, and **Larson, Nancy J.**, US Environmental Protection Agency, "Kansas Pollution Prevention Program."

Larson, Nancy J., Kansas Health Foundation, \$23,786, "Safe Disposal of Unwanted Pharmaceutical Wastes."

Larson, Nancy J., Multisponsor, \$16,464, "KINEX Multi-Sponsor."

Larson, Nancy J., US Environmental Protection Agency, \$75,500 (includes \$5,580 from Industrial Firms), "Champions for Change - Source Reduction in Healthcare Facilities."

Larson, Nancy J., Carter, David A., and Johnson, Barbara L., US Environmental Protection Agency, \$120,194 (includes \$10,000 from Industry Match), "Kansas Pollution Prevention Program."

Larson, Nancy J., US Environmental Protection Agency, \$291,000, "Small Business Environmental Assistance Program - FY08."

Nelson, Richard G., US Department of Agriculture, \$10,000, "Extension Network on Bio-Based Renewable Energy from Agriculture."

Nelson, Richard G., Rice, Charles W. (Agronomy), **Staggenborg, Scott A.** (Northeast Area Office), and **Williams, Jeffery R.** (Agricultural Economics), US Department of Energy, \$82,300, "National Carbon Sequestration Database and Geographic Information Systems."

Nelson, Richard G., US Environmental Protection Agency, \$100,000, "Investigation of Land-Use Activities and Ecosystems Conditions Pertaining to Biofuels Production."

Snead, Bruce C., US Environmental Protection Agency, \$12,182, "National Radon-Focused Risk Reduction Training Project."

Snead, Bruce C., US Environmental Protection Agency, \$126,000, "Radon Projects for Kansas."

Snead, Bruce C., US Environmental Protection Agency, \$10,500, "Radon Training Courses for the Nebraska Radon Program."

Snead, Bruce C., US Environmental Protection Agency, \$8,600 (includes \$3,600 from Participant Contributions), "Radon Workshops."

Snead, Bruce C., US Environmental Protection Agency, \$47,663, "Regional Radon Training Center."

MECHANICAL AND NUCLEAR ENGINEERING

Babin, Bruce R., BAE Systems, \$11,014, "Spray Cooling."

Babin, Bruce R., and Eckels, Steven J. (Institute for Environmental Research), Trane U.S. Inc., \$6,037, "Determination of Enhanced Boiling Tube Performance Characteristics."

Babin, Bruce R., US Department of Energy, \$21,351, "Analytical Multi-Scale Evaluation of a 7 - and 19 - Fast Reactor Fuel Assembly."

Beck, B. Terry, and Hosni, Mohammad H., American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., "Update to Measurements of Office Equipment Heat Gain Data."

Beck, B. Terry, and Hosni, Mohammad H., Whirlpool Corporation, "Dryer Door Viscous Latch Development."

Cai, Liang-Wu, and Xin, Xiao J., National Science Foundation, "Introducing Finite Element Methods into Undergraduate Engineering Courses through a Module-Based Approach."

Dunn, William L., National Academy for Nuclear Training, \$25,000, "National Academy for Nuclear Training Fellowship."

Dunn, William L., McGregor, Douglas S., and Shultis, J. Kenneth, US Department of Defense, "Perforated Neutron Detectors and New Materials Development and Shielding Structures."

Erickson, Larry E., Eckels, Steven J. (Institute for Environmental Research), **Guikema, James A.** (Vice President for Research/Office of Research and Sponsored Program), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, \$676,500, "Urban Operations Laboratory."

Fenton, Donald L., American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., \$117,174, "Thermal Energy Storage Design for Emergency Cooling 1387-RFP."

Hosni, Mohammad H., and Beck, B. Terry, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., \$92,669, "Update to Measurements of Office Equipment Heat Gain Data."

Hosni, Mohammad H., and Jones, Byron W. (Institute for Environmental Research), Boeing Company, "Sponsor Research Agreement - KSU Project Agreement No. 4."

Hosni, Mohammad H., Hirt, Helmut (Biology), **Jones, Byron W.** (Institute for Environmental Research), and **Smith, Andrew T.** (Salina Aviation), Kansas State University, \$192,000, "Aircraft Cabin Environmental Security Proposal."

Hosni, Mohammad H., Anderson, Dawn L. (Dean of Human Ecology), and **Maes, Sue C.** (Dean of Continuing Education), US Department of Education, \$21,443, "Inter-Institutional Collaboration: The Key to Affordable and Accessible High Quality Education."

Hosni, Mohammad H., US Department of Energy, \$99,616, "Global Nuclear Energy Partnership Readiness at Kansas State University - Direct Summer Internship Experience for Faculty, Graduate and Undergraduate Students."

Hosni, Mohammad H., Eckels, Steven J. (Institute for Environmental Research), and **Jones, Byron W.** (Institute for Environmental Research), US Department of Transportation, "Air Contamination Measurement Methods (Task #5)."

Hosni, Mohammad H., and Eckels, Steven J. (Institute for Environmental Research), Whirlpool Corporation, "Development of a Laboratory Test Procedure for Dryer Ventilation Requirements."

Hosni, Mohammad H., and Beck, B. Terry, Whirlpool Corporation, \$29,238, "Dryer Door Viscous Latch Development."

Krishnaswami, Prakash, Deere & Company, \$161,531, "Integrated Robust Optimal Design (IROD) for Quality Improvement and Cost Reduction in Product Development."

Madanshetty, Sameer I., Kansas Department of Transportation, \$15,000, "Assessing the Accoustic Benefits of the New Coating Used in Surfacing Highway Lanes."

McGregor, Douglas S., Dunn, William L., and Shultis, J. Kenneth, US Department of Defense, \$500,000, "Perforated Neutron Detectors and New Materials Development and Shielding Structures."

McGregor, Douglas S., US Department of Energy, \$294,914, "Advanced Materials and Processes for High-Energy-Resolution Room-Temperature-Operated Gamma Ray Spectrometers."

McGregor, Douglas S., US Department of Energy, \$91,370, "Frisch Collar CdZnTe Detectors for a Collimated Array."

McGregor, Douglas S., US Department of Energy, \$65,779, "Lanthanide Halide Alloys."

Schinstock, Dale E., and Lewis, Christopher L. (Electrical and Computer Engineering), National Aeronautics and Space Administration, \$51,876, "Topographic Models with Multispectral Image Registration from Orbiter Data."

Schinstock, Dale E., and Lewis, Christopher L. (Electrical and Computer Engineering), US Department of Defense, \$10,000, "Passive Target Tracking Using Immediate Terrain Mapping to Disambiguate Target States."

Shultis, J. Kenneth, Dunn, William L., and McGregor, Douglas S., US Department of Defense, "Perforated Neutron Detectors and New Materials Development and Shielding Structures."

Wang, Youqi, US Department of Defense, \$155,179, "High Speed Penetration Failure Mechanisms of Textile Fabrics and Armor-Grade Textile Composites."

Xin, Xiao J., and Cai, Liang-Wu, National Science Foundation, \$149,985, "Introducing Finite Element Methods into Undergraduate Engineering Courses through a Module-Based Approach."

NATIONAL GAS MACHINERY LABORATORY

Chapman, Kirby S., American Petroleum Institute, \$100,000, "Emission Performance for Natural Gas-Fired Rich Burn Engines with Non-Selective Catalyst Reduction Emission Control."

Chapman, Kirby S., BP America Production Company, \$161,567, "Field Test Characterization of NSCR Catalysts on Engines Used in the Oil and Gas Gathering Industry."

Chapman, Kirby S., and Keshavarz, Ali, Pipeline Research Council International, Inc., \$65,300, "Development of an Active Air Control Systems."

Chapman, Kirby S., Pipeline Research Council International, Inc., \$118,916 (includes \$25,000 from Exline, Inc), "Field Test a Turbocharger Booster Systems."

Chapman, Kirby S., Pipeline Research Council International, Inc., \$5,000, "Pipeline Engine NOx Retrofit Technology Gaps and Program Roadmap."

Chapman, Kirby S., Pipeline Research Council International, Inc., \$17,000, "The One Half Gram Legacy Pipeline Engine: Configurations and Costs."

Keshavarz, Ali, and Chapman, Kirby S., Pipeline Research Council International, Inc., "Development of an Active Air Control Systems."

NATIONAL INSTITUTE FOR LAND MANAGEMENT AND TRAINING

Steichen, James M., Hutchinson, Stacy L. (Biological and Agricultural Engineering), and **Zhang, Naiqian** (Biological and Agricultural Engineering), US Department of Defense, \$27,000, "Assessing the Impact of Maneuver Training on NPS Pollution and Water Quality."

COLLEGE OF HUMAN ECOLOGY

APPAREL, TEXTILES, AND INTERIOR DESIGN

McCullough, Elizabeth A., Taiwan Textile Research Institute, \$6,119, "Heat Transfer Evaluation of Materials and Clothing Ensembles."

DEAN OF HUMAN ECOLOGY

Anderson, Dawn L., Hosni, Mohammad H. (Mechanical and Nuclear Engineering), and **Maes, Sue C.** (Dean of Continuing Education), US Department of Education, \$192,990, "Inter-Institutional Collaboration: The Key to Affordable and Accessible High Quality Education."

Moxley, Virginia M., Great Plains IDEA Alliance, \$125,526, "Great Plains IDEA Lead Institution."

HOSPITALITY MANAGEMENT AND DIETETICS

Gould, Rebecca A., Kansas State University Foundation, \$3,500, "Using the Theory of Reasoned Action to Assess Participation in Congregate Meal Programs (Kuei-I Lee)."

HUMAN NUTRITION

Chambers IV, Edgar, and Chambers, Delores H., Peryam & Kroll Research Corporation, \$40,569, "Evaluation of Product Characteristics."

Chambers, Delores H., and Chambers IV, Edgar, Peryam & Kroll Research Corporation, "Evaluation of Product Characteristics."

Chambers, Delores H., Amanor-Boadu, Vincent R. (Agricultural Economics), and **Schmidt, Karen A.** (Animal Sciences and Industry), US Department of Agriculture, "Food Industry Management Enhancement Program."

Haub, Mark D., NutrilJoy, Inc., \$50,000, "Services Agreement."

Lin, Dingbo, US Department of Health and Human Services, \$96,200, "Role of Gap Junctions in Oxidative Neurodegeneration in Cerebellum."

Marcus, Daniel C., US Department of Health and Human Services, \$370,551, "Epithelial Function in Health and Disease."

Medeiros, Denis M., US Department of Health and Human Services, \$174,898, "Kansas Bridges to the Future."

Melgarejo, I Tonatiuh, Fort Dodge Animal Health, \$392,025, "Studies on the Innate Immunity of Canis familiaris: Not Familiar After All."

Melgarejo, I Tonatiuh, Wyeth Pharmaceuticals Inc., \$483,000, "Hyena Hygiene: Not a Laughing Matter."

Steele, Lea, US Department of Veterans Affairs, \$25,296, "Agreement between Kansas State University and Veterans Affairs Eastern Kansas Healthcare Systems."

Wang, Weiqun, Kansas State University Foundation, \$3,000, "Undergraduate Student Cancer Research - Mentoring 3 Students."

SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES

Anderson, Jared R., and Goff, Briana S., US Department of Defense, "Ft. Riley Military Family Survey: Family Decisions to Accompany Soldiers Study."

Bradshaw, Michael H., Kansas Health Foundation, \$80, "Health Promotion for Older Kansans."

DeLuccie, Mary L., US Department of Agriculture, \$8,301, "Federal Aid in Support of the Child and Adult Care Food Program."

DeLuccie, Mary L., US Department of Education, \$4,500, "Early Childhood Unified (B-K) Preservice Program."

DeLuccie, Mary L., USD 383, Manhattan, \$19,992, "Early Childhood Lab."

Fink, Carol J., and Johannes, Elaine M., National 4-H Council, "Kansas State University - Health Rocks!."

Glasscock, Marlene K., US Department of Agriculture, \$650,000, "4-H/Air Force Partnership Project."

Glasscock, Marlene K., US Department of Agriculture, \$9,823,415, "4-H/Army Youth Development Project - KS."

Glasscock, Marlene K., US Department of Agriculture, \$649,035, "CYFAR and 4-H Military Partnerships."

Goff, Briana S., and Anderson, Jared R., US Department of Defense, \$16,600, "Ft. Riley Military Family Survey: Family Decisions to Accompany Soldiers Study."

Griffin, Charles L., Kansas Department of Social & Rehabilitation Services, \$255,223, "SRS Organizational Development Training and Curriculum Development."

Griffin, Charles L., and Olsen, Charlotte S., US Department of Agriculture, \$100,000, "Women Managing the Farm."

Griffin, Charles L., US Department of Health and Human Services, \$100,000, "Kansas All Hazards Behavior Health Plan."

Griffin, Charles L., US Department of Health and Human Services, \$2,668,767, "Kansas All Hazards Behavioral Health Plan."

Griffin, Charles L., US Department of Health and Human Services, \$35,556, "Kansas Rural Family Helpline."

Griffin, Charles L., US Department of Health and Human Services, \$946,584, "SRS Strategic Development Training and Curriculum Support."

Hoag, Linda A., US Department of Health and Human Services, \$92,820, "Communicative Competence and the Use of Prestored Text."

Johannes, Elaine M., and **Fink, Carol J.**, National 4-H Council, \$39,971 (includes \$1,750 from 4-H & FSHS for facilities use, and \$8,221 from SADD for facilities use), "Kansas State University - Health Rocks!."

Johannes, Elaine M., and **Fink, Carol J.** (Four-H Youth Development), US Department of Agriculture, "New Communities Project - Kansas Teen Leadership for Physically Active Lifestyles."

O Conner, Nancy T., Kansas Health Solutions, LLC, \$57,850, "Home Based Family Therapy Training."

O Conner, Nancy T., US Department of Health and Human Services, \$190,501, "Program for Training and Consultation of CMHC Practitioners Delivering Intensive Home Based Family Therapy Services."

Olsen, Charlotte S., and **Griffin, Charles L.**, US Department of Agriculture, "Women Managing the Farm."

Schumm, Walter R., US Department of Defense, \$110,043, "Strong Bonds - Single Soldier Longitudinal Effectiveness Study."

Sellers, Debra, Arthritis Foundation, \$1,750, "Fashion an Easier Life with Assistive Technology."

Sellers, Debra, Assistive Technology for Kansans, \$1,000, "Fashion an Easier Life with Assistive Technology."

Sellers, Debra, Kansas Department of Health and Environment, \$4,000, "Fashion an Easier Life with Assistive Technology."

Stith, Sandra M., US Department of Agriculture, \$1,393,427, "Kansas State University/Air Force Family Advocacy Research and Training Project."

Stith, Sandra M., US Department of Agriculture, \$281,138, "Kansas State University-Air Force Family Violence Prevention and Intervention Project."

Stith, Sandra M., US Department of Agriculture, \$390,103, "USDA/USAF Family Advocacy Training Support and Research Project."

SALINA COLLEGE OF TECHNOLOGY AND AVIATION

DEAN OF COLLEGE OF TECHNOLOGY AND AVIATION

Kuhlman, Dennis K., **Barnhart, Richard K.** (Salina Aviation), and **Splichal, Jimmy D.** (Salina Aviation), City of Salina, KS, "Salina Economic Development Grant."

SALINA APPLIED AVIATION RESEARCH CENTER

Barnhart, Richard K., Flint Hills Solutions, LLC, \$50,000, "Unmanned Aerial Systems (UAS) - Phase 2."

SALINA AVIATION

Barnhart, Richard K., **Kuhlman, Dennis K.** (Dean of College of Technology and Aviation), and **Splichal, Jimmy D.**, City of Salina, KS, \$100,000, "Salina Economic Development Grant."

Beckman, Evan J., and **Kuhlman, Dennis K.** (Salina Fiscal Affairs), Marathon Racing, Inc., \$23,900, "Memorandum of Agreement."

Smith, Andrew T., **Hirt, Helmut** (Biology), **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), and **Jones, Byron W.** (Institute for Environmental Research), Kansas State University, \$192,000, "Aircraft Cabin Environmental Security Proposal."

Splichal, Jimmy D., **Barnhart, Richard K.**, and **Kuhlman, Dennis K.** (Dean of College of Technology and Aviation), City of Salina, KS, "Salina Economic Development Grant."

SALINA ENGINEERING TECHNOLOGY

Delker, David G., and **Mosier, Nancy K.**, Kansas State Department of Education, "Solomon University."

Mosier, Nancy K., and **Delker, David G.**, Kansas State Department of Education, \$8,195, "Solomon University."

SALINA FISCAL AFFAIRS

Kuhlman, Dennis K., and **Beckman, Evan J.** (Salina Aviation), Marathon Racing, Inc., "Memorandum of Agreement."

COLLEGE OF VETERINARY MEDICINE

ANATOMY AND PHYSIOLOGY

Blecha, Frank, and **Freeman, Lisa C.**, US Department of Health and Human Services, "Basic Research Immersion Training Experience (BRITE) Veterinary Student Program."

Erickson, Howard H., **Andresen, Daniel A.** (Computing and Information Sciences), **Poole, David C.**, **Spire, Mark F.** (Diagnostic Medicine/Pathobiology), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$52,800, "Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market."

Erickson, Howard H., and **Minton, J. Ernest** (Animal Sciences and Industry), United Feeds, \$25,000, "Omega-3 Fatty Acids for Exercise-Induced Pulmonary Hemorrhage."

Freeman, Lisa C., Merck Company Foundation, \$31,729 (includes \$21,851 from Stipends & Training Expenses), "2008 Merck Merial Veterinary Research Grants Program."

Freeman, Lisa C., **Douglas, Kimberly D.** (Dean of Engineering), **Dyer, Ruth A.** (Office of the Provost), **Montelone, Beth A.** (Dean of Arts and Sciences), and **Spears, Jacqueline D.** (Secondary Education), National Aeronautics and Space Administration, "Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics."

Freeman, Lisa C., and **Montelone, Beth A.** (Dean of Arts and Sciences), US Department of Agriculture, \$235,329, "Pathways to Public Health."

Freeman, Lisa C., and **Blecha, Frank**, US Department of Health and Human Services, \$61,278, "Basic Research Immersion Training Experience (BRITE) Veterinary Student Program."

Freeman, Lisa C., US Department of Health and Human Services, \$145,395, "Post-DVM Fellowship for Dr. Ethel Taylor."

Freeman, Lisa C., and **Marcus, Daniel C.**, US Department of Health and Human Services, \$47,197, "Short-Term Training Students in Health Professional Schools."

Freeman, Lisa C., US Department of State, \$76,765, "Fellowship for a PhD Program for Denis Odnoshevskiy."

Kenney, Michael J., and **Freeman, Lisa C.** (Dean of Veterinary Medical Center), US Department of State, \$104,561, "Afghanistan and Iraqi Engagement (PR 1005844)."

Kukanich, Stanley P., and **Beard, Warren L.** (Clinical Sciences), Grayson-Jockey Club Research Foundation, \$8,217, "Effect of Flunixin on Lidocaine Plasma Protein Binding."

Kukanich, Stanley P., Kansas Racing and Gaming Commission, \$23,081, "Pharmacokinetics and Pharmacodynamics of the Analgesic Tramadol and Its Active Metabolite in Greyhound Dogs."

Kukanich, Stanley P., and **Davis, Elizabeth G.** (Clinical Sciences), Morris Animal Foundation, \$2,000, "The Pharmacokinetics of the Antifungal Drug Terbinafine in Horses - Megan Montgomery."

Kumari, Meena, US Department of Health and Human Services, \$255,179, "Ethanol-Induced NMDA R1 mRNA Stabilization."

Marcus, Daniel C., Kansas Technology Enterprise Corporation, \$65,000, "Epithelial Function in Health and Disease."

Marcus, Daniel C., and **Wangemann, A. Philine**, US Department of Health and Human Services, "Cellular Regulation of Cochlear Blood Flow."

Marcus, Daniel C., and **Wangemann, A. Philine**, US Department of Health and Human Services, \$366,248, "Cochlear and Vestibular Ion Transport."

Marcus, Daniel C., US Department of Health and Human Services, \$2,727,429, "Epithelial Function in Health and Disease."

Marcus, Daniel C., and **Freeman, Lisa C.**, US Department of Health and Human Services, "Short-Term Training Students in Health Professional Schools."

Musch, Timothy I., American Heart Association, Heartland Affiliate, \$71,500, "Skeletal Muscle Microvascular Oxygen Delivery and Fatigue in Aging: Effects of Antioxidants."

Musch, Timothy I., and **Poole, David C.** (Kinesiology), Cytokinetics, Inc., \$44,586, "Cytokinetics Project."

Poole, David C., and **Musch, Timothy I.**, Cytokinetics, Inc., "Cytokinetics Project."

Poole, David C., **Andresen, Daniel A.** (Computing and Information Sciences), **Erickson, Howard H.**, **Spire, Mark F.** (Diagnostic Medicine/Pathobiology), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, "Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market."

Schultz, Bruce D., **Chen, Jianhan**, and **Tomich, John M.** (Biochemistry), US Department of Health and Human Services, \$24,196, "Model Synthetic Channel Assemblies."

Schultz, Bruce D., and **Lillich, James D.** (Clinical Sciences), US Department of Health and Human Services, \$328,500, "Neuroendocrine-modulated Epithelial HCO₃-transport."

Tamura, Masaaki, and **Troyer, Deryl L.**, Joan's Legacy: The Joan Scarangelo Foundation, \$50,000, "IFN-Beta Expressing Stem Cell Therapy for Bronchioloalveolar Carcinoma."

Tamura, Masaaki, **Hua, Duy H.** (Chemistry), and **Troyer, Deryl L.**, US Department of Health and Human Services, "Stem Cells as Vehicles for Therapeutic Nanoparticle Delivery to Breast Cancer."

Troyer, Deryl L., and **Tamura, Masaaki**, Joan's Legacy: The Joan Scarangelo Foundation, "IFN-Beta Expressing Stem Cell Therapy for Bronchioloalveolar Carcinoma."

Troyer, Deryl L., **Hua, Duy H.** (Chemistry), and **Tamura, Masaaki**, US Department of Health and Human Services, \$97,226, "Stem Cells as Vehicles for Therapeutic Nanoparticle Delivery to Breast Cancer."

Wangemann, A. Philine, and **Hua, Duy H.** (Chemistry), American Heart Association, Heartland Affiliate, \$35,750, "Synthesis and Bioevaluation of Myriceric Acid A and its Analogs."

Wangemann, A. Philine, and **Marcus, Daniel C.**, US Department of Health and Human Services, \$306,217, "Cellular Regulation of Cochlear Blood Flow."

Wangemann, A. Philine, and **Marcus, Daniel C.**, US Department of Health and Human Services, "Cochlear and Vestibular Ion Transport."

Weiss, Mark L., Arthritis Foundation, \$2,700, "Umbilical Cord Stem Cells for Engineering TMJ Osteochondral Constructs."

Weiss, Mark L., Toucan Capital Corporation, \$93,046, "Proposal for Collaborative Work with Toucan Capital (Project 1)."

Weiss, Mark L., US Department of Health and Human Services, \$6,151, "Bioactive Signal Gradients to Engineer TMJ Condyle Osteochondral Constructs."

CLINICAL SCIENCES

Anderson, David E., **Apley, Michael D.**, **Coetzee, Johann F.**, and **Lillich, James D.**, Kansas City Area Life Sciences Institute, \$49,652, "Osseointegration of a Novel Polymeric Matrix-Antibiotic-BMP-2 Composite."

Apley, Michael D., **Anderson, David E.**, **Coetzee, Johann F.**, and **Lillich, James D.**, Kansas City Area Life Sciences Institute, "Osseointegration of a Novel Polymeric Matrix-Antibiotic-BMP-2 Composite."

Apley, Michael D., **Coetzee, Johann F.**, and **Gehring, Ronette**, National Pork Board, \$46,879, "Pharmacokinetics and Tissue Residues of Procaine Penicillin G in Finishing Swine after Administration of 33,000 IU/kg Intramuscularly and by Needle-free Injection in the Neck."

Beard, Warren L., and **Kukanich, Stanley P.** (Anatomy and Physiology), Grayson-Jockey Club Research Foundation, "Effect of Flunixin on Lidocaine Plasma Protein Binding."

Beard, Warren L., and **Tomich, John M.** (Biochemistry), Pegasus Laboratories Inc., "Wound Healing Project."

Carpenter, James W., Association of Avian Veterinarians, \$8,164, "Single-Dose Pharmacokinetics of Piperacillin/Tazobactam in the Hispaniolan Amazon Parrot (Amazona ventralis)."

Coetzee, Johann F., **Anderson, David E.**, **Apley, Michael D.**, and **Lillich, James D.**, Kansas City Area Life Sciences Institute, "Osseointegration of a Novel Polymeric Matrix-Antibiotic-BMP-2 Composite."

Coetzee, Johann F., **Apley, Michael D.**, and **Gehring, Ronette**, National Pork Board, "Pharmacokinetics and Tissue Residues of Procaine Penicillin G in Finishing Swine after Administration of 33,000 IU/kg Intramuscularly and by Needle-free Injection in the Neck."

Davis, Elizabeth G., and **Kukanich, Stanley P.** (Anatomy and Physiology), Morris Animal Foundation, \$2,000, "The Pharmacokinetics of the Antifungal Drug Terbinafine in Horses - Megan Montgomery."

Gehring, Ronette, **Apley, Michael D.**, and **Coetzee, Johann F.**, National Pork Board, "Pharmacokinetics and Tissue Residues of Procaine Penicillin G in Finishing Swine after Administration of 33,000 IU/kg Intramuscularly and by Needle-free Injection in the Neck."

Grauer, Gregory F., Vetoquinol USA, \$151,092, "Comparison of Rubenal and Benazepril in the Treatment of Chronic Kidney Disease in Cats."

Harkin, Kenneth R., Royal Canin, \$21,452, "Evaluation of L-Carnitine in Treatment of Toy Breed Hypoglycemia and in Pre-Conditioning of Toy Breed Puppies Prior to Shipping."

Higginbotham, Mary Lynn, American Association of Feline Practitioners, \$8,721, "Gene Expression Profiling of Feline Lymphoma."

Hodgson, David S., US Agency for International Development, \$196,852, "Advancing Afghan Agricultural Alliance."

Lillich, James D., American Quarter Horse Association, \$19,442, "Development of a Minimally Invasive Surgical Approach to Arthrodesis of the Osteoarthritic Equine Proximal Interphalangeal Joint."

Lillich, James D., Anderson, David E., Apley, Michael D., and Coetzee, Johann F., Kansas City Area Life Sciences Institute, "Osseointegration of a Novel Polymeric Matrix-Antibiotic-BMP-2 Composite."

Lillich, James D., and Schultz, Bruce D. (Anatomy and Physiology), US Department of Health and Human Services, "Neuroendocrine-modulated Epithelial HCO₃-transport."

Marcus, Daniel C., US Department of Health and Human Services, \$486,887, "Epithelial Function in Health and Disease."

Renberg, Walter C., Novartis Corporation, \$49,700, "Placebo-Controlled Field Efficacy Trial of Meloxicam (VEL-504) Administered Orally Via Transmucosal Oral Mist (PromistT Technology) in Client-Owned Dogs with Osteoarthritis."

Rush, Bonnie R., Saint George's University, \$81,888, "Clinical Training for St. George University."

Sanderson, Michael W., US Department of Agriculture, \$14,280, "Comprehensive Study of the Cow-Calf Segment of the Beef Cattle Industry via the National Animal Health Monitoring Systems Program and the Related Roles and Responsibilities of the Parties as Negotiated."

Sanderson, Michael W., US Department of Agriculture, \$4,501, "Kansas Johnes Work Plan 2007."

Thomson, Daniel U., Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), and **Renter, David G.** (Diagnostic Medicine/Pathobiology), National Cattlemen's Beef Association, \$101,000, "The effects of the Salmonella Newport SRP Vaccine in Feedlot Cattle."

Thomson, Daniel U., Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), and **Renter, David G.** (Diagnostic Medicine/Pathobiology), Star-Labs/Forage Research, Inc., "Effect of a Probiotic Product on Fecal Shedding of Escherichia coli O157:H7 in Cattle."

White, Bradley J., Biomune Company, \$22,046, "Mycoplasma Bovis Prevalence in Field Cases of Bovine Respiratory Disease."

White, Bradley J., and Renter, David G. (Diagnostic Medicine/Pathobiology), US Department of Agriculture, \$187,500, "Bovine Respiratory Disease Complex: Epidemiologic Methods to Improve Evidenced-Based Disease Management."

DEAN OF VETERINARY MEDICAL CENTER

Freeman, Lisa C., Merck Company Foundation, \$31,729 (includes \$21,851 from Stipends & Training Expenses), "2008 Merck Merial Veterinary Research Grants Program."

Freeman, Lisa C., and Montelone, Beth A. (Dean of Arts and Sciences), US Department of Agriculture, \$235,329, "Pathways to Public Health."

Freeman, Lisa C., and Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), US Department of Health and Human Services, \$7,088, "Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training."

Freeman, Lisa C., and Kenney, Michael J. (Anatomy and Physiology), US Department of State, \$104,561, "Afghanistan and Iraqi Engagement (PR 1005844)."

Richardson, Ralph C., Kansas Bioscience Authority, \$2,055,000, "Kansas Eminent Scholar in Animal Health."

Richardson, Ralph C., Kansas State University Foundation, \$197,064, "Professorships/Chairs."

Willard, Gayle K., State Library of Kansas, \$6,000, "Kansas Library ILDP Animals in Society."

DIAGNOSTIC MEDICINE/PATHOBIOLOGY

Anderson, Gary A., and Oberst, Richard D., Applera Corporation, \$671,192, "Applied Biosystems Agreement."

Anderson, Gary A., Hill's Pet Nutrition, Inc., \$4,000, "Sample Collection and Processing Agreement."

Anderson, Gary A., Kansas Department of Health and Environment, \$2,500, "Vaccine Refrigerator."

Anderson, Gary A., US Department of Agriculture, \$46,224, "Classical Swine Fever Surveillance."

Anderson, Gary A., and Stockham, Steven L., US Department of Agriculture, \$50,000, "NATIONAL ANIMAL HEALTH LABORATORY NETWORK: KANSAS."

Anderson, Gary A., US Department of Agriculture, \$35,000, "Pseudorabies Laboratory Testing."

Anderson, Gary A., US Department of Health and Human Services, \$40,000, "Avian Flu Hotline."

Chang, Kyeong-Ok, US Department of Health and Human Services, \$45,500, "Bile Acids in the Replication of Hepatitis C Virus."

Chang, Kyeong-Ok, US Department of Health and Human Services, \$181,979, "Replication of Noroviruses in Cell Culture."

Chowdhury, Shafiqul I., and Wilkerson, Melinda, US Department of Agriculture, \$375,000, "Regulation of Pathogenicity and Immunogenicity by BHV-1 Envelope Glycoproteins gM/gN."

Dritz, Steven S., Hesse, Richard, Niefeld, Jerome C., and **Rowland, Raymond R.**, American Association of Swine Veterinarians Foundation, \$6,000, "Porcine Circovirus Type 2 Elimination Study."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Lucta USA Inc., "Influence of Luctaromr Advance in Creep Feed and on Nursery Diet Complexity."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Hill's Pet Nutrition, Inc., "Effect of Cartilage Building Blocks Methionine, Tryptophan, Manganese, Copper, Zinc, Silicon, Lipic Acid, Proline/Glycine, and Amino Acid Level, on Osteochondrosis in Pigs."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Igene Biotechnology, Inc., "Evaluation of Astaxanthin as a Neutraceutical Growth Promoter in Starter Diets for Weanling Pigs."

Dritz, Steven S., Bergstrom, Jonathan R. (Animal Sciences and Industry), **DeRouchey, Joel M.** (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Igene Biotechnology, Inc., "The Effects of Aquasta Astaxanthin on Growth Performance and Carcass Composition of Finishing Pigs Fed for 28 Days Pre-Slaughter."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelson, James C.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Lifeline Foods, LLC, "Evaluation of High Protein DDGS for Swine."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Houser, Terry A.** (Animal Sciences and Industry), **Hunt, Melvin C.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, "Influence of Dietary DDGS and Glycerol on Pork Loin and Bacon Quality."

Dritz, Steven S., Behnke, Keith C. (Grain Science and Industry), **DeRouchey, Joel M.** (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **McKinney, Leland** (Grain Science and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), National Pork Board, \$7,920, "Utilizing Glycerol in Swine Diets: I. Feed Manufacturing Considerations and II. Nutritional Strategies to Reduce Dietary Costs."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Nutra-Flo Protein and Biotech Products, "Evaluation of PepSoyGen and DPS in Diets for Nursery Pigs."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Purco, \$14,000, "PURCO Project."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), Rembrandt Enterprises, "Spray-dried High Protein Egg Product as a Replacement for Spray-dried Animal Plasm and Fish Meal in Nursery Pig Diets."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), VeraSun Energy Corporation, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Finishing Swine."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Nelssen, Jim L.** (Animal Sciences and Industry), and **Tokach, Michael D.** (Animal Sciences and Industry), VeraSun Energy Corporation, "Evaluation of De-Oiled Distiller's Dried Grains with Solubles for Swine."

Dryden, Michael W., Fort Dodge Animal Health, \$87,435, "Compared Efficacy of a Single Dose of Topically Applied Spot-on Products to Repel, Prevent Attachment and Kill Ixodes scapularis."

Dryden, Michael W., Bagladi-Swanson, Mary S. (Veterinary Medical Teaching Hospital), and **Wilkerson, Melinda**, Fort Dodge Animal Health, "Testing a Vaccine as a Preventative or Therapeutic in a Canine Model of Flea Allergic Dermatitis."

Fortney, William D., Kansas Racing and Gaming Commission, \$21,650, "Developing Advanced Molecular Diagnostics for the Differentiation of Mycoplasma sp. Isolated from Coughing Greyhounds."

Fortney, William D., Kansas Racing and Gaming Commission, \$81,082, "Evaluation of the Safety and Efficacy of a New Bordetella bronchiseptica Vaccine in Dogs."

Ganta, Roman Reddy R., KRA Corporation, \$20,000, "American Society for Rickettsiology Conference 2007."

Ganta, Roman Reddy R., and **Chapes, Stephen K.** (Biology), US Department of Health and Human Services, \$33,997, "Cellular Immunity Against Ehrlichia chaffeensis."

Ganta, Roman Reddy R., US Department of Health and Human Services, \$365,000, "Vector and Host Contributions to the Regulation of E. chaffeensis Gene Expression."

Ganta, Roman Reddy R., US Department of Health and Human Services, \$20,000, "West Nile Virus Surveillance Laboratory Analysis Project."

Hesse, Richard, Dritz, Steven S., Nietfeld, Jerome C., and Rowland, Raymond R. R., American Association of Swine Veterinarians Foundation, "Porcine Circovirus Type 2 Elimination Study."

Hesse, Richard, Rowland, Raymond R. R., and **Wyatt, Carol R.**, National Pork Board, \$200,875, "PCVAD Induced Immune Dysfunction."

Hesse, Richard, National Pork Board, \$10,000, "PCVAD Outreach for Website."

Kastner, Justin J., Getty, Kelly J. K. (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), **Nutsch, Abbey L.** (Animal Sciences and Industry), and **Retzlaff, Deanna D.** (Dean of Continuing Education), US Department of Homeland Security, \$93,455, "Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense."

Nagaraja, Tiruvoor G., Drouillard, James S. (Animal Sciences and Industry), and **Renter, David G.**, National Cattlemen's Beef Association, "Strategies to Address Adverse Effects of Distiller's Grains on Prevalence of E. coli O157:H7 in Feedlot Cattle."

Nagaraja, Tiruvoor G., Renter, David G., and **Thomson, Daniel U.** (Clinical Sciences), National Cattlemen's Beef Association, "The effects of the Salmonella Newport SRP Vaccine in Feedlot Cattle."

Nagaraja, Tiruvoor G., Renter, David G., and **Thomson, Daniel U.** (Clinical Sciences), Star-Labs/Forage Research, Inc., \$59,850, "Effect of a Probiotic Product on Fecal Shedding of Escherichia coli O157:H7 in Cattle."

Nagaraja, Tiruvoor G., and **Freeman, Lisa C.** (Dean of Veterinary Medical Center), US Department of Health and Human Services, "Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Post-Doctor of Veterinary Medicine Training."

Narayanan, Sanjeevkumar, Akhunov, Eduard D. (Plant Pathology), **Brown, Susan J.** (Biology), **Caragea, Doina** (Computing and Information Sciences), **Garrett, Karen A.** (Plant Pathology), **Gill, Bikram S.** (Plant Pathology), **Herman, Michael A.** (Biology), **Johnson, Loretta C.** (Biology), **Nelson, James C.** (Plant Pathology), **White, Frank F.** (Plant Pathology), **Yu, Jianming** (Agronomy), and **Zurek, Ludek** (Entomology), Kansas State University, \$170,000, "Advancing Genomics at K-State: Ultra High-throughput DNA Sequencing."

Nguyen, Thu A., and Hua, Duy H. (Chemistry), US Department of Health and Human Services, \$27,300, "Anticancer Effect of Substituted Quinolines via GJIC."

Nietfeld, Jerome C., Dritz, Steven S., Hesse, Richard, and Rowland, Raymond R. R., American Association of Swine Veterinarians Foundation, "Porcine Circovirus Type 2 Elimination Study."

Nietfeld, Jerome C., US Department of Agriculture, \$10,664, "Kansas Johnes Work Plan 2008."

Oberst, Richard D., and Anderson, Gary A., Applera Corporation, "Applied Biosystems Agreement."

Pickrell, John A., Erickson, Larry E. (Center for Hazardous Substance Research), and **Van Der Merwe, Deon,** US Department of Defense, \$25,000, "Environmental, Health and Safety Related Studies of Nanomaterials."

Renter, David G., Drouillard, James S. (Animal Sciences and Industry), and **Nagaraja, Tiruvoor G.,** National Cattlemen's Beef Association, "Strategies to Address Adverse Effects of Distiller's Grains on Prevalence of E. coli O157:H7 in Feedlot Cattle."

Renter, David G., Nagaraja, Tiruvoor G., and Thomson, Daniel U. (Clinical Sciences), National Cattlemen's Beef Association, \$101,000, "The effects of the Salmonella Newport SRP Vaccine in Feedlot Cattle."

Renter, David G., Nagaraja, Tiruvoor G., and Thomson, Daniel U. (Clinical Sciences), Star-Labs/Forage Research, Inc., "Effect of a Probiotic Product on Fecal Shedding of Escherichia coli O157:H7 in Cattle."

Renter, David G., and White, Bradley J. (Clinical Sciences), US Department of Agriculture, \$187,500, "Bovine Respiratory Disease Complex: Epidemiologic Methods to Improve Evidenced-Based Disease Management."

Robertson, Donald C., US Department of Health and Human Services, \$14,980, "Protein Purification RFQ."

Rowland, Raymond R. R., Dritz, Steven S., Hesse, Richard, and Nietfeld, Jerome C., American Association of Swine Veterinarians Foundation, "Porcine Circovirus Type 2 Elimination Study."

Rowland, Raymond R. R., Hesse, Richard, and Wyatt, Carol R., National Pork Board, "PCVAD Induced Immune Dysfunction."

Rowland, Raymond R. R., National Pork Board, \$300,000, "PRRS Host Genetics Consortium: A Proposal to develop a consortium to study the role of host genetics and resistance to PRRSV."

Rowland, Raymond R. R., US Department of Agriculture, \$10,000, "Support for 2007 International PRRS Symposium Conference."

Spire, Mark F., Andresen, Daniel A. (Computing and Information Sciences), **Erickson, Howard H.** (Anatomy and Physiology), **Poole, David C.** (Anatomy and Physiology), and **Warren, Steven** (Electrical and Computer Engineering), National Science Foundation, \$22,000, "Infrastructure for Veterinary Telemedicine - Proactive Herd Health Management for Disease Prevention from Farm to Market."

Stockham, Steven L., and Anderson, Gary A., US Department of Agriculture, "NATIONAL ANIMAL HEALTH LABORATORY NETWORK: KANSAS."

Van Der Merwe, Deon, Erickson, Larry E. (Center for Hazardous Substance Research), and **Pickrell, John A.,** US Department of Defense, "Environmental, Health and Safety Related Studies of Nanomaterials."

Wilkerson, Melinda, Bagladi-Swanson, Mary S. (Veterinary Medical Teaching Hospital), and **Dryden, Michael W.,** Fort Dodge Animal Health, \$17,000, "Testing a Vaccine as a Preventative or Therapeutic in a Canine Model of Flea Allergic Dermatitis."

Wilkerson, Melinda, and Chowdhury, Shafiqul I., US Department of Agriculture, "Regulation of Pathogenicity and Immunogenicity by BHV-1 Envelope Glycoproteins gM/gN."

Wyatt, Carol R., Hesse, Richard, and Rowland, Raymond R. R., National Pork Board, "PCVAD Induced Immune Dysfunction."

VETERINARY MEDICAL TEACHING HOSPITAL

Bagladi-Swanson, Mary S., Dryden, Michael W. (Diagnostic Medicine/Pathobiology), and **Wilkerson, Melinda** (Diagnostic Medicine/Pathobiology), Fort Dodge Animal Health, "Testing a Vaccine as a Preventative or Therapeutic in a Canine Model of Flea Allergic Dermatitis."

Fingland, Roger B., City of Manhattan, KS, \$14,000, "Veterinary Services at the Sunset Zoological Park, Manhattan, Kansas."

OFFICE OF THE PRESIDENT

AUDITORIUM

Jackson, Thomas E., National Foundation on the Arts and the Humanities, \$8,088, "2007-08 Performance Series."

Jackson, Thomas E., National Foundation on the Arts and the Humanities, \$3,000, "Latino Culture Project."

BEACH ART MUSEUM

Render, Lorne E., National Foundation on the Arts and the Humanities, \$8,088, "Beach Museum of Art General Operating Support, 2008."

Schlageck, Kathrine W., National Foundation on the Arts and the Humanities, \$8,000, "Growing up ARTSmart."

Schlageck, Kathrine W., National Foundation on the Arts and the Humanities, \$8,000, "Paths in the Press Programming."

OFFICE OF THE PRESIDENT

Reagan, Charles, US Department of Defense, \$2,000,000, "Kansas State University Graduate Degree Program Development and Implementation for U. S. Army Command and General Staff College Leadership and Security Studies; Enhance Cooperative Degree Program in History."

PROVOST AND SENIOR VICE PRESIDENT

CENTER FOR ENGAGEMENT AND COMMUNITY DEVELOPMENT

Erickson, Larry E., US Environmental Protection Agency, \$5,000, "Water: Mother Earth's Gift."

Procter, David E., Council on Public Policy Education, \$5,000, "Encouraging Public Deliberation through the Institute for Civic Discourse and Democracy."

Procter, David E., Kettering Foundation, \$2,500, "Presidential Libraries Public Forums Project."

Procter, David E., and **Zacharakis, Jeffrey T.** (Dean of Education), North Central Regional Planning Commission, \$15,000, "Intellectual Knowledge and Technology Development."

Procter, David E., US Department of Agriculture, \$50,000, "Business Enhancement for Rural Grocery Stores."

Steichen, Ethel M., Corporation for National and Community Service, \$48,723, "Evaluation for the Corporation for National and Community Service-Funded Service-Learning Project."

INTERNATIONAL PROGRAMS

Holland, Kenneth M., Canadian Department of Foreign Affairs and Int'l Trade, \$15,872, "Canadian Studies Program Enhancement."

Holland, Kenneth M., Peace Corps, \$15,800, "Peace Corps Recruitment."

Wood, Mary, NCN Institute, \$8,201, "English Training Sponsorship."

LIBRARY

Goetsch, Lori, and **Gould, Thomas H.** (School of Journalism and Mass Communications), North Central Regional Planning Commission, \$30,000, "K-State Editorship of the Online Journal of Rural Research and Policy."

Schenck-Hamlin, Donna C., State Library of Kansas, \$5,000, "Prairie Ecology."

OFFICE OF THE PROVOST

Dyer, Ruth A., **Douglas, Kimberly D.** (Dean of Engineering), **Freeman, Lisa C.** (Anatomy and Physiology), **Montelone, Beth A.** (Dean of Arts and Sciences), and **Spears, Jacqueline D.** (Secondary Education), National Aeronautics and Space Administration, "Space-Centered Outreach Activities to Recruit Students into Science, Technology, Engineering And Mathematics."

Dyer, Ruth A., **King, Terry S.** (Dean of Engineering), **Montelone, Beth A.** (Dean of Arts and Sciences), **Unger, Elizabeth A.** (Vice Provost for Academic Services and Technology), and **White, Stephen E.** (Dean of Arts and Sciences), National Science Foundation, \$701,632, "ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University."

VICE PROVOST FOR INFORMATION TECHNOLOGY SERVICES

Maes, Sue C., **Anderson, Dawn L.** (Dean of Human Ecology), and **Hosni, Mohammad H.** (Mechanical and Nuclear Engineering), US Department of Education, "Inter-Institutional Collaboration: The Key to Affordable and Accessible High Quality Education."

Retzlaff, Deanna D., **Getty, Kelly J. K.** (Food Science Institute), **Kastner, Curtis L.** (Food Science Institute), **Kastner, Justin J.** (Diagnostic Medicine/Pathobiology), and **Nutsch, Abbey L.** (Animal Sciences and Industry), US Department of Homeland Security, \$26,702, "Development and Implementation of a Graduate Certificate of Completion Program in Food Protection and Defense."

VICE PROVOST FOR ACADEMIC SERVICES AND TECHNOLOGY

Unger, Elizabeth A., **Dyer, Ruth A.** (Office of the Provost), **King, Terry S.** (Dean of Engineering), **Montelone, Beth A.** (Dean of Arts and Sciences), and **White, Stephen E.** (Dean of Arts and Sciences), National Science Foundation, "ADVANCE Institutional Transformation Award: Institutional Transformation at Kansas State University."

REGENTS TELENET

Allard, John W., Kansas Board of Regents, \$25,214, "Kansas Regents Network (TELENET 2) HD-AV Implementation."

VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

KSU POLICE DEPARTMENT

Stubbings, Donald C., Kansas Alcoholic Beverage Control, \$1,782, "Underage Drinking Enforcement."

VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT

DEPARTMENT OF HOUSING

Ring, Debra J., and **Bosco, Pat J.** (Office of Student Life), US Department of Education, \$125,522, "K-State Childcare Access Means Parents in School (KCAMPIS)."

EDUCATIONAL AND PERSONAL DEVELOPMENT

Barragree, Cari D., US Department of Agriculture, \$3,334, "Kansas State University-Salina Upward Bound Program Summer Food Service Program (SFSP)."

Barragree, Cari D., US Department of Education, \$250,000, "Kansas State University - Salina Campus Upward Bound Project."

Barragree, Cari D., and **Lynch, Michael L.**, US Department of Education, "Upward Bound Program - Salina Campus."

Greene, Kathleen V., US Department of Education, \$252,000, "Ronald E. McNair Post-Baccalaureate Achievement Program."

Greene, Kathleen V., US Department of Education, \$274,712, "Student Support Services."

Greene, Kathleen V., US Department of Education, \$211,478, "Student Support Services - KSU Salina."

Holmes, JohnElla, and **Lynch, Michael L.**, US Department of Agriculture, "Kansas State University Upward Bound Math and Science Food Service Program."

Holmes, JohnElla, **Lynch, Michael L.**, and **Turner, Margaret A.**, US Department of Education, "Upward Bound Math and Science Program II."

Lynch, Michael L., and **Holmes, JohnElla**, US Department of Agriculture, \$3,054, "Kansas State University Upward Bound Math and Science Food Service Program."

Lynch, Michael L., **Holmes, JohnElla**, and **Turner, Margaret A.**, US Department of Education, "Upward Bound Math and Science Program II."

Lynch, Michael L., and **Barragree, Cari D.**, US Department of Education, \$250,000, "Upward Bound Program - Salina Campus."

Turner, Margaret A., American Chemical Society, \$1,500, "Kansas State University Upward Bound Math and Science Program - ACS Project Seed 2008 (Jade McConnell)."

Turner, Margaret A., American Chemical Society, \$1,500, "Kansas State University Upward Bound Program - Student Support."

Turner, Margaret A., US Department of Agriculture, \$5,851, "Kansas State University Upward Bound Summer Food Service Program."

Turner, Margaret A., US Department of Education, \$414,545, "Kansas State University Upward Bound Project."

Turner, Margaret A., **Holmes, JohnElla**, and **Lynch, Michael L.**, US Department of Education, \$248,680, "Upward Bound Math and Science Program II."

Turner, Margaret A., US Department of Education, \$414,545, "Upward Bound Program."

KSU CHILD DEVELOPMENT CENTER, INC.

Curry, Elizabeth W., and **Ring, Debra J.**, National Association of Child Care Resource & Referral Agncs, "Army Child Care in Your Neighborhood (ACCYN)."

Ring, Debra J., Kansas Child Care Training Opportunities, Inc, \$37,020, "Kansas Child Care Training Opportunities, Inc.."

Ring, Debra J., Manhattan Community Foundation, \$500, "KSU Child Development Center - Disaster Preparedness."

Ring, Debra J., and **Curry, Elizabeth W.**, National Association of Child Care Resource & Referral Agncs, \$201,721, "Army Child Care in Your Neighborhood (ACCYN)."

Ring, Debra J., US Department of Agriculture, \$42,280, "Child and Adult Care Food Program - Jardine Site."

OFFICE OF STUDENT LIFE

Bosco, Pat J., and **Ring, Debra J.** (Department of Housing), US Department of Education, "K-State Childcare Access Means Parents in School (KCAMPIS)."

UNIVERSITY COUNSELING SERVICES

Arck Jr, William, City of Manhattan, KS, \$25,463, "Youth Oriented Alcohol Abuse Prevention Program."

Newton, Fred B., Sunflower Foundation, \$22,862, "Moving and Mentoring."

Pearson, Barbara, US Department of Health and Human Services, \$104,608, "CollegeLifeCafe.com: An Online Program for Campus Suicide Prevention."

VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT

Lynch, Michael L., Kauffman Scholars, Inc., \$100,403, "Campus Residential Institutes for Kauffman Scholars."

Lynch, Michael L., Kauffman Scholars, Inc., \$120,850, "Campus Residential Institutes for Kauffman Scholars."

VICE PRESIDENT FOR RESEARCH

BIOTECHNOLOGY DESIGN LABORATORY

Tomich, John M., Multisponsor, \$82,618, "Biotechnology Laboratory Support."

ELECTRONICS DESIGN LABORATORY

Sobering, Timothy J., Multisponsor, \$218,212, "Electronics Design Laboratory Support."

NATIONAL AGRICULTURAL BIOSECURITY CENTER

Beardsley, Craig A., Northrop Grumman Space & Mission Systems Corp, \$35,000, "Northrop Grumman 2007."

Vanier, Martha A., US Department of Defense, \$4,030,000, "Infrastructure Support for the KSU Biosecurity Research Institute Facility."

OFFICE OF RESEARCH AND SPONSORED PROGRAMS

Guikema, James A., National Science Foundation, \$40,500, "2007 National Science foundation Graduate Research Fellowship Award - Matthew T. Basel."

Guikema, James A., **Eckels, Steven J.** (Institute for Environmental Research), **Erickson, Larry E.** (Center for Hazardous Substance Research), and **Leven, Blase A.** (Center for Hazardous Substance Research), US Department of Defense, "Urban Operations Laboratory."

OFFICE OF THE VICE PRESIDENT FOR RESEARCH

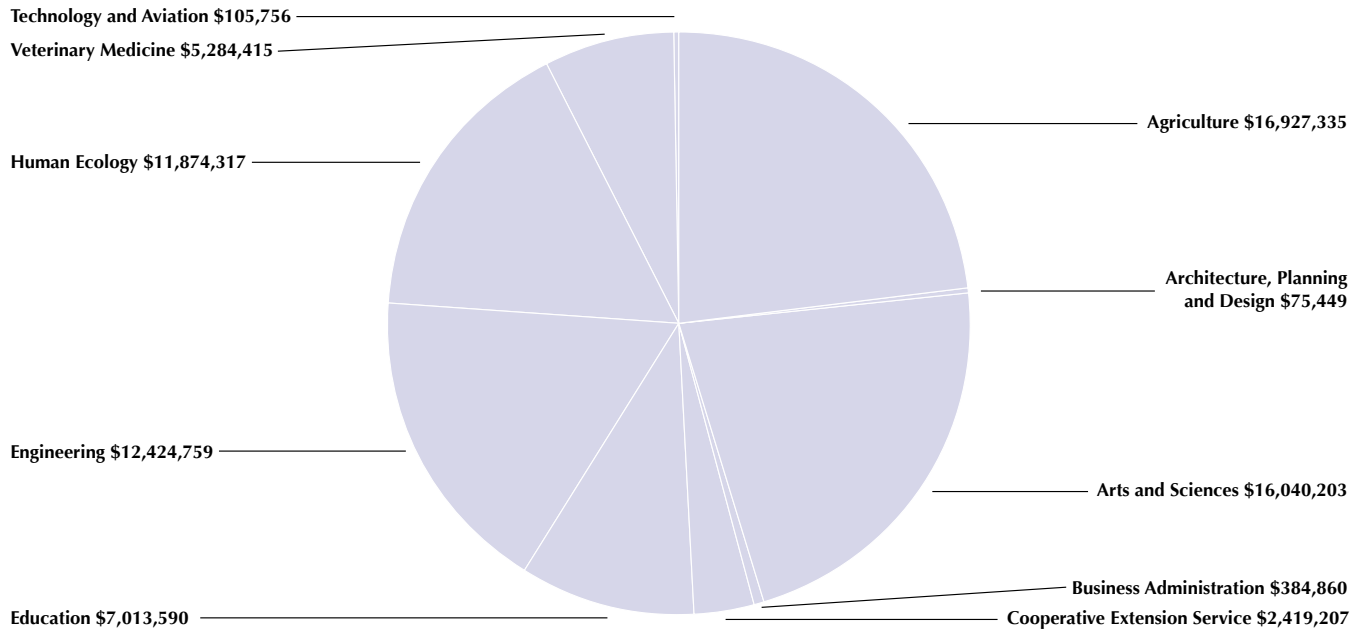
Trewyn, R. W., Kansas Bioscience Authority, \$1,548,000, "KSU Biosecurity Research Institute Technology Award."

Trewyn, R. W., Kansas State University Research Foundation, \$251,737, "KSU Research Foundation Staff Compensation."

SECTION 2: EXPENDITURES

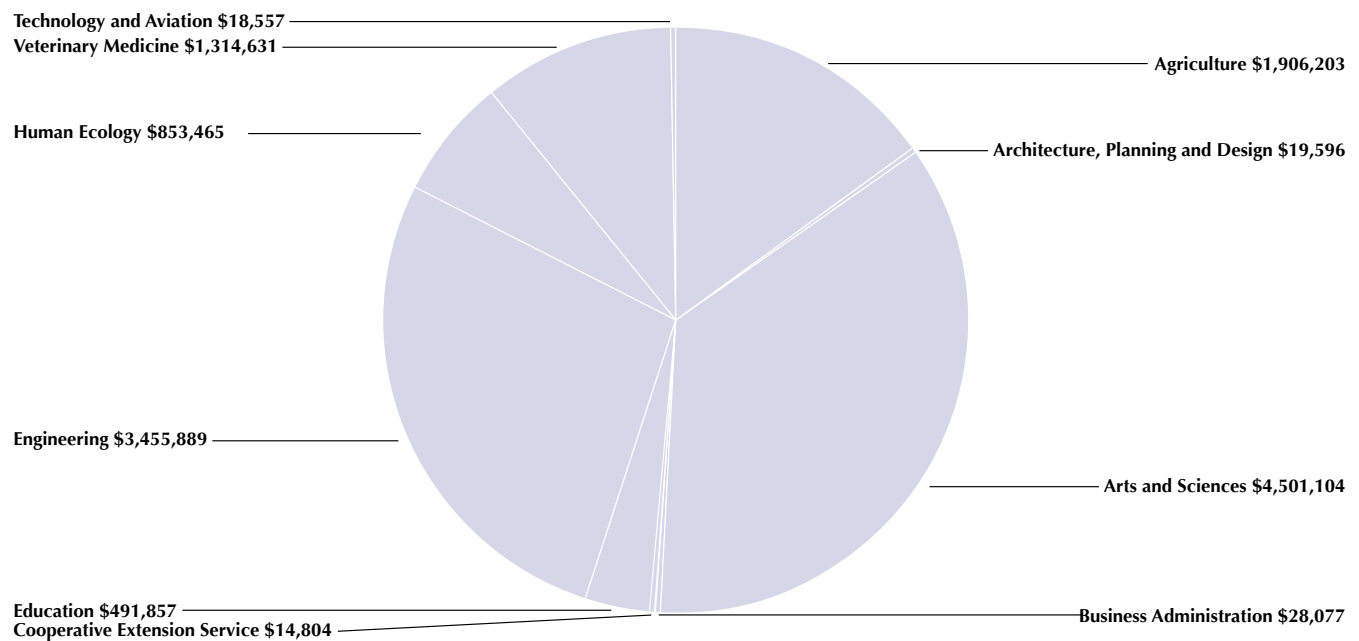
DIRECT COST EXPENDITURES BY COLLEGE AND EXTENSION*

Fiscal Year 2008



FACILITIES AND ADMINISTRATIVE COST RECOVERY BY COLLEGE AND EXTENSION*

Fiscal Year 2008



*Note: Data provided by the KSU Controller's Office, Sponsored Projects Accounting

EXPENDITURES FOR SPONSORED EXTRAMURAL FUNDING BY COLLEGE AND EXTENSION DEPARTMENT*

Fiscal Year 2008

College of Agriculture	DIRECT COSTS	FACILITIES AND ADMINISTRATIVE COSTS	TOTAL
Dean of Agriculture and Director of AES	19,722.11	0.00	19,722.11
Agricultural Economics	1,743,696.12	303,440.41	2,047,136.53
Agronomy	4,191,941.64	379,181.79	4,571,123.43
Animal Sciences and Industry	1,757,569.02	299,281.56	2,056,850.58
Communications	79,549.14	8,204.85	87,753.99
Entomology	1,390,941.92	194,205.88	1,585,147.80
Grain Science and Technology	1,216,336.87	153,413.37	1,369,750.24
Horticulture, Forestry and Recreation Resources	444,281.64	71,358.28	515,639.92
International Agricultural Programs	3,838.63	0.00	3,838.63
Plant Pathology	3,615,333.74	408,145.70	4,023,479.44
Kansas Center for Ag. Resource & Env.	916,983.61	46,419.04	963,402.65
Agricultural Experiment Station	319,607.88	32,301.32	351,909.20
Northwest Research Extension Center	257,990.70	0.00	257,990.70
Agricultural Research Center-Hays.	241,571.74	0.00	241,571.74
Southwest Research Extension Center	36,705.89	617.79	37,323.68
Southeast Agricultural Research Center	43,985.09	74.89	44,059.98
Food Science Institute	647,280.04	9,558.67	656,838.71
Total-College of Agriculture	16,927,335.78	1,906,203.55	18,833,539.33
College of Architecture and Design			
Architecture.	58,853.49	18,778.85	77,632.34
Landscape Architecture/Regional &Community Plan.	16,596.44	817.83	17,414.27
Total-College of Architecture & Design.	75,449.93	19,596.68	95,046.61
College of Arts and Sciences			
Biochemistry	1,561,088.07	554,814.69	2,115,902.76
Biology	6,817,987.81	1,469,505.39	8,287,493.20
Chemistry	1,451,471.33	409,565.02	1,861,036.35
Economics.	27,650.68	1,194.99	28,845.67
English.	2,650.00	0.00	2,650.00
Geography.	181,458.50	50,920.63	232,379.13
Geology	25,230.86	3,351.55	28,582.41
History	16,186.42	0.00	16,186.42
James R. MacDonald Laboratory	1,699,866.48	746,945.37	2,446,811.85
School of Journalism and Mass Communication	127,176.38	4,468.32	131,644.70
Mathematics	160,897.76	48,482.55	209,380.31
Music	11,317.72	0.00	11,317.72
Philosophy	46,740.09	21,500.34	68,240.43
Kinesiology	29,707.48	2,420.99	32,128.47
Physics	3,163,070.96	1,062,012.23	4,225,083.19
Psychology	191,760.74	26,456.74	218,217.48
Sociology, Anthropology, & Social Work	215,002.70	22,303.04	237,305.74
Speech, Communications, Theatre and Dance.	321.51	0.00	321.51
Statistics	19,303.68	8,879.69	28,183.37
Community Health Institute.	291,314.73	68,282.94	359,597.67
Total-College of Arts and Sciences	16,040,203.90	4,501,104.48	20,541,308.38

College of Business Administration	DIRECT COSTS	FACILITIES AND ADMINISTRATIVE COSTS	TOTAL
Dean of Business Administration	244,314.09	-63.16	244,250.93
Accounting	70,692.21	0.00	70,692.21
Management	69,853.80	28,140.37	97,994.17
Total-College of Business Administration	384,860.10	28,077.21	412,937.31

Cooperative Extension Services

Director of Cooperative Extension	86,366.70	0.00	86,366.70
4-H Youth Development	113,865.92	0.00	113,865.92
Kansas Forest Service	1,634,477.92	9,557.22	1,644,035.14
Agriculture and Natural Resources	529,401.97	0.00	529,401.97
Northwest Area Office	-98.46	5,247.11	5,148.65
Southwest Area Office	52,526.98	0.00	52,526.98
Northeast Area Office	610.30	0.00	610.30
Southeast Area Office	2,056.64	0.00	2,056.64
Total-Cooperative Extension Services	2,419,207.97	14,804.33	2,434,012.30

College of Education

Dean of Education	6,437,097.17	467,213.42	6,904,310.59
Educational Leadership	198,614.44	1,433.32	200,047.76
Counseling and Education Psychology	3,500.00	0.00	3,500.00
Elementary Education	246,472.64	18,621.71	265,094.35
Secondary Education	127,906.00	4,588.56	132,494.56
Total-College of Education	7,013,590.25	491,857.01	7,505,447.26

College of Engineering

Dean of Engineering	263,883.55	118,173.96	382,057.51
Biological & Agricultural Engineering	1,507,967.48	147,258.24	1,655,225.72
Chemical Engineering	478,736.35	199,920.12	678,656.47
Civil Engineering	1,180,914.64	323,857.42	1,504,772.06
Computing & Information Sciences	1,266,957.17	438,643.48	1,705,600.65
Electrical & Computer Engineering	578,059.40	220,508.58	798,567.98
Engineering Experiment Station	119,420.78	3,150.54	122,571.32
Institute for Environmental Research	524,262.13	123,266.45	647,528.58
Industrial & Manufacturing Systems Engineering	399,421.69	118,428.33	517,850.02
Mechanical and Nuclear Engineering	1,963,688.02	569,783.31	2,533,471.33
Advanced Manufacturing Institute	1,666,664.16	433,073.34	2,099,737.50
Kansas Industrial Extension Services	850,719.20	160,666.26	1,011,385.46
Center for Hazardous Substance Research	1,109,043.44	423,690.37	1,532,733.81
National Institute for Land Management & Training	188,626.07	68,532.99	257,159.06
National Gas Machinery Laboratory	326,395.47	106,935.75	433,331.22
Total-College of Engineering	12,424,759.55	3,455,889.14	15,880,648.69

College of Human Ecology

Dean of Human Ecology	5,033,335.08	539,306.43	5,572,641.51
Hotel, Restaurant, Institution Management & Dietetics	86,026.00	21,539.52	107,565.52
Human Nutrition	649,685.00	120,360.16	770,045.16
School of Family Studies & Human Services	6,105,271.79	172,259.70	6,277,531.49
Total-College of Human Ecology	11,874,317.87	853,465.81	12,727,783.68

Salina College of Technology	DIRECT COSTS	FACILITIES AND ADMINISTRATIVE COSTS	TOTAL
Dean of College of Tech and Aviation	6,112.52	18,163.43	24,275.95
Aviation.	0.00	394.26	394.26
Engineering Technology.	99,643.93	0.00	99,643.93
Total-Salina College of Technology	105,756.45	18,557.69	124,314.14
Veterinary Medical Center			
Dean of Veterinary Medical Center	413,297.30	2,233.21	415,530.51
Anatomy and Physiology.	2,479,555.82	822,273.26	3,301,829.08
Diagnostic Medicine/Pathobiology	1,719,685.55	375,299.07	2,094,984.62
Clinical Sciences.	647,300.25	114,826.09	762,126.34
Veterinary Medical Teaching Hospital	24,576.25	-0.01	24,576.24
Total-Veterinary Medical Center	5,284,415.17	1,314,631.62	6,599,046.79
Grand Total	72,549,896.97	12,604,187.52	85,154,084.49

UNIVERSITY SMALL RESEARCH GRANTS

University Small Research Grants are awarded by the Office of Research and Sponsored Programs to support the research, scholarly activity and other creative efforts of tenure-track faculty members.

Fall 2007 Awards

Aikens, Christine, Chemistry, \$2,000; study entitled Self-Assembly and Optical Properties of Nanoparticle Superlattices

An, Soontae, Journalism and Mass Communications, \$2,500; study entitled Youth Understanding of Embedded Commercial Content in WWW Sites: Online Advergaming and Children's Detection of Persuasive Intent

Anderson, Jared, Family Studies and Human Services, \$3,000; study entitled the Transition to Marriage in the United States Army

Betz, Emma, Modern Languages, \$3,000; study entitled Person References in German conversation

Brueseke, Matthew, Geology, \$2,500; study entitled Magmatism and mineralization in the Owyhee Mountains, ID

Dow, Douglas, Art, \$4,000; study entitled Rebuilding Brotherhood: The Renewal of Florentine Confraternities in the Age of Reform

Esmaily, Asadollah, Civil Engineering, \$2,500; study entitled Development of a Reinforced Concrete Virtual Laboratory

Kershner, Tiffany, Sociology, Anthropology, and Social Work, \$5,000; study entitled Documentation of Csubiya, a Language of the Caprivi Strip Region of Namibia

Kim, Jeong-Hee, Secondary Education, \$1,500; study entitled The Emerging Relationality among Narrative Inquiry, Embodiment, and Teachers as Researchers

Lee, Kyoungmi, Marketing, \$1,500; study entitled Impacts of Stereotypes on Consumer Judgments and Subjective Well-Being

Marzluf, Phillip, English, \$500; study entitled Responding to Evangelical Literacy in College Writing Classrooms

Song, Weixing, Statistics, \$2,500; study entitled Improved Statistical Inference Procedures and R-Package in Bioassay

Van Der Merwe, Deon, Diagnostic Medicine/Pathobiology, \$2,000; study entitled the Use of Cockroaches as Sentinels for Detecting Environmental Lead Contamination in Urban Settings

Yu, Han, English, \$2,500; study entitled Understanding Technical Communication in China: Demands, Current Practices, and Future Development

Spring 2008 Awards

Bergamasco, Luciana, Clinical Sciences, \$2,500; study entitled Electroencephalography Assessment in Adult and Geriatric Horses: Visual and Background Quantitative Analysis

Bossmann, Stefan, Chemistry, \$1,700; study entitled Femtosecond Spectroscopy at Ohio State University for the Optimization of Artificial Photosynthesis

Brase, Gary, Psychology, \$1,500; purchase Laboratory Equipment Upgrade and Expansion

Burrack, Frederick, Music, \$1,000; study entitled Effective and Ineffective Music Facility Designs in Kansas Schools

Cai, Gangshu, Management, \$500; study entitled The Impact of iPhone on the Wireless Market

Chilton, Michael, Management, \$1,000; Computer-Related Technology Usage in Kansas Veterinary Practices

Cully, Jr., Jack, Biology, \$1,000; study entitled Using Molecular Markers to Infer Dispersal Rates and Epidemiological Roles of Small Mammals

Dogan, Hulya, Grain Science, \$2,000; study entitled Understanding the Milling Behavior of Wheat: A Glass Transition and Phase/State Behavior Approach

Frey, Timothy, Special Education, Counseling, and Student Affairs, \$750; Design and Evaluation of an On-line Model of Professional Development for K-12 In-Service teachers in Rural Schools

Frey, Marsha, History, \$750; study entitled Diplomatic Culture Revolutionary France

Gabbard, R. Todd, Architecture, \$1,000; study entitled The Comparative Effectiveness of Sustainably Constructed Homes

Hedrick, Donald, English, \$500; study entitled Folger Shakespeare Library Research on the Figure of the "Friend" in Shakespeare

Ito, Takashi, Chemistry, \$1,500; study entitled Computer Simulation of Biological Separation within Nanostructured Channels Fabricated Using Multiphoton Photolithography

Klocke, Emily, Clinical Sciences, \$2,000; study entitled Verification of a Continuous Glucose Monitor for Use in Anesthetized Patients and the Prevalence of Hypoglycemia During Surgery for Portosystemic Shunt Attenuation

Kulcsar, Laszlo, Sociology, Anthropology, and Social Work, \$2,000; study entitled Migration Networks and Community Development, The Case of Emporia, Kansas

Long, Stephen, Political Science, \$1,000; study entitled Creation of a New War Casualties Data set, 1816-2007

Nippert, Jesse, Biology, \$2,500; study entitled Linking Water Availability to Tamarix Ecophysiology in Southwest Kansas

Palmatier, Matthew, Psychology, \$2,000; study entitled Incentive Value of Nicotine and Non-Nicotine Reinforcers

Spencer, Joel, Geology, \$4,500; study entitled A Pilot Study of Luminescence Age and Thermometric Properties of San Andreas Fault Observatory at Depth Stage III Fault Gouge Samples

Swilley, Esther, Marketing, \$500; study entitled Investigation into Mobile Atmospherics: Designing the Ideal Mobile Marketing Environment

Teagarden, James, Special Education, Counseling, and Student Affairs, \$1,000; Factors Relating to Implementing Seclusion with Kansas

Von Ohlen, Tonia, Biology, \$1,250; study entitled Understanding Regulation of an Msx Class Homeobox Gene

Wong, Brett, Kinesiology, \$2,000; study entitled Contribution of Sensory Nerves and TRPV-1 Channels to Cutaneous Active Vasodilation in Humans

Spencer, Joel, Geology, \$4,500; study entitled A Pilot Study of Luminescence Age and Thermometric Properties of San Andreas Fault Observatory at Depth Stage III Fault Gouge Samples

Wisely, Samantha, Biology, \$1,500; study entitled Habitat-Specific Host Dynamics in an Urban to Rural Ecotone

FACULTY DEVELOPMENT AWARDS

Faculty Development Awards are awarded by the Office of Research and Sponsored Programs and serve primarily as travel awards. They can be used for travel to international meetings, travel for foreign exchange, travel to the offices of potential external funding sponsors, and as matching funds on certain fellowships. They cannot be used for research travel.

Fall 2007 Awards

Aikens, Christine, Chemistry, \$900; to visit Air Force Office of Scientific Research program officers in Washington, DC

Baptist, Joyce, Human Ecology, \$900; to participate in Competent Care: Supervision Training for Mental Health Professionals in Malaysia

Benson, Janet, Sociology, Anthropology, and Social Work, \$500; to present at the Society for Multi-Ethnic Studies: Europe and the Americas conference in the Netherlands

Brase, Gary, Psychology, \$2,000; to present at the Human Behavior and Evolution Society annual meeting in Japan

Cassou, Steven, Economics, \$1,500; to present at the International Conference on Environmental Economics Conference and Investment Assessment in Spain

Charney, Wayne, Architecture, \$1,000; to present at the International Arts and the Humanities Conference in Hawaii

Clark, Robert, Modern Languages, \$560; to present at the University Pantheon-Sorbonne in France

Dayton, Timothy, English, \$1,000; to present at the Historical Materialism Conference in England

Donnelly, Michael, English, \$1,000; lecturer/professor exchange with Charles University in the Czech Republic

Freeman, Lisa, Veterinary Medicine, \$600; to meet with embassy, agriculture and university officials in Brazil

Harrington, Lisa, Geography, \$500; to attend Space to Place: The Next Rural Economies Workshop in British Columbia

Hillard, Derek, Modern Languages, \$1,500; to present at the European Network for Avant-Garde and Modernism Studies Conference in Belgium

Machor, James, English, \$1,000; speaker/ participant at the International Conference on Literature, History, and the Anxiety of Disciplinarity in Israel

Martinez-Ortiz, Maria, Modern Languages, \$2,000; to present at the City in Film Conference in the United Kingdom

McCrea, Heather, History, \$2,000; to present at the History of Latin American and Caribbean Environment in Brazil

Pakaste, Mervi, Art, \$500; to present at the Hatch Show Print in Tennessee

Pentz, Julie, Dance, \$1,000; to study African dance forms at Dagara Music and Arts Center in Ghana

Soibelman, Yan, Mathematics, \$500; to collaborate with University of Paris researchers and attend the Institute of Advanced Research in France

Wang, Weiqun, Human Nutrition, \$1,500; to present at the Institute of Animal Husbandry and Veterinary Science in China

Yu, Julie, Music, \$1,000; choral lecturer/keynote speaker at European Music Educators Association Conference in Italy

Yum, Young-Ok, Speech Communication, \$2,000; to present at the International Communication Association Conference in Canada

Spring 2008 Awards

An, Soontae, Journalism and Mass Communications, \$1,000; to present at the International Association for Media and Communication Research in Sweden

Arnds, Peter, Modern Languages, \$750; to present at the International Society for the Study of European Ideas conference in Finland

Askey, Dale, Libraries, \$500; to present at the Berlin Library Colloquium in Germany

Askey, Jennifer Drake, Modern Languages, \$1,000; to present at the Women Writers of the 18th and 19th Centuries conference in England

Belanger, Blake, Landscape Architecture, \$700; to present at the European Council of Landscape Architecture Schools Conference in Sweden

Benson, Douglas, Modern Languages, \$700; to present at the Annual American Association of Teachers of Spanish and Portuguese meeting in Costa Rica

Berry, Vikas, Chemical Engineering, \$1,000; to present at the Trends in Nanotechnology Workshop in Spain

Betz, Emma, Modern Languages, \$1,000; to participate in Pivots in Conversation from a Cross-Linguistic Germanic Perspective workshop in Sweden

Cai, Liang-Wu, Mechanical and Nuclear Engineering, \$2,000; to present at the Acoustics '08 Paris --- Joint Acoustical Society of America and European Acoustics Association conference in France

Castano-Bernard, Ricardo, Mathematics, \$1,000; to present at the Institute des Haute 'Etudes Scientifiques in France

Clem, Rollie, Biology, \$1,200; to present at the Society for Invertebrate Pathology Meeting in the United Kingdom

Dayton, Timothy, English, \$900; Historical Materialism Conference; England

Dodd, Elizabeth, English, \$2,500; speaker at the Region, Nation, Literature Conference and Research trip to Standing Stones in Outer Hebrides in Scotland

Haar, Sherry, Apparel, Textiles, and Interior Design, \$2,000; to attend the International Shibori Symposium in France

Hateley, Erica, English, \$2,000; to present at the Australasian Children's Literature Association for Research Conference in New Zealand

Hubbell, Amy, Modern Languages, \$2,000; to present at the Borders and Crossings: Bilingual Conference in Australia

Janda, Swinder, Marketing, \$1,000; to present at the Recent Advances in Retailing and Services Science Conference in Croatia

Kisangani, Emizet, Political Science, \$1,000; to present at the Global International Studies Conference in Slovenia

Kambhampati, Srinivas, Entomology, \$1,000; to present at the XXIII International Congress of Entomology in South Africa

McGlynn, Michael, Architecture, and Gabbard, R. Todd, Architecture, \$1,000; to present at the Oxford Conference 2008 and attend the Society for Building Science Educators Meeting both in the United Kingdom

McHaney, Roger, Management, \$1,000; to present at the Conference on Recent Advances in Retailing and Services Science in Croatia

Muturi, Nancy, Journalism and Mass Communications, \$1,500; to present at the Association for Media and Communication Research Conference in Sweden

Park, Yoonseong, Entomology, \$1,000; to present at the International Congress of Entomology in South Africa

Poggi-Corradini, Pietro, Mathematics, \$1,000; to present at the Holomorphic Iteration, Semigroups and Loewner Chains Workshop in Italy

Potts, Donna, English, \$1,000; speaker at the International Conference on the Literature Region and Nation in Scotland

Ramm, Alexander, Mathematics, \$1,000; keynote speaker at the World Congress of Nonlinear Analysts in Florida

Sabates, Marcelo, Philosophy, \$1,000; to present at the Symposium for Cognition, Logic and Communication in Latvia

Sandercock, Brett, Biology, \$500; to attend the Grouse Symposium in the Yukon Territory

Selfa, Theresa, Sociology, \$2,000; to present at the Sociological Association Meeting in Spain

Spencer, Joel, Geology, \$2,000; to present at the Luminescence and Electron Spin Resonance Dating Conference in China

Turchin, Victor, Mathematics, \$1,000; to present at the Max Planck Institute of Mathematics in Germany

Watts, Carol, Architecture, \$1,200; to present at the Conference of the International Association for the Study of Traditional Environments in England

Watts, Donald, Architecture, \$1,200; to present at the Conference of the International Association for the Study of Traditional Environments in England.

UNIVERSITY DISTINGUISHED PROFESSORS

JOHN M. BLAIR, Biology (2006)
FRANK BLECHA, Anatomy and Physiology (2001)
M. CHENGAPPA, Diagnostic Medicine/Pathobiology (2003)
C. LEWIS COCKE, Physics (1997)
GARY W. CONRAD, Biology (1998)
ROBIN DENELL, Biology, (2000)
L. T. FAN, Chemical Engineering (1987)
BIKRAM S. GILL, Plant Pathology (1997)
DAVID HARTNETT, Biology (2004)
DALE HERSPRING, Political Science (2007)
JONATHAN HOLDEN, English (1988)
DUY HUA, Chemistry (2007)
YOSHIRO IKEDA, Art (2004)
HONGXING JIANG, Physics (2004)
MICHAEL R. KANOST, Biochemistry (2005)
KENNETH KLABUNDE, Chemistry (1988)
ALAN KNAPP, Biology (2002)
CHII-DONG LIN, Physics (1990)
ROBERT D. LINDER, History (2003)
DAVID LITTRELL, Music (2001)
DANIEL C. MARCUS, Anatomy and Physiology (2006)
JAMES L. MARSDEN, Regents Distinguished Professor of Animal Sciences (1994)
RICHARD A. MARSTON, Geography (2006)
SUBBARATNAM MUTHUKRISHNAN, Biochemistry (2007)
E. WAYNE NAFZIGER, Economics (1999)
VINCENT ORTIZ, Chemistry (2004)
HARALD E.L. PRINS, Anthropology (2005)
TALAT RAHMAN, Physics (2001)
SONNY RAMASWAMY, Entomology (2004)
PATRICK RICHARD, Cortelyou-Rust Distinguished Professor of Physics (1988)
TOM ROCHE, Biochemistry (2002)
SADAHIRO SAEKI, Mathematics (1988)
DAVID A. SCHMIDT, Computing and Information Sciences (2003)
JAMES SHANTEAU, Psychology (2005)
TED SCHROEDER, Agricultural Economics (2004)
CHRISTOPHER SORENSEN, Physics, (2000)
BRIAN S. SPOONER, Biology (1999)
MICHAEL W. SULEIMAN, Political Science (1990)
LARRY TAKEMOTO, Biology (2001)
BARBARA VALENT, Plant Pathology (2002)
DEAN ZOLLMAN, Physics (2001)

A COMPLETE LISTING, INCLUDING UNIVERSITY DISTINGUISHED PROFESSORS EMERITUS, APPEARS AT
WWW.KSU.EDU/GRAD/FACULTY/GRADPRO.HTM

RECIPIENTS OF THE DISTINGUISHED GRADUATE FACULTY AWARD

The Distinguished Graduate Faculty Award is made annually to those faculty members who have distinguished themselves nationally and internationally for their excellence in research and graduate education. Normally, up to two faculty members are selected annually by a group of faculty peers. Recipients receive an honorarium and deliver a public lecture following selection for this award.

JOHN F. HELM Architecture and Applied Arts 1955-56
HILMER H. LAUDE Agronomy 1955-56

ALVIN B. CARDWELL Physics 1956-57
CHARLES H. SCHOLER Applied Mechanics 1956-57

HOWARD T. HILL Speech 1957-58
ARTHUR D. WEBER College of Agriculture 1957-58

CHARLES M. CORRELL History 1958-59
LEON R. QUINLAN Landscape Architecture 1958-59

FRANCIS D. FARRELL President Emeritus 1959-60
FRED L. PARRISH History 1959-60

KLING L. ANDERSON Agronomy 1960-61
HOLLY C. FRYER Statistics 1960-61

A. M. GUHL Zoology 1961-62
H. HENLEY HAYMAKER Botany 1961-62

ROBERT KATZ Physics 1962-63

ERLE E. BARTLEY Dairy and Poultry Science 1963-64

ROY LANGFORD Psychology 1964-65

V. D. FOLTZ Bacteriology 1965-66

BREWSTER ROGERSON English 1966-67

JOHN A. JOHNSON Grain Science and Industry 1967-68

R. KENNETH BURKHARD Biochemistry 1968-69

CLIFTON E. MELOAN Chemistry 1969-70

ROBIN HIGHAM History 1970-71

ANGELO C. GARZIO Art 1971-72

L. T. FAN Chemical Engineering 1972-73

IVAN D. TEARE Agronomy 1973-74

STANLEY E. LELAND Veterinary Pathology 1974-75

RICHARD CONSIGLI Biology 1975-76

DUDLEY WILLIAMS Physics 1976-77

FREDERICK W. OEHME Surgery and Medicine 1977-78

ELMER G. HEYNE Agronomy 1978-79

DONALD W. SETSER Chemistry 1979-80

JAMES F. SHEPARD Plant Pathology 1980-81

ROGER FEDDE Anatomy and Physiology 1981-82

NASIR AHMED Electrical Engineering 1982-83

WILLIAM FATELEY Chemistry 1983-84

BURTON I. KAUFMAN History 1984-85

PATRICK RICHARD Physics 1984-85

JONATHAN HOLDEN English 1985-86

HORST LEIPOLD Pathology 1985-86

TERRY C. JOHNSON Biology 1986-87

MICHAEL W. SULEIMAN Political Science 1986-87

CORNELIA BUTLER FLORA Sociology 1987-88
RICHARD N. MCDONALD Chemistry 1987-88

MARGO KREN Art 1988-89
GERALD R. REECK Biochemistry 1988-89

BIKRAM S. GILL Plant Pathology 1989-90
PATRICIA J. O' BRIEN Sociology, Anthropology and Social Work 1989-90

BRIAN S. SPOONER Biology 1990-91
BENJAMIN R. TILGHMAN Philosophy 1990-91

ALBERT N. HAMSCHER History 1991-92
KENNETH J. KLABUNDE Chemistry 1991-92

C. LEWIS COCKE Physics 1992-93
JANE A. WESTFALL Anatomy and Physiology 1992-93

ROBIN E. DENELL Biology 1993-94
JOHN J. IANDOLO Pathology and Microbiology 1993-94
DONALD J. MROZEK History 1993-94

THEODORE L. HOPKINS Entomology 1994-95
THOMAS E. ROCHE Biochemistry 1994-95

GARY W. CONRAD Biology 1995-96
JAN E. LEACH Plant Pathology 1995-96
E. WAYNE NAFZIGER Economics 1995-96

ALEXANDER G. RAMM Mathematics 1996-97
CHRISTOPHER M. SORENSEN Physics 1996-97

FRANK BLECHA Anatomy and Physiology 1997-98
TALAT RAHMAN Physics 1997-98
ROLLIN SEARS Agronomy 1997-98

LARRY TAKEMOTO Biology 1998-99

MARSHA FREY History 1999-2000
ERIC MAATA Chemistry 1999-2000

GEORGE KEISER English 2000-01
PAUL SEIB Grain Science and Industry 2000-01

SCOT H. HULBERT Plant Pathology 2001-02
JOSEPH VINCENT ORTIZ Chemistry 2001-02

LARRY E. ERICKSON Chemical Engineering 2002-03
JAMES SHANTEAU Psychology 2002-03

DALE HERSPRING Political Science 2003-04
DAVID NORMAN Agricultural Economics 2003-04

DALLAS JOHNSON Statistics 2004-05
DUY HUA Chemistry 2004-05

EDGAR CHAMBERS IV Human Nutrition 2005-06
ALLEN FEATHERSTONE Agricultural Economics 2005-06

SUBBARAT MUTHUKRISHNAN Biochemistry 2006-07
PHILINE WANGEMANN Anatomy and Physiology 2006-07

DELORES J. FELD TAKEMOTO Biochemistry 2007-08
JAMES H. EDGAR Chemical Engineering 2007-08

U.S. PATENTS

Issued from July 1, 2007 to June 30, 2008 to the KSU Research Foundation

(Listed in reverse chronological order)

Rongqing Hui, Hong-Xing Jiang and Jing-Yu Lin "Method and Apparatus for Use of III-Nitride Wide Bandgap Semiconductors in Optical Communications" (#7,345,812)

Ravichandra S. Mulukutla, Paul S. Malchesky, Ronaldo Maghirang, John S. Klabunde, Kenneth J. Klabunde and Olga Koper "Metal Oxide Nanoparticles for Smoke Clearing and Fire Suppression" (#7,276,640)

Bhagavatula L.V. Prasad, Savka Stoeva, Kenneth J. Klabunde and Christopher Sorensen "Siloxanes and Methods of Synthesis Thereof Using Metallic Nanoparticle Catalysts" (#7,244,799)

The Kansas State University Research Foundation (KSURF), a not-for-profit 501(c)(3) corporation is assigned the responsibility for technology transfer activities for Kansas State University. KSURF secures legal protection (patents, copyrights, trademarks, etc.) for intellectual property created at the University and facilitates various commercialization

efforts involving this property. Licensing and entrepreneurial initiatives are carried out by the National Institute for Strategic Technology Acquisition and Commercialization (NISTAC) in conjunction with KSURF.

E-mail: tech.transfer@ksu.edu

<http://www.ksu.edu/tech.transfer>

FACULTY WITH AES RESEARCH APPOINTMENTS WHO RECEIVED EXTRAMURAL FUNDING IN FY08

FISCAL YEAR 2008

Agricultural Economics

Amanor-Baodu, Vincent
Barkley, Andrew
Boland, Michael
Dhuyvetter, Kevin
Jones, Rodney
Kastens, Terry
Mintert, James
Peterson, Hikaru
Schroeder, Ted
Schurle, Bryan
Williams, Jeffery

Agronomy

Al-Khatib, Kassim
Claassen, Mark
Fick, Walter
Fritz, Allan
Gordon, Walter
Ham, Jay
Heer, William
Janssen, Keith
Kirkham, Mary Beth
Kluitenberg, George
Maddux, Larry
Mengel, David
Pierzynski, Gary
Presley, Deann
Ransom, Michel
Regehr, David
Rice, Charles
Roozenboom, Kraig
Schaffer, Vernon
Schapaugh, William
Staggenborg, Scott
Stone, Loyd
Tuinstra, Mitch
Welch, Stephen
Yu, Jianming

Animal Sciences and Industry

Blasi, Dale
Bormann, Jennifer
Bradford, Barry
Davis, Duane
DeRouchey, Joel
Drouillard, James
Goodband, Robert
Greiger, David
Hancock, Joe Dan
Herald, Thomas
Hollis, Larry
Houser, Terry
Hunt, Melvin
Minton, J. Ernest
Nelssen, Jim
Odde, Ken
Olson, K. C.
Phebus, Randall
Schmidt, Karen
Stevenson, Jeffery

Titgemeyer, Evan
Tokach, Mike

Food Science Institute

Kastner, Curtis
Getty, Kelly

Communications

Boone, Kristina
Ashlock, Marcus
Terry, Roger

Entomology

Phillips, Tom
Broce, Alberto
Cloyd, Ray
Marshall, Jeremy
Michaud, John
Nechols, James
Reese, John
Smith, C. Michael
Whitworth, Robert J.
Wilde, Gerald
Zurek, Ludek

Grain Science and Industry

Vacant (Virgil Smail)
Alavi, Sajid
Behnke, Keith
Bhadriraju, Subramanyam
Dogan, Hulya
Faubion, Jon
Gwartz, Jeff
Howard, John
Madl, Ron
McKinney, Leland
Shi, Yong-Cheng
Sun, Susan
Vadlani, Praveen

Horticulture, Forestry and Recreation Resources

Bremer, Dale
Carey, Edward
Fry, Jack
Geyer, Wayne
Griffin, Jason
Jahnke, Rhonda
Keeley, Steven
Park, Sunghun
Reid, William
Shoemaker, Candice
St. John, Rodney
Stevens, Alan
Warner, Thomas
Williams, Kimberly

Plant Pathology

Akhunov, Eduard
Bockus, William
DeWolf, Erick
Garrett, Karen
Gill, Bikram
Jardine, Douglas

Kennelly, Megan
Leslie, John
Little, Christopher
Nelson, James
Stack, James
Todd, Timothy
Trick, Harold
Valent, Barbara
White, Frank

ARCH-Hays

Kofoed, Kenneth
Martin, Terry J.
Seifers, Dallas
Stahlman, Phillip

NWREC-Colby

Aiken, Robert
Lamm, Freddie

SWREC-Garden City

Buschman, Lawrent
Currie, Randall
Holman, John
Schlegel, Alan

SEREC-Parsons

Kelly, Kenneth
Long, James
Moyer, Joseph
Sweeney, Daniel

Biochemistry

Kanost, Michael
Muthukrishnan, S.
Reeck, Gerald
Takemoto, Delores
Tomich, John
Wei, Quze
Zolkiewski, Michal
Zufferey, Rachel

Biology

Asano, Katsuro
Blair, John
Brown, Susan
Chapes, Stephen
Clem, Rollie
Denell, Robin
Dodds, Walter
Ferguson, Carloyn
Gido, Keith
Hartnett, David
Hirt, Helmut
Joern, Anthony
Johnson, Loretta
Jumpponen, Ari
Marchin, George
Michel, Kristen
Passarelli, A. Lorena
Rintoul, David
Spooner, Brian
Upton, Steve
Welti, Ruth

Statistics

Gadbury, Gary

Community Health

Dzewaltowski, David

Biological & Agricultural Engineering

Barnes, Philip
Hutchinson, Stacey
Jim Koelliker
Maghirang, Ronald
Mankin, Kyle
Wang, Donghai
Yuan, Wengiao
Zhang, Naqian

Human Nutrition

Chambers, Edgar
Haub, Mark
Medeiros, Denis
Melgarejo, L Ton
Wang, Weiqun

Anatomy & Physiology

Blecha, Frank
Schultz, Bruce
Troyer, Deryl

Diagnostic Medicine\ Pathobiology

Chang, Kyeong-Ok
Chowdhury, Shafiqul
Dritz, Steven
Dryden, Michael
Ganta, Roman
Nagaraja, Tiruvo
Nietfeld, Jerome
Oberst, Richard
Pickerell, John
Renter, David
Robertson, Donald
Rowland, Raymond
Wyatt, Carol

Clinical Sciences

Coetzee, Johann
Gehring, Ronette
Thomson, Daniel
White, Bradley

K-State notice of nondiscrimination

Kansas State University is committed to nondiscrimination on the basis of race, color, ethnic or national origin, sex, sexual orientation, gender identity, religion, age, ancestry, disability, military status, veteran status, or other non-merit reasons, in admissions, educational programs or activities and employment, including employment of disabled veterans and veterans of the Vietnam Era, as required by applicable laws and regulations. Responsibility for coordination of compliance efforts and receipt of inquiries concerning Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans With Disabilities Act of 1990, has been delegated to the Director of Affirmative Action, Kansas State University, 214 Anderson Hall, Manhattan, KS 66506-0124, (Phone) 785-532-6220; (TTY) 785-532-4807.

